

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VW012025\
 Data File : VW038471.D
 Acq On : 20 Jan 2025 18:02
 Operator : SY/MD
 Sample : VIBLK
 Misc : 25mL/MSVOA_V/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Jan 21 00:55:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR011725WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Tue Jan 21 00:50:24 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.616	114	115	5.000	ug/L	# 0.09
28) Chlorobenzene-d5	8.815	117	558	5.000	ug/L	# 0.04
58) 1,4-Dichlorobenzene-d4	11.207	152	1694	5.000	ug/L	0.03
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.275	65	263	27.732	ug/L	0.00
Spiked Amount	5.000	Range 40 - 130	Recovery	=	554.600%#	
7) Chloroethane-d5	1.529	69	50	6.279	ug/L	0.00
Spiked Amount	5.000	Range 65 - 130	Recovery	=	125.600%	
11) 1,1-Dichloroethene-d2	2.066	65	268	62.710	ug/L	0.01
Spiked Amount	5.000	Range 60 - 125	Recovery	=	1254.200%#	
20) 2-Butanone-d5	3.870	46	43	21.558	ug/L	0.03
Spiked Amount	50.000	Range 40 - 130	Recovery	=	43.120%	
24) Chloroform-d	4.252	84	67	3.769	ug/L	0.01
Spiked Amount	5.000	Range 70 - 125	Recovery	=	75.400%	
26) 1,2-Dichloroethane-d4	4.998	65	45	5.525	ug/L	0.06
Spiked Amount	5.000	Range 70 - 130	Recovery	=	110.400%	
32) Benzene-d6	5.002	84	219	1.425	ug/L	0.05
Spiked Amount	5.000	Range 70 - 125	Recovery	=	28.400%#	
36) 1,2-Dichloropropane-d6	6.008	67	71	1.520	ug/L	0.03
Spiked Amount	5.000	Range 60 - 140	Recovery	=	30.400%#	
41) Toluene-d8	7.284	98	40	0.290	ug/L	0.05
Spiked Amount	5.000	Range 70 - 130	Recovery	=	5.800%#	
43) trans-1,3-Dichloroprop...	7.493	79	20	1.170	ug/L	-0.05
Spiked Amount	5.000	Range 55 - 130	Recovery	=	23.400%#	
46) 2-Hexanone-d5	8.181	63	48	7.120	ug/L	0.16
Spiked Amount	50.000	Range 45 - 130	Recovery	=	14.240%#	
56) 1,1,2,2-Tetrachloroeth...	10.159	84	662	17.875	ug/L	0.02
Spiked Amount	5.000	Range 65 - 120	Recovery	=	357.600%#	
66) 1,2-Dichlorobenzene-d4	11.632	152	118	0.412	ug/L	0.08
Spiked Amount	5.000	Range 80 - 120	Recovery	=	8.200%#	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.101	85	20	1.553	ug/L #	42
3) Chloromethane	1.214	50	1548	117.446	ug/L	97
5) Vinyl chloride	1.272	62	70	5.257	ug/L #	1
6) Bromomethane	1.487	94	417	62.598	ug/L	89
8) Chloroethane	1.368	64	13422	1682.246	ug/L #	51
12) 1,1-Dichloroethene	2.018	96	47	4.929	ug/L #	51
13) Acetone	2.172	43	94	60.568	ug/L	51
14) Carbon disulfide	2.240	76	1064	33.212	ug/L #	80
15) Methyl Acetate	2.400	43	111	27.994	ug/L #	50
16) Methylene chloride	2.442	84	1095	103.604	ug/L	84
17) Methyl tert-butyl Ether	2.728	73	43	2.143	ug/L #	48
19) 1,1-Dichloroethane	3.085	63	63	3.377	ug/L #	21
21) 2-Butanone	3.902	43	19	8.630	ug/L #	51
22) cis-1,2-Dichloroethene	3.825	96	24	2.408	ug/L #	72
25) Chloroform	4.288	83	137	7.427	ug/L	80
27) 1,2-Dichloroethane	4.973	62	69	6.726	ug/L #	74
30) Cyclohexane	4.342	56	64	0.947	ug/L	98
33) Benzene	5.053	78	47	0.265	ug/L	100
37) 1,2-Dichloropropane	6.191	63	20	0.437	ug/L #	85

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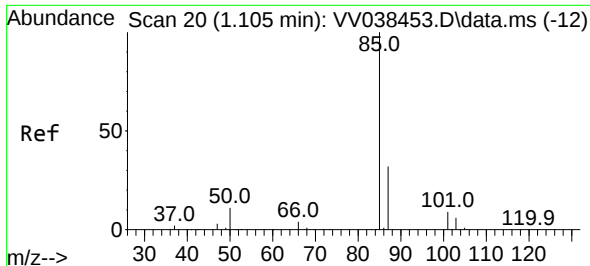
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

39) cis-1,3-Dichloropropene	7.030	75	20	0.317	ug/L #	44
40) 4-Methyl-2-pentanone	7.133	43	69	2.914	ug/L #	43
44) trans-1,3-Dichloropropene	7.519	75	23	0.430	ug/L #	42
49) Dibromochloromethane	8.362	129	21	0.554	ug/L #	12
52) Ethylbenzene	9.050	91	41	0.206	ug/L #	43
57) 1,1,2,2-Tetrachloroethane	10.014	83	219	5.464	ug/L #	3
60) Isopropylbenzene	10.008	105	190	0.167	ug/L #	1
61) 1,2,3-Trichloropropane	10.005	75	94326	579.551	ug/L #	39
62) 1,3,5-Trimethylbenzene	10.008	105	190	0.213	ug/L #	44
63) 1,2,4-Trimethylbenzene	10.008	105	190	0.213	ug/L #	48
71) Naphthalene	13.525	128	68	0.159	ug/L #	69

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

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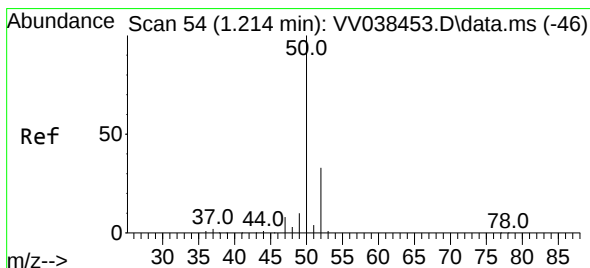
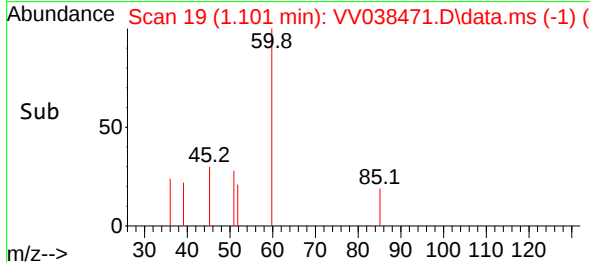
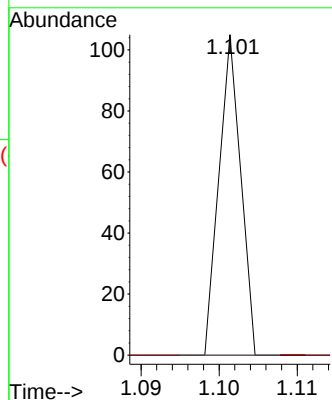
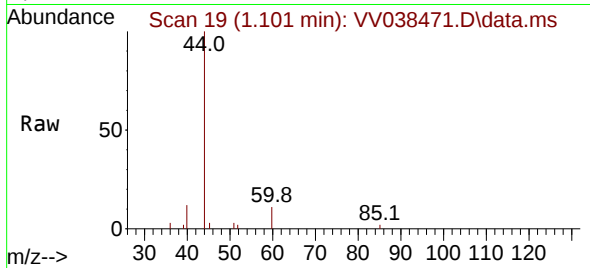




#2
 Dichlorodifluoromethane
 Concen: 1.553 ug/L
 RT: 1.101 min Scan# 19
 Delta R.T. -0.003 min
 Lab File: VV038471.D
 Acq: 20 Jan 2025 18:02

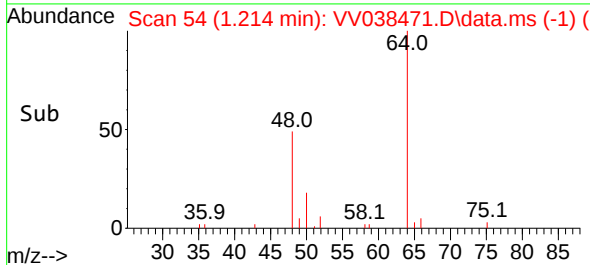
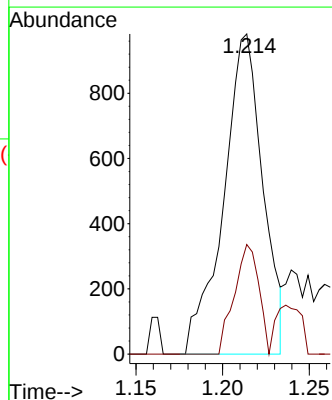
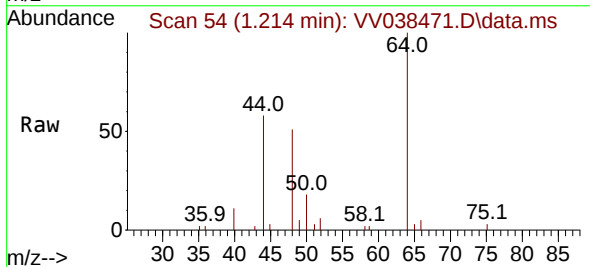
Instrument :
 MSVOA_V
 ClientSampleId :

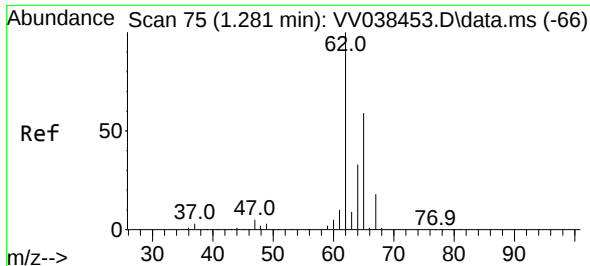
Tgt Ion: 85 Resp: 20
 Ion Ratio Lower Upper
 85 100
 87 0.0 26.0 39.0#



#3
 Chloromethane
 Concen: 117.446 ug/L
 RT: 1.214 min Scan# 54
 Delta R.T. 0.000 min
 Lab File: VV038471.D
 Acq: 20 Jan 2025 18:02

Tgt Ion: 50 Resp: 1548
 Ion Ratio Lower Upper
 50 100
 52 34.2 23.0 42.6



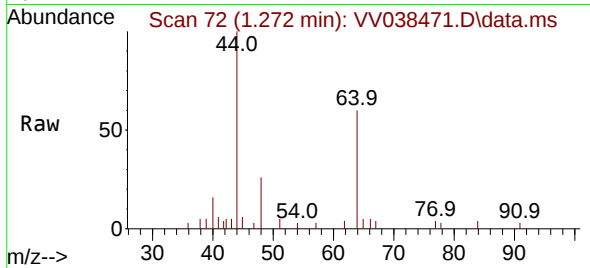


#5
 Vinyl chloride
 Concen: 5.257 ug/L
 RT: 1.272 min Scan# 70
 Delta R.T. -0.010 min
 Lab File: VV038471.D
 Acq: 20 Jan 2025 18:02

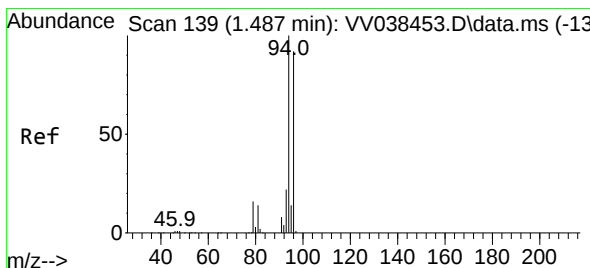
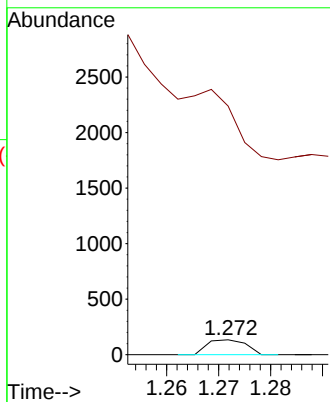
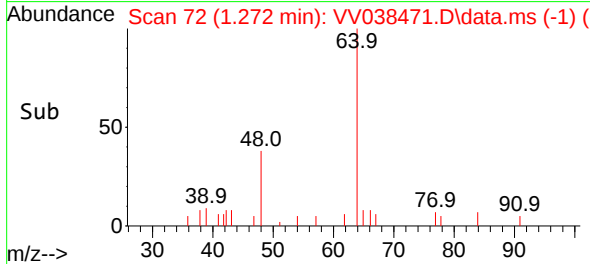
Instrument :

MSVOA_V

ClientSampleId :

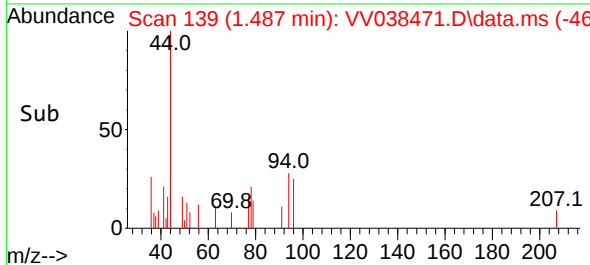
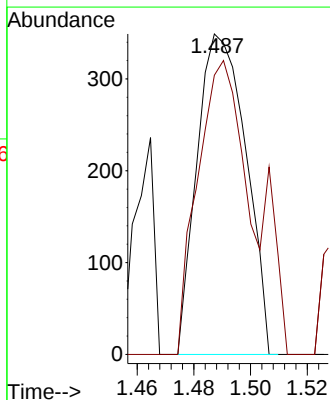
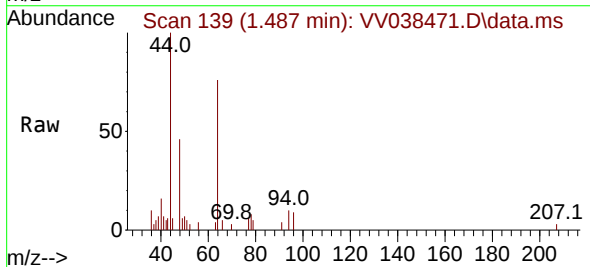


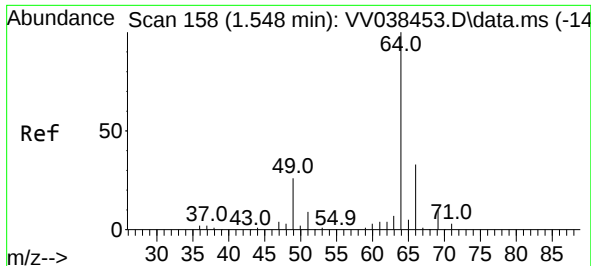
Tgt Ion: 62 Resp: 70
 Ion Ratio Lower Upper
 62 100
 64 1657.8 23.5 43.7#



#6
 Bromomethane
 Concen: 62.598 ug/L
 RT: 1.487 min Scan# 139
 Delta R.T. 0.000 min
 Lab File: VV038471.D
 Acq: 20 Jan 2025 18:02

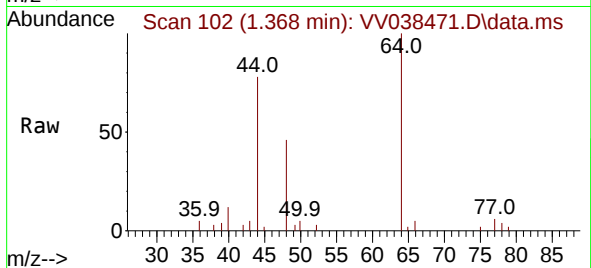
Tgt Ion: 94 Resp: 417
 Ion Ratio Lower Upper
 94 100
 96 87.1 68.9 127.9



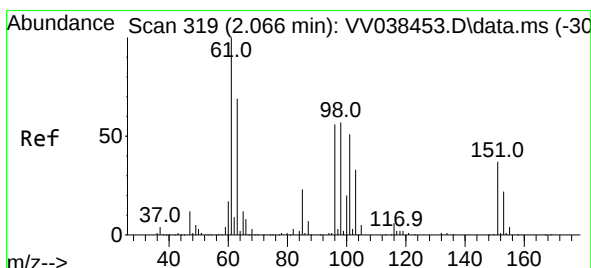
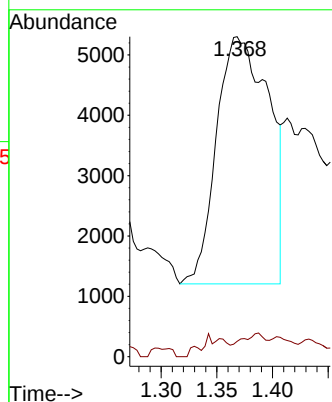
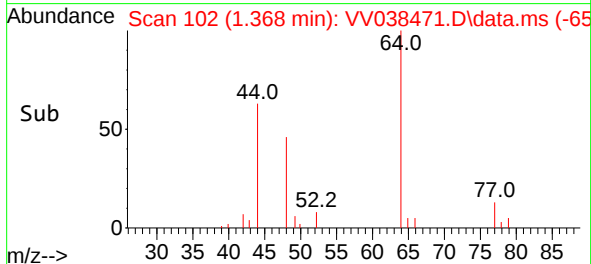


#8
Chloroethane
Concen: 1682.246 ug/L
RT: 1.368 min Scan# 102
Delta R.T. -0.180 min
Lab File: VV038471.D
Acq: 20 Jan 2025 18:02

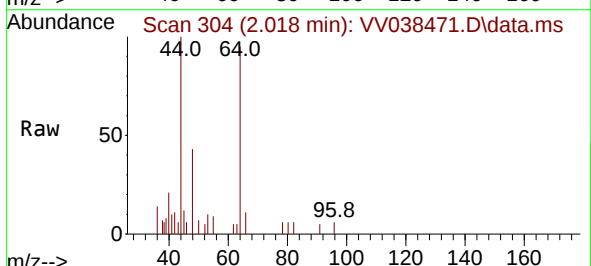
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MSVOA_V
ClientSampleId :



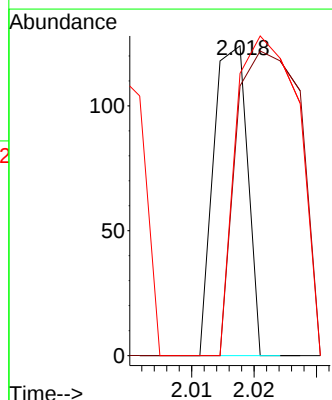
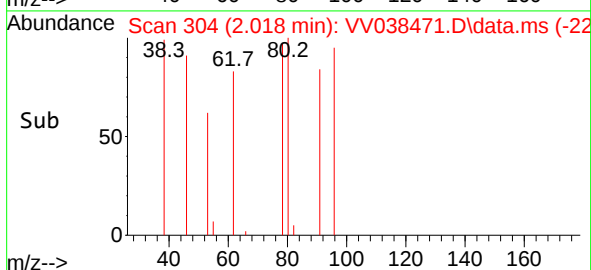
Tgt Ion: 64 Resp: 13422
Ion Ratio Lower Upper
64 100
66 4.8 22.7 42.1#

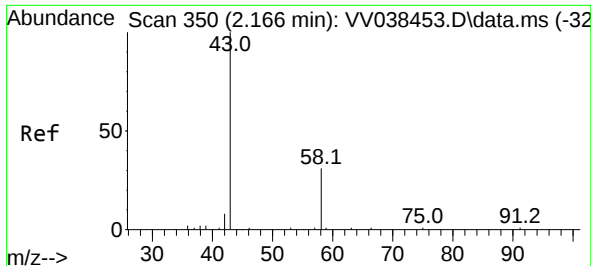


#12
1,1-Dichloroethene
Concen: 4.929 ug/L
RT: 2.018 min Scan# 304
Delta R.T. -0.048 min
Lab File: VV038471.D
Acq: 20 Jan 2025 18:02



Tgt Ion: 96 Resp: 47
Ion Ratio Lower Upper
96 100
61 87.1 122.2 227.0#
63 91.1 86.2 160.0





#13

Acetone

Concen: 60.568 ug/L

RT: 2.172 min Scan# 3

Delta R.T. 0.006 min

Lab File: VV038471.D

Acq: 20 Jan 2025 18:02

Instrument :

MSVOA_V

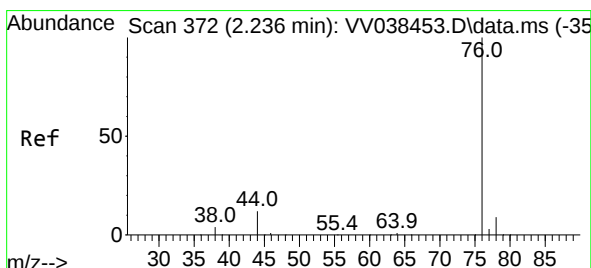
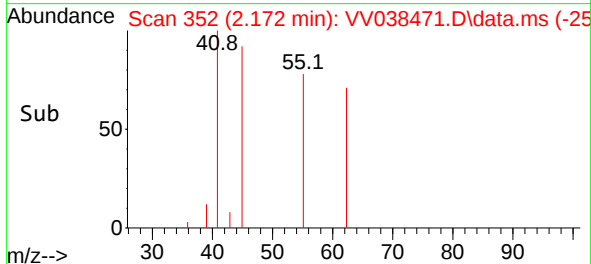
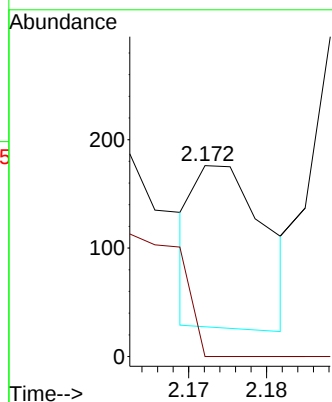
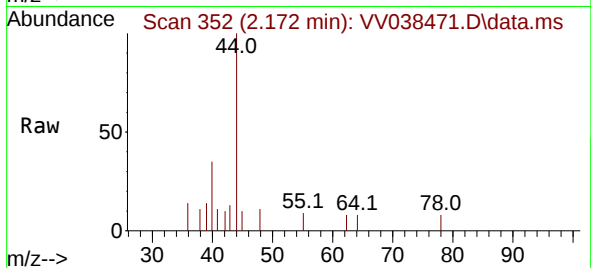
ClientSampleId :

Tgt Ion: 43 Resp: 94

Ion Ratio Lower Upper

43 100

58 61.7 0.0 67.2



#14

Carbon disulfide

Concen: 33.212 ug/L

RT: 2.240 min Scan# 373

Delta R.T. 0.003 min

Lab File: VV038471.D

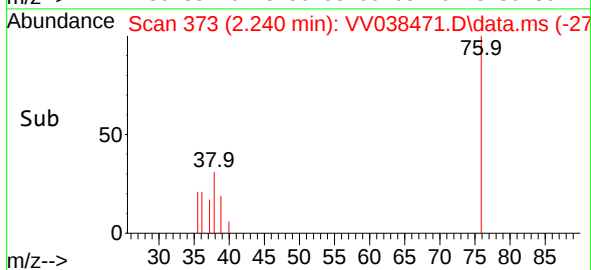
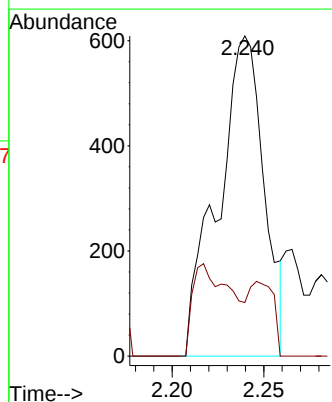
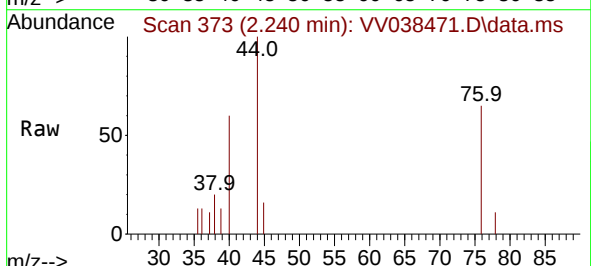
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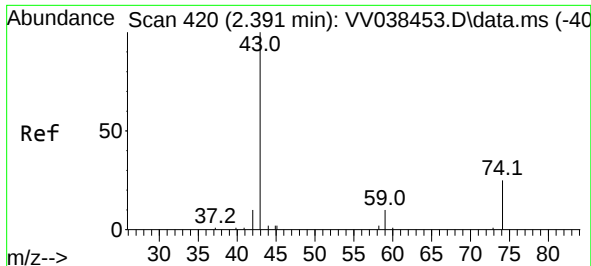
Tgt Ion: 76 Resp: 1064

Ion Ratio Lower Upper

76 100

78 16.7 7.6 11.4#

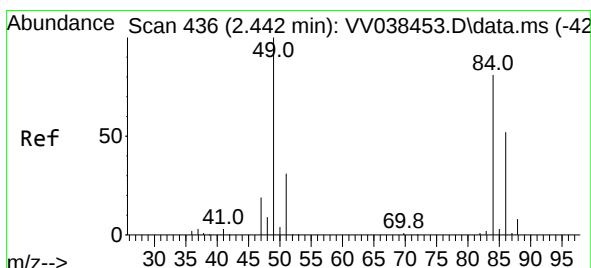
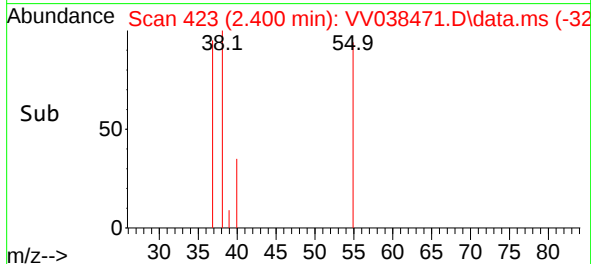
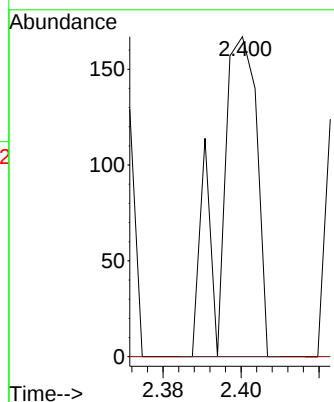
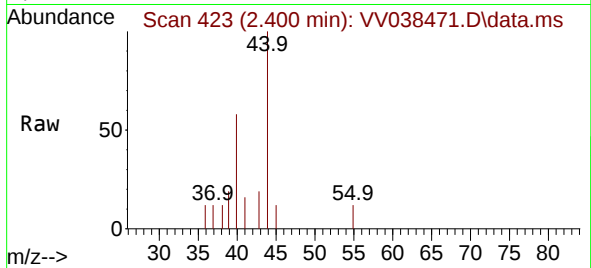




#15
Methyl Acetate
Concen: 27.994 ug/L
RT: 2.400 min Scan# 411
Delta R.T. 0.010 min
Lab File: VV038471.D
Acq: 20 Jan 2025 18:02

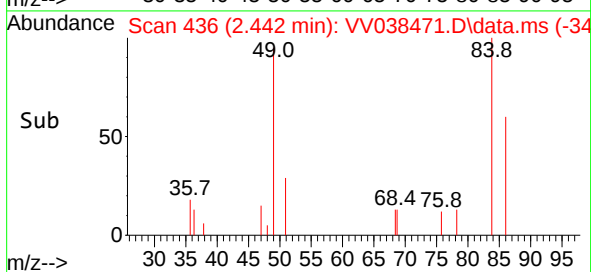
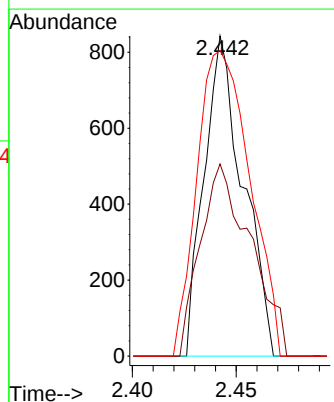
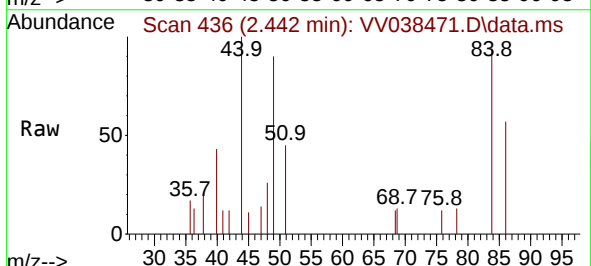
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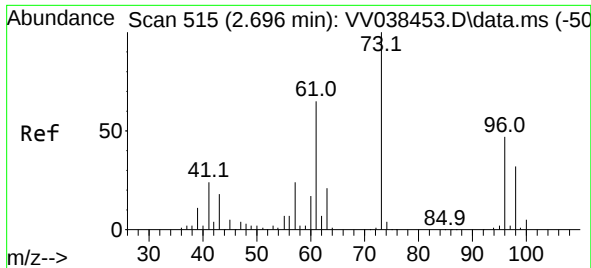
Tgt Ion: 43 Resp: 111
Ion Ratio Lower Upper
43 100
74 0.0 20.4 30.6#



#16
Methylene chloride
Concen: 103.604 ug/L
RT: 2.442 min Scan# 436
Delta R.T. 0.000 min
Lab File: VV038471.D
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Tgt Ion: 84 Resp: 1095
Ion Ratio Lower Upper
84 100
86 60.0 44.7 82.9
49 95.5 84.1 156.1





#17

Methyl tert-butyl Ether

Concen: 2.143 ug/L

RT: 2.728 min Scan# 51

Delta R.T. 0.032 min

Lab File: VV038471.D

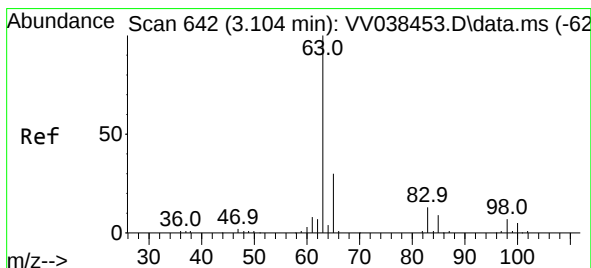
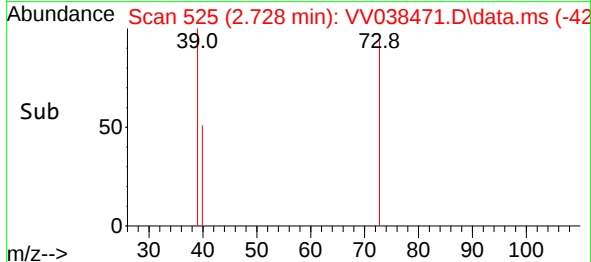
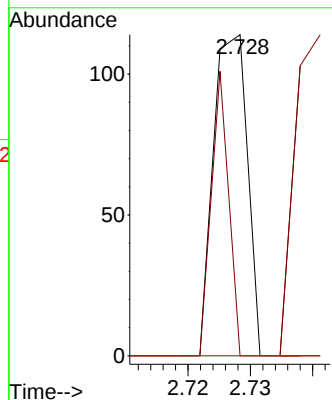
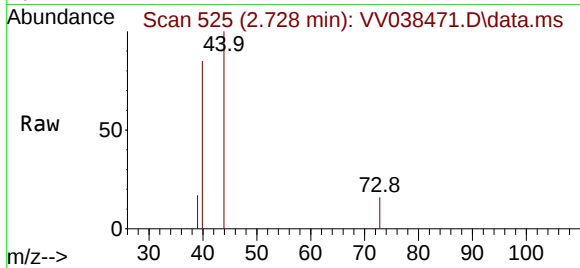
Acq: 20 Jan 2025 18:02

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 73	Resp:	43
Ion	Ratio	Lower Upper
73	100	
43	44.2	14.6 21.8#
57	0.0	17.9 26.9#



#19

1,1-Dichloroethane

Concen: 3.377 ug/L

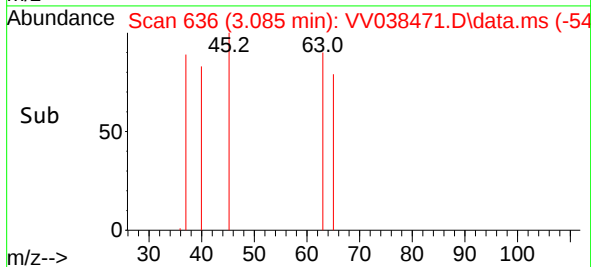
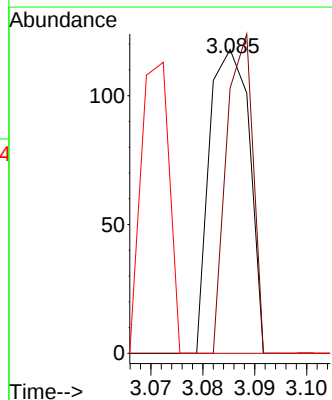
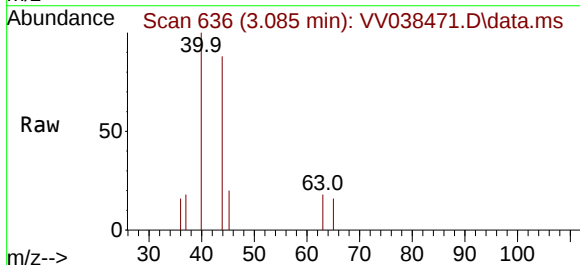
RT: 3.085 min Scan# 636

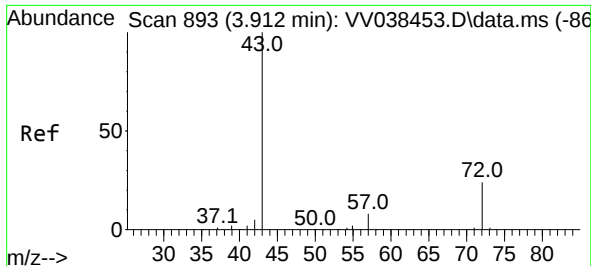
Delta R.T. -0.019 min

Lab File: VV038471.D

Acq: 20 Jan 2025 18:02

Tgt Ion: 63	Resp:	63
Ion	Ratio	Lower Upper
63	100	
65	87.3	22.5 41.9#
83	0.0	9.4 17.6#

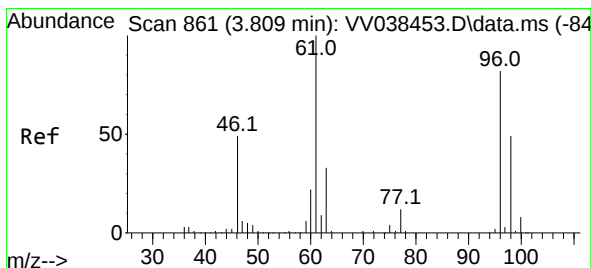
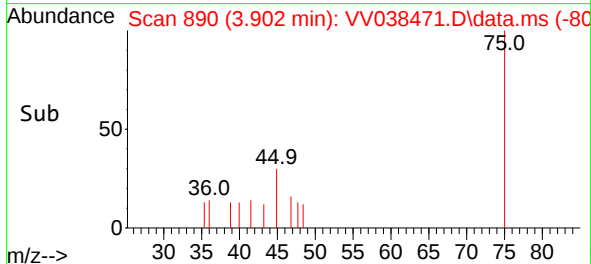
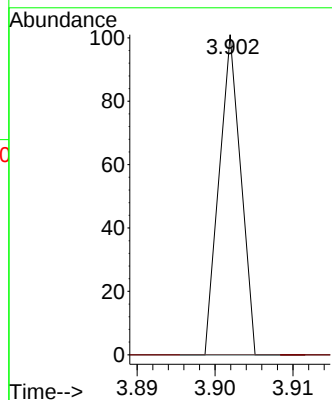
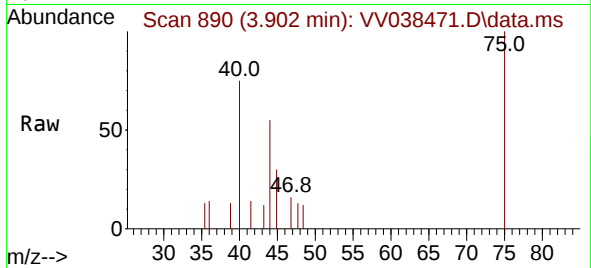




#21
2-Butanone
Concen: 8.630 ug/L
RT: 3.902 min Scan# 893
Delta R.T. -0.010 min
Lab File: VV038471.D
Acq: 20 Jan 2025 18:02

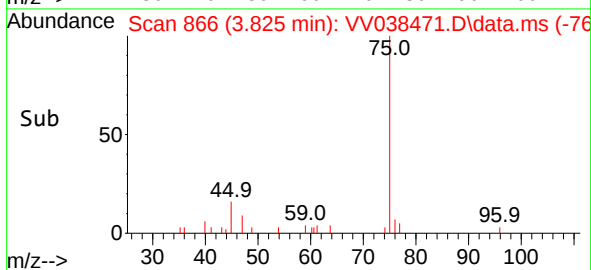
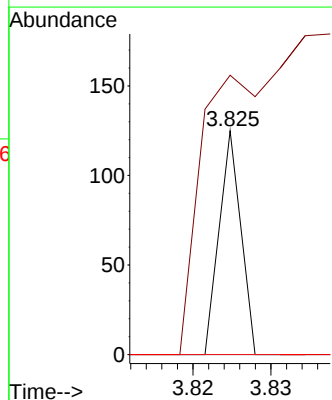
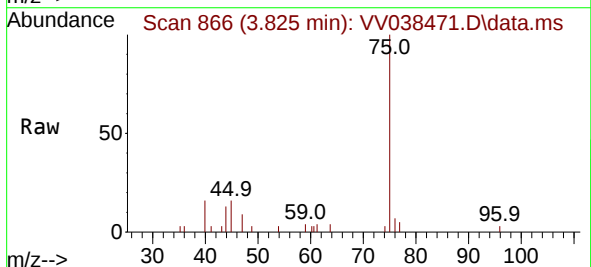
Instrument :
MSVOA_V
ClientSampleId :

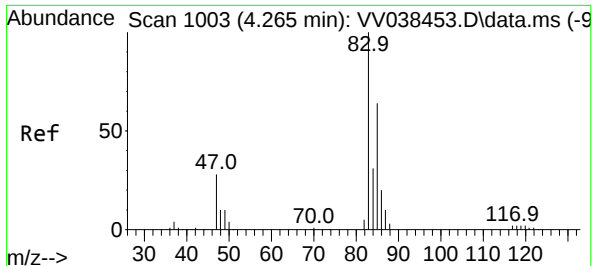
Tgt Ion: 43 Resp: 19
Ion Ratio Lower Upper
43 100
72 0.0 12.2 36.4#



#22
cis-1,2-Dichloroethene
Concen: 2.408 ug/L
RT: 3.825 min Scan# 866
Delta R.T. 0.016 min
Lab File: VV038471.D
Acq: 20 Jan 2025 18:02

Tgt Ion: 96 Resp: 24
Ion Ratio Lower Upper
96 100
61 124.8 86.5 160.7
98 0.0 43.8 81.3#





#25

Chloroform

Concen: 7.427 ug/L

RT: 4.288 min Scan# 11

Delta R.T. 0.023 min

Lab File: VV038471.D

Acq: 20 Jan 2025 18:02

Instrument :

MSVOA_V

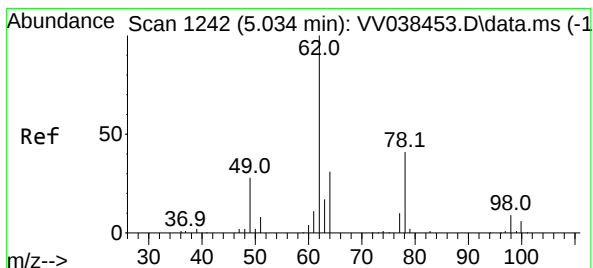
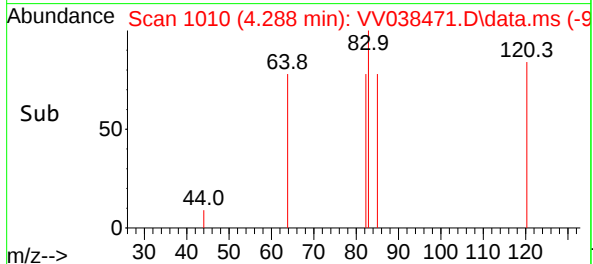
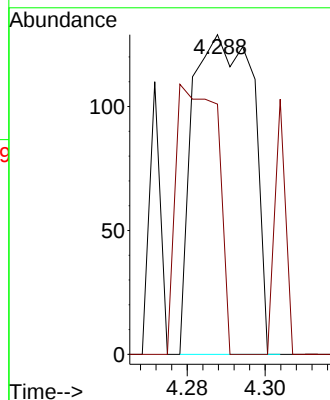
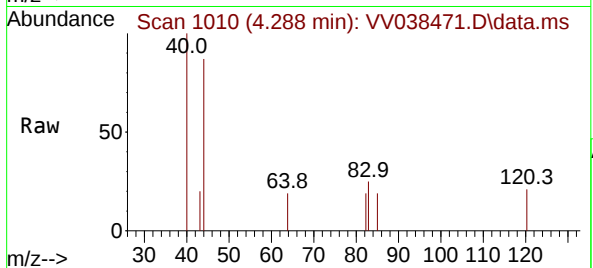
ClientSampleId :

Tgt Ion: 83 Resp: 137

Ion Ratio Lower Upper

83 100

85 78.3 44.0 81.8



#27

1,2-Dichloroethane

Concen: 6.726 ug/L

RT: 4.973 min Scan# 1223

Delta R.T. -0.061 min

Lab File: VV038471.D

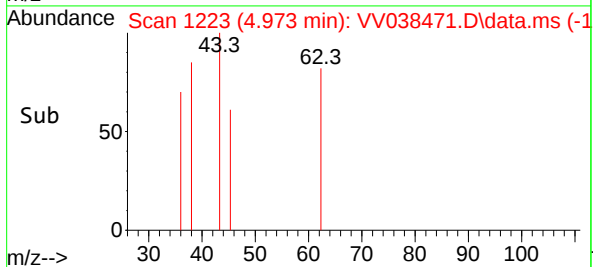
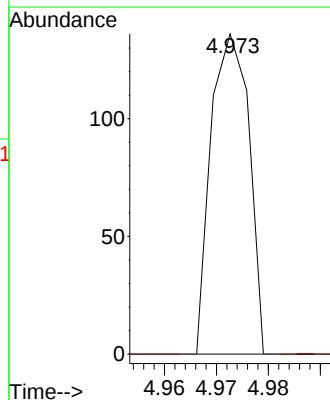
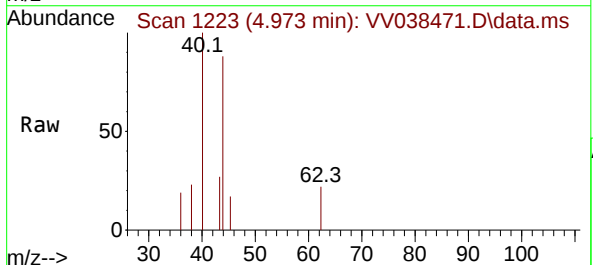
Acq: 20 Jan 2025 18:02

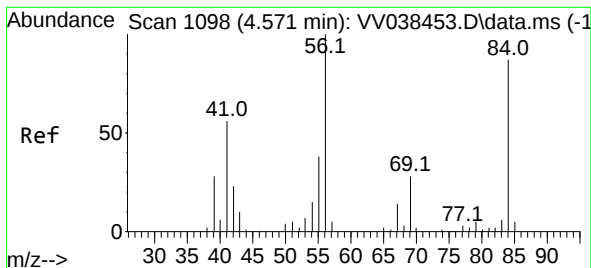
Tgt Ion: 62 Resp: 69

Ion Ratio Lower Upper

62 100

98 0.0 7.8 11.6#





#30

Cyclohexane

Concen: 0.947 ug/L

RT: 4.342 min Scan# 1027

Delta R.T. -0.228 min

Lab File: VV038471.D

Acq: 20 Jan 2025 18:02

Instrument :

MSVOA_V

ClientSampleId :

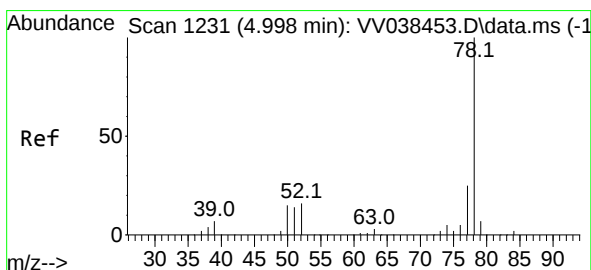
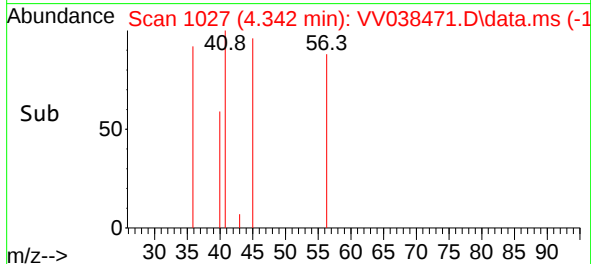
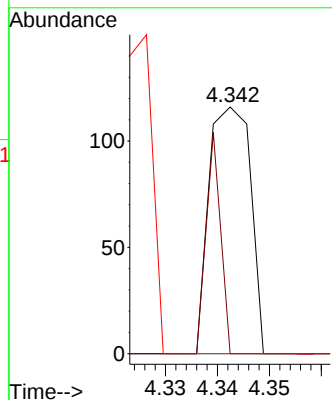
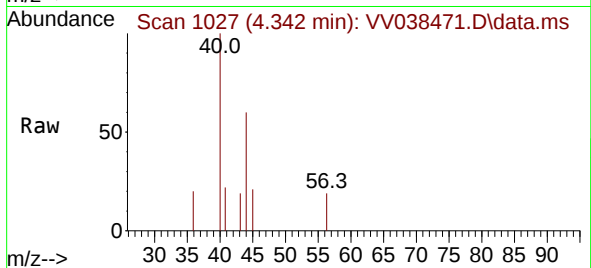
Tgt Ion: 56 Resp: 64

Ion Ratio Lower Upper

56 100

69 31.3 24.7 37.1

84 87.5 68.2 102.2



#33

Benzene

Concen: 0.265 ug/L

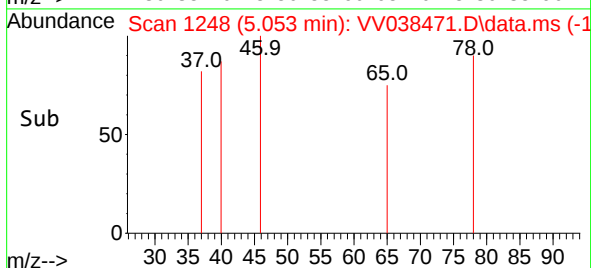
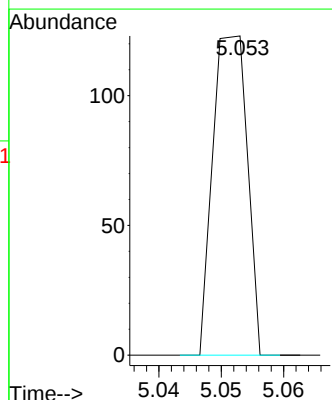
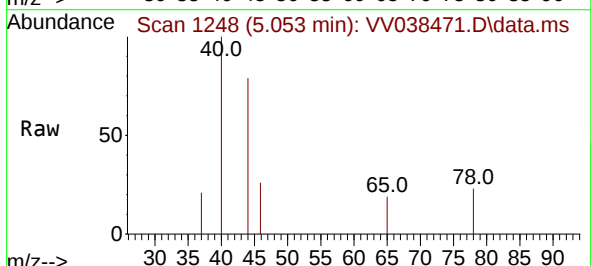
RT: 5.053 min Scan# 1248

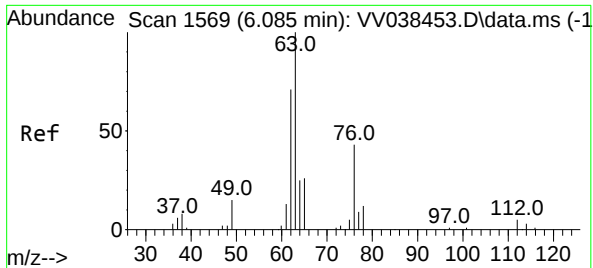
Delta R.T. 0.055 min

Lab File: VV038471.D

Acq: 20 Jan 2025 18:02

Tgt Ion: 78 Resp: 47

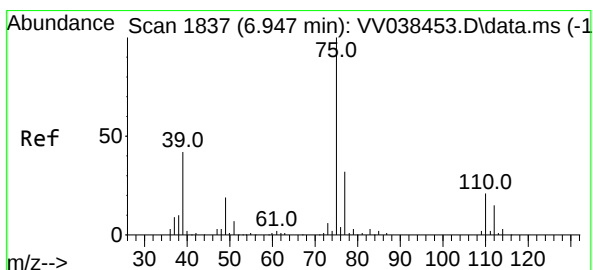
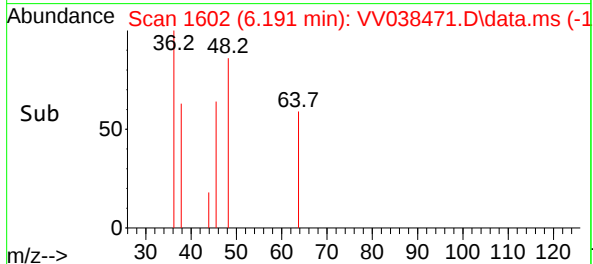
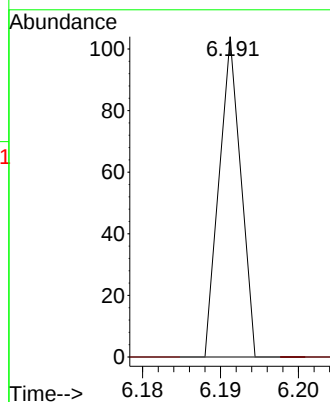
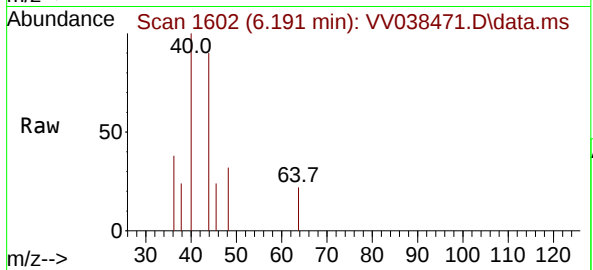




#37
1,2-Dichloropropane
Concen: 0.437 ug/L
RT: 6.191 min Scan# 11
Delta R.T. 0.106 min
Lab File: VV038471.D
Acq: 20 Jan 2025 18:02

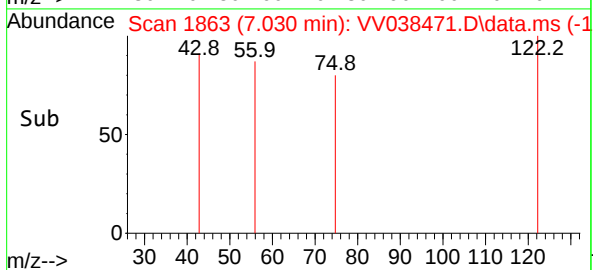
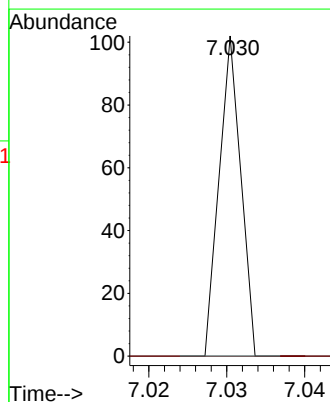
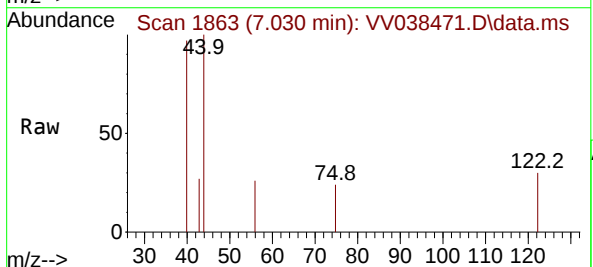
Instrument :
MSVOA_V
ClientSampleId :

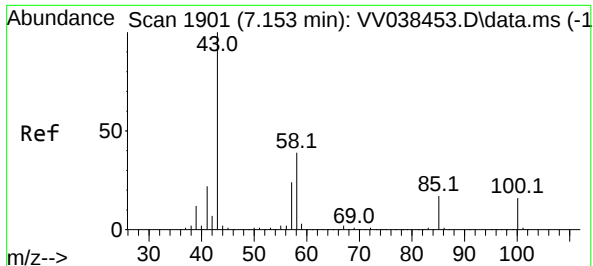
Tgt Ion: 63 Resp: 20
Ion Ratio Lower Upper
63 100
112 0.0 4.1 6.1#



#39
cis-1,3-Dichloropropene
Concen: 0.317 ug/L
RT: 7.030 min Scan# 1863
Delta R.T. 0.084 min
Lab File: VV038471.D
Acq: 20 Jan 2025 18:02

Tgt Ion: 75 Resp: 20
Ion Ratio Lower Upper
75 100
77 0.0 21.7 40.3#





#40

4-Methyl-2-pentanone

Concen: 2.914 ug/L

RT: 7.133 min Scan# 11

Delta R.T. -0.019 min

Lab File: VV038471.D

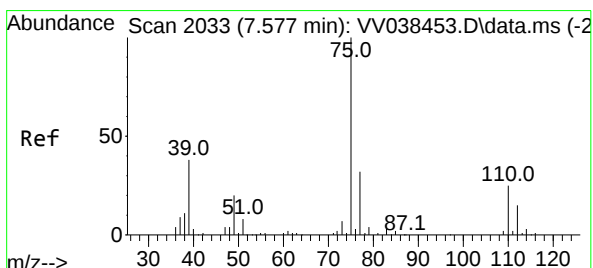
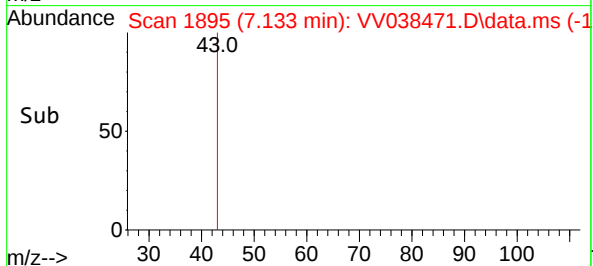
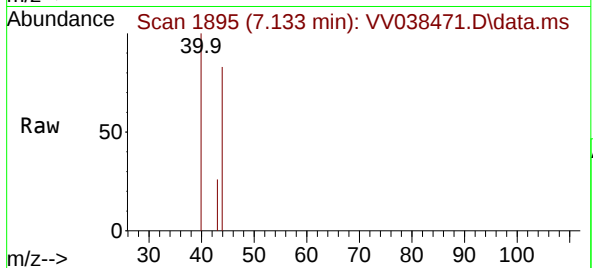
Acq: 20 Jan 2025 18:02

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 43	Resp: 69
Ion Ratio	Lower Upper
43	100
58	0.0 31.7 47.5#
100	0.0 12.4 18.6#



#44

trans-1,3-Dichloropropene

Concen: 0.430 ug/L

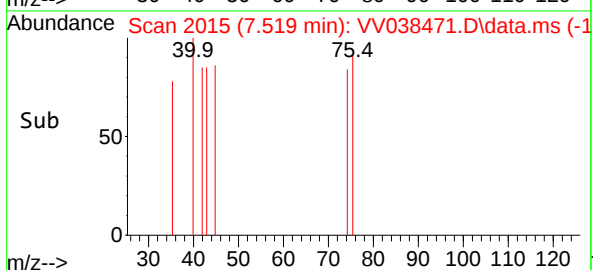
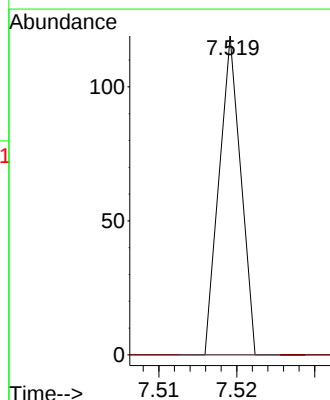
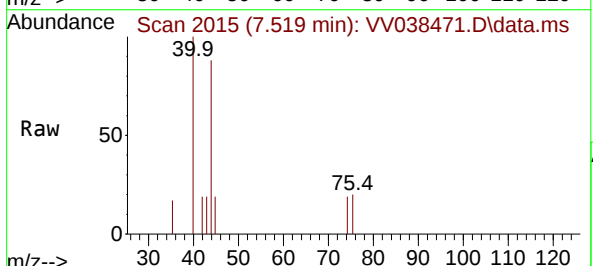
RT: 7.519 min Scan# 2015

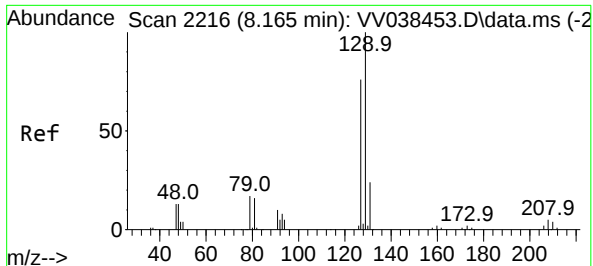
Delta R.T. -0.058 min

Lab File: VV038471.D

Acq: 20 Jan 2025 18:02

Tgt Ion: 75	Resp: 23
Ion Ratio	Lower Upper
75	100
77	0.0 22.8 42.4#





#49

Dibromochloromethane

Concen: 0.554 ug/L

RT: 8.362 min Scan# 21

Delta R.T. 0.196 min

Lab File: VV038471.D

Acq: 20 Jan 2025 18:02

Instrument :

MSVOA_V

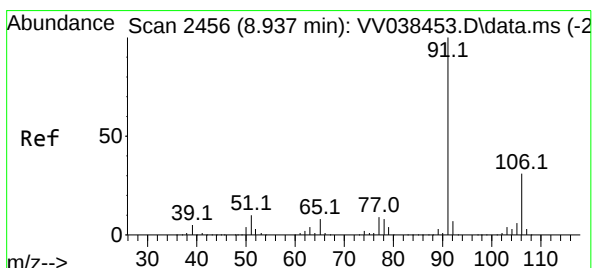
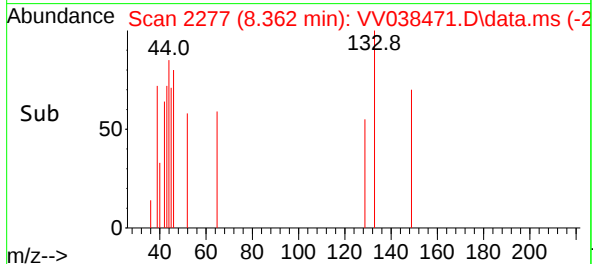
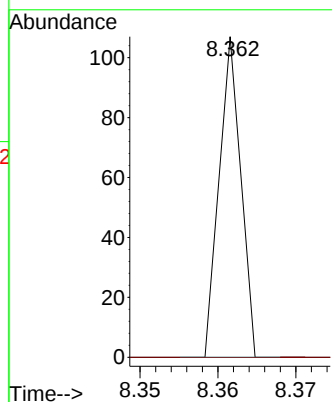
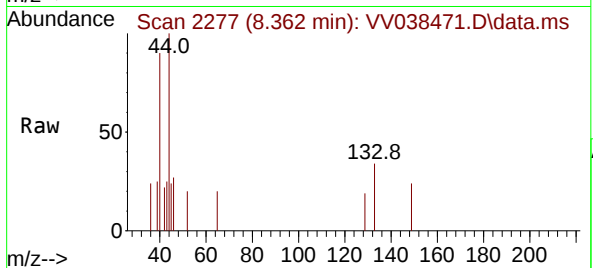
ClientSampleId :

Tgt Ion:129 Resp: 21

Ion Ratio Lower Upper

129 100

127 0.0 52.8 98.2#



#52

Ethylbenzene

Concen: 0.206 ug/L

RT: 9.050 min Scan# 2491

Delta R.T. 0.113 min

Lab File: VV038471.D

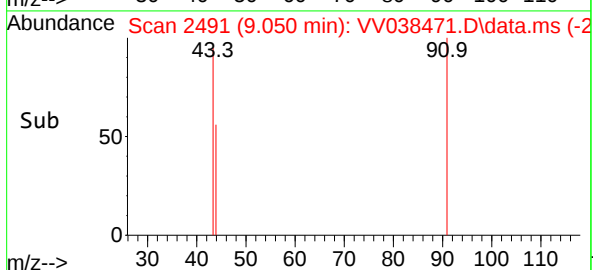
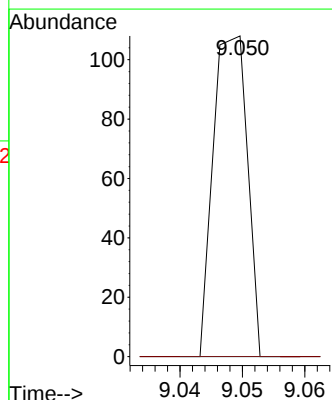
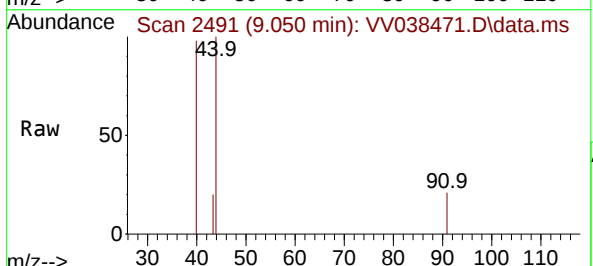
Acq: 20 Jan 2025 18:02

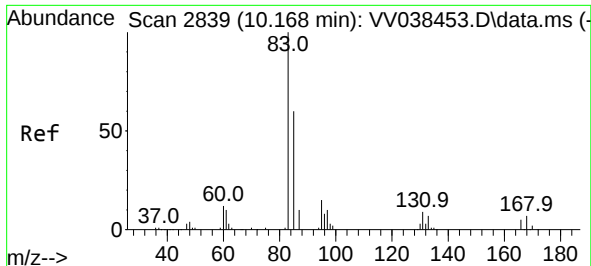
Tgt Ion: 91 Resp: 41

Ion Ratio Lower Upper

91 100

106 0.0 22.0 40.8#





#57

1,1,2,2-Tetrachloroethane

Concen: 5.464 ug/L

RT: 10.014 min Scan# 219

Delta R.T. -0.154 min

Lab File: VV038471.D

Acq: 20 Jan 2025 18:02

Instrument :

MSVOA_V

ClientSampleId :

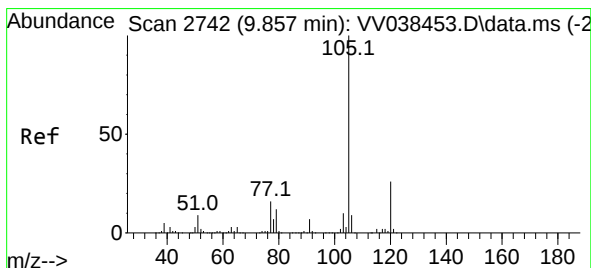
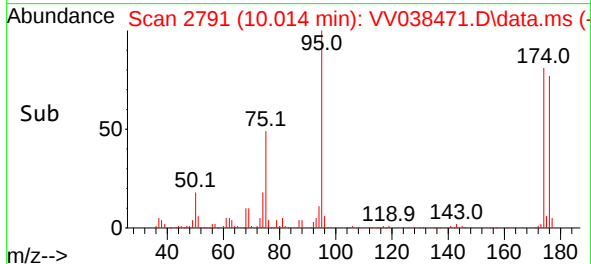
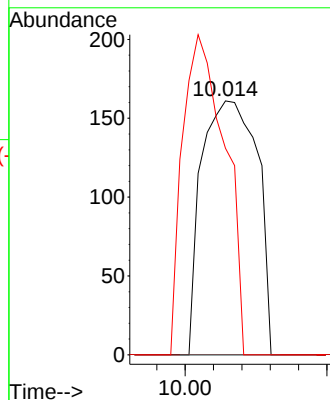
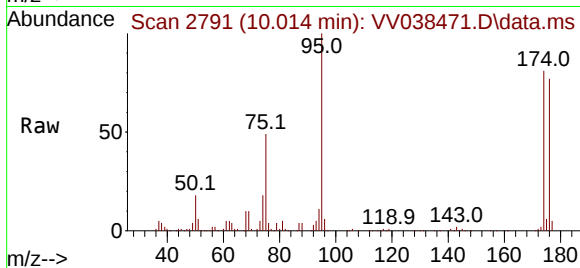
Tgt Ion: 83 Resp: 219

Ion Ratio Lower Upper

83 100

85 0.0 45.1 83.7#

131 81.4 7.5 11.3#



#60

Isopropylbenzene

Concen: 0.167 ug/L

RT: 10.008 min Scan# 2789

Delta R.T. 0.151 min

Lab File: VV038471.D

Acq: 20 Jan 2025 18:02

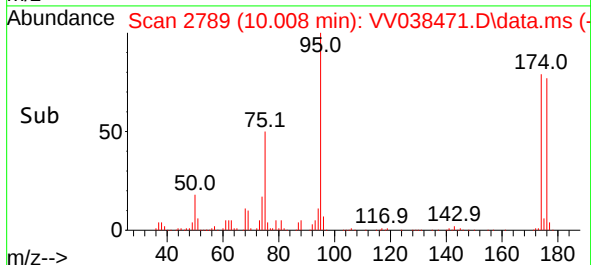
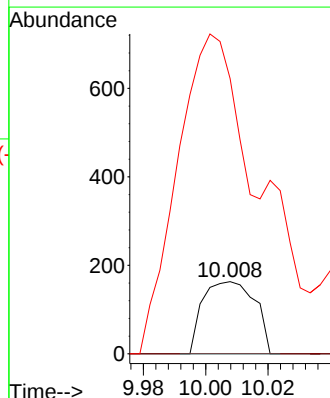
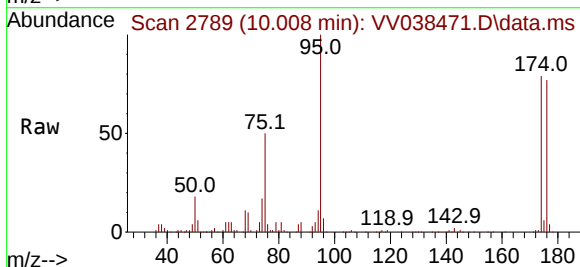
Tgt Ion:105 Resp: 190

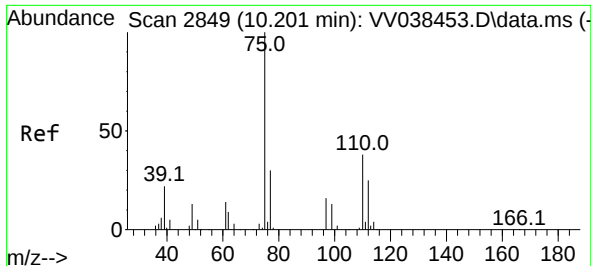
Ion Ratio Lower Upper

105 100

120 0.0 21.4 32.2#

77 700.5 12.7 19.1#

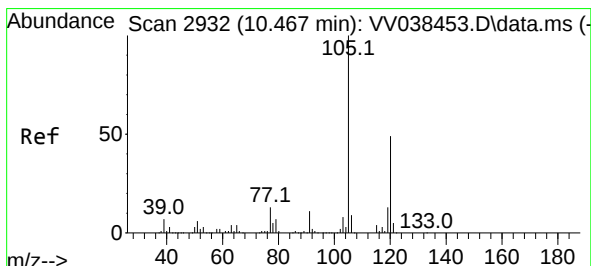
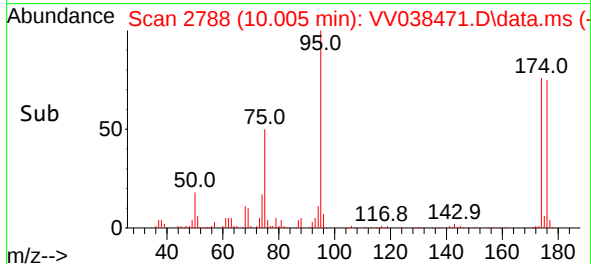
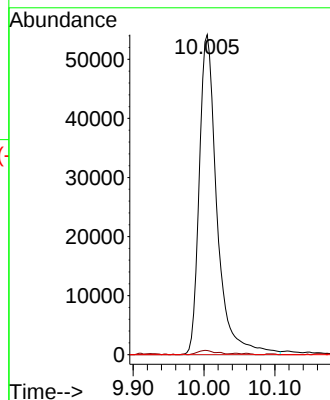
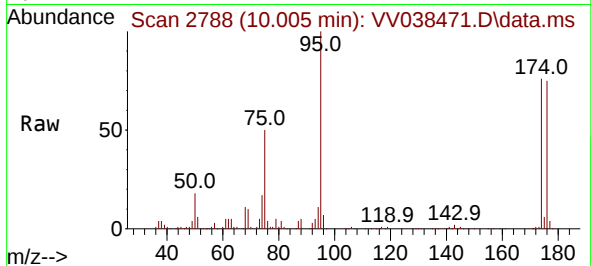




#61
1,2,3-Trichloropropane
Concen: 579.551 ug/L
RT: 10.005 min Scan# 21
Delta R.T. -0.196 min
Lab File: VV038471.D
Acq: 20 Jan 2025 18:02

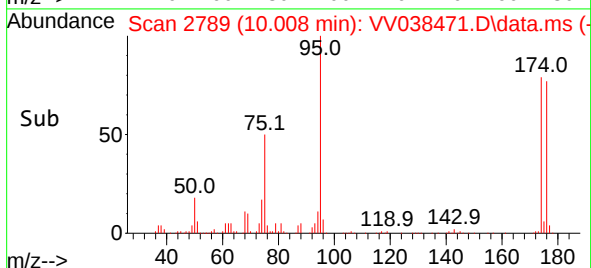
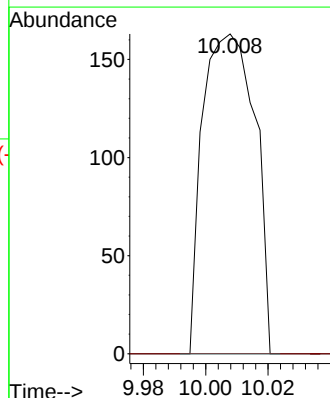
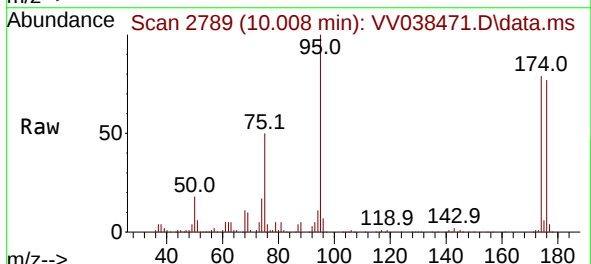
Instrument :
MSVOA_V
ClientSampleId :

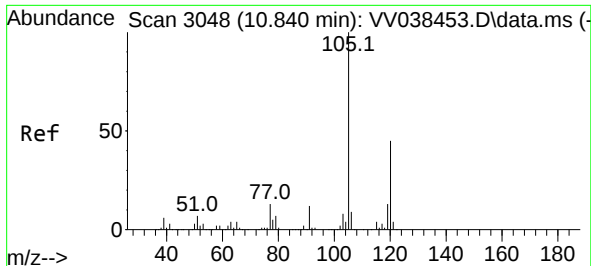
Tgt Ion: 75 Resp: 94326
Ion Ratio Lower Upper
75 100
77 1.4 25.4 38.0#
110 0.0 32.6 48.8#



#62
1,3,5-Trimethylbenzene
Concen: 0.213 ug/L
RT: 10.008 min Scan# 2789
Delta R.T. -0.460 min
Lab File: VV038471.D
Acq: 20 Jan 2025 18:02

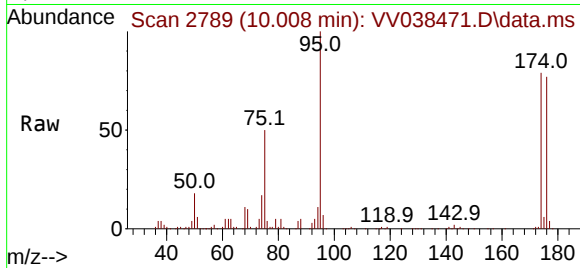
Tgt Ion: 105 Resp: 190
Ion Ratio Lower Upper
105 100
120 11.1 39.4 59.0#



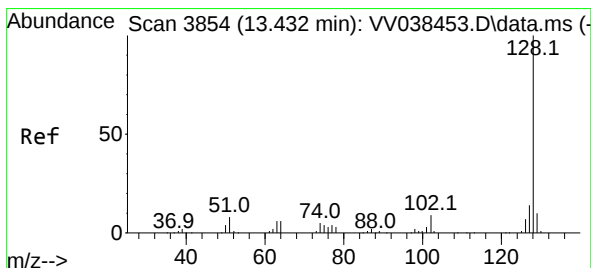
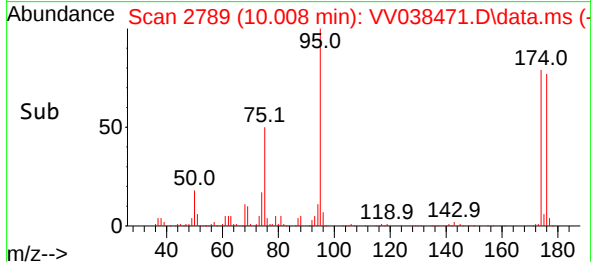
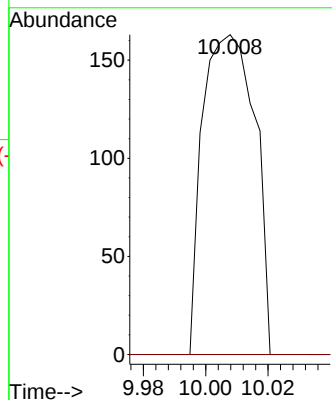


#63
1,2,4-Trimethylbenzene
Concen: 0.213 ug/L
RT: 10.008 min Scan# 21
Delta R.T. -0.833 min
Lab File: VV038471.D
Acq: 20 Jan 2025 18:02

Instrument :
MSVOA_V
ClientSampleId :



Tgt Ion:105 Resp: 190
Ion Ratio Lower Upper
105 100
120 11.1 35.8 53.8#



#71
Naphthalene
Concen: 0.159 ug/L
RT: 13.525 min Scan# 3883
Delta R.T. 0.093 min
Lab File: VV038471.D
Acq: 20 Jan 2025 18:02

Tgt Ion:128 Resp: 68
Ion Ratio Lower Upper
128 100
129 0.0 8.3 12.5#
127 0.0 11.0 16.6#

