

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VW012425\
 Data File : VW038537.D
 Acq On : 24 Jan 2025 16:55
 Operator : SY/MD
 Sample : Q1086-21DL 2X
 Misc : 25mL/MSVOA_V/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Jan 24 20:55:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR011725WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Jan 24 20:51:39 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.526	114	208895	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.776	117	214119	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.178	152	99504	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.278	65	67077	3.894	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	77.800%
7) Chloroethane-d5	1.532	69	59746	4.130	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	82.600%
11) 1,1-Dichloroethene-d2	2.056	65	31139	4.011	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	80.200%
20) 2-Butanone-d5	3.806	46	134413	37.098	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	74.200%
24) Chloroform-d	4.236	84	137743	4.266	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	85.400%
26) 1,2-Dichloroethane-d4	4.934	65	64193	4.339	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	86.800%
32) Benzene-d6	4.950	84	251344	4.262	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	85.200%
36) 1,2-Dichloropropane-d6	5.979	67	84622	4.721	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	94.400%
41) Toluene-d8	7.236	98	201112	3.797	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	76.000%
43) trans-1,3-Dichloroprop...	7.558	79	28165	4.295	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	86.000%
46) 2-Hexanone-d5	8.024	63	87207	33.711	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	67.420%
56) 1,1,2,2-Tetrachloroeth...	10.146	84	60892	4.285	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	85.600%
66) 1,2-Dichlorobenzene-d4	11.551	152	80810	4.798	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	96.000%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.282	62	317616	13.130	ug/L	97
8) Chloroethane	1.282	64	101245	6.986	ug/L #	45
12) 1,1-Dichloroethene	2.066	96	97212	5.612	ug/L	85
16) Methylene chloride	2.442	84	45084	2.348	ug/L	100
18) trans-1,2-Dichloroethene	2.690	96	75219	4.224	ug/L	100
22) cis-1,2-Dichloroethene	3.809	96	31120	1.719	ug/L	97
27) 1,2-Dichloroethane	5.031	62	148591	7.974	ug/L	100
29) 1,1,1-Trichloroethane	4.500	97	240100	8.434	ug/L	98
31) Carbon tetrachloride	4.725	117	111748	4.441	ug/L	100
33) Benzene	5.002	78	217160	3.194	ug/L	100
34) Trichloroethene	5.825	95	87780	4.968	ug/L	95
35) Methylcyclohexane	5.982	83	19288	0.716	ug/L #	20
37) 1,2-Dichloropropane	6.085	63	81145	4.621	ug/L	98
42) Toluene	7.304	91	651707	9.197	ug/L	99
45) 1,1,2-Trichloroethane	7.764	97	35119	2.781	ug/L	91
47) Tetrachloroethene	7.895	164	70916	5.185	ug/L	96
49) Dibromochloromethane	7.895	129	66950	4.605	ug/L #	12
51) Chlorobenzene	8.805	112	232892	4.884	ug/L	99
52) Ethylbenzene	8.937	91	580083	7.610	ug/L	99

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

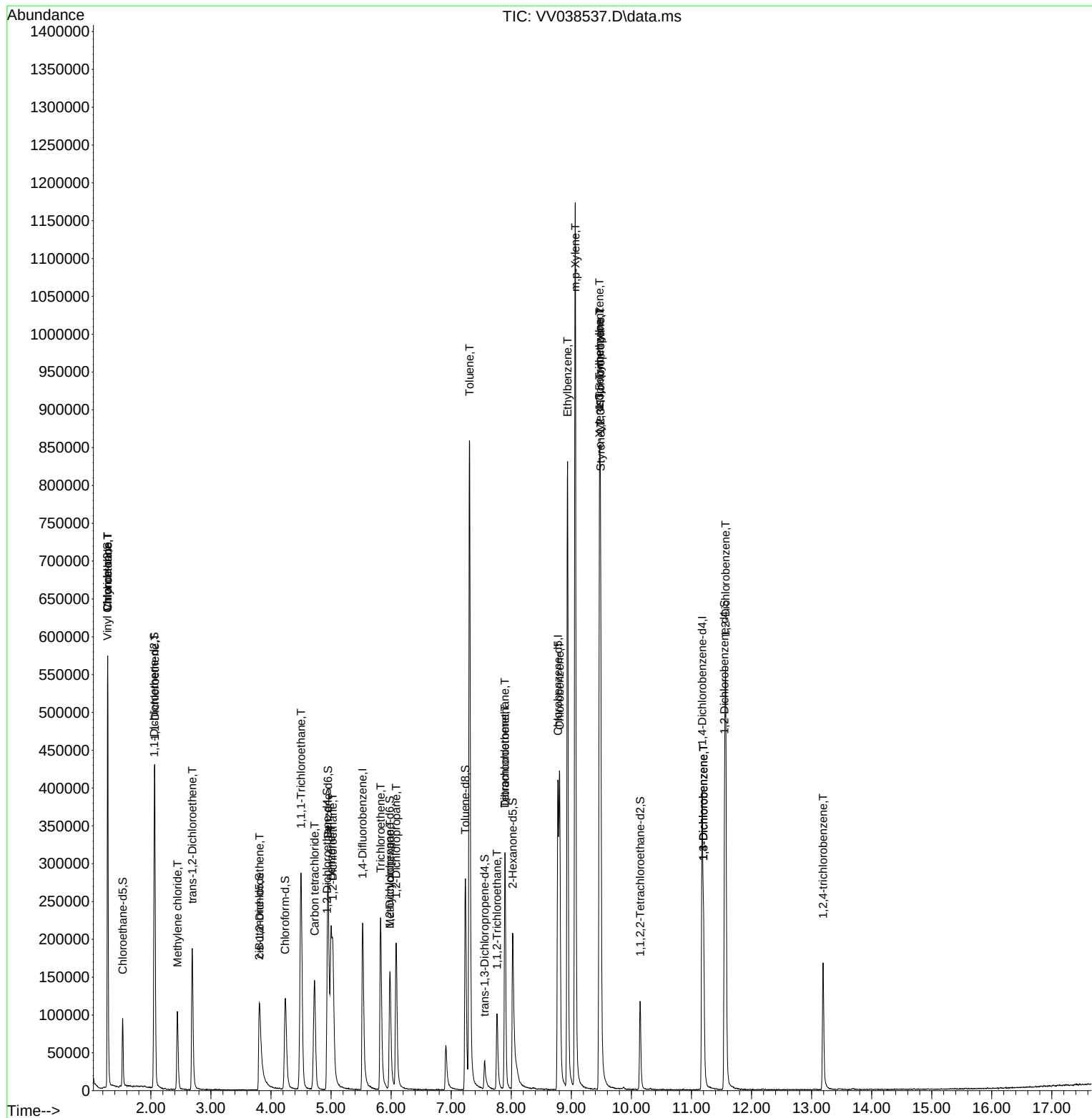
53) m,p-Xylene	9.066	106	331073	11.458	ug/L	94
54) o-Xylene	9.468	106	185137	6.724	ug/L	98
55) Styrene	9.487	104	327557	6.823	ug/L	100
60) Isopropylbenzene	9.471	105	106165	1.586	ug/L #	1
61) 1,2,3-Trichloropropane	9.484	75	17688	1.850	ug/L #	1
62) 1,3,5-Trimethylbenzene	9.471	105	106165	2.025	ug/L #	28
64) 1,3-Dichlorobenzene	11.201	146	85823	2.584	ug/L	99
65) 1,4-Dichlorobenzene	11.201	146	85823	2.499	ug/L	99
67) 1,2-Dichlorobenzene	11.571	146	200716	6.453	ug/L	97
70) 1,2,4-trichlorobenzene	13.191	180	53560	3.155	ug/L	97

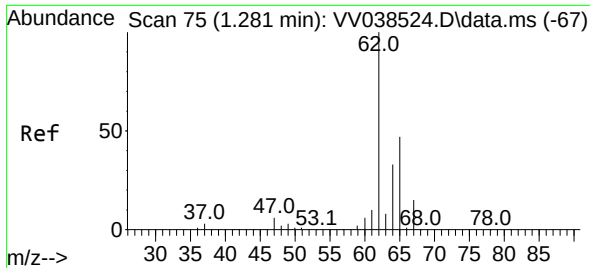
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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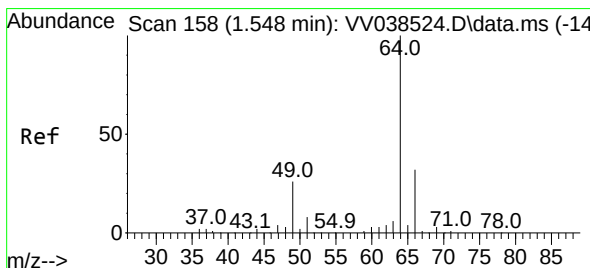
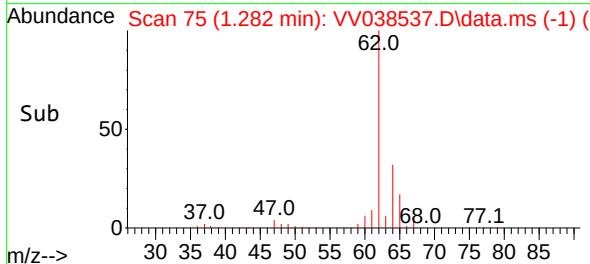
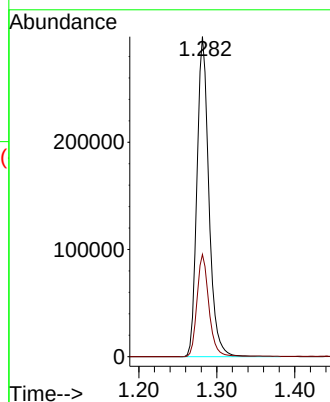
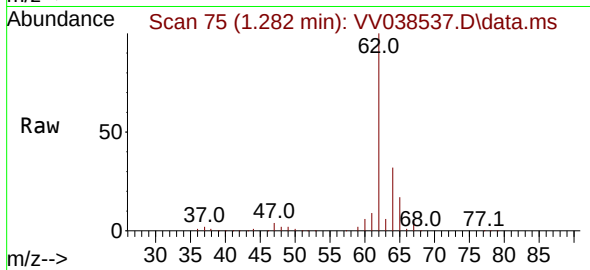
#5
 Vinyl chloride
 Concen: 13.130 ug/L
 RT: 1.282 min Scan# 75
 Delta R.T. 0.000 min
 Lab File: VV038537.D
 Acq: 24 Jan 2025 16:55

Instrument :

MSVOA_V

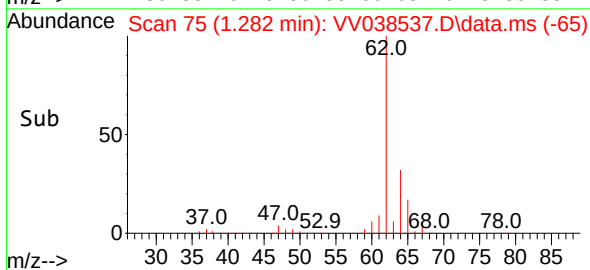
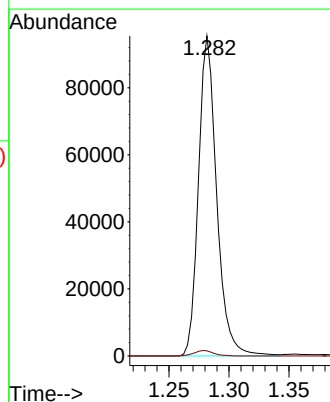
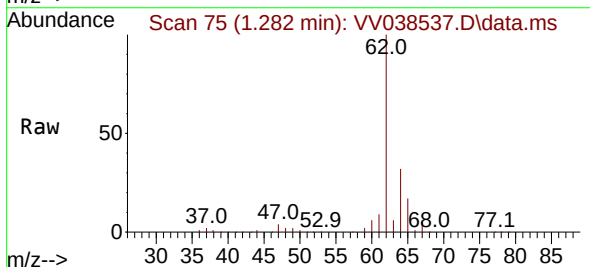
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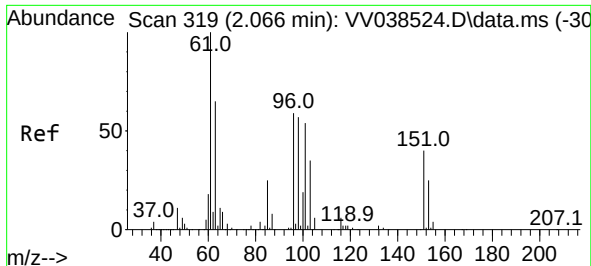
Tgt Ion: 62 Resp: 317616
 Ion Ratio Lower Upper
 62 100
 64 32.0 23.5 43.7



#8
 Chloroethane
 Concen: 6.986 ug/L
 RT: 1.282 min Scan# 75
 Delta R.T. -0.267 min
 Lab File: VV038537.D
 Acq: 24 Jan 2025 16:55

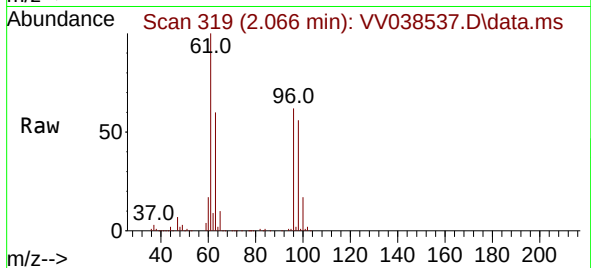
Tgt Ion: 64 Resp: 101245
 Ion Ratio Lower Upper
 64 100
 66 1.6 22.7 42.1#





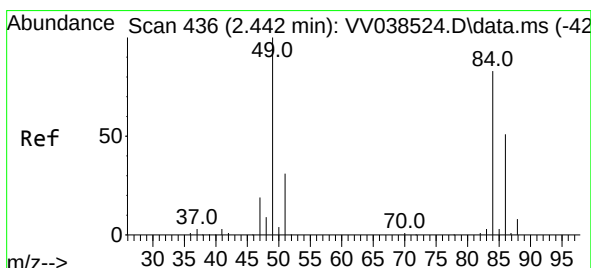
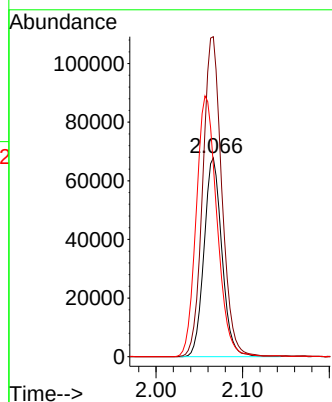
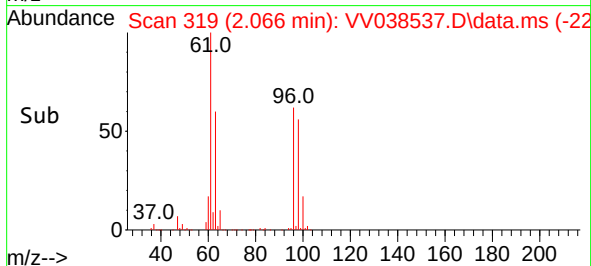
#12
1,1-Dichloroethene
Concen: 5.612 ug/L
RT: 2.066 min Scan# 319
Delta R.T. 0.000 min
Lab File: VV038537.D
Acq: 24 Jan 2025 16:55

Instrument :
MSVOA_V
ClientSampleId :

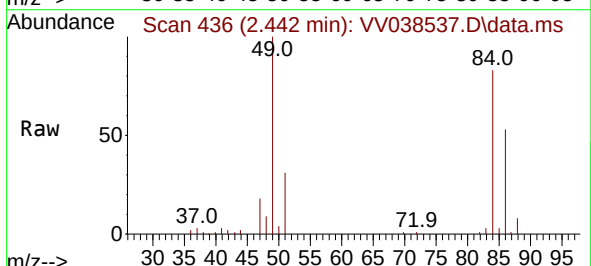


Tgt Ion: 96 Resp: 97212

Ion	Ratio	Lower	Upper
96	100		
61	161.1	122.2	227.0
63	96.5	86.2	160.0

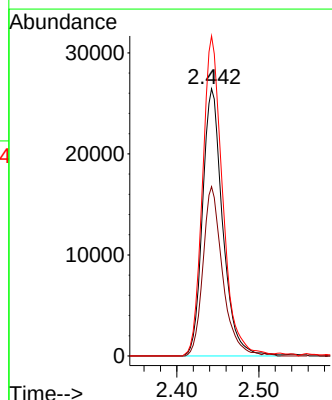
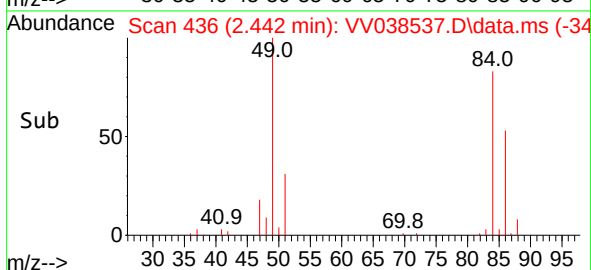


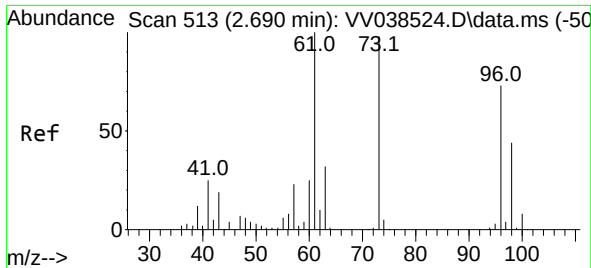
#16
Methylene chloride
Concen: 2.348 ug/L
RT: 2.442 min Scan# 436
Delta R.T. 0.000 min
Lab File: VV038537.D
Acq: 24 Jan 2025 16:55



Tgt Ion: 84 Resp: 45084

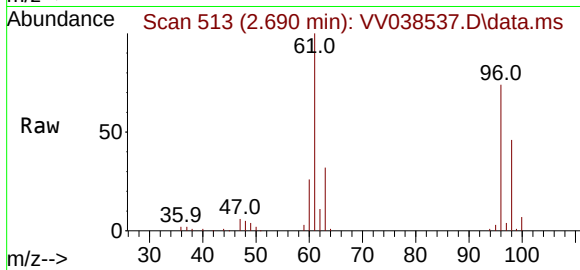
Ion	Ratio	Lower	Upper
84	100		
86	63.4	44.7	82.9
49	119.8	84.1	156.1





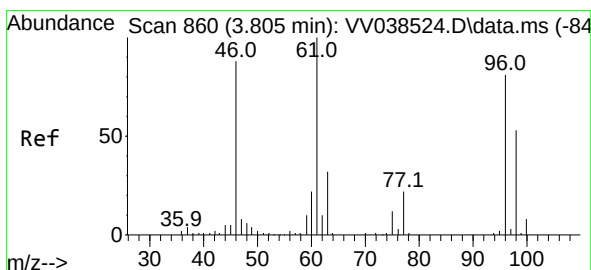
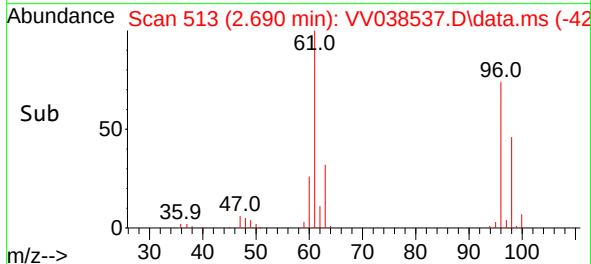
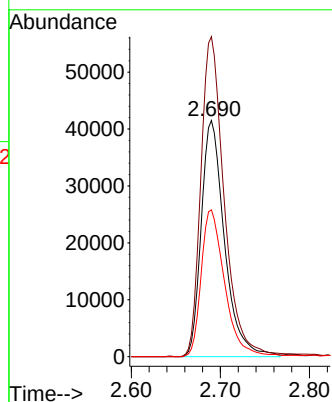
#18
trans-1,2-Dichloroethene
Concen: 4.224 ug/L
RT: 2.690 min Scan# 513
Delta R.T. 0.000 min
Lab File: VV038537.D
Acq: 24 Jan 2025 16:55

Instrument :
MSVOA_V
ClientSampleId :



Tgt Ion: 96 Resp: 75219

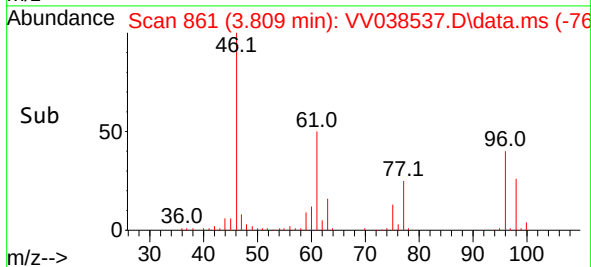
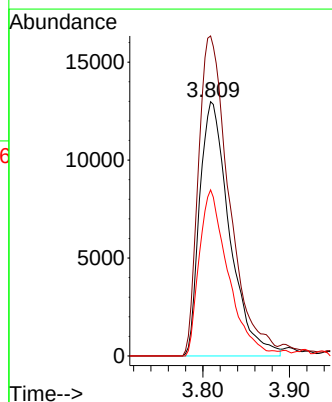
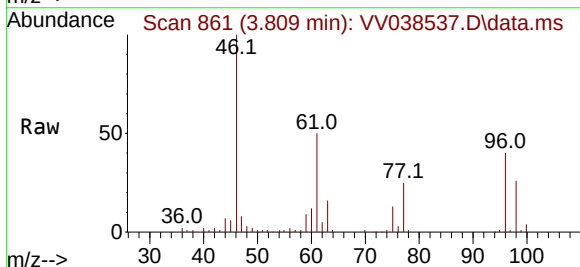
Ion	Ratio	Lower	Upper
96	100		
61	135.5	94.8	176.2
98	62.2	44.2	82.2

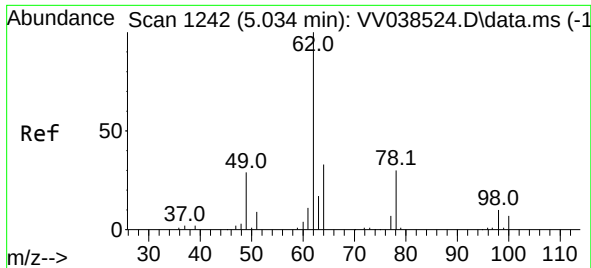


#22
cis-1,2-Dichloroethene
Concen: 1.719 ug/L
RT: 3.809 min Scan# 861
Delta R.T. 0.003 min
Lab File: VV038537.D
Acq: 24 Jan 2025 16:55

Tgt Ion: 96 Resp: 31120

Ion	Ratio	Lower	Upper
96	100		
61	125.9	86.5	160.7
98	65.3	43.8	81.3

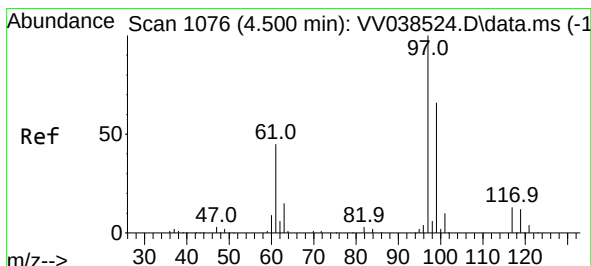
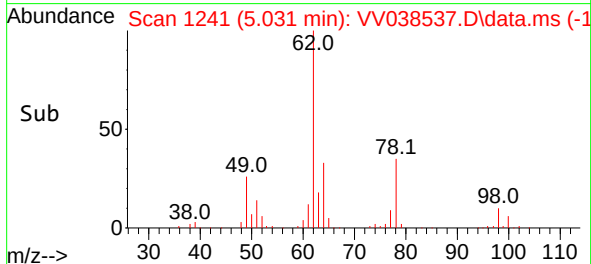
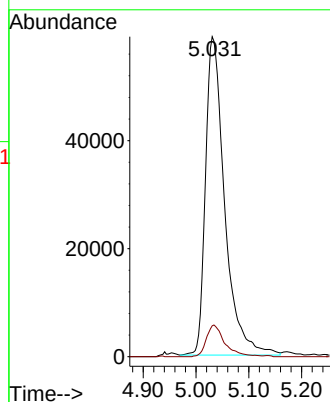
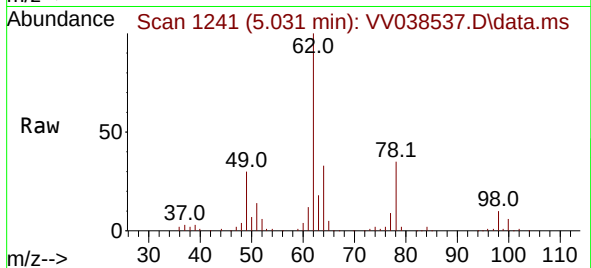




#27
1,2-Dichloroethane
Concen: 7.974 ug/L
RT: 5.031 min Scan# 11
Delta R.T. -0.003 min
Lab File: VV038537.D
Acq: 24 Jan 2025 16:55

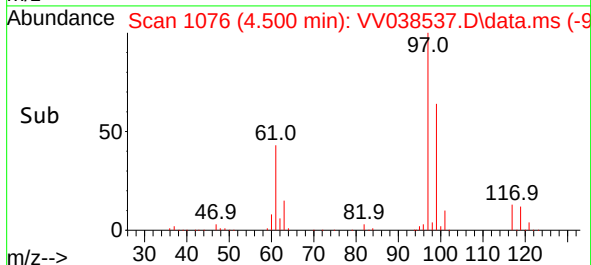
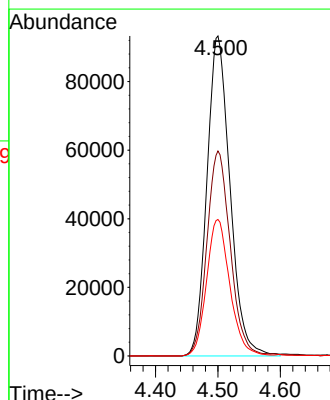
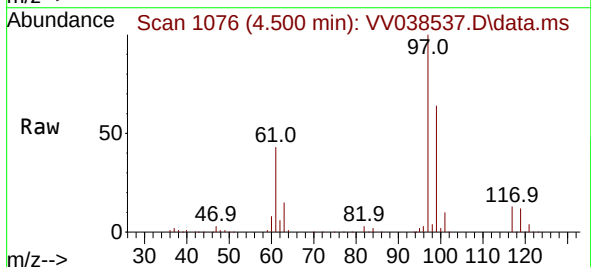
Instrument :
MSVOA_V
ClientSampleId :

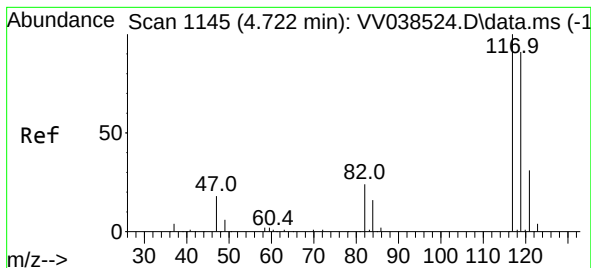
Tgt Ion: 62 Resp: 148591
Ion Ratio Lower Upper
62 100
98 9.6 7.8 11.6



#29
1,1,1-Trichloroethane
Concen: 8.434 ug/L
RT: 4.500 min Scan# 1076
Delta R.T. 0.000 min
Lab File: VV038537.D
Acq: 24 Jan 2025 16:55

Tgt Ion: 97 Resp: 240100
Ion Ratio Lower Upper
97 100
99 64.9 52.9 79.3
61 43.2 36.4 54.6





#31

Carbon tetrachloride

Concen: 4.441 ug/L

RT: 4.725 min Scan# 1145

Delta R.T. 0.003 min

Lab File: VV038537.D

Acq: 24 Jan 2025 16:55

Instrument :

MSVOA_V

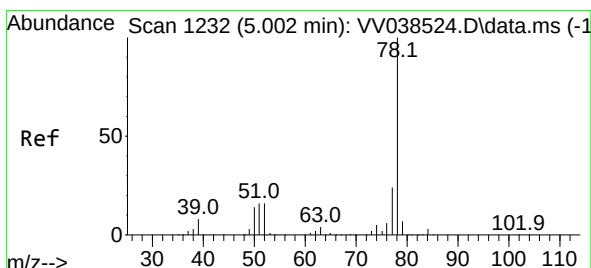
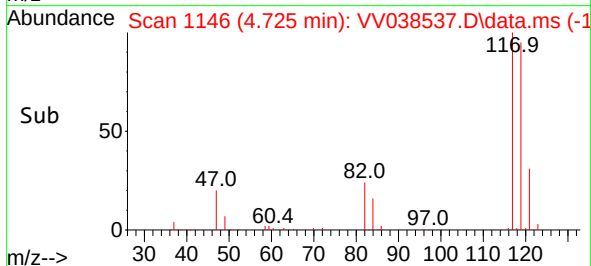
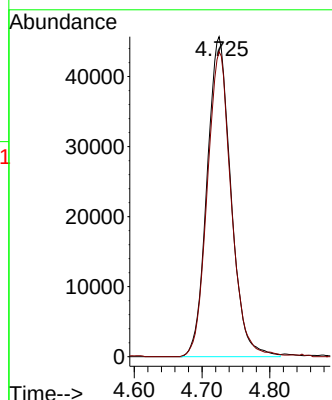
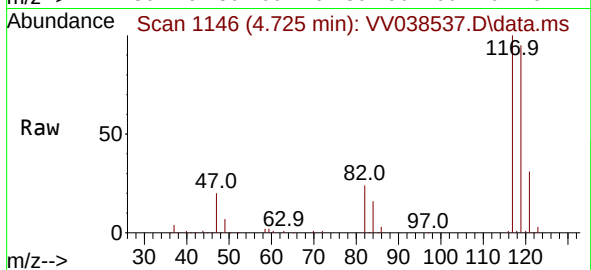
ClientSampleId :

Tgt Ion:117 Resp: 111748

Ion Ratio Lower Upper

117 100

119 96.2 76.6 115.0



#33

Benzene

Concen: 3.194 ug/L

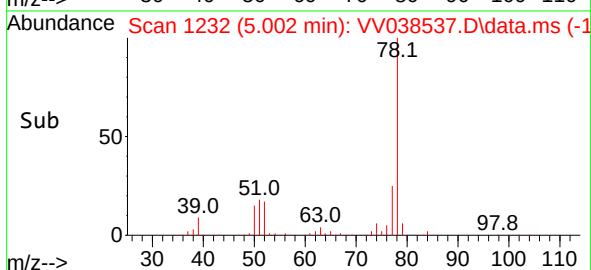
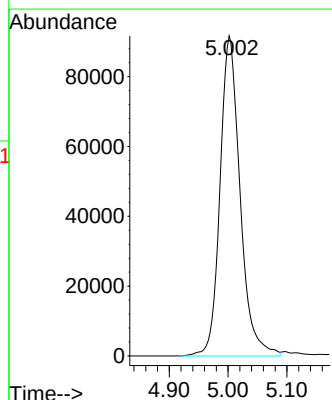
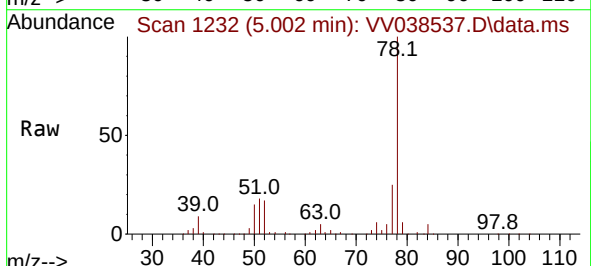
RT: 5.002 min Scan# 1232

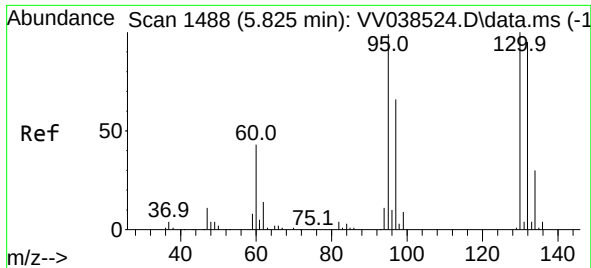
Delta R.T. 0.000 min

Lab File: VV038537.D

Acq: 24 Jan 2025 16:55

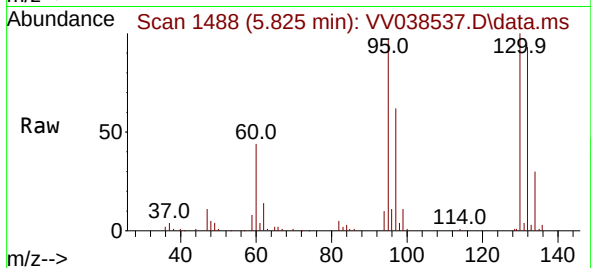
Tgt Ion: 78 Resp: 217160



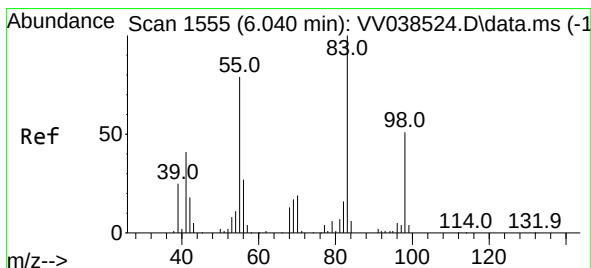
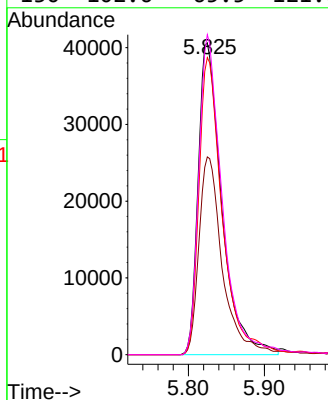
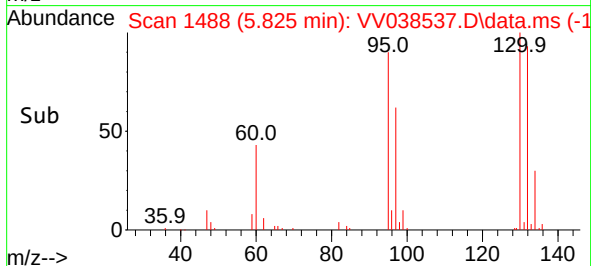


#34
Trichloroethene
Concen: 4.968 ug/L
RT: 5.825 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VV038537.D
Acq: 24 Jan 2025 16:55

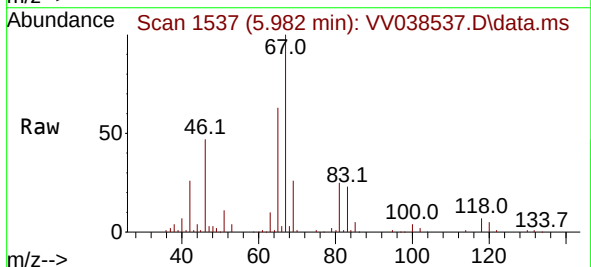
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ClientSampleId :



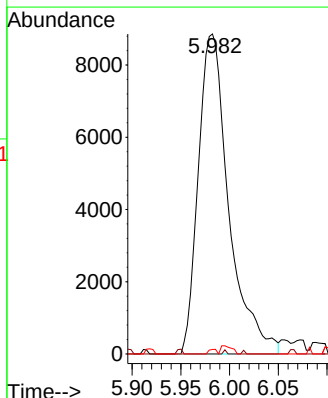
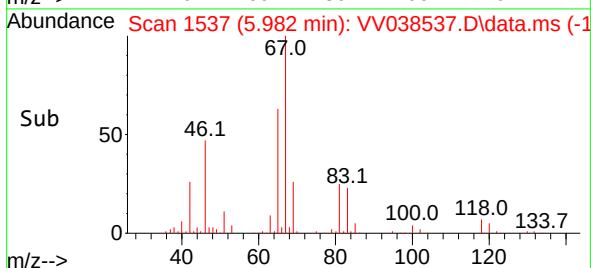
Tgt Ion:	95	Resp:	87780
Ion	Ratio	Lower	Upper
95	100		
97	63.4	43.4	80.6
132	95.3	65.5	121.6
130	102.6	65.5	121.6

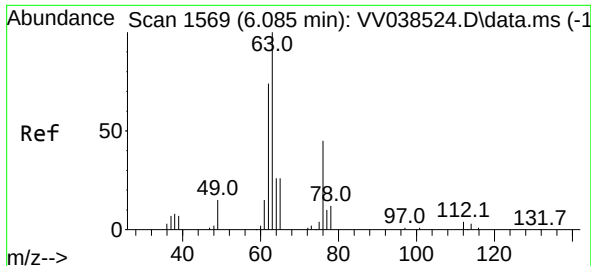


#35
Methylcyclohexane
Concen: 0.716 ug/L
RT: 5.982 min Scan# 1537
Delta R.T. -0.058 min
Lab File: VV038537.D
Acq: 24 Jan 2025 16:55



Tgt Ion:	83	Resp:	19288
Ion	Ratio	Lower	Upper
83	100		
55	0.1	59.4	89.0#
98	0.9	37.8	56.8#





#37

1,2-Dichloropropane

Concen: 4.621 ug/L

RT: 6.085 min Scan# 1

Delta R.T. 0.000 min

Lab File: VV038537.D

Acq: 24 Jan 2025 16:55

Instrument :

MSVOA_V

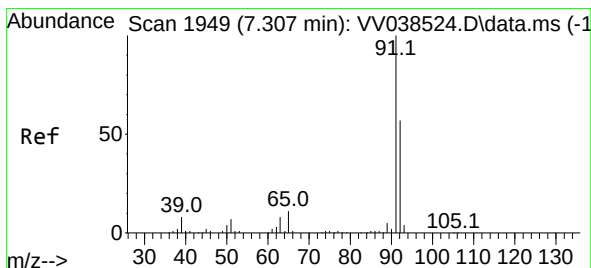
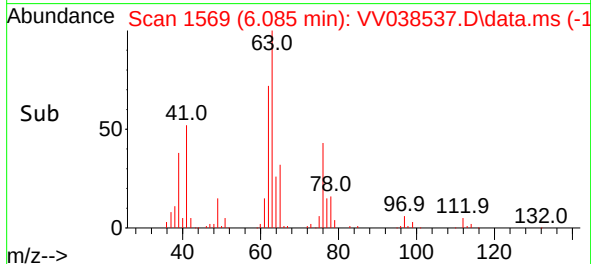
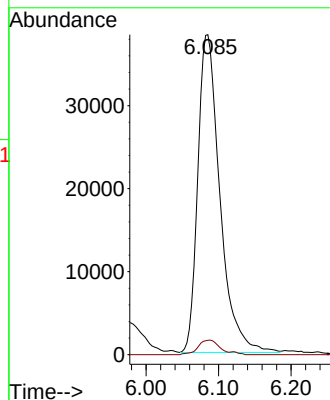
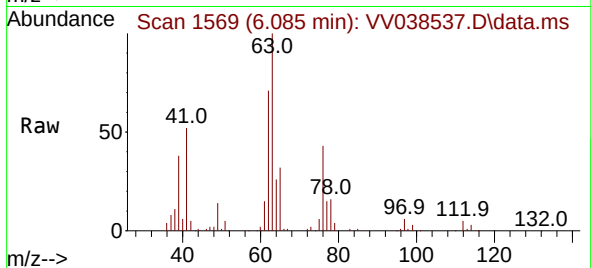
ClientSampleId :

Tgt Ion: 63 Resp: 81145

Ion Ratio Lower Upper

63 100

112 4.3 4.1 6.1



#42

Toluene

Concen: 9.197 ug/L

RT: 7.304 min Scan# 1948

Delta R.T. -0.003 min

Lab File: VV038537.D

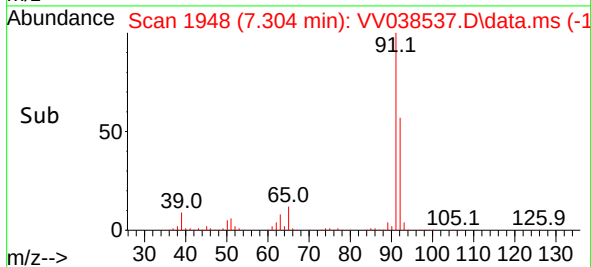
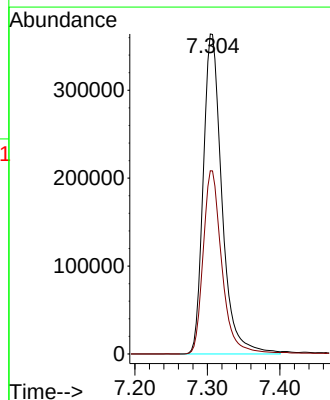
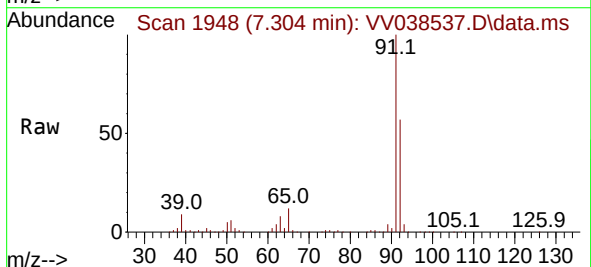
Acq: 24 Jan 2025 16:55

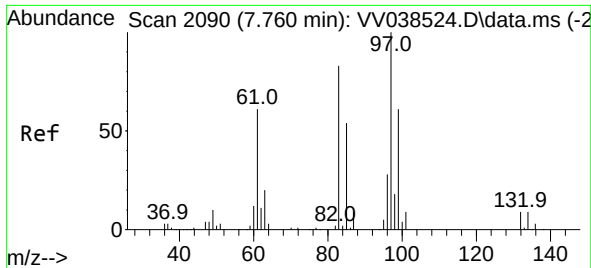
Tgt Ion: 91 Resp: 651707

Ion Ratio Lower Upper

91 100

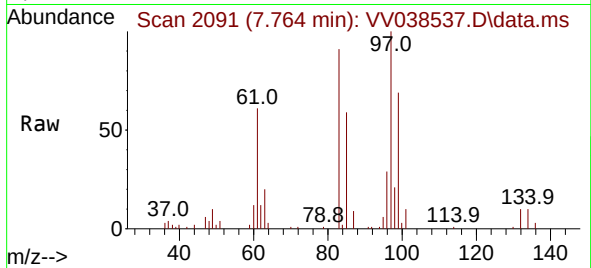
92 57.2 40.6 75.4



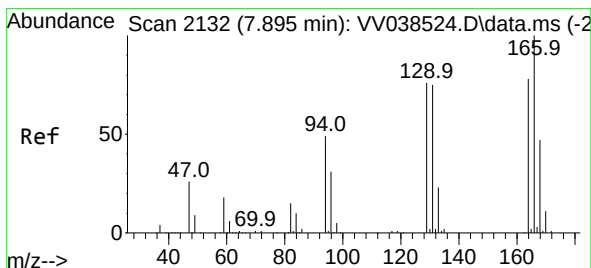
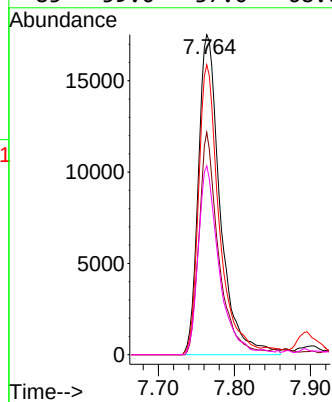
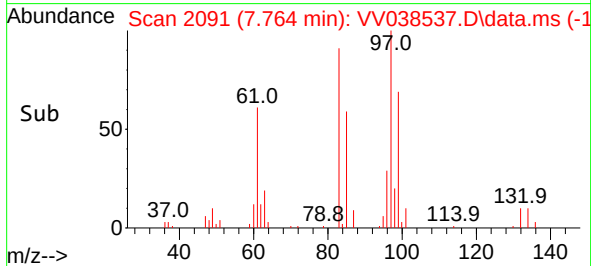


#45
1,1,2-Trichloroethane
Concen: 2.781 ug/L
RT: 7.764 min Scan# 2090
Delta R.T. 0.003 min
Lab File: VV038537.D
Acq: 24 Jan 2025 16:55

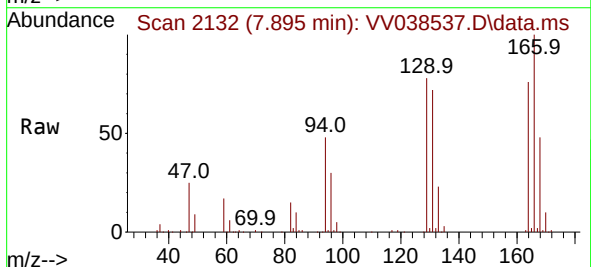
Instrument :
MSVOA_V
ClientSampleId :



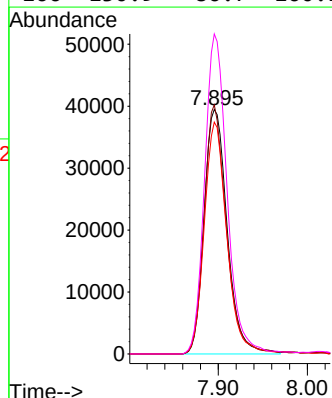
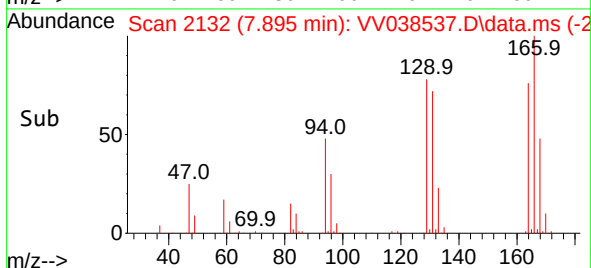
Tgt Ion:	97	Resp:	35119
Ion	Ratio	Lower	Upper
97	100		
99	69.5	42.3	78.5
83	90.6	59.4	110.4
85	59.0	37.0	68.6

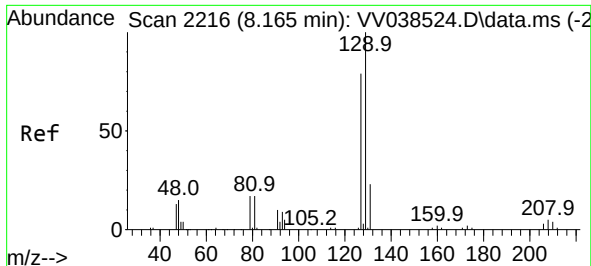


#47
Tetrachloroethene
Concen: 5.185 ug/L
RT: 7.895 min Scan# 2132
Delta R.T. 0.000 min
Lab File: VV038537.D
Acq: 24 Jan 2025 16:55



Tgt Ion:	164	Resp:	70916
Ion	Ratio	Lower	Upper
164	100		
129	101.9	68.9	127.9
131	94.8	65.2	121.2
166	130.9	86.7	160.9





#49

Dibromochloromethane

Concen: 4.605 ug/L

RT: 7.895 min Scan# 2132

Delta R.T. -0.270 min

Lab File: VV038537.D

Acq: 24 Jan 2025 16:55

Instrument :

MSVOA_V

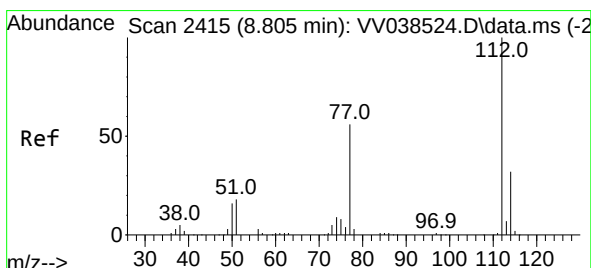
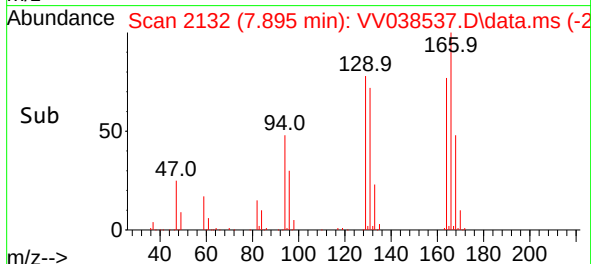
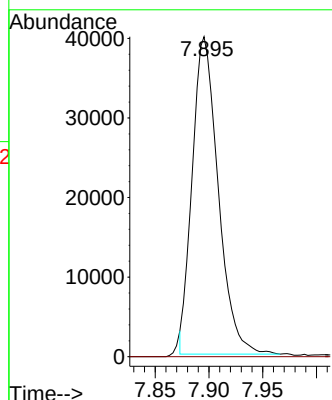
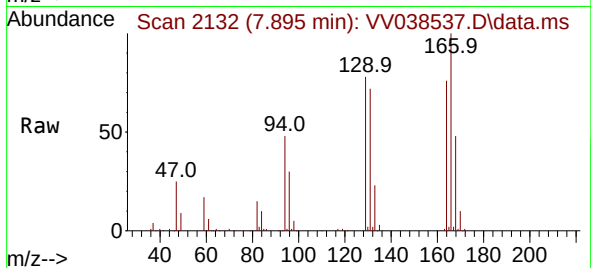
ClientSampleId :

Tgt Ion:129 Resp: 66950

Ion Ratio Lower Upper

129 100

127 0.0 52.8 98.2#



#51

Chlorobenzene

Concen: 4.884 ug/L

RT: 8.805 min Scan# 2415

Delta R.T. 0.000 min

Lab File: VV038537.D

Acq: 24 Jan 2025 16:55

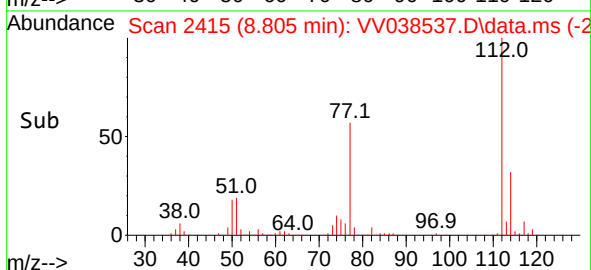
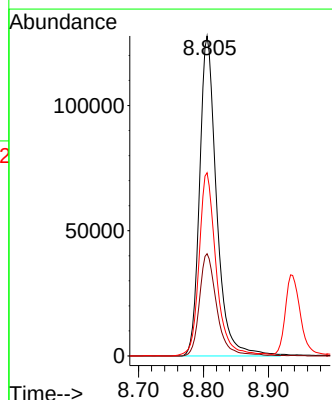
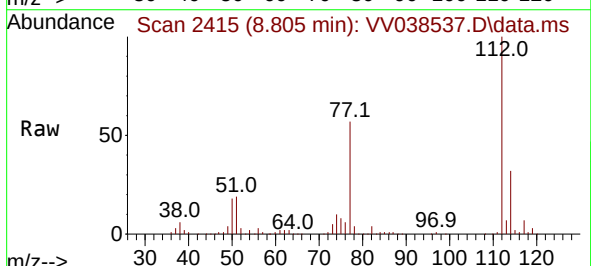
Tgt Ion:112 Resp: 232892

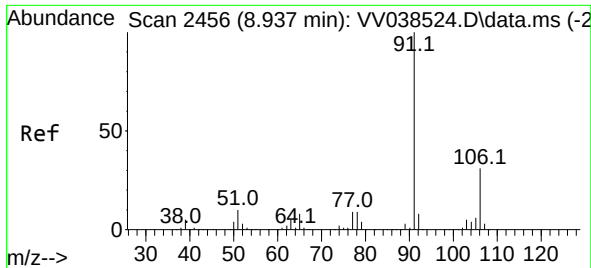
Ion Ratio Lower Upper

112 100

114 32.0 22.9 42.5

77 57.2 46.1 69.1

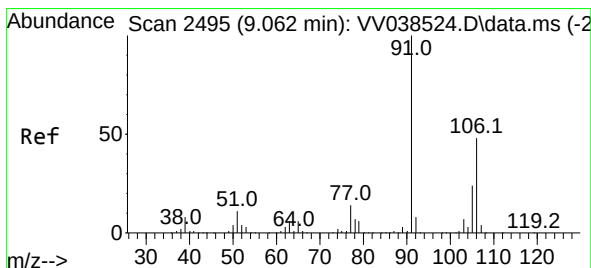
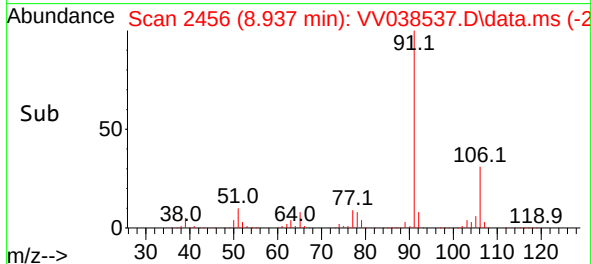
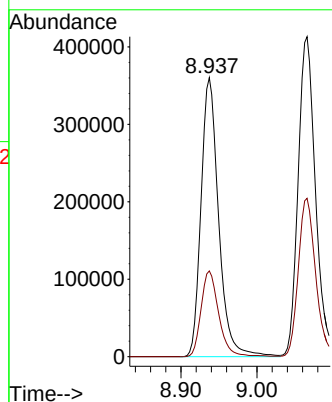
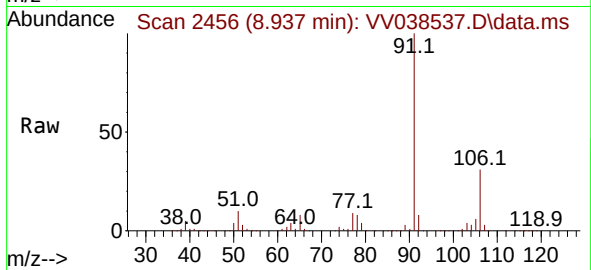




#52
Ethylbenzene
Concen: 7.610 ug/L
RT: 8.937 min Scan# 2456
Delta R.T. 0.000 min
Lab File: VV038537.D
Acq: 24 Jan 2025 16:55

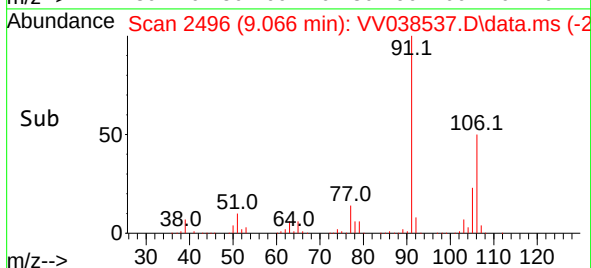
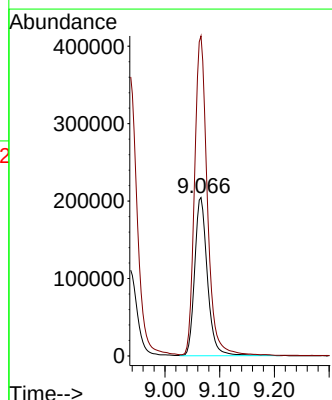
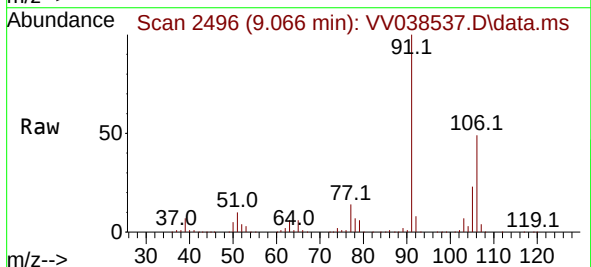
Instrument :
MSVOA_V
ClientSampleId :

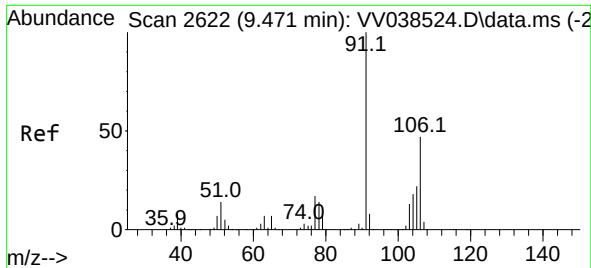
Tgt Ion: 91 Resp: 580083
Ion Ratio Lower Upper
91 100
106 30.8 22.0 40.8



#53
m,p-Xylene
Concen: 11.458 ug/L
RT: 9.066 min Scan# 2496
Delta R.T. 0.003 min
Lab File: VV038537.D
Acq: 24 Jan 2025 16:55

Tgt Ion: 106 Resp: 331073
Ion Ratio Lower Upper
106 100
91 202.1 148.2 275.2

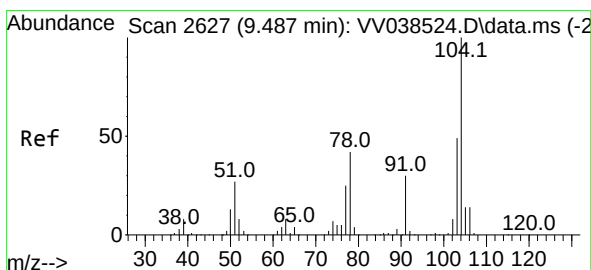
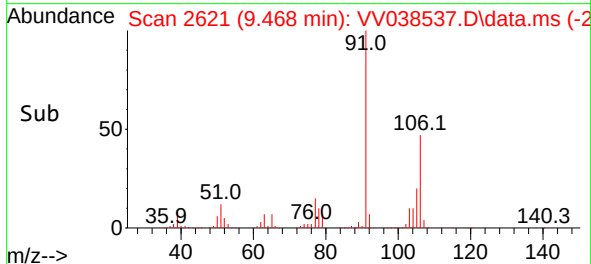
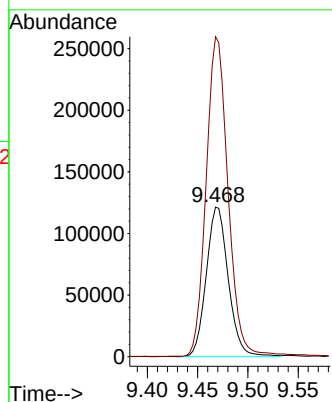
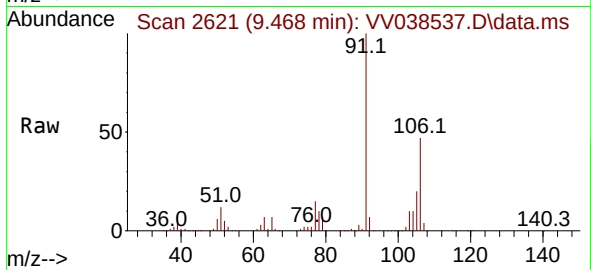




#54
o-Xylene
Concen: 6.724 ug/L
RT: 9.468 min Scan# 20
Delta R.T. -0.003 min
Lab File: VV038537.D
Acq: 24 Jan 2025 16:55

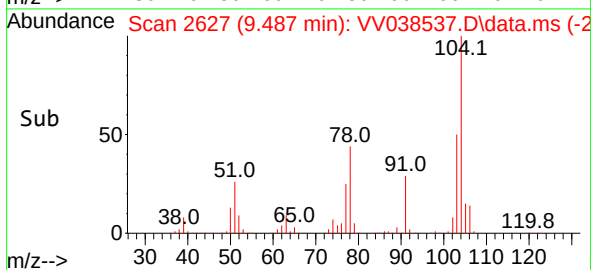
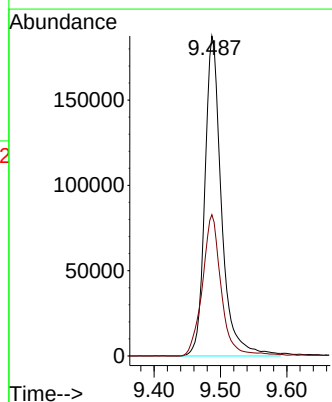
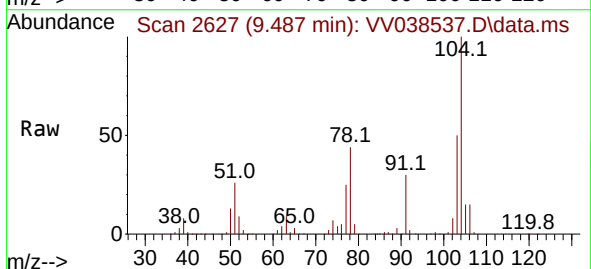
Instrument :
MSVOA_V
ClientSampleId :

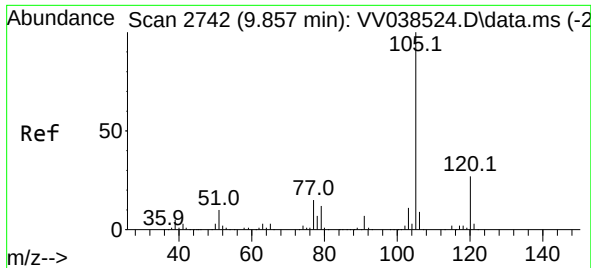
Tgt Ion:106 Resp: 185137
Ion Ratio Lower Upper
106 100
91 213.9 151.4 281.2



#55
Styrene
Concen: 6.823 ug/L
RT: 9.487 min Scan# 2627
Delta R.T. 0.000 min
Lab File: VV038537.D
Acq: 24 Jan 2025 16:55

Tgt Ion:104 Resp: 327557
Ion Ratio Lower Upper
104 100
78 44.1 30.8 57.2

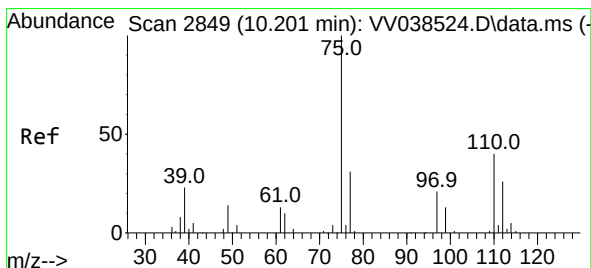
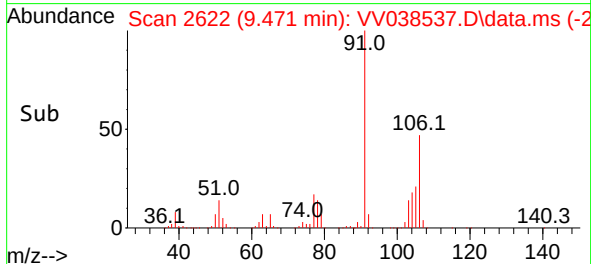
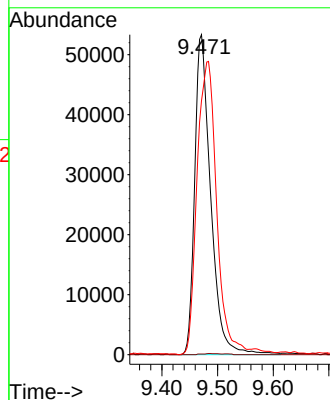
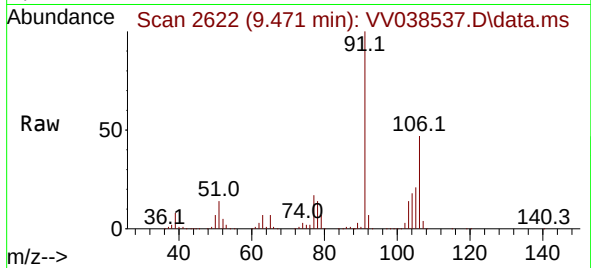




#60
Isopropylbenzene
Concen: 1.586 ug/L
RT: 9.471 min Scan# 206
Delta R.T. -0.386 min
Lab File: VV038537.D
Acq: 24 Jan 2025 16:55

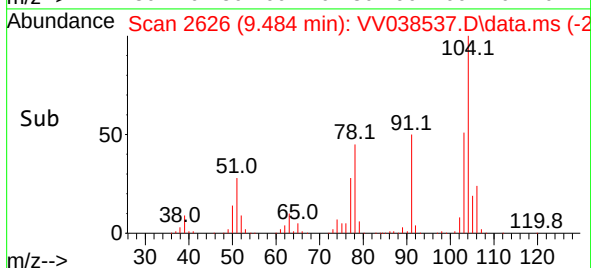
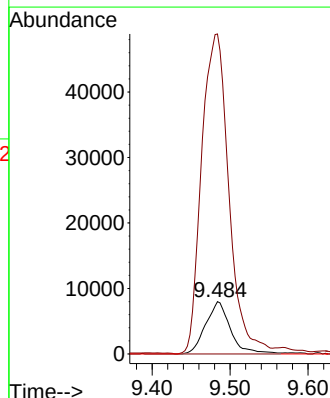
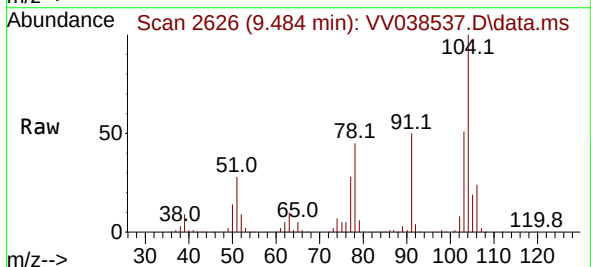
Instrument :
MSVOA_V
ClientSampleId :

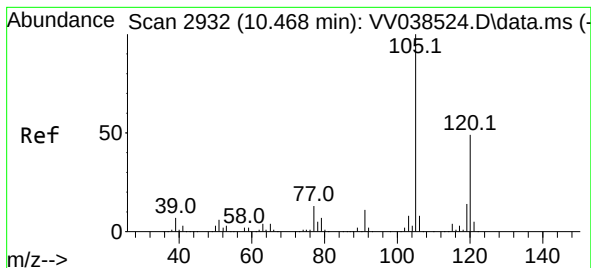
Tgt Ion:105 Resp: 106165
Ion Ratio Lower Upper
105 100
120 0.3 21.4 32.2#
77 111.9 12.7 19.1#



#61
1,2,3-Trichloropropane
Concen: 1.850 ug/L
RT: 9.484 min Scan# 2626
Delta R.T. -0.717 min
Lab File: VV038537.D
Acq: 24 Jan 2025 16:55

Tgt Ion: 75 Resp: 17688
Ion Ratio Lower Upper
75 100
77 671.8 25.4 38.0#
110 0.0 32.6 48.8#





#62

1,3,5-Trimethylbenzene

Concen: 2.025 ug/L

RT: 9.471 min Scan# 2

Delta R.T. -0.997 min

Lab File: VV038537.D

Acq: 24 Jan 2025 16:55

Instrument :

MSVOA_V

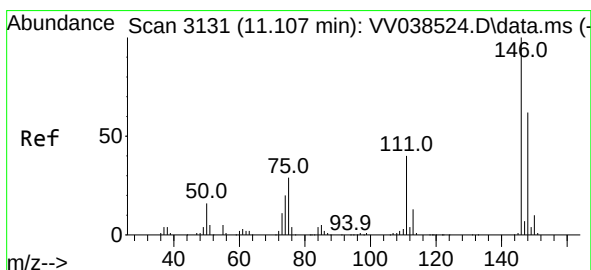
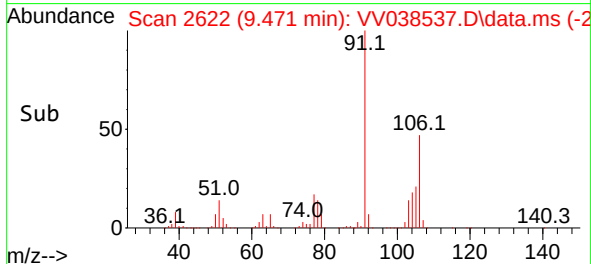
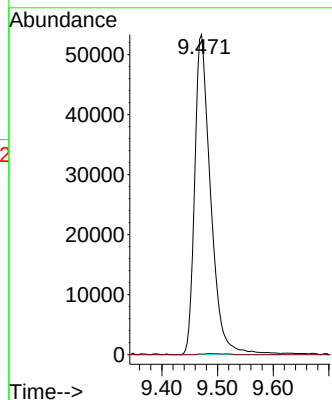
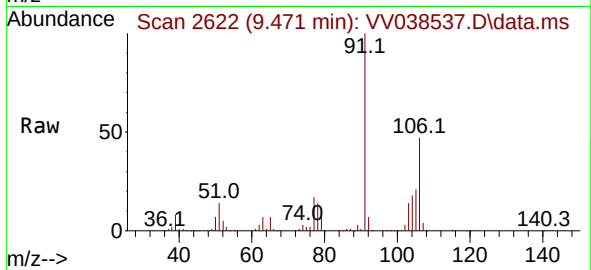
ClientSampleId :

Tgt Ion:105 Resp: 106165

Ion Ratio Lower Upper

105 100

120 0.3 39.4 59.0#



#64

1,3-Dichlorobenzene

Concen: 2.584 ug/L

RT: 11.201 min Scan# 3160

Delta R.T. 0.093 min

Lab File: VV038537.D

Acq: 24 Jan 2025 16:55

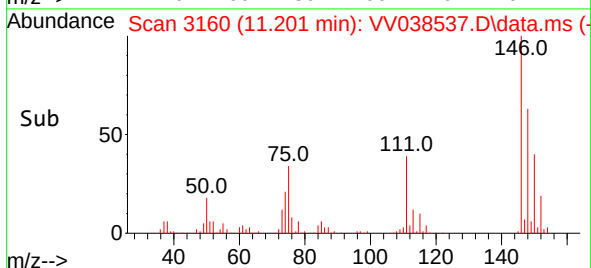
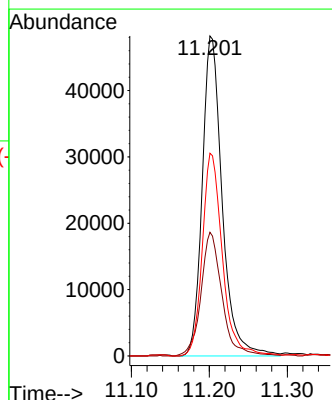
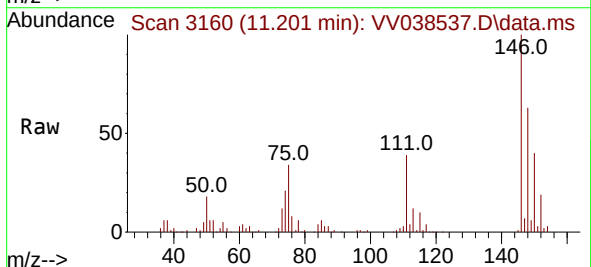
Tgt Ion:146 Resp: 85823

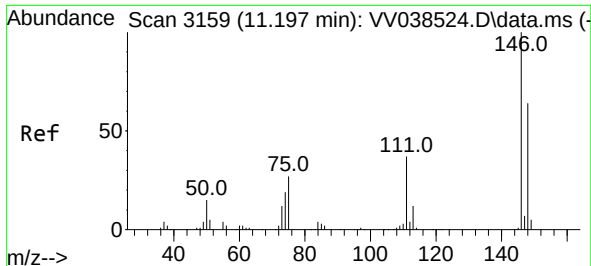
Ion Ratio Lower Upper

146 100

111 38.7 27.9 51.9

148 63.4 44.7 83.1

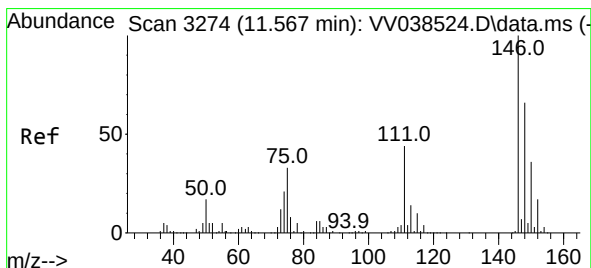
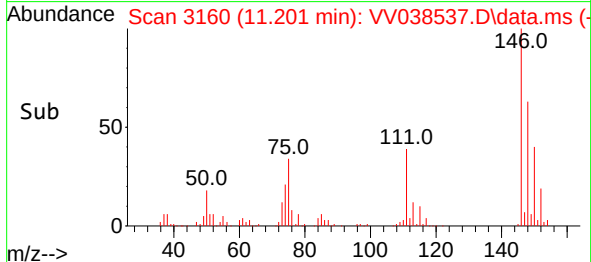
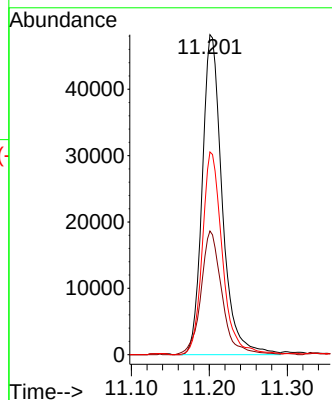
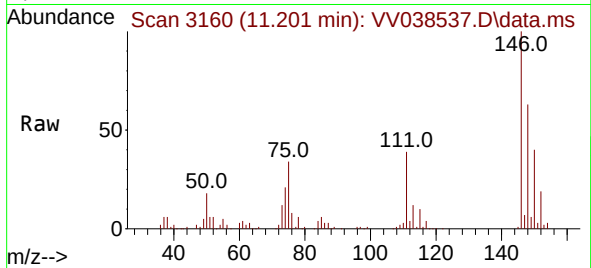




#65
1,4-Dichlorobenzene
Concen: 2.499 ug/L
RT: 11.201 min Scan# 3159
Delta R.T. 0.003 min
Lab File: VV038537.D
Acq: 24 Jan 2025 16:55

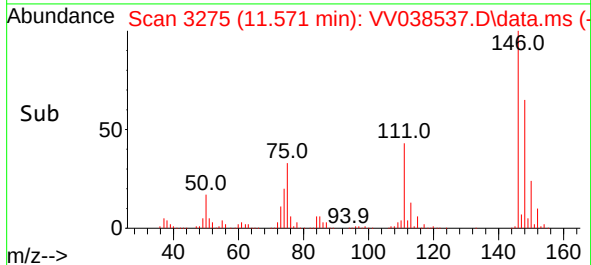
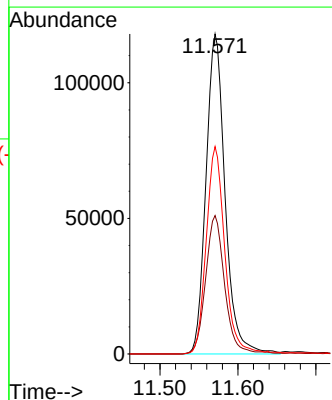
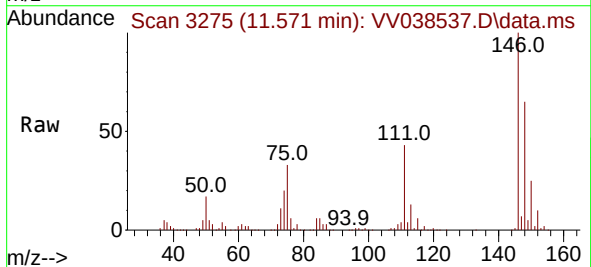
Instrument :
MSVOA_V
ClientSampleId :

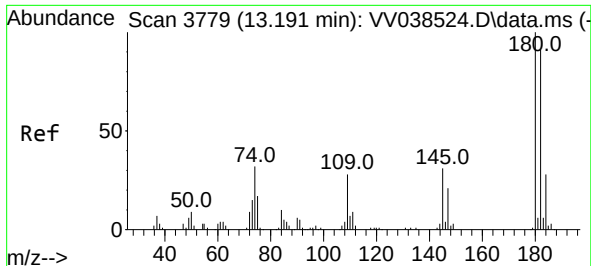
Tgt Ion:146 Resp: 85823
Ion Ratio Lower Upper
146 100
111 38.7 28.1 52.3
148 63.4 44.7 83.1



#67
1,2-Dichlorobenzene
Concen: 6.453 ug/L
RT: 11.571 min Scan# 3275
Delta R.T. 0.003 min
Lab File: VV038537.D
Acq: 24 Jan 2025 16:55

Tgt Ion:146 Resp: 200716
Ion Ratio Lower Upper
146 100
111 43.3 33.4 50.0
148 64.8 49.9 74.9





#70

1,2,4-trichlorobenzene

Concen: 3.155 ug/L

RT: 13.191 min Scan# 31

Delta R.T. 0.000 min

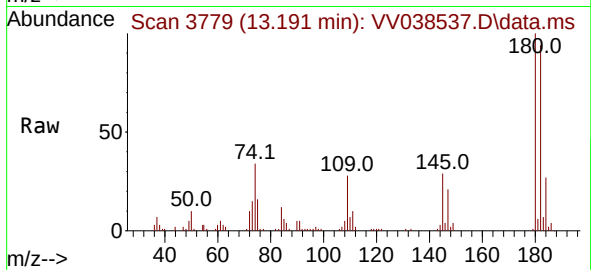
Lab File: VV038537.D

Acq: 24 Jan 2025 16:55

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion:180 Resp: 53560

Ion Ratio Lower Upper

180 100

182 94.3 77.5 116.3

145 31.0 26.2 39.4

