

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW110223\
 Data File : VW032827.D
 Acq On : 01 Nov 2023 16:19
 Operator : SY/MD
 Sample : 05168-01
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Nov 02 01:32:09 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR102723WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Nov 02 01:31:24 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.539	114	120438	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.789	117	140806	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.188	152	66439	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.278	65	42199	4.266	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	85.400%
7) Chloroethane-d5	1.655	69	1698	0.202	ug/L	0.12
Spiked Amount	5.000	Range	65 - 130	Recovery	=	4.000%#
11) 1,1-Dichloroethene-d2	2.060	65	18785	4.231	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	84.600%
20) 2-Butanone-d5	3.799	46	95283	44.608	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	89.220%
24) Chloroform-d	4.253	84	90032	5.482	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	109.600%
26) 1,2-Dichloroethane-d4	4.944	65	45051	5.556	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	111.200%
32) Benzene-d6	4.963	84	169639	5.060	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.200%
36) 1,2-Dichloropropane-d6	5.989	67	51741	5.330	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	106.600%
41) Toluene-d8	7.246	98	153698	4.523	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.400%
43) trans-1,3-Dichloroprop...	7.561	79	18229	4.256	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	85.200%
46) 2-Hexanone-d5	8.027	63	88044	51.863	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	103.720%
56) 1,1,2,2-Tetrachloroeth...	10.156	84	45536	5.275	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	105.400%
66) 1,2-Dichlorobenzene-d4	11.564	152	65565	6.043	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	120.800%#
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.282	62	44412	3.069	ug/L	100
8) Chloroethane	1.282	64	15127	1.598	ug/L #	57
12) 1,1-Dichloroethene	2.069	96	194121	18.034	ug/L #	77
16) Methylene chloride	2.446	84	192487	14.529	ug/L	98
18) trans-1,2-Dichloroethene	2.693	96	231728	21.770	ug/L	99
22) cis-1,2-Dichloroethene	3.819	96	41586	3.853	ug/L	93
25) Chloroform	4.278	83	21129	1.030	ug/L	95
27) 1,2-Dichloroethane	5.044	62	172867	13.556	ug/L	96
29) 1,1,1-Trichloroethane	4.516	97	70517	3.883	ug/L	98
31) Carbon tetrachloride	4.738	117	52752	3.338	ug/L	100
33) Benzene	5.011	78	312484	7.040	ug/L	100
34) Trichloroethene	5.835	95	43239	3.647	ug/L	95
37) 1,2-Dichloropropane	6.095	63	40394	3.772	ug/L	99
38) Bromodichloromethane	6.439	83	9817	0.620	ug/L #	99
42) Toluene	7.317	91	506180	9.816	ug/L	98
44) trans-1,3-Dichloropropene	7.564	75	1125	0.080	ug/L	87
45) 1,1,2-Trichloroethane	7.770	97	121459	13.428	ug/L	97
47) Tetrachloroethene	7.905	164	201677	19.247	ug/L	98
49) Dibromochloromethane	7.905	129	182435	17.003	ug/L #	11

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

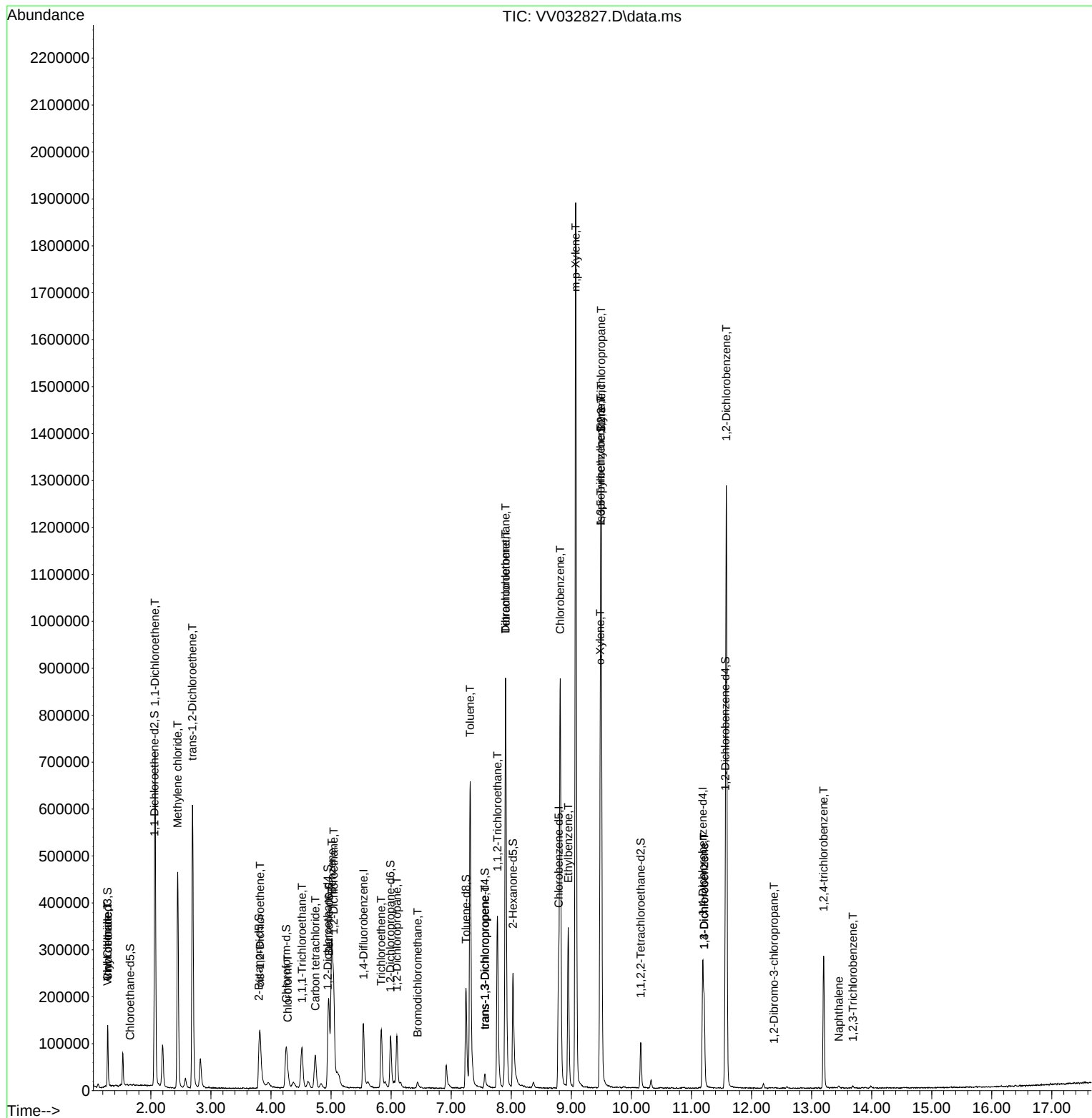
51) Chlorobenzene	8.815	112	471206	13.831	ug/L	98
52) Ethylbenzene	8.950	91	238717	4.404	ug/L	98
53) m,p-Xylene	9.072	106	521604	25.411	ug/L	98
54) o-Xylene	9.481	106	145871	7.326	ug/L	100
55) Styrene	9.497	104	565679	17.148	ug/L	98
60) Isopropylbenzene	9.487	105	109600	2.431	ug/L #	1
61) 1,2,3-Trichloropropane	9.497	75	27012	3.844	ug/L #	1
62) 1,3,5-Trimethylbenzene	9.487	105	109600	2.973	ug/L #	29
64) 1,3-Dichlorobenzene	11.211	146	72025	2.977	ug/L	99
65) 1,4-Dichlorobenzene	11.211	146	72025	2.999	ug/L	99
67) 1,2-Dichlorobenzene	11.580	146	475327	21.362	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.374	75	355	0.211	ug/L #	19
70) 1,2,4-trichlorobenzene	13.201	180	82023	5.597	ug/L	100
71) Naphthalene	13.455	128	3171	0.137	ug/L #	94
72) 1,2,3-Trichlorobenzene	13.690	180	1096	0.085	ug/L #	80

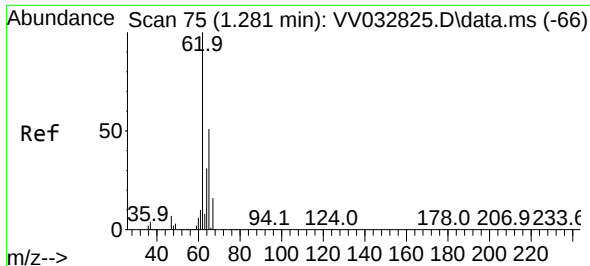
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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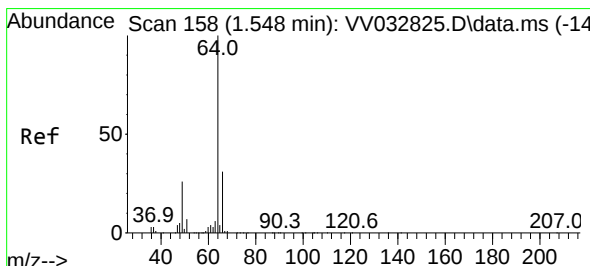
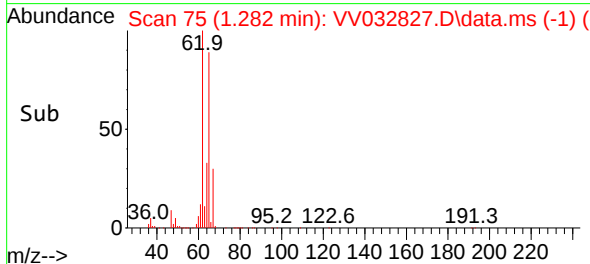
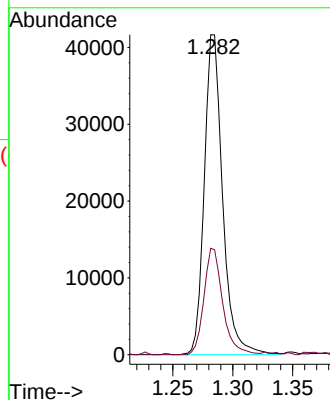
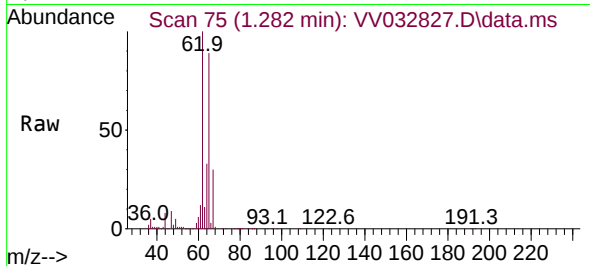




#5
 Vinyl chloride
 Concen: 3.069 ug/L
 RT: 1.282 min Scan# 75
 Delta R.T. 0.000 min
 Lab File: VV032827.D
 Acq: 01 Nov 2023 16:19

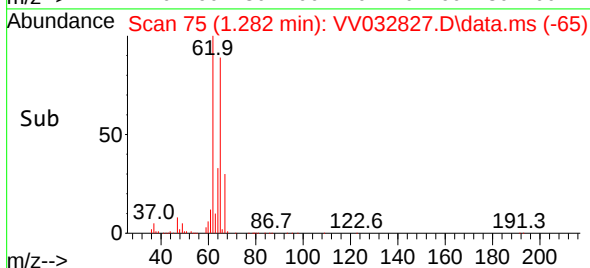
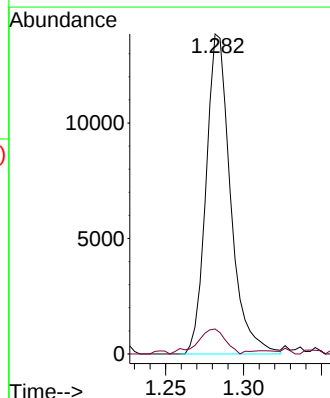
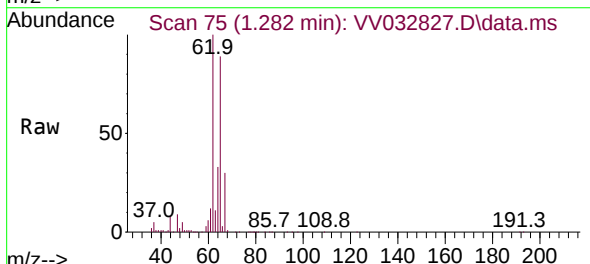
Instrument :
 MSVOA_V
 ClientSampleId :

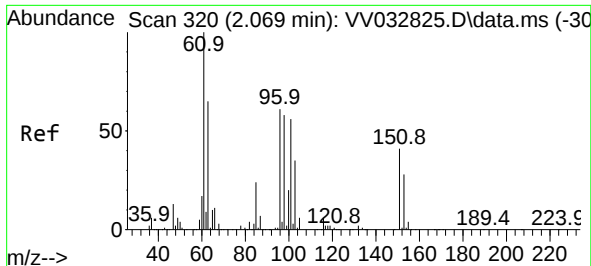
Tgt Ion: 62 Resp: 44412
 Ion Ratio Lower Upper
 62 100
 64 33.3 23.2 43.0



#8
 Chloroethane
 Concen: 1.598 ug/L
 RT: 1.282 min Scan# 75
 Delta R.T. -0.267 min
 Lab File: VV032827.D
 Acq: 01 Nov 2023 16:19

Tgt Ion: 64 Resp: 15127
 Ion Ratio Lower Upper
 64 100
 66 7.8 22.3 41.5#

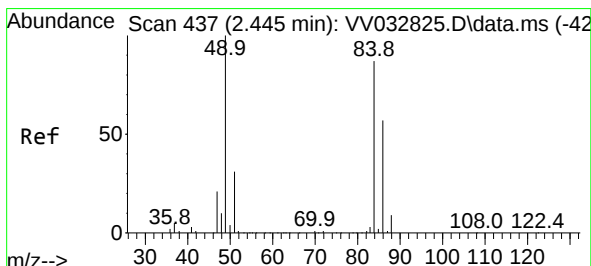
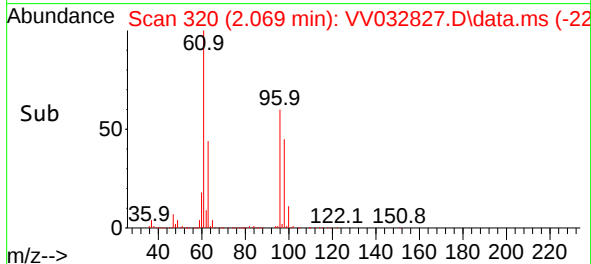
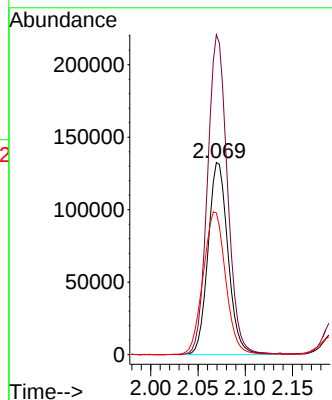
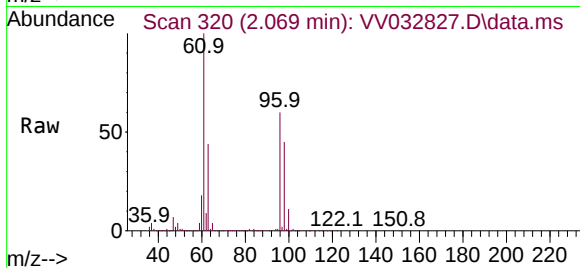




#12
 1,1-Dichloroethene
 Concen: 18.034 ug/L
 RT: 2.069 min Scan# 312
 Delta R.T. 0.000 min
 Lab File: VV032827.D
 Acq: 01 Nov 2023 16:19

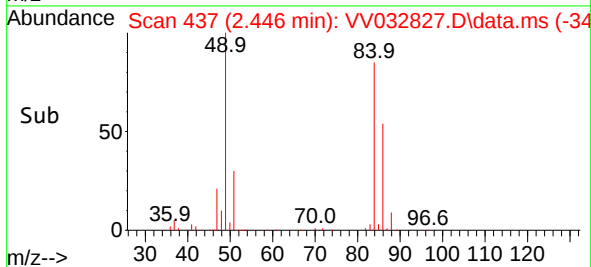
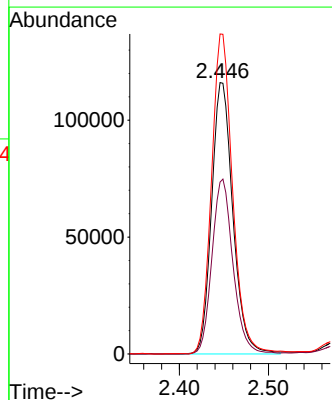
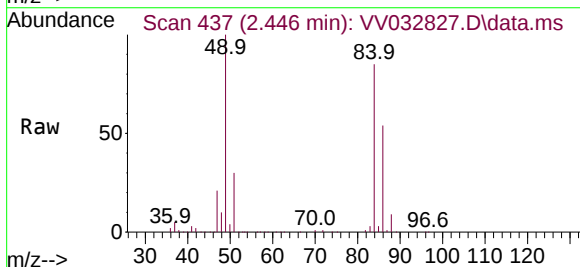
Instrument :
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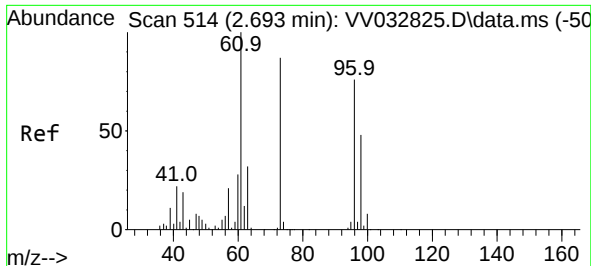
Tgt Ion: 96 Resp: 194121
 Ion Ratio Lower Upper
 96 100
 61 166.5 122.3 227.1
 63 73.7 89.4 166.0#



#16
 Methylene chloride
 Concen: 14.529 ug/L
 RT: 2.446 min Scan# 437
 Delta R.T. 0.000 min
 Lab File: VV032827.D
 Acq: 01 Nov 2023 16:19

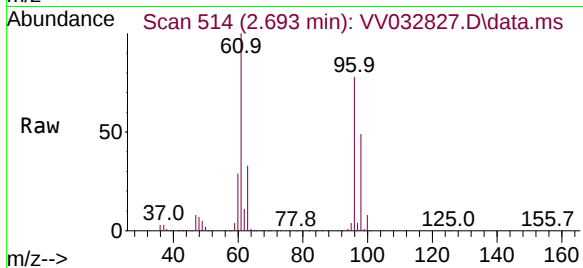
Tgt Ion: 84 Resp: 192487
 Ion Ratio Lower Upper
 84 100
 86 63.3 44.8 83.2
 49 117.9 81.1 150.5



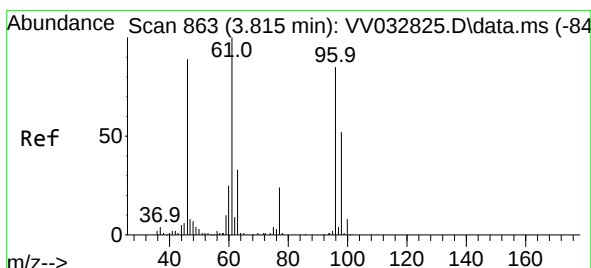
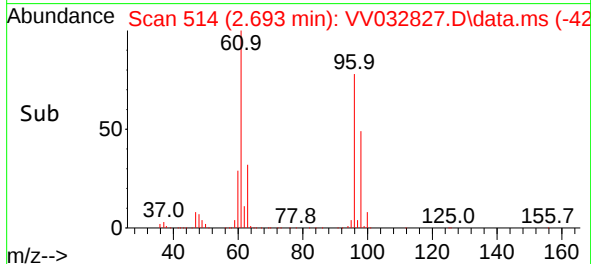
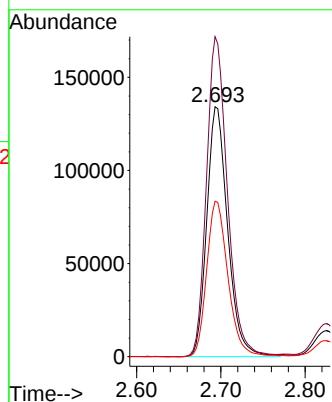


#18
trans-1,2-Dichloroethene
Concen: 21.770 ug/L
RT: 2.693 min Scan# 514
Delta R.T. 0.000 min
Lab File: VV032827.D
Acq: 01 Nov 2023 16:19

Instrument :
MSVOA_V
ClientSampleId :

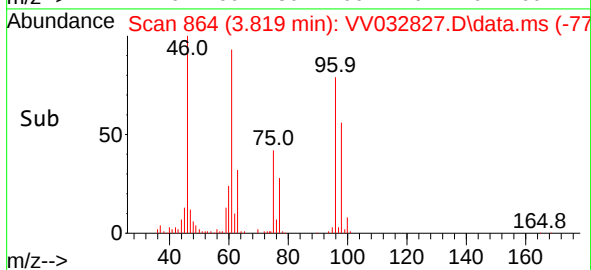
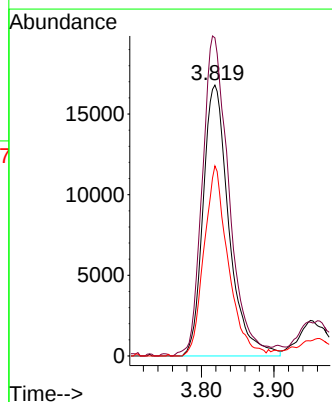
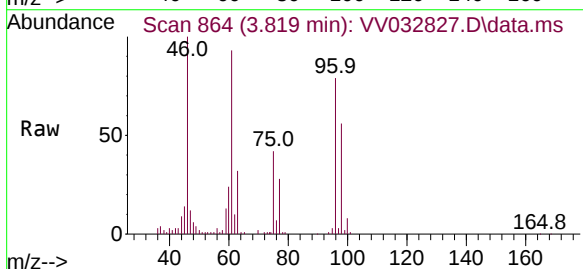


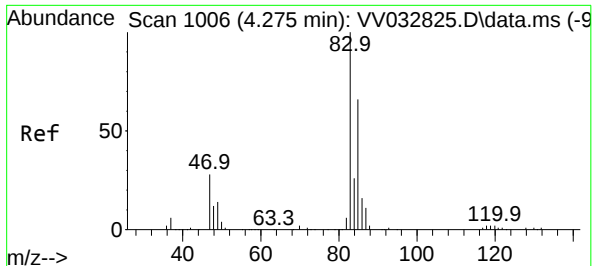
Tgt Ion: 96 Resp: 231728
Ion Ratio Lower Upper
96 100
61 128.0 88.7 164.7
98 62.3 44.4 82.4



#22
cis-1,2-Dichloroethene
Concen: 3.853 ug/L
RT: 3.819 min Scan# 864
Delta R.T. 0.003 min
Lab File: VV032827.D
Acq: 01 Nov 2023 16:19

Tgt Ion: 96 Resp: 41586
Ion Ratio Lower Upper
96 100
61 117.4 87.7 162.9
98 70.2 45.0 83.6





#25

Chloroform

Concen: 1.030 ug/L

RT: 4.278 min Scan# 1006

Delta R.T. 0.003 min

Lab File: VV032827.D

Acq: 01 Nov 2023 16:19

Instrument :

MSVOA_V

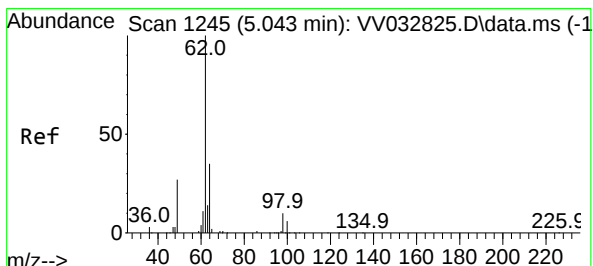
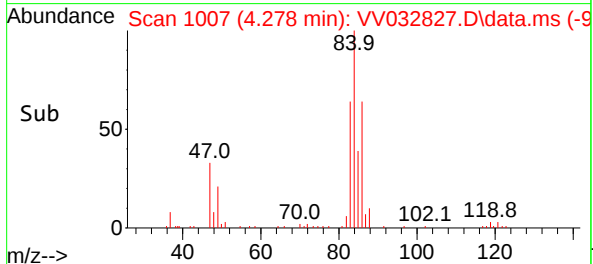
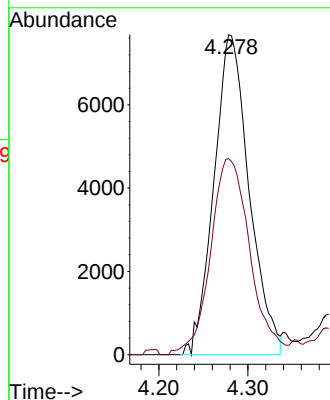
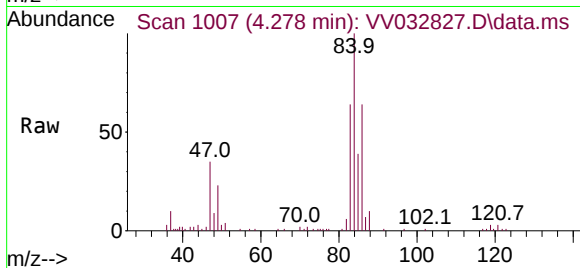
ClientSampleId :

Tgt Ion: 83 Resp: 21129

Ion Ratio Lower Upper

83 100

85 61.3 45.7 84.9



#27

1,2-Dichloroethane

Concen: 13.556 ug/L

RT: 5.044 min Scan# 1245

Delta R.T. 0.000 min

Lab File: VV032827.D

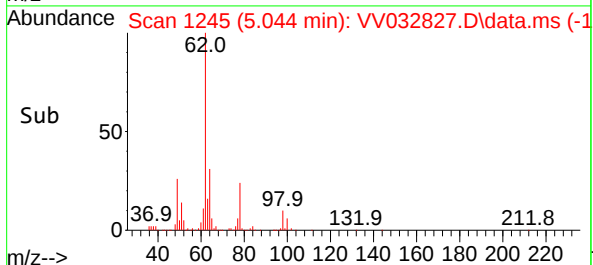
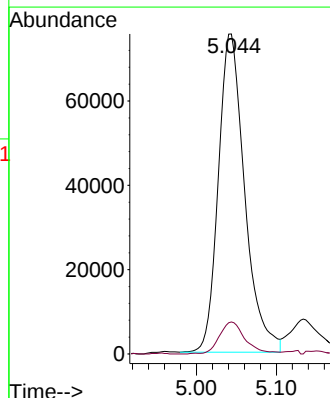
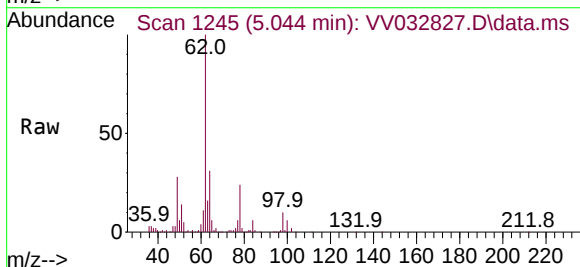
Acq: 01 Nov 2023 16:19

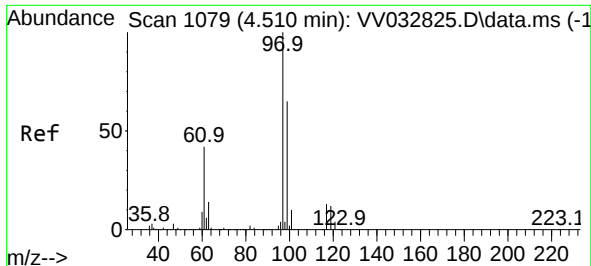
Tgt Ion: 62 Resp: 172867

Ion Ratio Lower Upper

62 100

98 10.0 7.0 10.4





#29

1,1,1-Trichloroethane

Concen: 3.883 ug/L

RT: 4.516 min Scan# 1100

Delta R.T. 0.007 min

Lab File: VV032827.D

Acq: 01 Nov 2023 16:19

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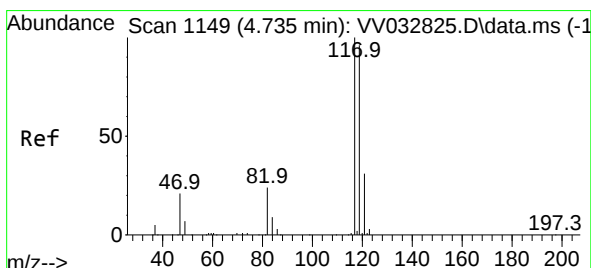
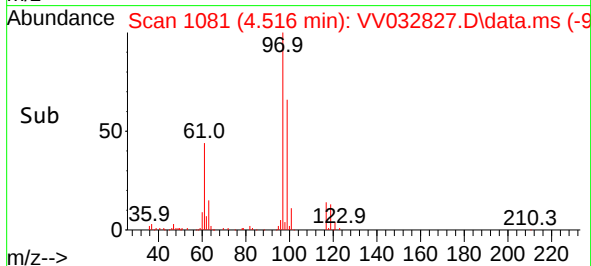
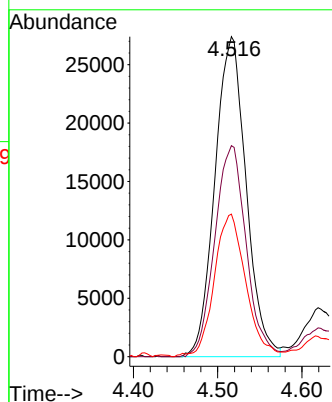
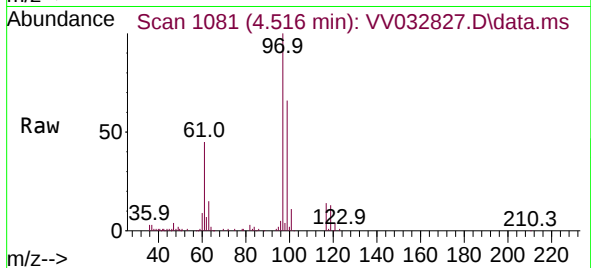
Tgt Ion: 97 Resp: 70517

Ion Ratio Lower Upper

97 100

99 66.2 51.4 77.0

61 44.7 36.1 54.1



#31

Carbon tetrachloride

Concen: 3.338 ug/L

RT: 4.738 min Scan# 1150

Delta R.T. 0.003 min

Lab File: VV032827.D

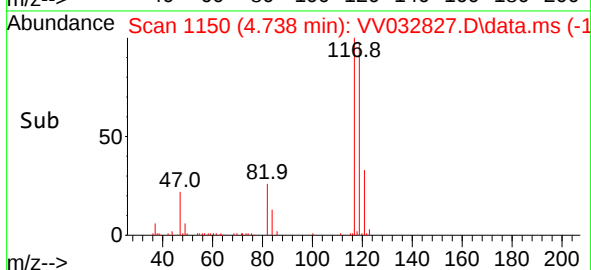
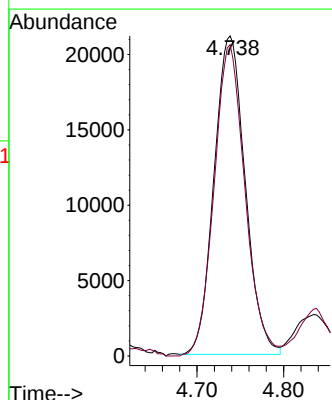
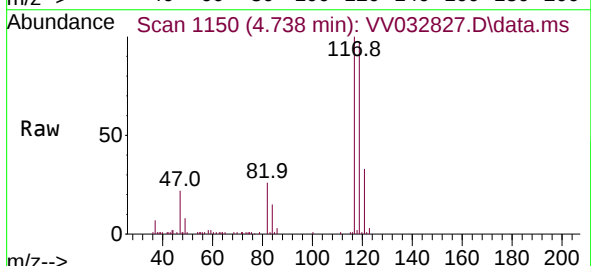
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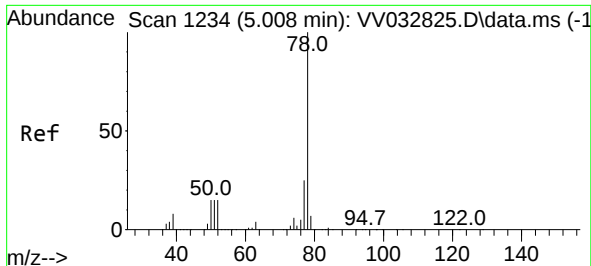
Tgt Ion: 117 Resp: 52752

Ion Ratio Lower Upper

117 100

119 97.2 77.8 116.6

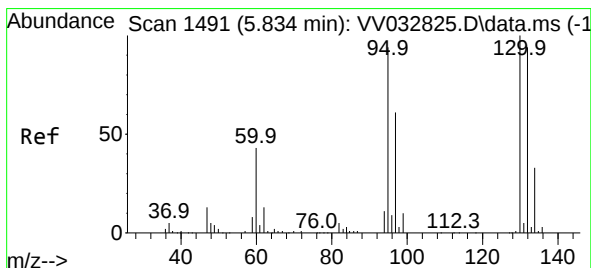
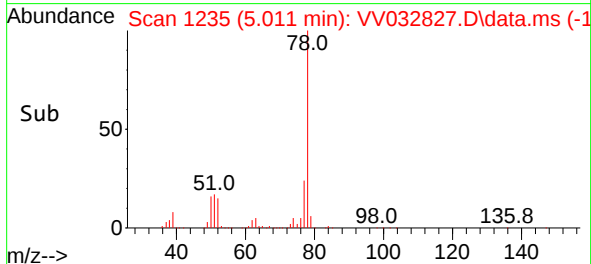
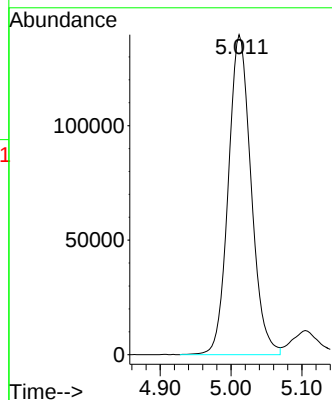
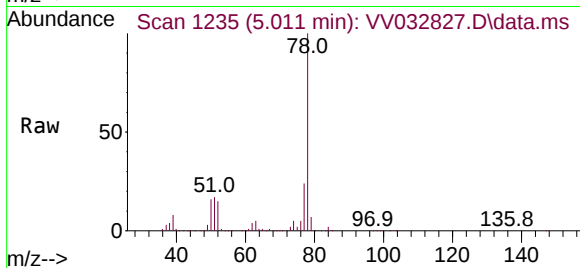




#33
Benzene
Concen: 7.040 ug/L
RT: 5.011 min Scan# 11
Delta R.T. 0.003 min
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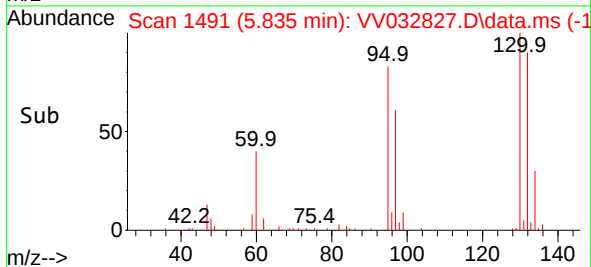
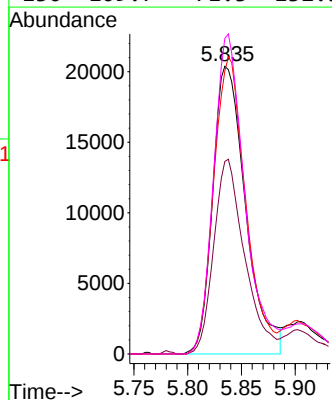
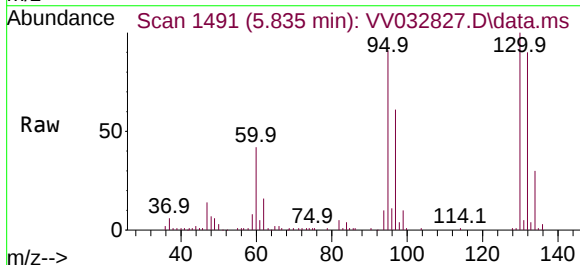
Tgt Ion: 78 Resp: 312484

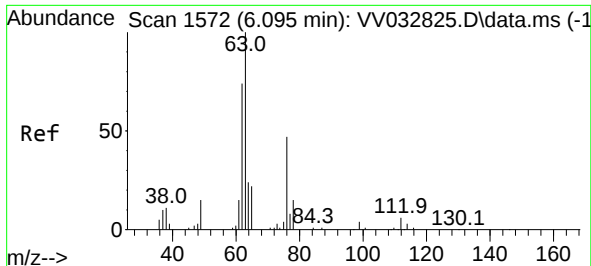


#34
Trichloroethene
Concen: 3.647 ug/L
RT: 5.835 min Scan# 1491
Delta R.T. 0.000 min
Lab File: VV032827.D
Acq: 01 Nov 2023 16:19

Tgt Ion: 95 Resp: 43239

Ion	Ratio	Lower	Upper
95	100		
97	66.9	44.0	81.8
132	98.4	66.9	124.3
130	109.7	71.3	132.3





#37

1,2-Dichloropropane

Concen: 3.772 ug/L

RT: 6.095 min Scan# 1

Delta R.T. 0.000 min

Lab File: VV032827.D

Acq: 01 Nov 2023 16:19

Instrument :

MSVOA_V

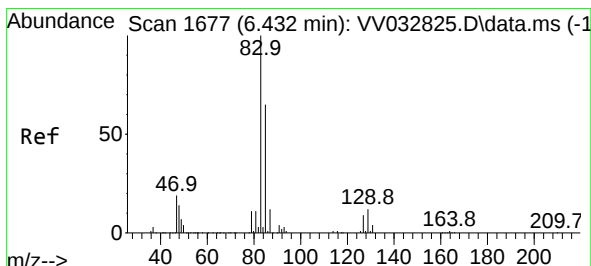
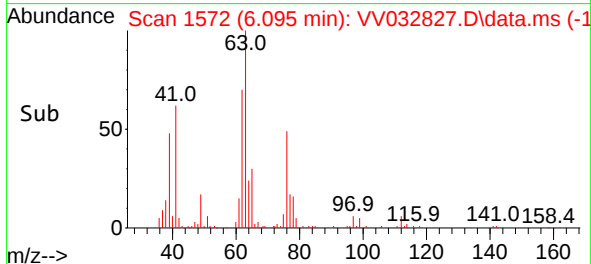
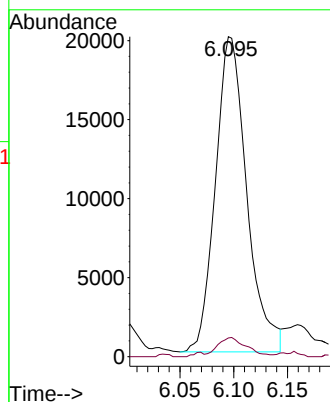
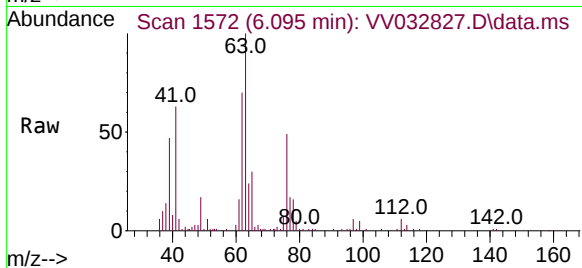
ClientSampleId :

Tgt Ion: 63 Resp: 40394

Ion Ratio Lower Upper

63 100

112 5.6 4.6 7.0



#38

Bromodichloromethane

Concen: 0.620 ug/L

RT: 6.439 min Scan# 1679

Delta R.T. 0.007 min

Lab File: VV032827.D

Acq: 01 Nov 2023 16:19

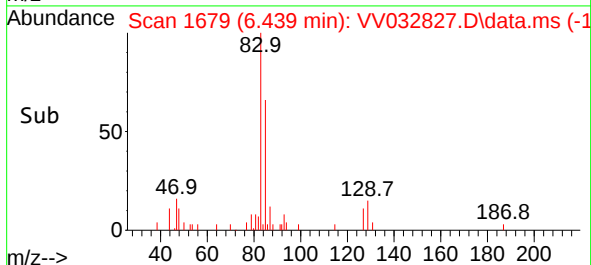
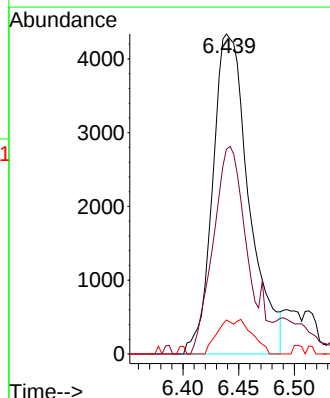
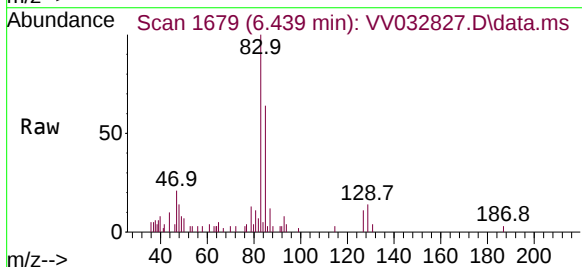
Tgt Ion: 83 Resp: 9817

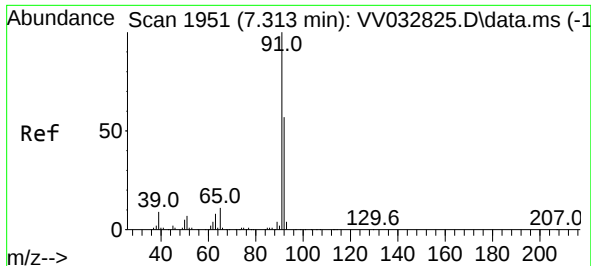
Ion Ratio Lower Upper

83 100

85 64.0 44.9 83.5

127 10.6 7.0 10.6#





#42

Toluene

Concen: 9.816 ug/L

RT: 7.317 min Scan# 1951

Delta R.T. 0.003 min

Lab File: VV032827.D

Acq: 01 Nov 2023 16:19

Instrument :

MSVOA_V

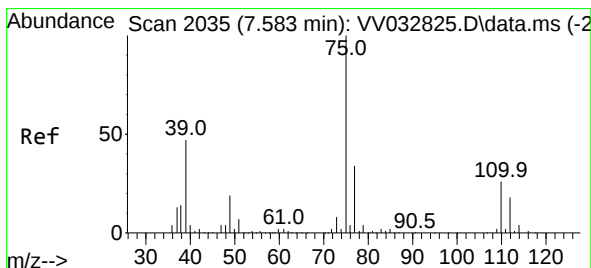
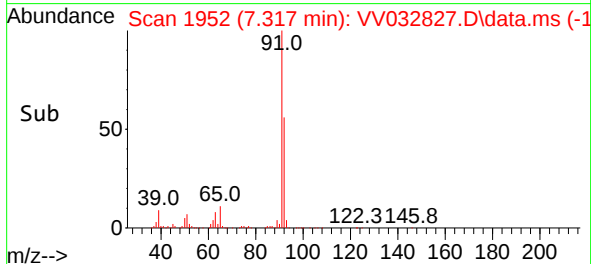
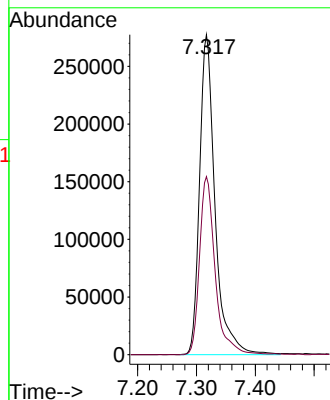
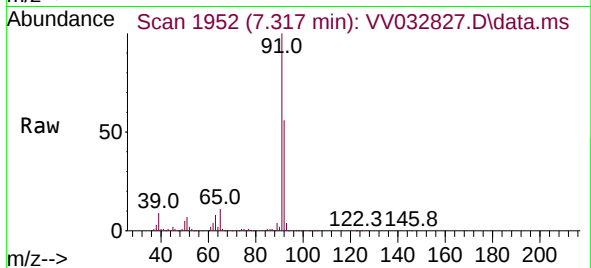
ClientSampleId :

Tgt Ion: 91 Resp: 506180

Ion Ratio Lower Upper

91 100

92 55.7 39.9 74.1



#44

trans-1,3-Dichloropropene

Concen: 0.080 ug/L

RT: 7.564 min Scan# 2029

Delta R.T. -0.019 min

Lab File: VV032827.D

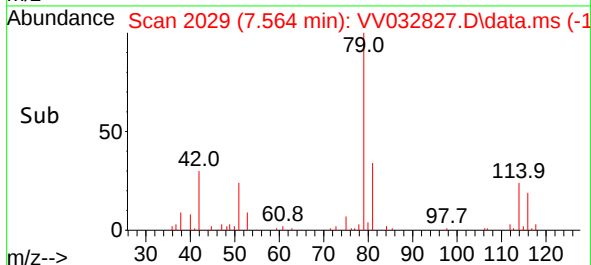
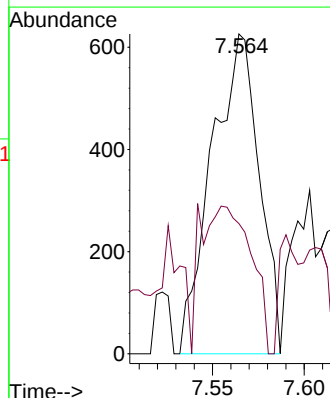
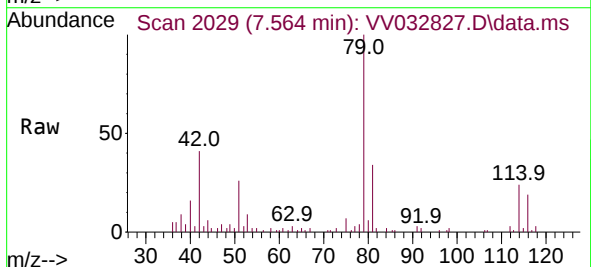
Acq: 01 Nov 2023 16:19

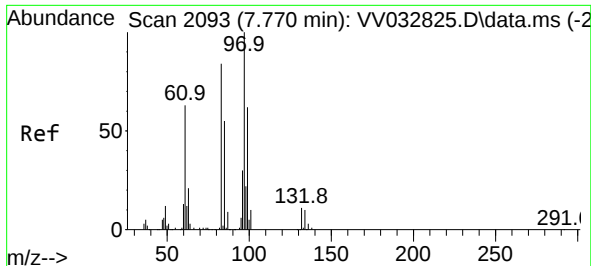
Tgt Ion: 75 Resp: 1125

Ion Ratio Lower Upper

75 100

77 40.7 23.4 43.4





#45

1,1,2-Trichloroethane

Concen: 13.428 ug/L

RT: 7.770 min Scan# 2093

Delta R.T. 0.000 min

Lab File: VV032827.D

Acq: 01 Nov 2023 16:19

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 97 Resp: 121459

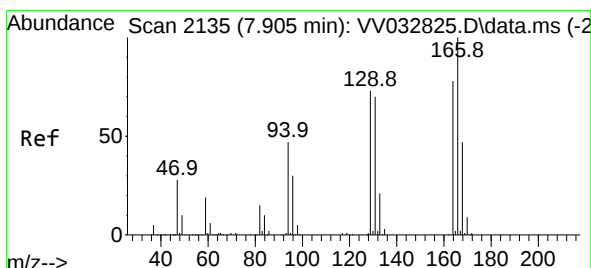
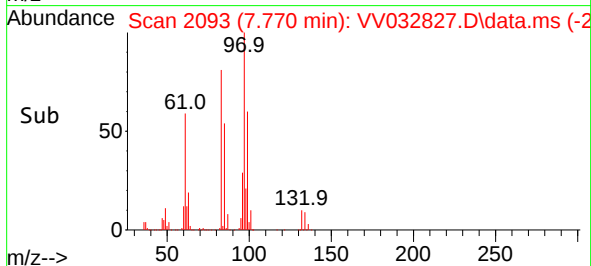
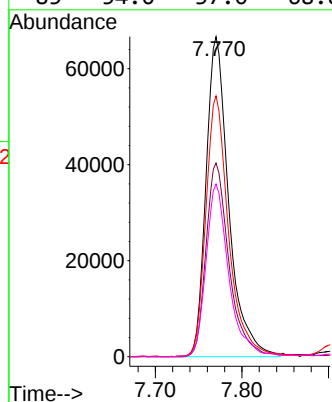
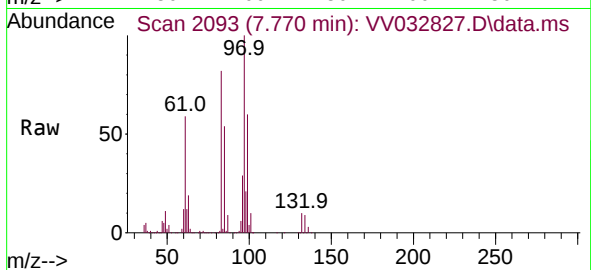
Ion Ratio Lower Upper

97 100

99 60.5 44.0 81.8

83 81.5 59.9 111.3

85 54.0 37.0 68.8



#47

Tetrachloroethene

Concen: 19.247 ug/L

RT: 7.905 min Scan# 2135

Delta R.T. 0.000 min

Lab File: VV032827.D

Acq: 01 Nov 2023 16:19

Tgt Ion:164 Resp: 201677

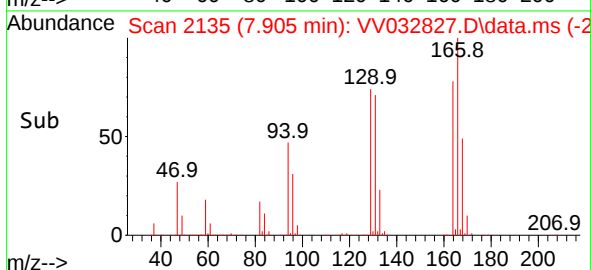
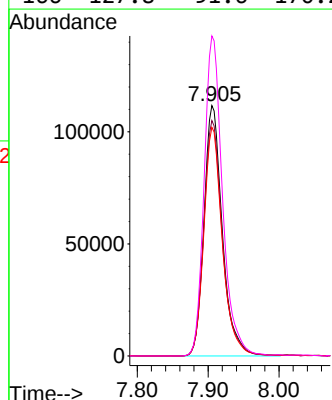
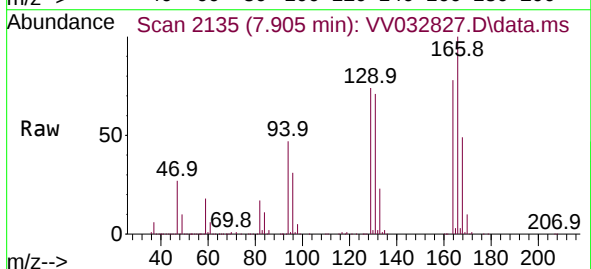
Ion Ratio Lower Upper

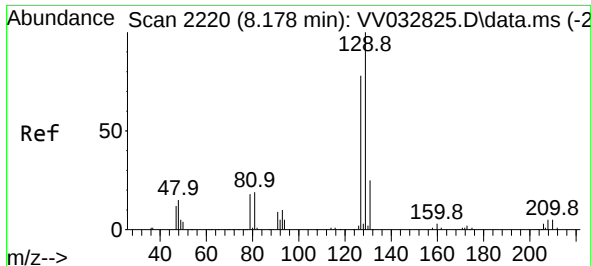
164 100

129 94.0 65.3 121.3

131 91.4 66.6 123.8

166 127.8 91.6 170.2





#49

Dibromochloromethane

Concen: 17.003 ug/L

RT: 7.905 min Scan# 2135

Delta R.T. -0.273 min

Lab File: VV032827.D

Acq: 01 Nov 2023 16:19

Instrument :

MSVOA_V

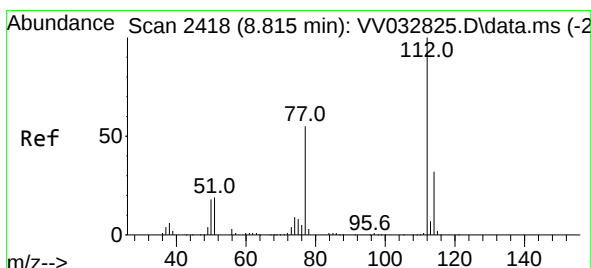
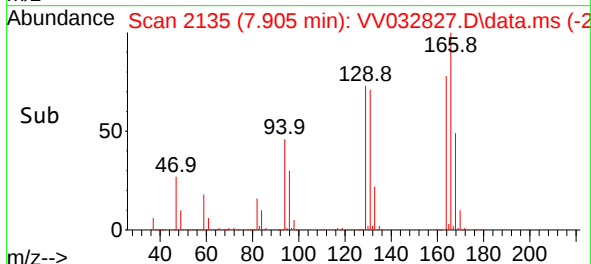
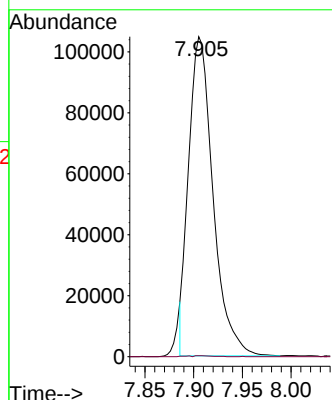
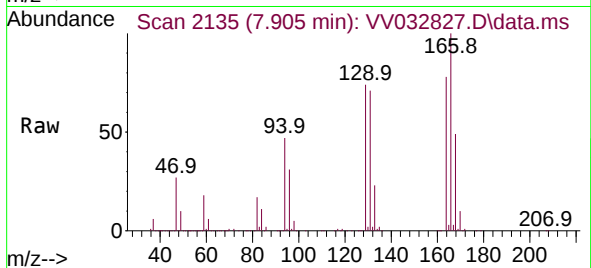
ClientSampleId :

Tgt Ion:129 Resp: 182435

Ion Ratio Lower Upper

129 100

127 0.3 54.0 100.4#



#51

Chlorobenzene

Concen: 13.831 ug/L

RT: 8.815 min Scan# 2418

Delta R.T. 0.000 min

Lab File: VV032827.D

Acq: 01 Nov 2023 16:19

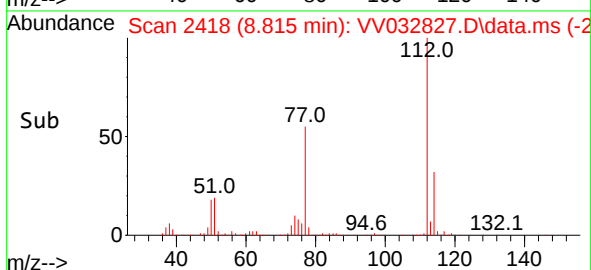
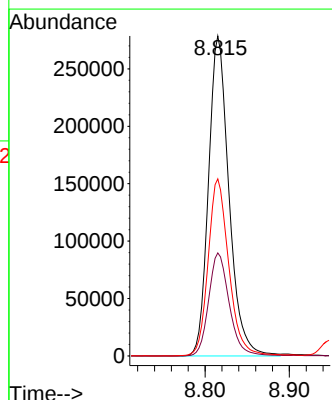
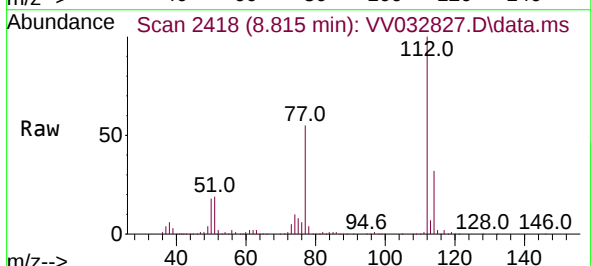
Tgt Ion:112 Resp: 471206

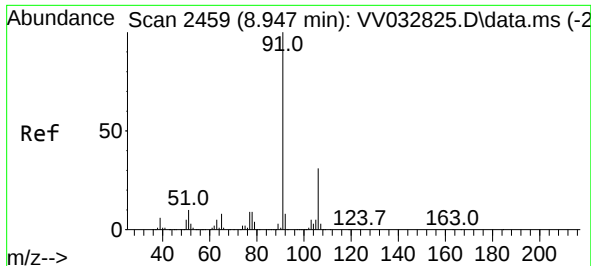
Ion Ratio Lower Upper

112 100

114 32.2 22.7 42.3

77 55.3 45.7 68.5





#52

Ethylbenzene

Concen: 4.404 ug/L

RT: 8.950 min Scan# 2459

Delta R.T. 0.003 min

Lab File: VV032827.D

Acq: 01 Nov 2023 16:19

Instrument :

MSVOA_V

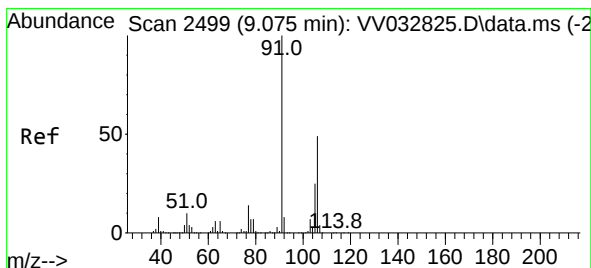
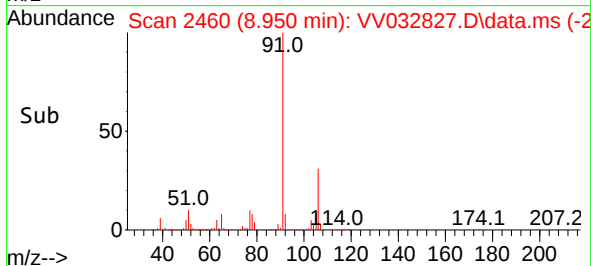
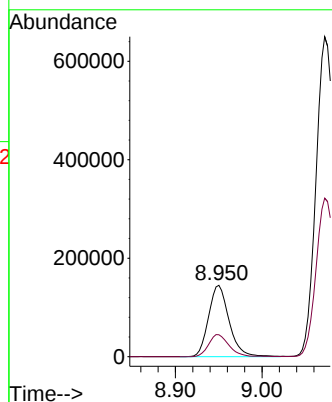
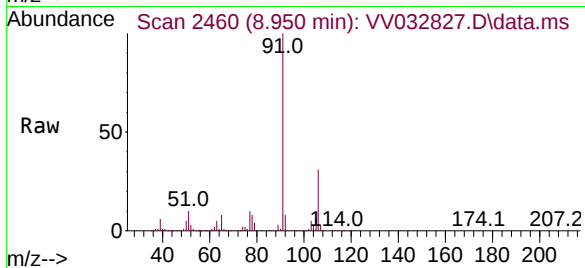
ClientSampleId :

Tgt Ion: 91 Resp: 238717

Ion Ratio Lower Upper

91 100

106 30.8 20.9 38.9



#53

m,p-Xylene

Concen: 25.411 ug/L

RT: 9.072 min Scan# 2498

Delta R.T. -0.003 min

Lab File: VV032827.D

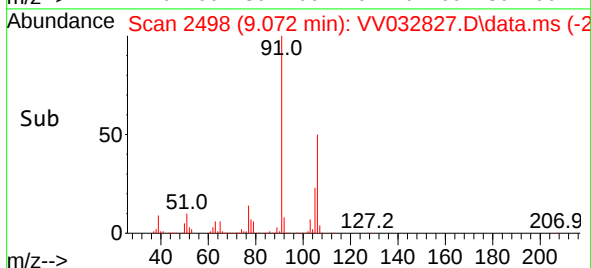
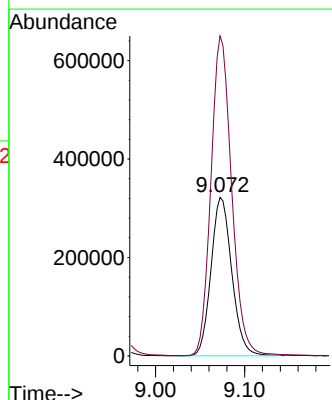
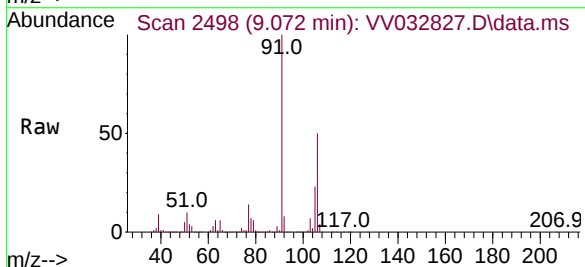
Acq: 01 Nov 2023 16:19

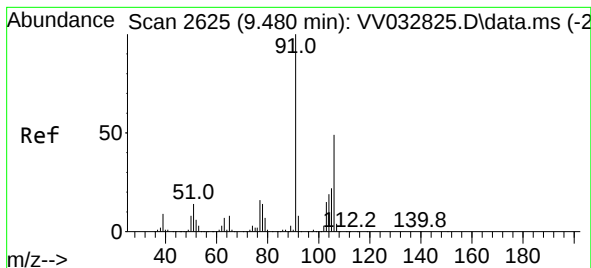
Tgt Ion:106 Resp: 521604

Ion Ratio Lower Upper

106 100

91 201.8 139.3 258.7





#54

o-Xylene

Concen: 7.326 ug/L

RT: 9.481 min Scan# 2625

Delta R.T. 0.000 min

Lab File: VV032827.D

Acq: 01 Nov 2023 16:19

Instrument :

MSVOA_V

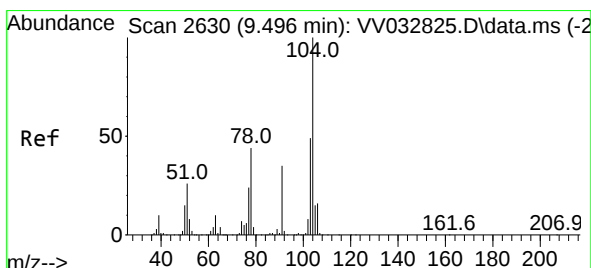
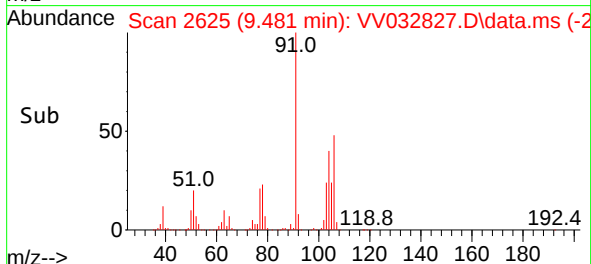
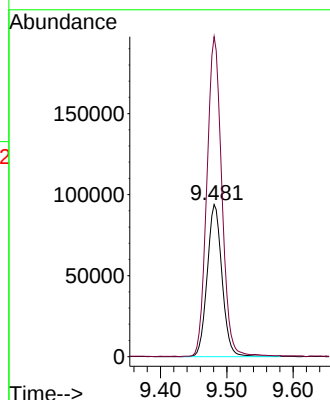
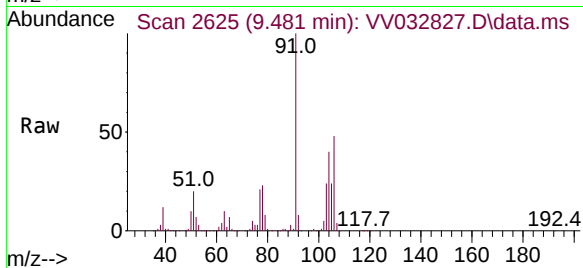
ClientSampleId :

Tgt Ion:106 Resp: 145871

Ion Ratio Lower Upper

106 100

91 210.4 147.4 273.8



#55

Styrene

Concen: 17.148 ug/L

RT: 9.497 min Scan# 2630

Delta R.T. 0.000 min

Lab File: VV032827.D

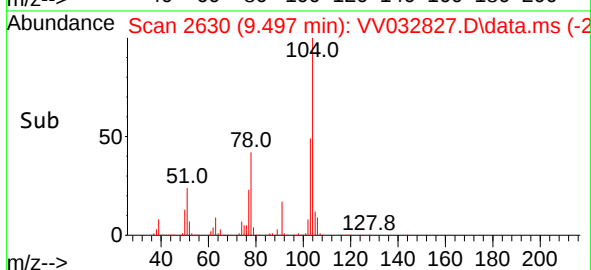
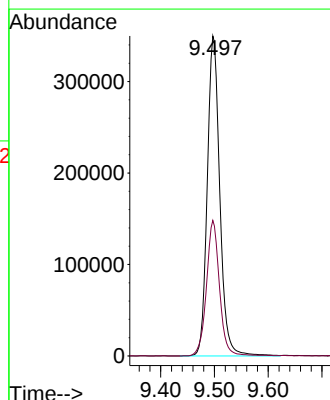
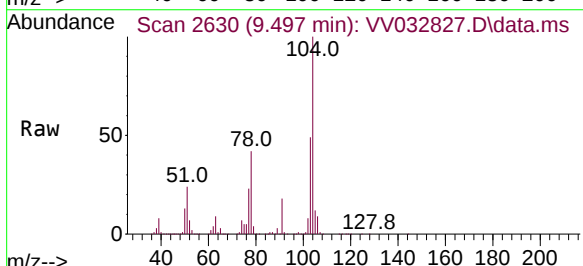
Acq: 01 Nov 2023 16:19

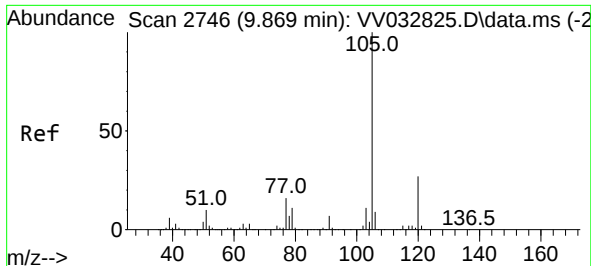
Tgt Ion:104 Resp: 565679

Ion Ratio Lower Upper

104 100

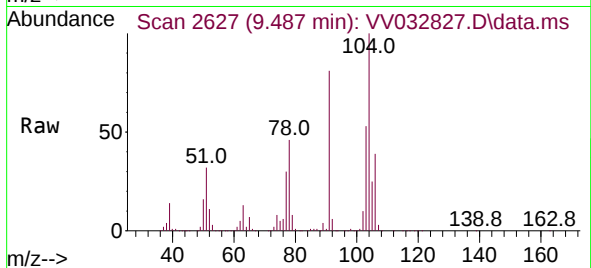
78 42.3 30.5 56.7



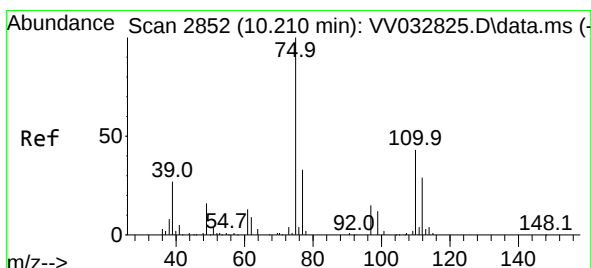
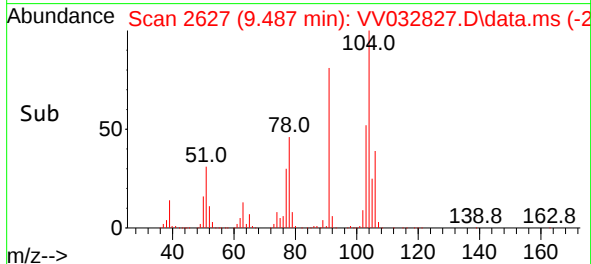
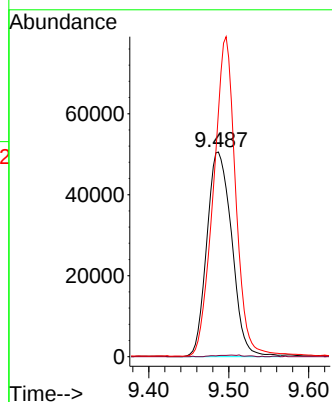


#60
Isopropylbenzene
Concen: 2.431 ug/L
RT: 9.487 min Scan# 2627
Delta R.T. -0.382 min
Lab File: VV032827.D
Acq: 01 Nov 2023 16:19

Instrument :
MSVOA_V
ClientSampleId :

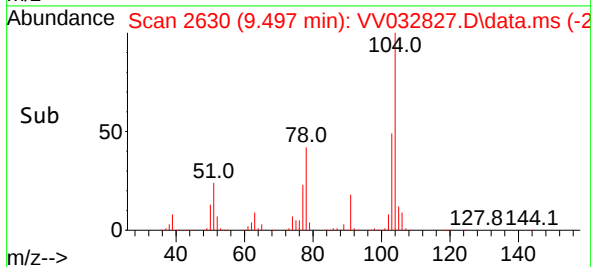
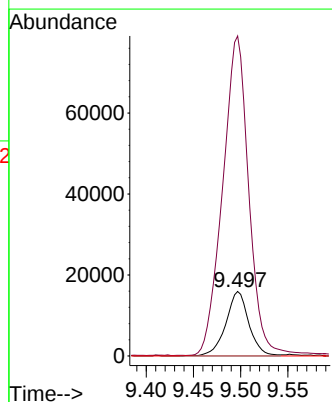
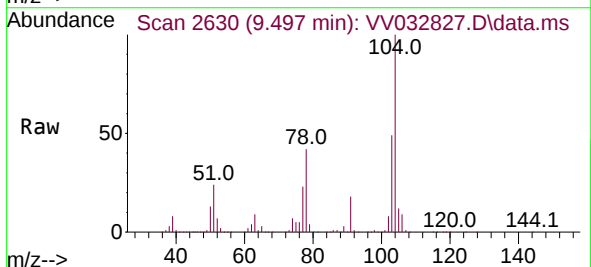


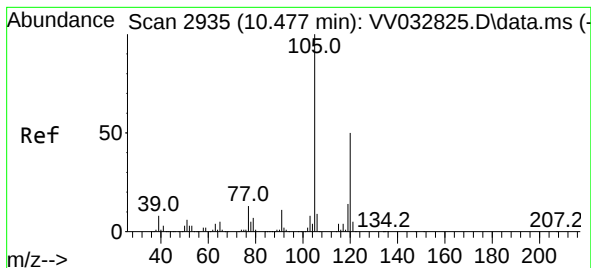
Tgt Ion:105 Resp: 109600
Ion Ratio Lower Upper
105 100
120 0.8 21.0 31.6#
77 138.9 12.6 19.0#



#61
1,2,3-Trichloropropane
Concen: 3.844 ug/L
RT: 9.497 min Scan# 2630
Delta R.T. -0.714 min
Lab File: VV032827.D
Acq: 01 Nov 2023 16:19

Tgt Ion: 75 Resp: 27012
Ion Ratio Lower Upper
75 100
77 563.6 24.5 36.7#
110 0.0 32.3 48.5#





#62

1,3,5-Trimethylbenzene

Concen: 2.973 ug/L

RT: 9.487 min Scan# 2

Delta R.T. -0.990 min

Lab File: VV032827.D

Acq: 01 Nov 2023 16:19

Instrument :

MSVOA_V

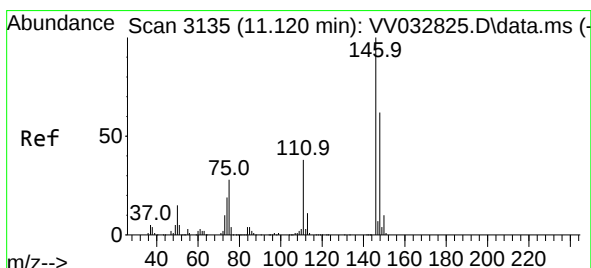
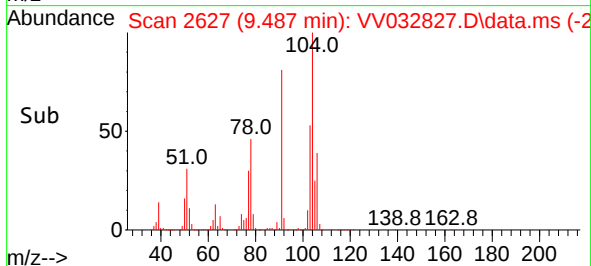
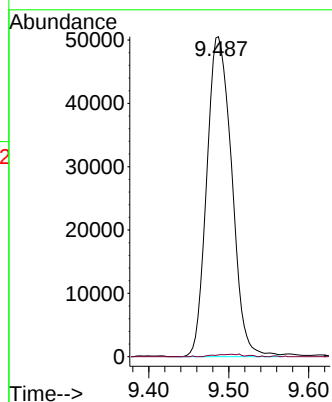
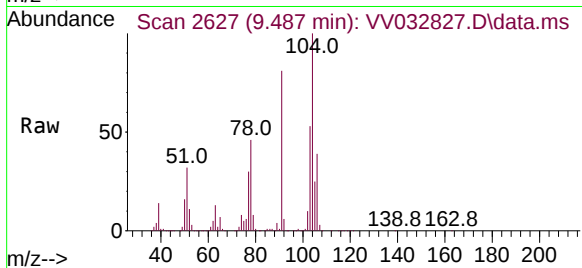
ClientSampleId :

Tgt Ion:105 Resp: 109600

Ion Ratio Lower Upper

105 100

120 0.8 39.4 59.2#



#64

1,3-Dichlorobenzene

Concen: 2.977 ug/L

RT: 11.211 min Scan# 3163

Delta R.T. 0.090 min

Lab File: VV032827.D

Acq: 01 Nov 2023 16:19

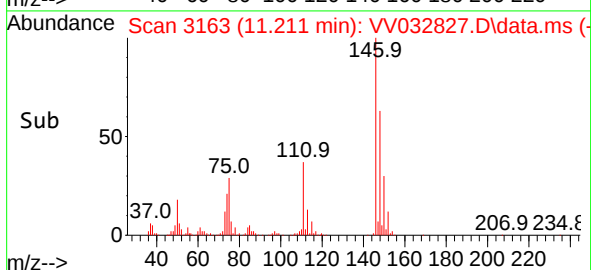
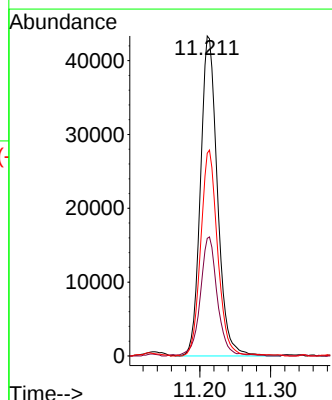
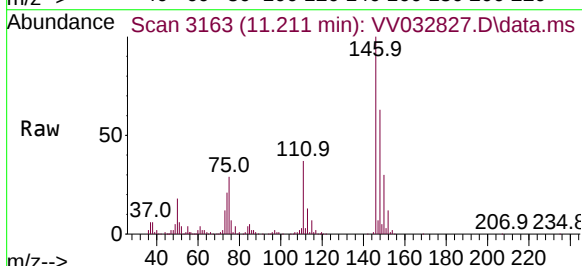
Tgt Ion:146 Resp: 72025

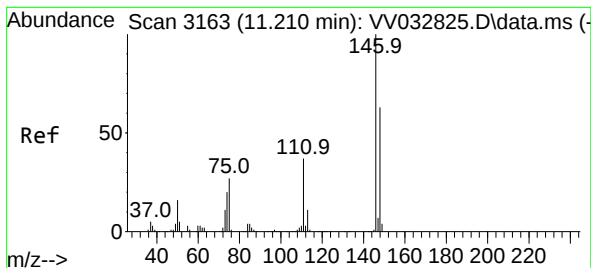
Ion Ratio Lower Upper

146 100

111 36.8 26.8 49.8

148 63.4 44.3 82.3





#65

1,4-Dichlorobenzene

Concen: 2.999 ug/L

RT: 11.211 min Scan# 3163

Delta R.T. 0.000 min

Lab File: VV032827.D

Acq: 01 Nov 2023 16:19

Instrument :

MSVOA_V

ClientSampleId :

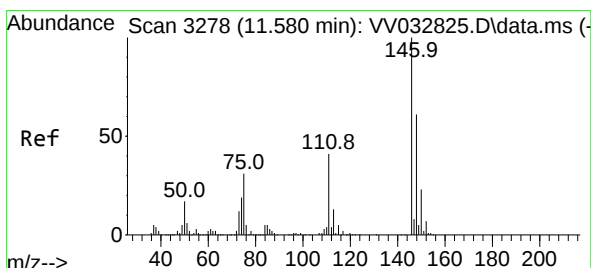
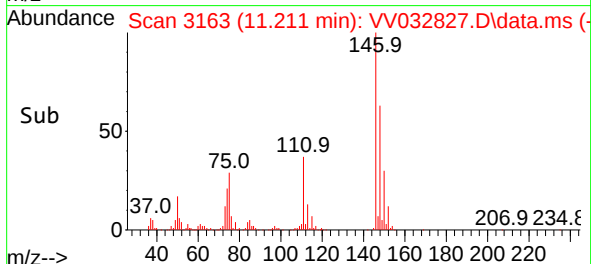
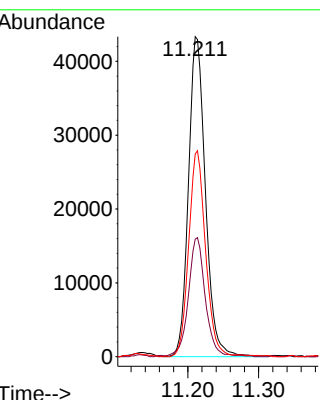
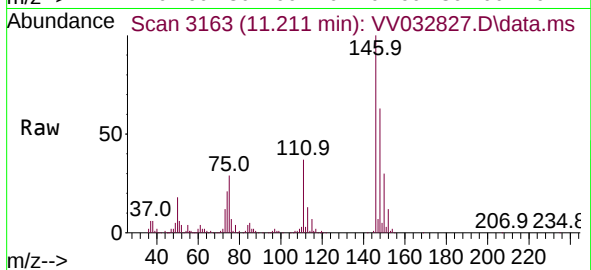
Tgt Ion:146 Resp: 72025

Ion Ratio Lower Upper

146 100

111 36.8 26.2 48.8

148 63.4 44.3 82.3



#67

1,2-Dichlorobenzene

Concen: 21.362 ug/L

RT: 11.580 min Scan# 3278

Delta R.T. 0.000 min

Lab File: VV032827.D

Acq: 01 Nov 2023 16:19

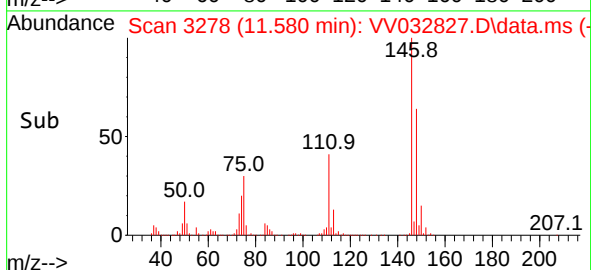
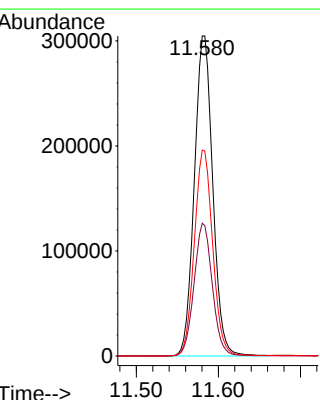
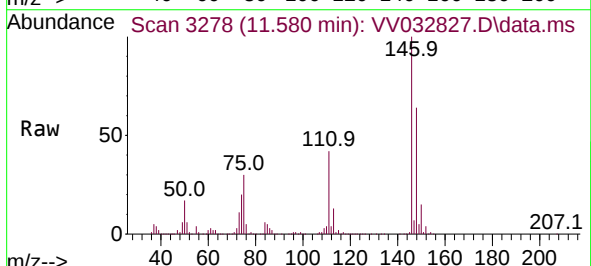
Tgt Ion:146 Resp: 475327

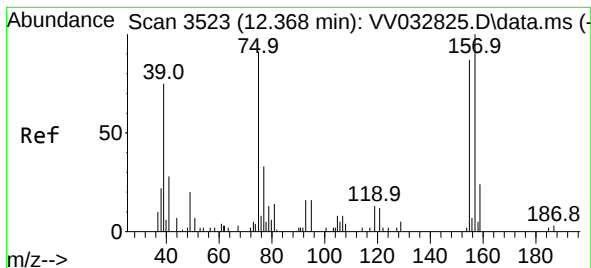
Ion Ratio Lower Upper

146 100

111 41.5 34.2 51.4

148 64.4 51.8 77.8

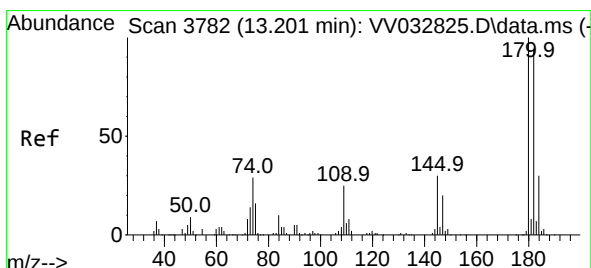
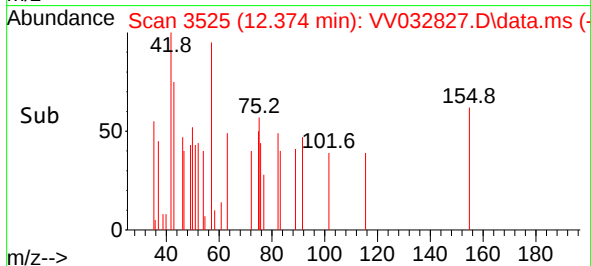
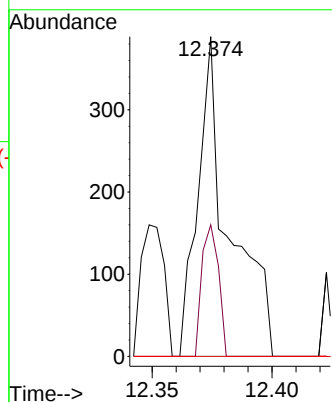
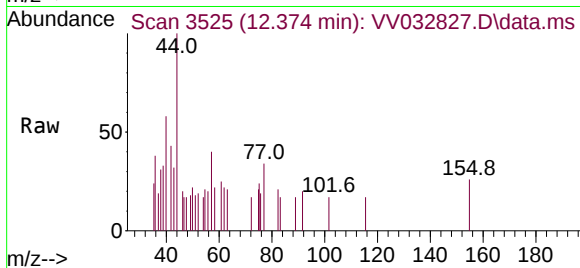




#68
 1,2-Dibromo-3-chloropropane
 Concen: 0.211 ug/L
 RT: 12.374 min Scan# 31
 Delta R.T. 0.007 min
 Lab File: VV032827.D
 Acq: 01 Nov 2023 16:19

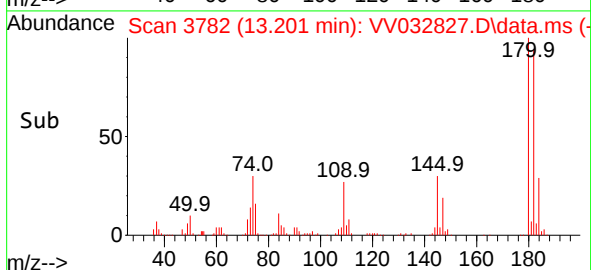
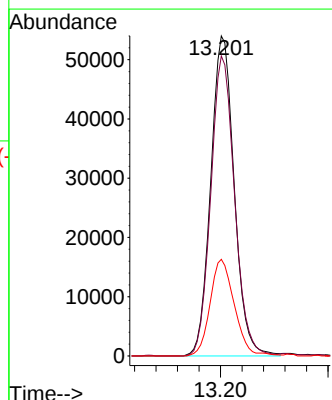
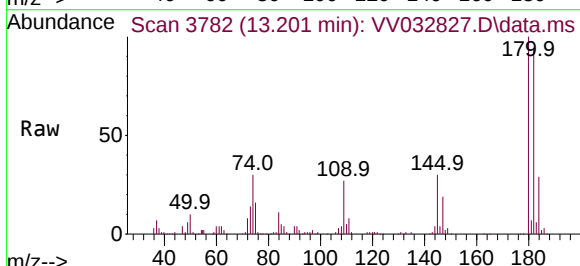
Instrument :
 MSVOA_V
 ClientSampleId :

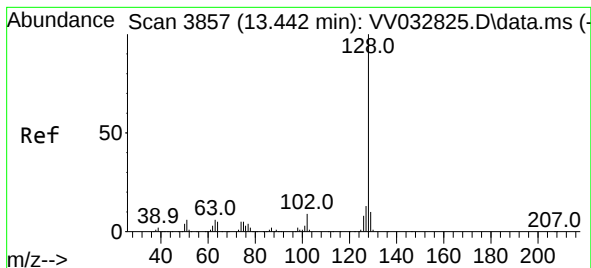
Tgt Ion: 75 Resp: 355
 Ion Ratio Lower Upper
 75 100
 155 41.1 70.1 105.1#
 157 0.0 90.2 135.2#



#70
 1,2,4-trichlorobenzene
 Concen: 5.597 ug/L
 RT: 13.201 min Scan# 3782
 Delta R.T. 0.000 min
 Lab File: VV032827.D
 Acq: 01 Nov 2023 16:19

Tgt Ion: 180 Resp: 82023
 Ion Ratio Lower Upper
 180 100
 182 94.5 75.7 113.5
 145 31.1 25.0 37.4





#71

Naphthalene

Concen: 0.137 ug/L

RT: 13.455 min Scan# 3861

Delta R.T. 0.013 min

Lab File: VV032827.D

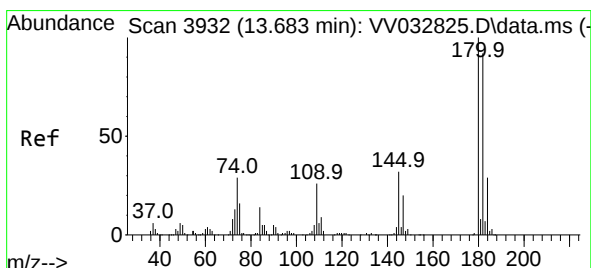
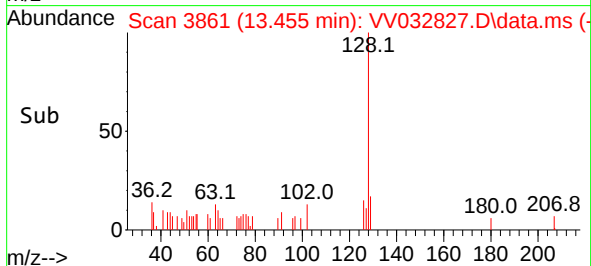
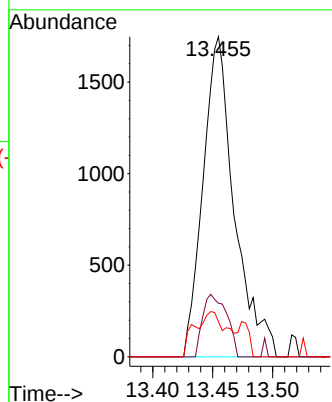
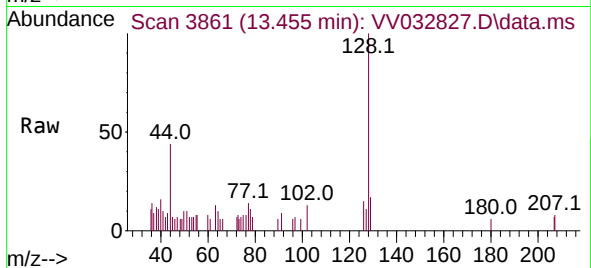
Acq: 01 Nov 2023 16:19

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion:128	Resp:	3171
Ion Ratio	Lower	Upper
128	100	
129	14.9	8.6 12.8#
127	14.0	10.4 15.6



#72

1,2,3-Trichlorobenzene

Concen: 0.085 ug/L

RT: 13.690 min Scan# 3934

Delta R.T. 0.007 min

Lab File: VV032827.D

Acq: 01 Nov 2023 16:19

Tgt Ion:180	Resp:	1096
Ion Ratio	Lower	Upper
180	100	
182	109.7	75.4 113.2
145	15.8	26.4 39.6#

