

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW022024\
 Data File : VW034267.D
 Acq On : 20 Feb 2024 14:05
 Operator : SY/MD
 Sample : P1503-01DL 2X
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Feb 21 01:44:09 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR012524WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Feb 21 01:41:15 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.535	114	74367	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.786	117	68398	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.185	152	33596	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.281	65	23043	4.001	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	80.000%
7) Chloroethane-d5	1.535	69	20049	3.974	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	79.400%
11) 1,1-Dichloroethene-d2	2.060	65	11718	4.219	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	84.400%
20) 2-Butanone-d5	3.812	46	42670	44.113	ug/L	-0.03
Spiked Amount	50.000	Range	40 - 130	Recovery	=	88.220%
24) Chloroform-d	4.249	84	47386	4.528	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.600%
26) 1,2-Dichloroethane-d4	4.947	65	24094	4.926	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.600%
32) Benzene-d6	4.960	84	90216	4.396	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.000%
36) 1,2-Dichloropropane-d6	5.992	67	24670	4.301	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	86.000%
41) Toluene-d8	7.243	98	82220	4.359	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.200%
43) trans-1,3-Dichloroprop...	7.561	79	7862	3.630	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	72.600%
46) 2-Hexanone-d5	8.030	63	32159	41.591	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	83.180%
56) 1,1,2,2-Tetrachloroeth...	10.152	84	15002	4.314	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	86.200%
66) 1,2-Dichlorobenzene-d4	11.561	152	28948	4.738	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	94.800%
Target Compounds						
					Qvalue	
3) Chloromethane	1.217	50	2411	0.324	ug/L	98
5) Vinyl chloride	1.285	62	17756	2.500	ug/L	97
8) Chloroethane	1.580	64	748	0.154	ug/L #	51
12) 1,1-Dichloroethene	2.069	96	51191	9.853	ug/L	87
16) Methylene chloride	2.449	84	40312	8.087	ug/L	92
18) trans-1,2-Dichloroethene	2.696	96	8705	1.645	ug/L	93
22) cis-1,2-Dichloroethene	3.815	96	14707	2.450	ug/L	89
27) 1,2-Dichloroethane	5.043	62	42000	7.463	ug/L	98
29) 1,1,1-Trichloroethane	4.510	97	94219	10.260	ug/L	99
31) Carbon tetrachloride	4.735	117	31439	3.913	ug/L	98
33) Benzene	5.008	78	144190	7.029	ug/L	100
34) Trichloroethene	5.831	95	31673	5.335	ug/L	98
35) Methylcyclohexane	5.989	83	6640	0.712	ug/L #	22
37) 1,2-Dichloropropane	6.095	63	28498	5.735	ug/L	99
42) Toluene	7.317	91	69414	3.166	ug/L	97
45) 1,1,2-Trichloroethane	7.770	97	25170	8.203	ug/L	97
47) Tetrachloroethene	7.905	164	40888	8.476	ug/L	99
49) Dibromochloromethane	7.902	129	37013	10.151	ug/L #	11
51) Chlorobenzene	8.812	112	87577	6.317	ug/L	99

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

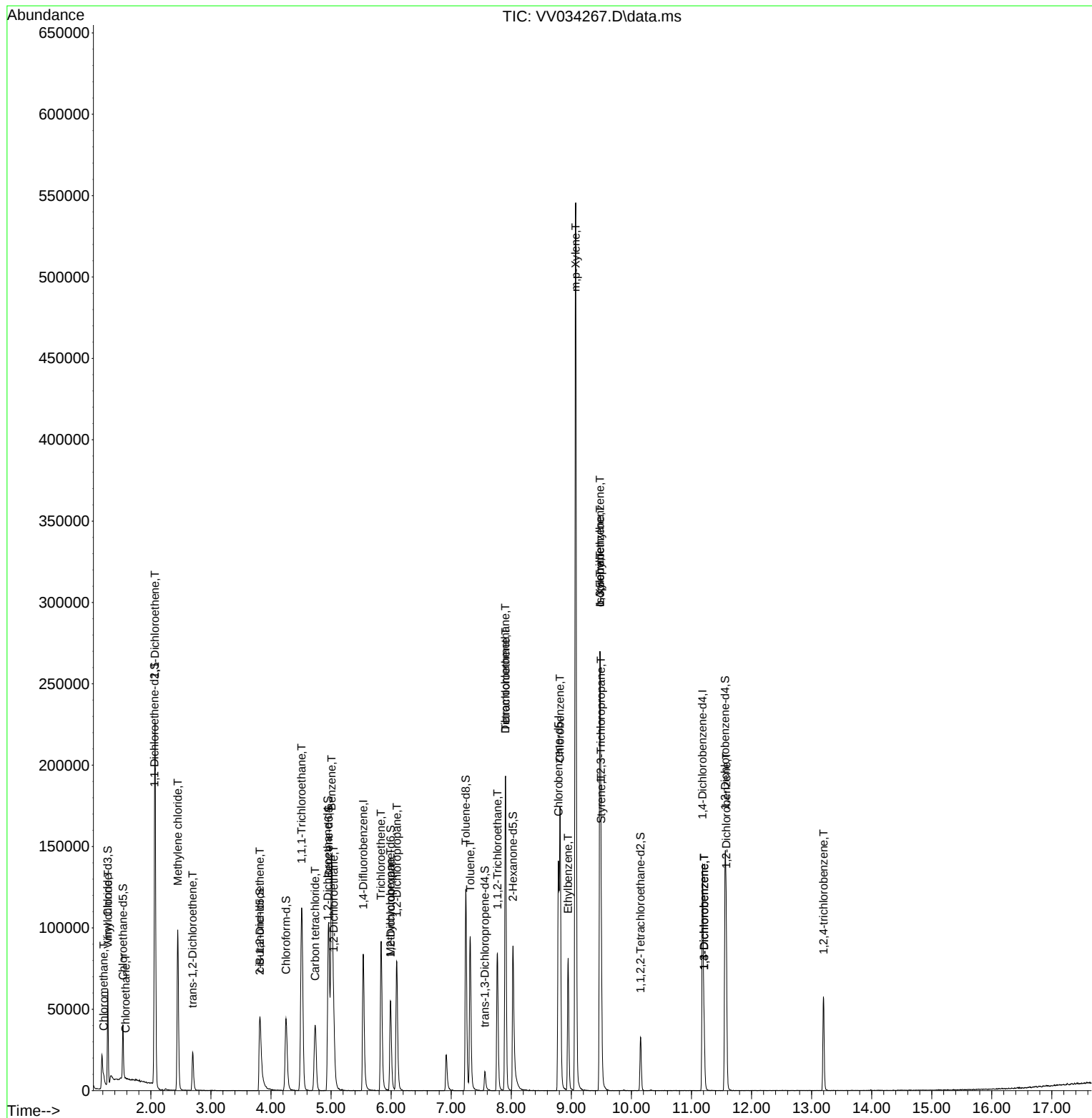
52) Ethylbenzene	8.947	91	55866	2.214	ug/L	97
53) m,p-Xylene	9.072	106	145664	15.273	ug/L	98
54) o-Xylene	9.477	106	63674	6.924	ug/L	100
55) Styrene	9.497	104	50725	3.445	ug/L	96
60) Isopropylbenzene	9.477	105	30449	1.225	ug/L #	1
61) 1,2,3-Trichloropropane	9.493	75	4482	1.941	ug/L #	1
62) 1,3,5-Trimethylbenzene	9.477	105	30449	1.449	ug/L #	29
64) 1,3-Dichlorobenzene	11.210	146	15123	1.395	ug/L	98
65) 1,4-Dichlorobenzene	11.210	146	15123	1.409	ug/L	99
67) 1,2-Dichlorobenzene	11.580	146	35756	3.841	ug/L	95
70) 1,2,4-trichlorobenzene	13.201	180	16704	2.551	ug/L	99

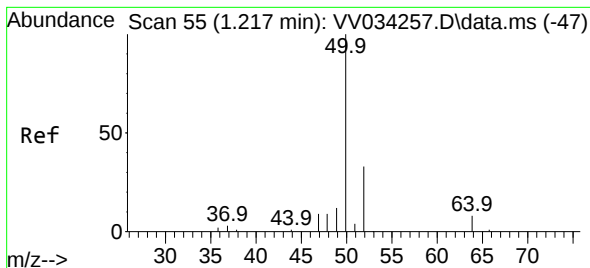
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.324 ug/L

RT: 1.217 min Scan# 51

Delta R.T. -0.000 min

Lab File: VV034267.D

Acq: 20 Feb 2024 14:05

Instrument :

MSVOA_V

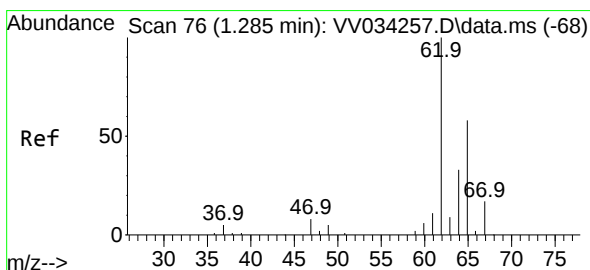
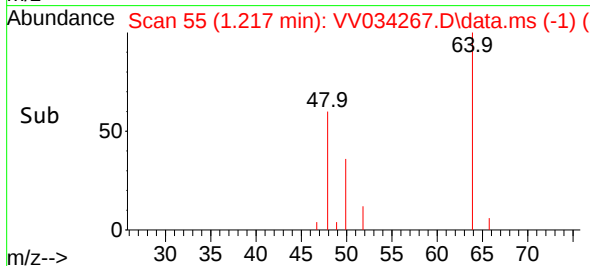
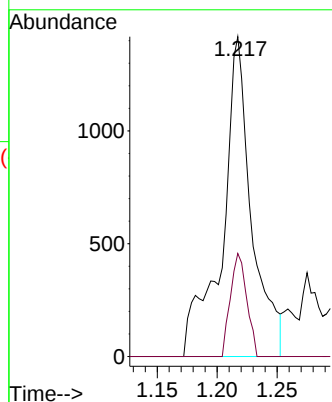
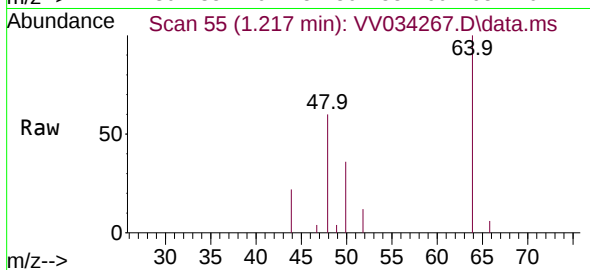
ClientSampleId :

Tgt Ion: 50 Resp: 2411

Ion Ratio Lower Upper

50 100

52 32.2 23.4 43.4



#5

Vinyl chloride

Concen: 2.500 ug/L

RT: 1.285 min Scan# 76

Delta R.T. -0.000 min

Lab File: VV034267.D

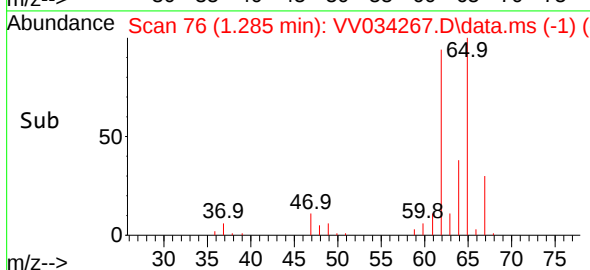
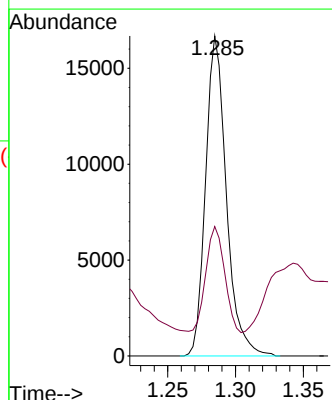
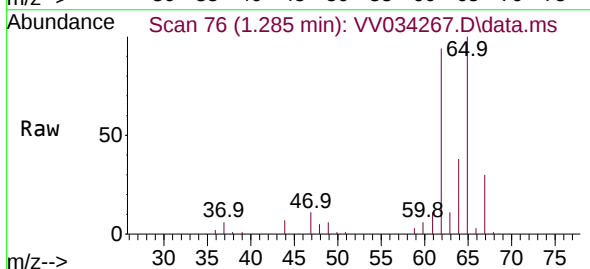
Acq: 20 Feb 2024 14:05

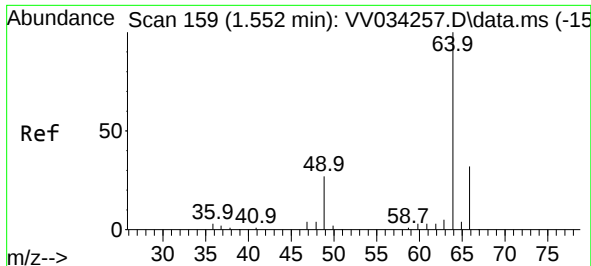
Tgt Ion: 62 Resp: 17756

Ion Ratio Lower Upper

62 100

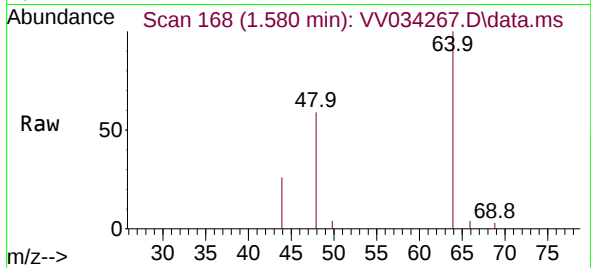
64 40.4 27.2 50.4



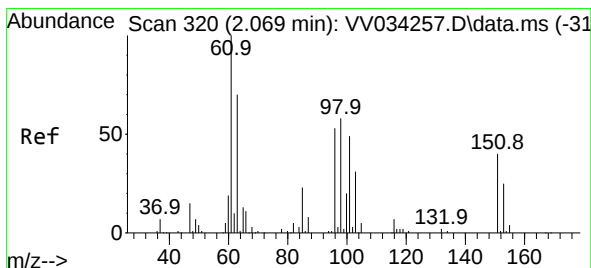
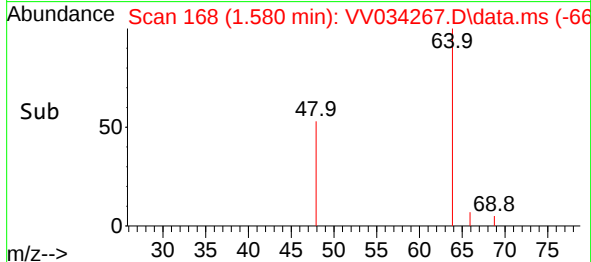
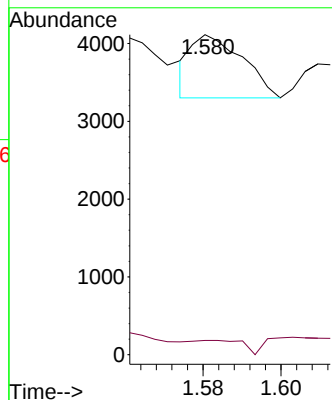


#8
Chloroethane
Concen: 0.154 ug/L
RT: 1.580 min Scan# 11
Delta R.T. 0.029 min
Lab File: VV034267.D
Acq: 20 Feb 2024 14:05

Instrument :
MSVOA_V
ClientSampleId :

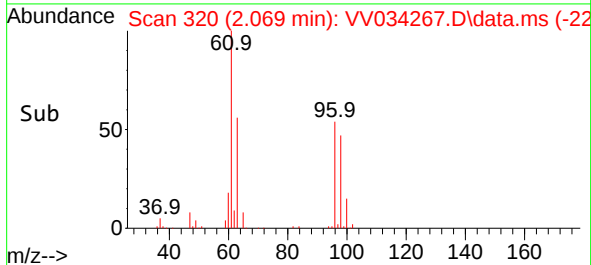
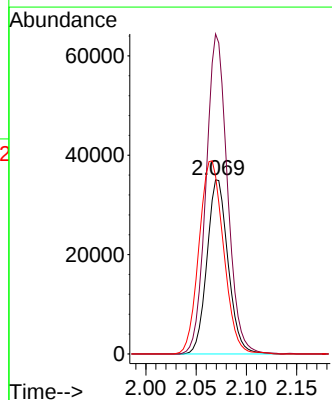
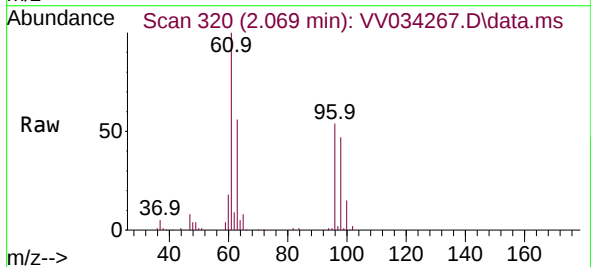


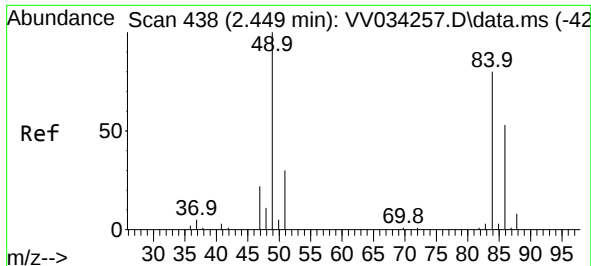
Tgt Ion: 64 Resp: 748
Ion Ratio Lower Upper
64 100
66 4.4 22.0 41.0#



#12
1,1-Dichloroethene
Concen: 9.853 ug/L
RT: 2.069 min Scan# 320
Delta R.T. -0.000 min
Lab File: VV034267.D
Acq: 20 Feb 2024 14:05

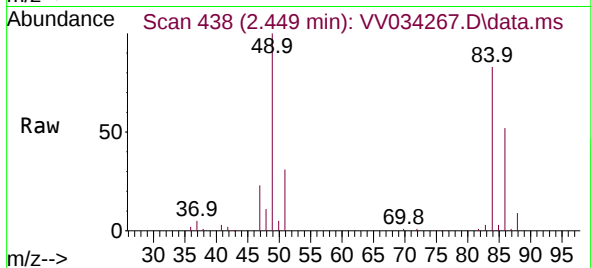
Tgt Ion: 96 Resp: 51191
Ion Ratio Lower Upper
96 100
61 183.8 128.8 239.2
63 102.2 97.9 181.9





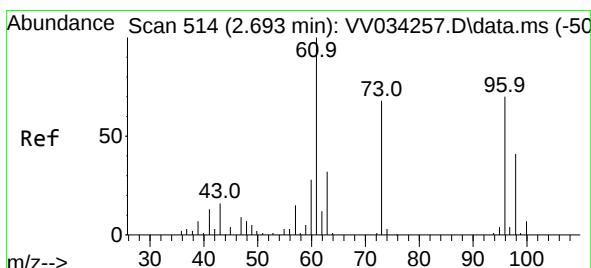
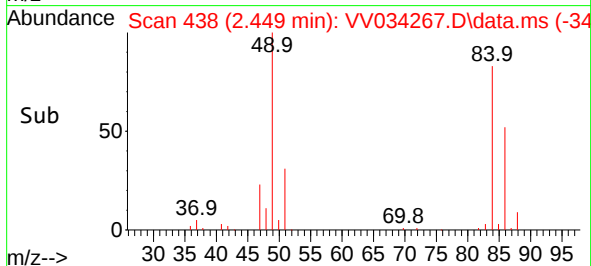
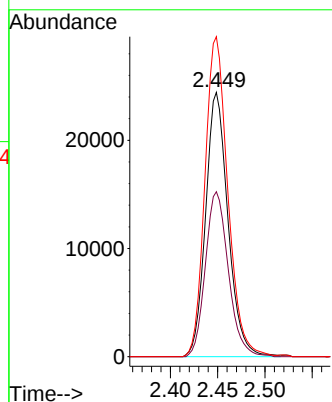
#16
Methylene chloride
Concen: 8.087 ug/L
RT: 2.449 min Scan# 41
Delta R.T. -0.000 min
Lab File: VV034267.D
Acq: 20 Feb 2024 14:05

Instrument :
MSVOA_V
ClientSampleId :



Tgt Ion: 84 Resp: 40312

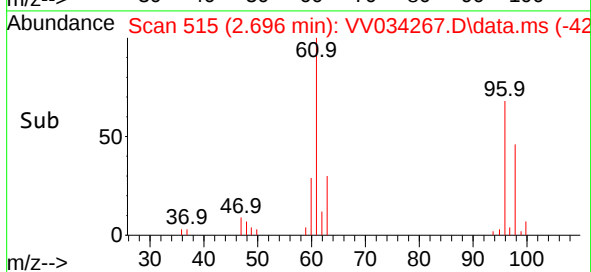
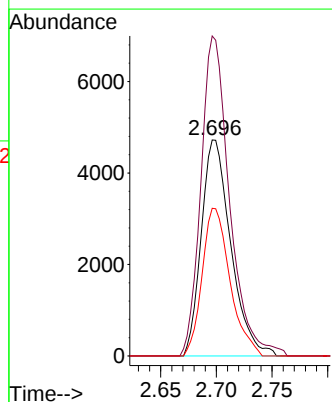
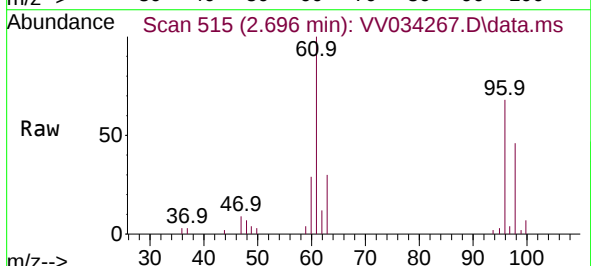
Ion	Ratio	Lower	Upper
84	100		
86	62.4	44.7	83.1
49	121.1	93.7	173.9

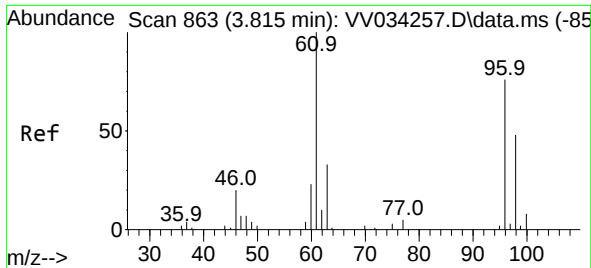


#18
trans-1,2-Dichloroethene
Concen: 1.645 ug/L
RT: 2.696 min Scan# 515
Delta R.T. 0.003 min
Lab File: VV034267.D
Acq: 20 Feb 2024 14:05

Tgt Ion: 96 Resp: 8705

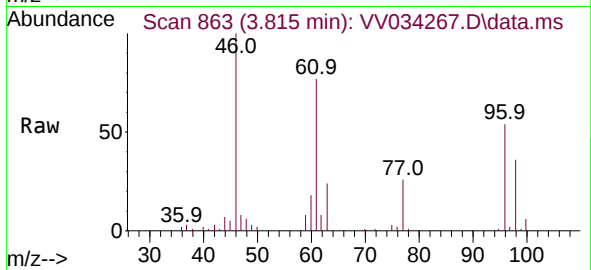
Ion	Ratio	Lower	Upper
96	100		
61	148.1	97.6	181.4
98	68.3	44.4	82.5



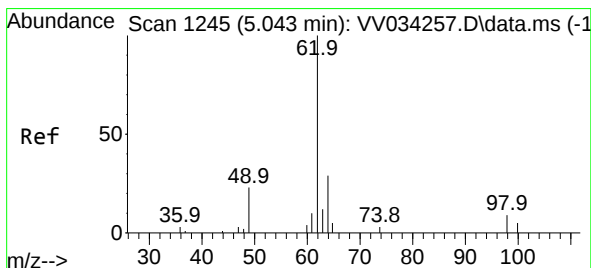
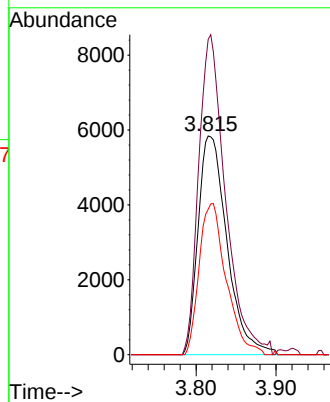
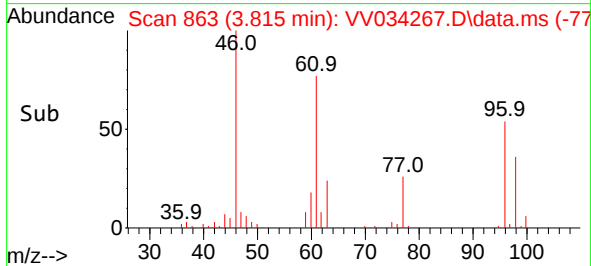


#22
 cis-1,2-Dichloroethene
 Concen: 2.450 ug/L
 RT: 3.815 min Scan# 863
 Delta R.T. -0.000 min
 Lab File: VV034267.D
 Acq: 20 Feb 2024 14:05

Instrument :
 MSVOA_V
 ClientSampleId :

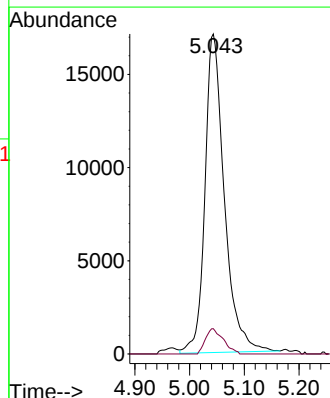
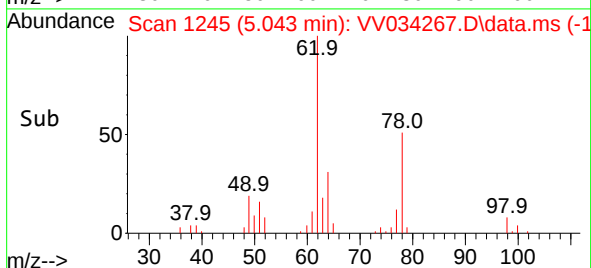
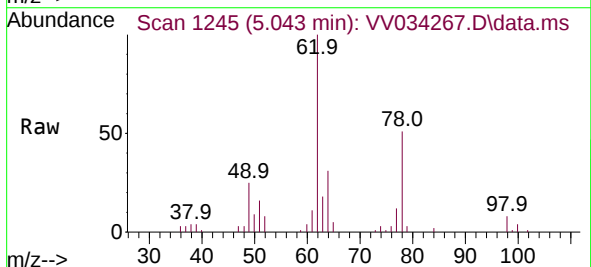


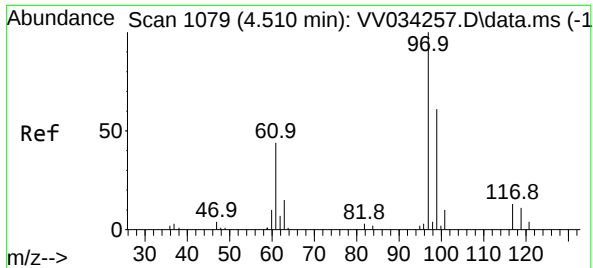
Tgt Ion: 96 Resp: 14707
 Ion Ratio Lower Upper
 96 100
 61 144.2 90.3 167.7
 98 66.6 43.2 80.2



#27
 1,2-Dichloroethane
 Concen: 7.463 ug/L
 RT: 5.043 min Scan# 1245
 Delta R.T. -0.000 min
 Lab File: VV034267.D
 Acq: 20 Feb 2024 14:05

Tgt Ion: 62 Resp: 42000
 Ion Ratio Lower Upper
 62 100
 98 7.9 6.9 10.3





#29

1,1,1-Trichloroethane

Concen: 10.260 ug/L

RT: 4.510 min Scan# 1107

Delta R.T. -0.000 min

Lab File: VV034267.D

Acq: 20 Feb 2024 14:05

Instrument :

MSVOA_V

ClientSampleId :

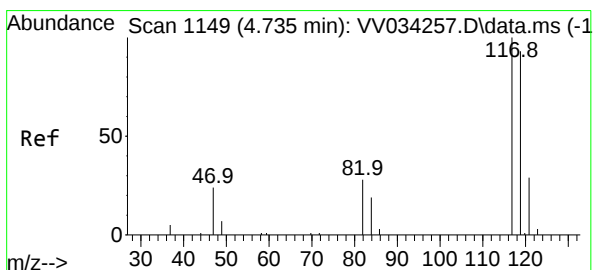
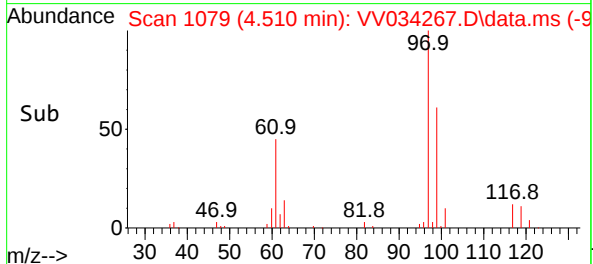
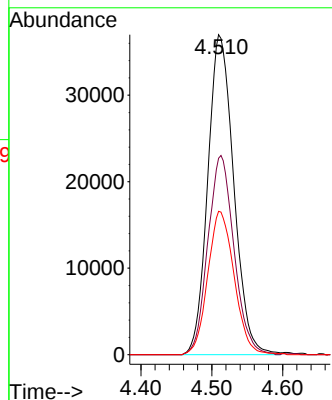
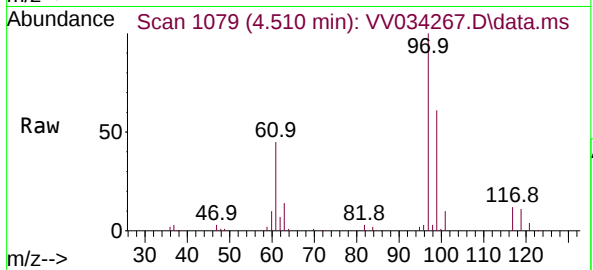
Tgt Ion: 97 Resp: 94219

Ion Ratio Lower Upper

97 100

99 62.7 50.6 75.8

61 45.7 36.8 55.2



#31

Carbon tetrachloride

Concen: 3.913 ug/L

RT: 4.735 min Scan# 1149

Delta R.T. -0.000 min

Lab File: VV034267.D

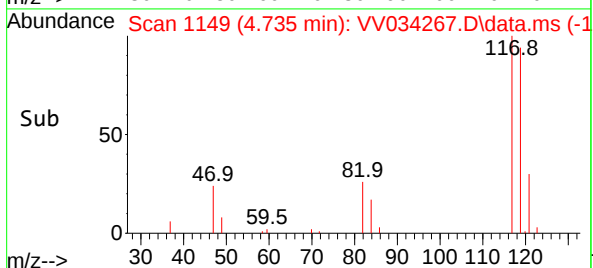
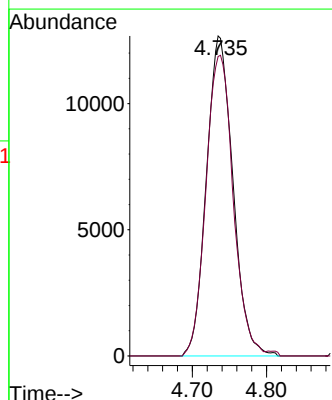
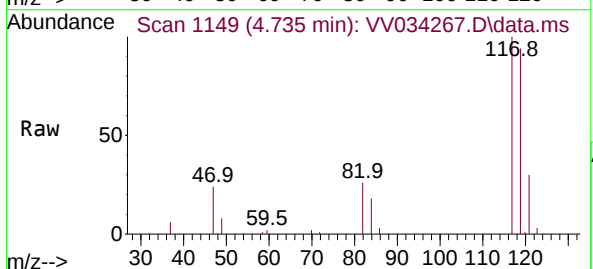
Acq: 20 Feb 2024 14:05

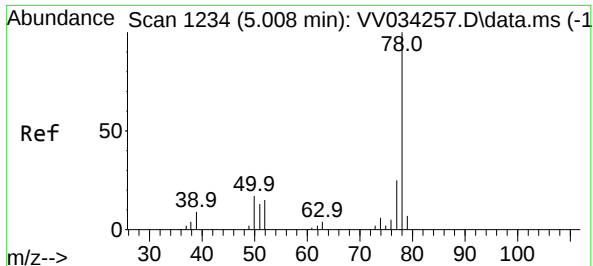
Tgt Ion:117 Resp: 31439

Ion Ratio Lower Upper

117 100

119 96.6 76.1 114.1

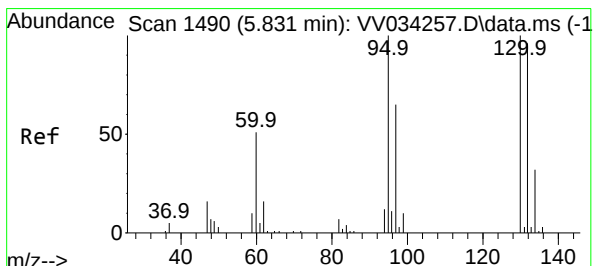
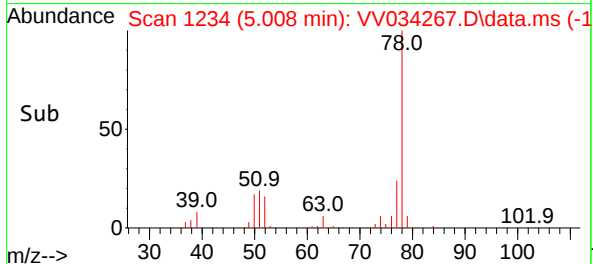
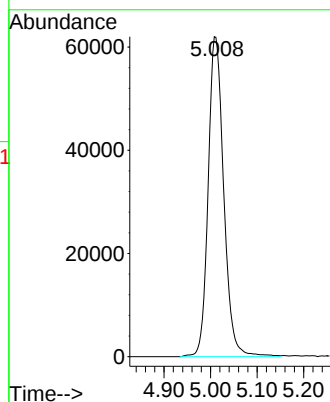
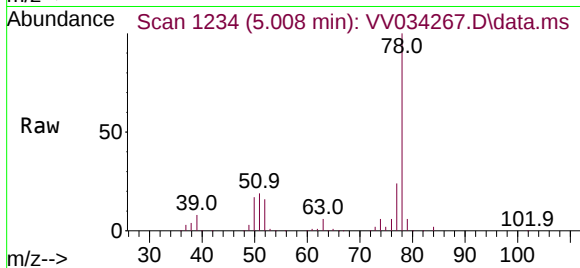




#33
Benzene
Concen: 7.029 ug/L
RT: 5.008 min Scan# 11
Delta R.T. -0.000 min
Lab File: VV034267.D
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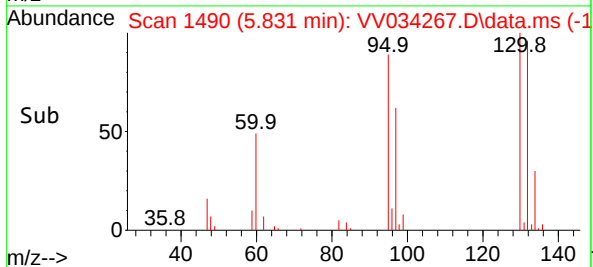
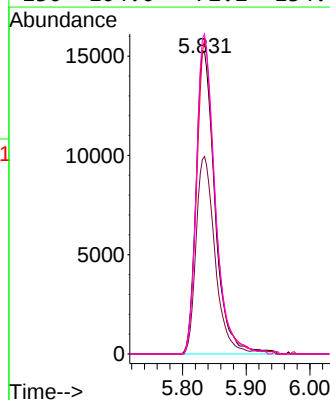
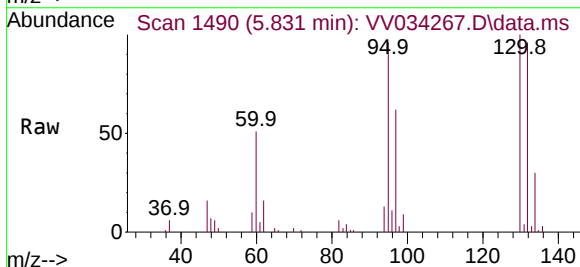
Tgt Ion: 78 Resp: 144190

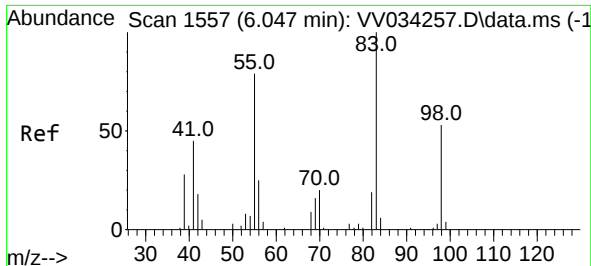


#34
Trichloroethene
Concen: 5.335 ug/L
RT: 5.831 min Scan# 1490
Delta R.T. -0.000 min
Lab File: VV034267.D
Acq: 20 Feb 2024 14:05

Tgt Ion: 95 Resp: 31673

Ion	Ratio	Lower	Upper
95	100		
97	64.2	45.1	83.7
132	99.5	66.0	122.6
130	104.0	72.2	134.0

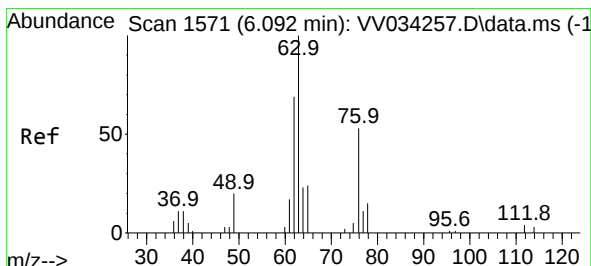
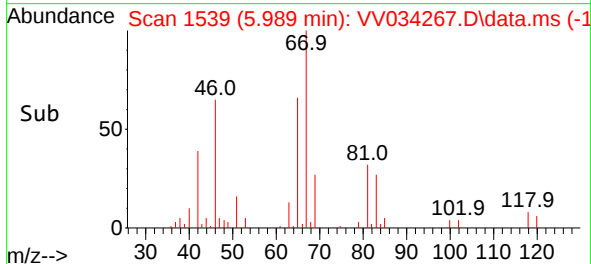
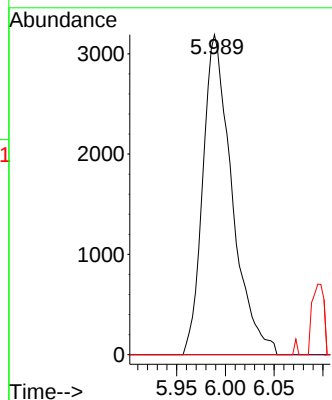
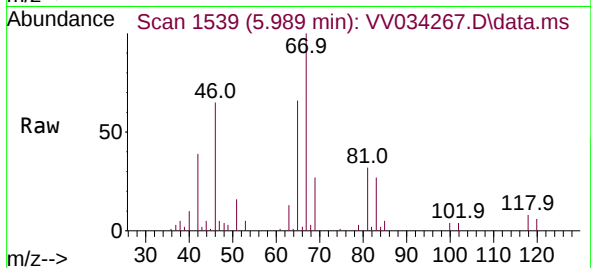




#35
Methylcyclohexane
Concen: 0.712 ug/L
RT: 5.989 min Scan# 1539
Delta R.T. -0.058 min
Lab File: VV034267.D
Acq: 20 Feb 2024 14:05

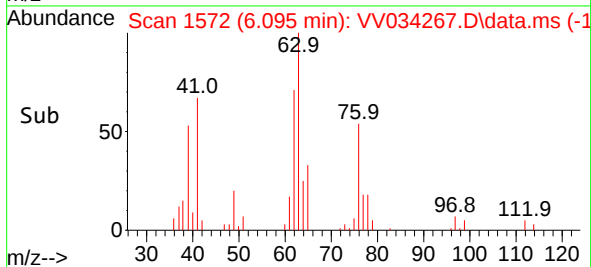
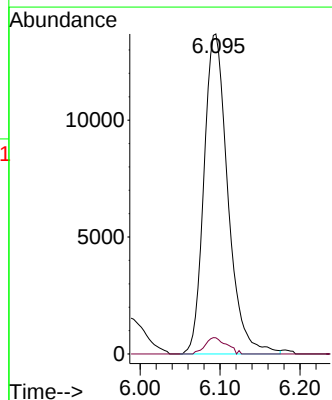
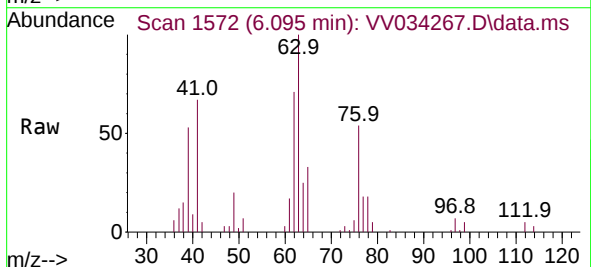
Instrument :
MSVOA_V
ClientSampleId :

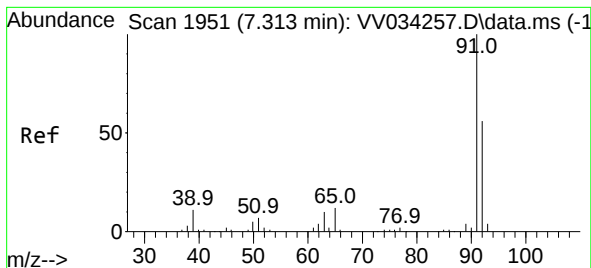
Tgt Ion: 83 Resp: 6640
Ion Ratio Lower Upper
83 100
55 0.0 63.5 95.3#
98 8.9 39.0 58.4#



#37
1,2-Dichloropropane
Concen: 5.735 ug/L
RT: 6.095 min Scan# 1572
Delta R.T. 0.003 min
Lab File: VV034267.D
Acq: 20 Feb 2024 14:05

Tgt Ion: 63 Resp: 28498
Ion Ratio Lower Upper
63 100
112 4.6 3.4 5.0





#42

Toluene

Concen: 3.166 ug/L

RT: 7.317 min Scan# 1951

Delta R.T. 0.003 min

Lab File: VV034267.D

Acq: 20 Feb 2024 14:05

Instrument :

MSVOA_V

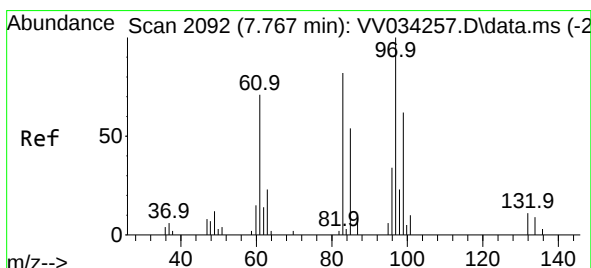
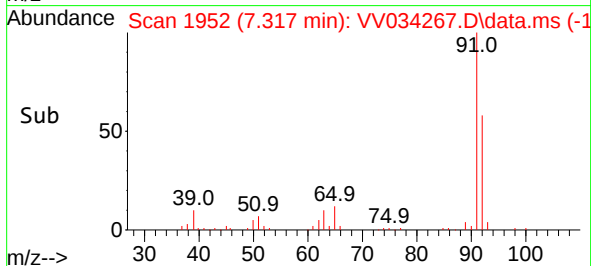
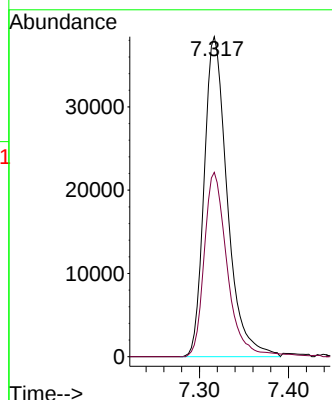
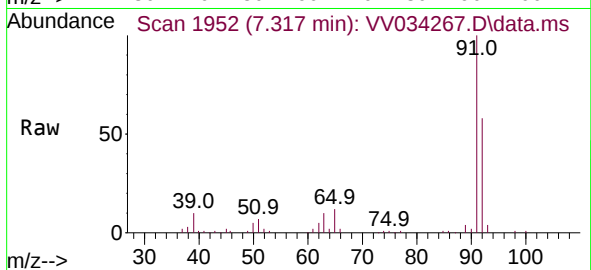
ClientSampleId :

Tgt Ion: 91 Resp: 69414

Ion Ratio Lower Upper

91 100

92 57.6 42.1 78.3



#45

1,1,2-Trichloroethane

Concen: 8.203 ug/L

RT: 7.770 min Scan# 2093

Delta R.T. 0.003 min

Lab File: VV034267.D

Acq: 20 Feb 2024 14:05

Tgt Ion: 97 Resp: 25170

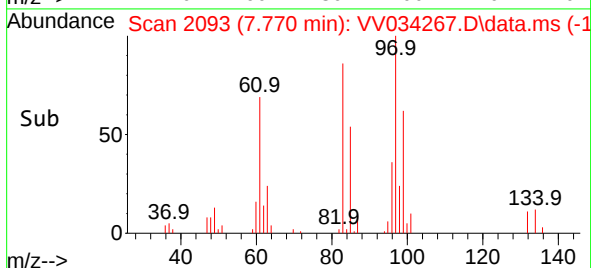
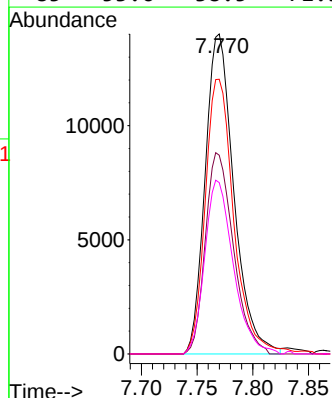
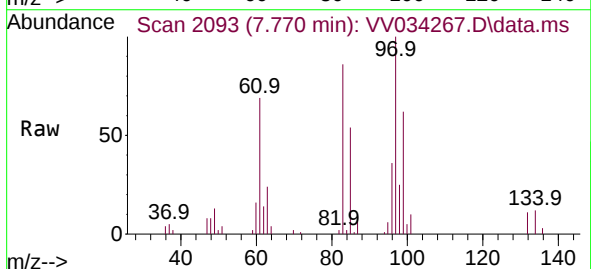
Ion Ratio Lower Upper

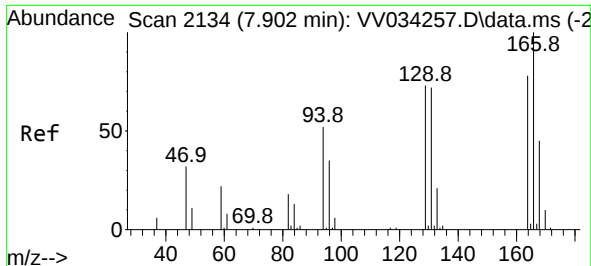
97 100

99 62.1 45.6 84.6

83 85.8 62.3 115.7

85 53.6 38.5 71.5





#47

Tetrachloroethene

Concen: 8.476 ug/L

RT: 7.905 min Scan# 2134

Delta R.T. 0.003 min

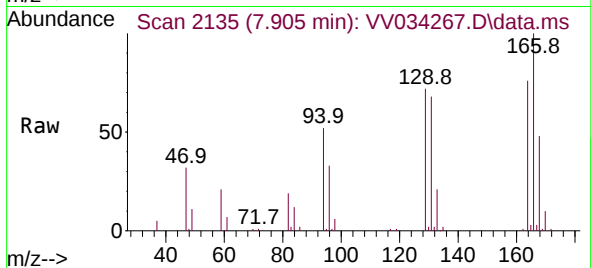
Lab File: VV034267.D

Acq: 20 Feb 2024 14:05

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion:164 Resp: 40888

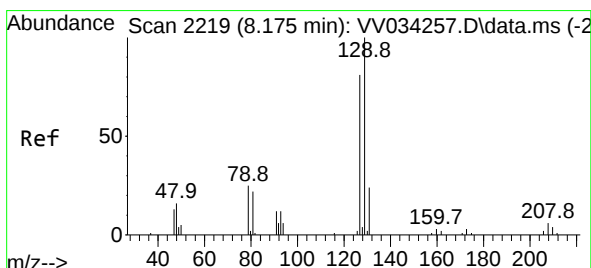
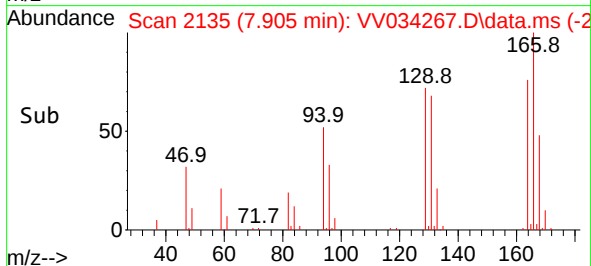
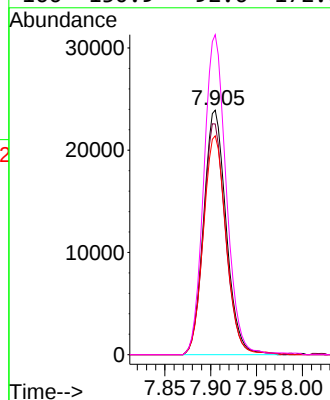
Ion Ratio Lower Upper

164 100

129 94.4 67.8 125.8

131 89.6 63.0 117.0

166 130.9 92.6 172.0



#49

Dibromochloromethane

Concen: 10.151 ug/L

RT: 7.902 min Scan# 2134

Delta R.T. -0.273 min

Lab File: VV034267.D

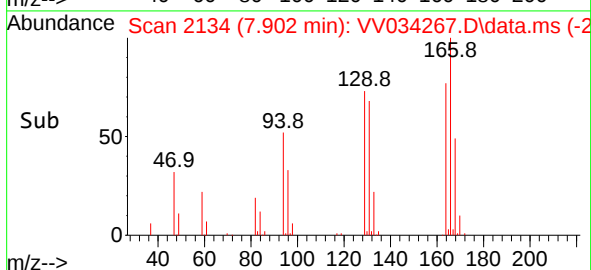
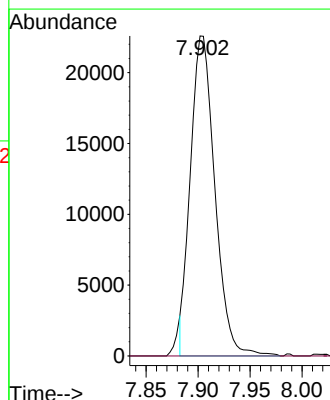
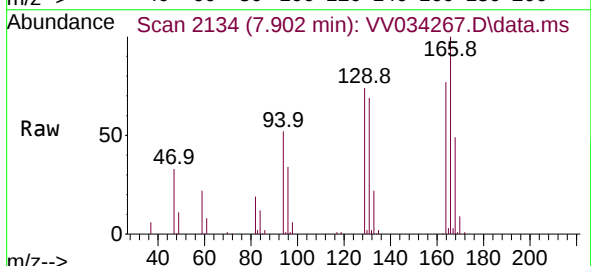
Acq: 20 Feb 2024 14:05

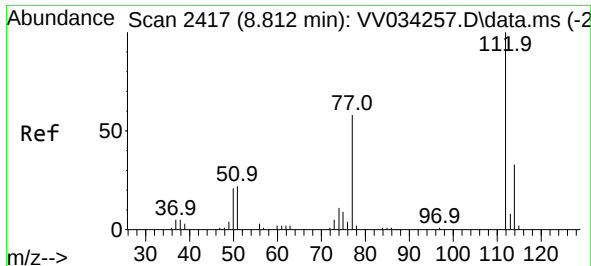
Tgt Ion:129 Resp: 37013

Ion Ratio Lower Upper

129 100

127 0.0 53.5 99.5#

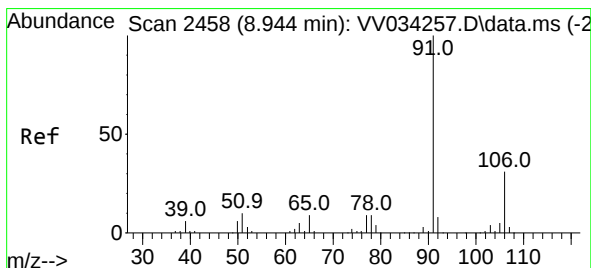
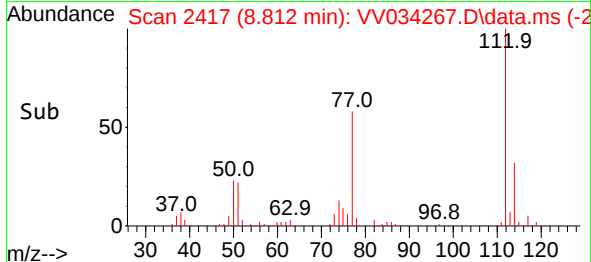
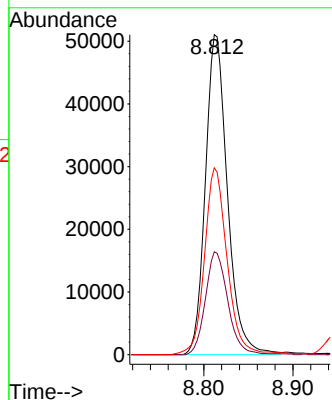
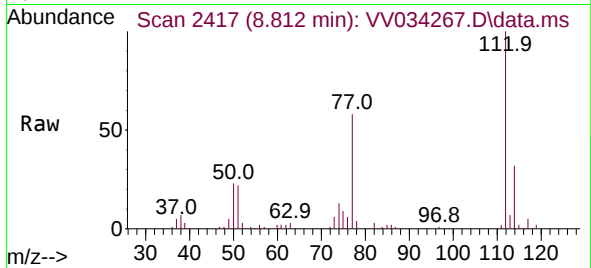




#51
Chlorobenzene
Concen: 6.317 ug/L
RT: 8.812 min Scan# 2417
Delta R.T. -0.000 min
Lab File: VV034267.D
Acq: 20 Feb 2024 14:05

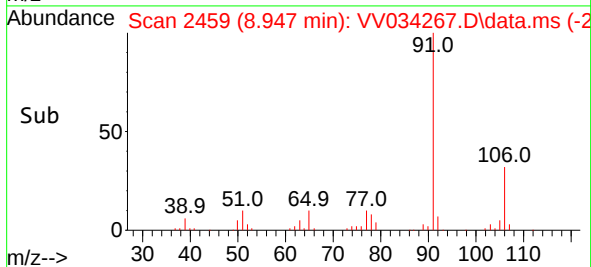
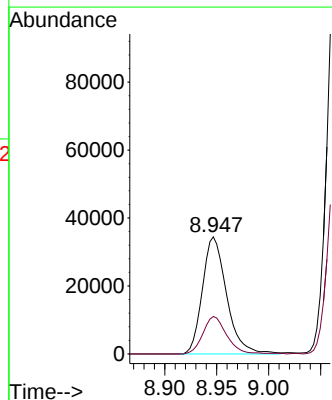
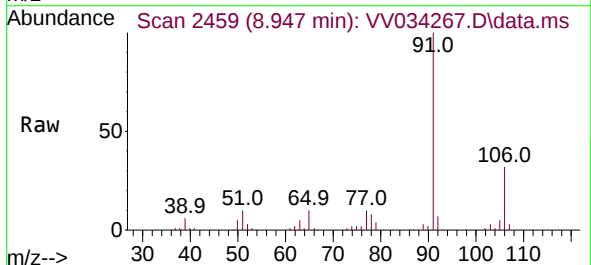
Instrument :
MSVOA_V
ClientSampleId :

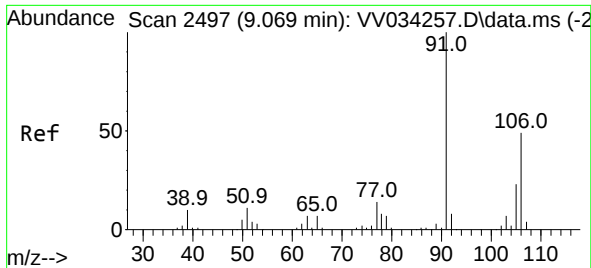
Tgt Ion:112 Resp: 87577
Ion Ratio Lower Upper
112 100
114 32.1 22.5 41.7
77 58.4 48.1 72.1



#52
Ethylbenzene
Concen: 2.214 ug/L
RT: 8.947 min Scan# 2459
Delta R.T. 0.003 min
Lab File: VV034267.D
Acq: 20 Feb 2024 14:05

Tgt Ion: 91 Resp: 55866
Ion Ratio Lower Upper
91 100
106 32.0 21.4 39.8

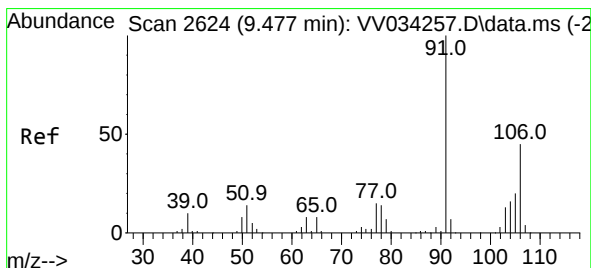
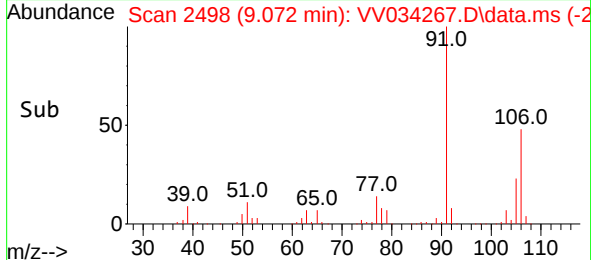
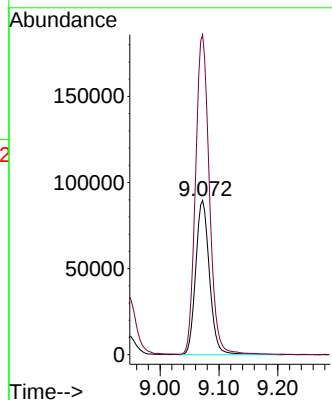
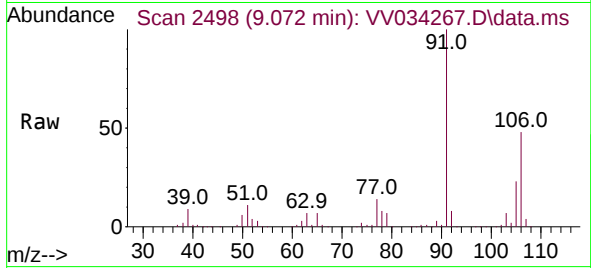




#53
m,p-Xylene
Concen: 15.273 ug/L
RT: 9.072 min Scan# 2497
Delta R.T. 0.003 min
Lab File: VV034267.D
Acq: 20 Feb 2024 14:05

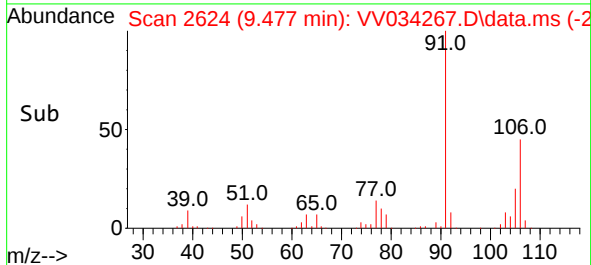
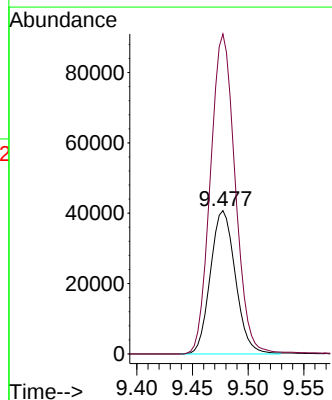
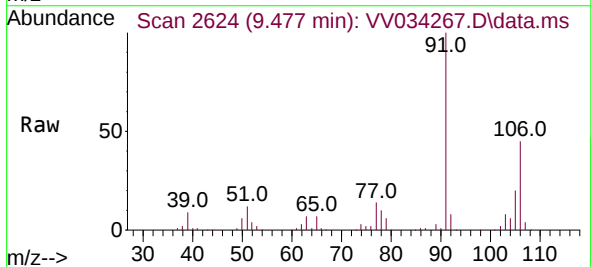
Instrument :
MSVOA_V
ClientSampleId :

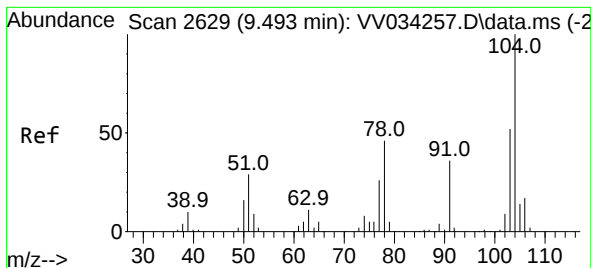
Tgt Ion:106 Resp: 145664
Ion Ratio Lower Upper
106 100
91 207.5 147.5 273.9



#54
o-Xylene
Concen: 6.924 ug/L
RT: 9.477 min Scan# 2624
Delta R.T. -0.000 min
Lab File: VV034267.D
Acq: 20 Feb 2024 14:05

Tgt Ion:106 Resp: 63674
Ion Ratio Lower Upper
106 100
91 223.2 156.2 290.0





#55

Styrene

Concen: 3.445 ug/L

RT: 9.497 min Scan# 2

Delta R.T. 0.003 min

Lab File: VV034267.D

Acq: 20 Feb 2024 14:05

Instrument :

MSVOA_V

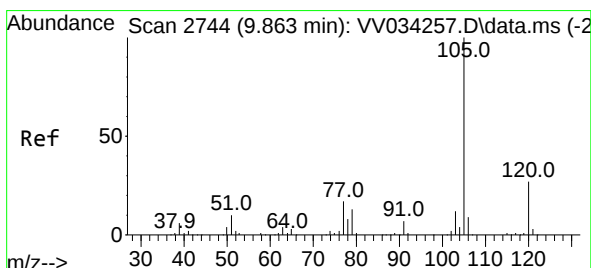
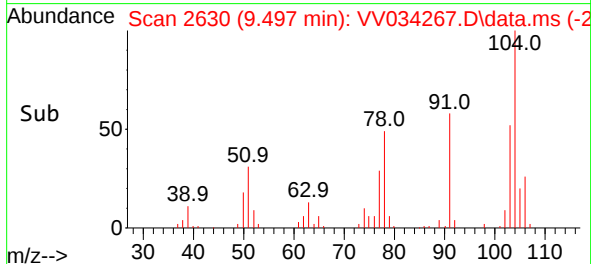
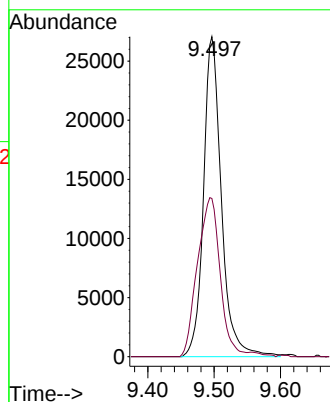
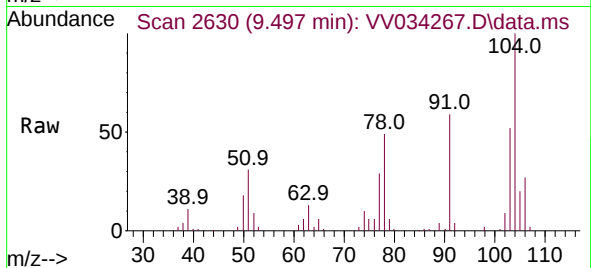
ClientSampleId :

Tgt Ion:104 Resp: 50725

Ion Ratio Lower Upper

104 100

78 49.5 32.9 61.1



#60

Isopropylbenzene

Concen: 1.225 ug/L

RT: 9.477 min Scan# 2624

Delta R.T. -0.386 min

Lab File: VV034267.D

Acq: 20 Feb 2024 14:05

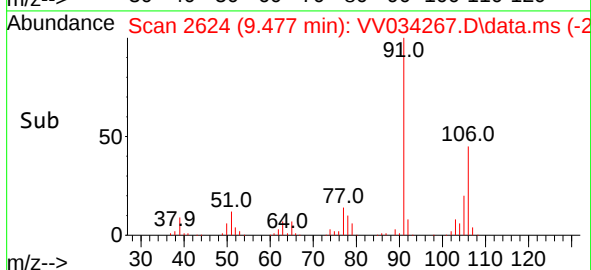
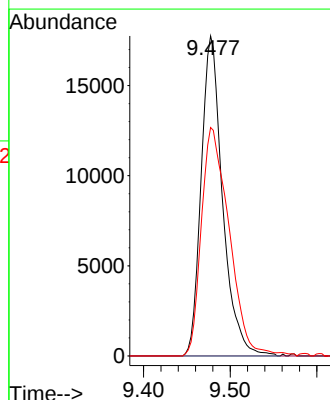
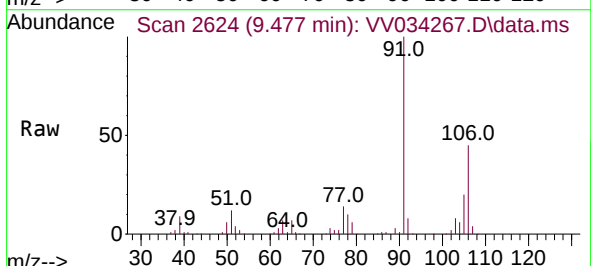
Tgt Ion:105 Resp: 30449

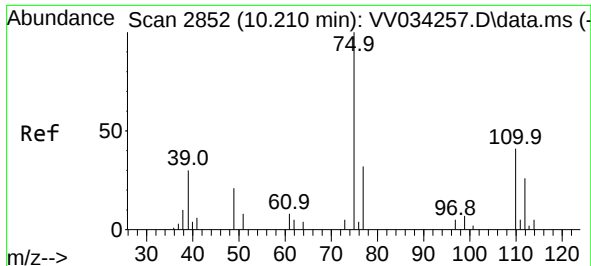
Ion Ratio Lower Upper

105 100

120 0.0 20.7 31.1#

77 92.7 13.0 19.6#

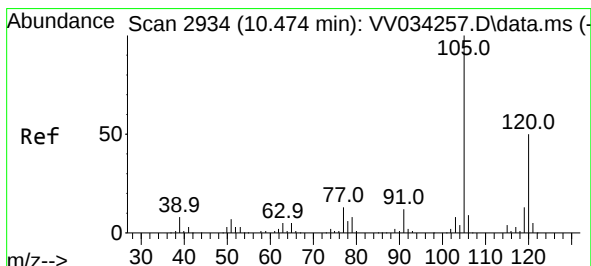
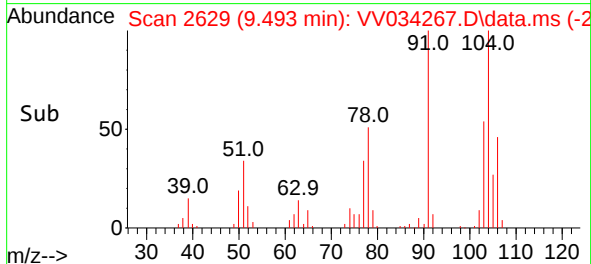
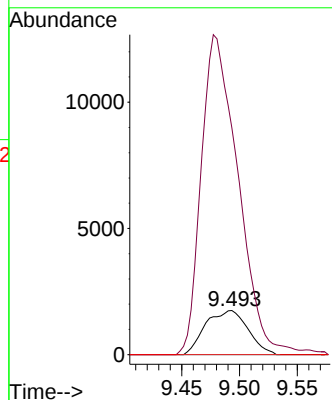
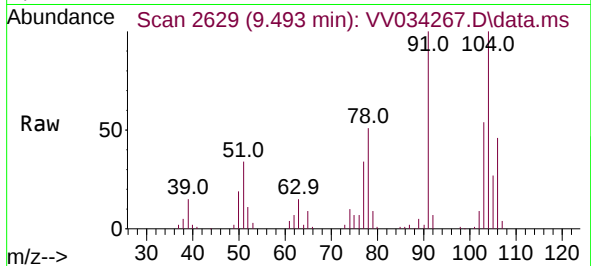




#61
 1,2,3-Trichloropropane
 Concen: 1.941 ug/L
 RT: 9.493 min Scan# 21
 Delta R.T. -0.717 min
 Lab File: VV034267.D
 Acq: 20 Feb 2024 14:05

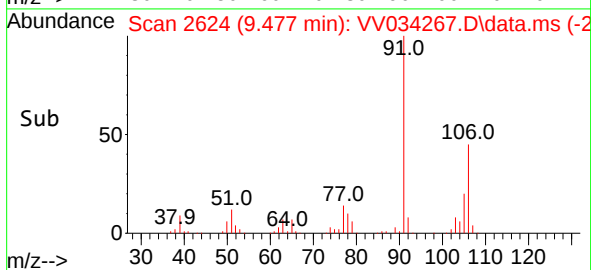
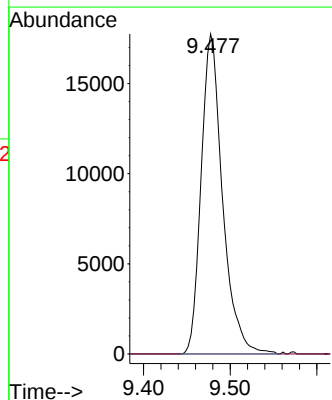
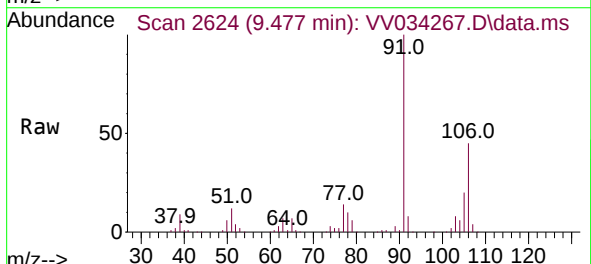
Instrument :
 MSVOA_V
 ClientSampleId :

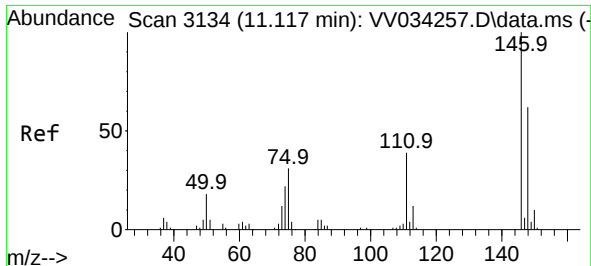
Tgt Ion: 75 Resp: 4482
 Ion Ratio Lower Upper
 75 100
 77 629.6 26.9 40.3#
 110 0.0 33.3 49.9#



#62
 1,3,5-Trimethylbenzene
 Concen: 1.449 ug/L
 RT: 9.477 min Scan# 2624
 Delta R.T. -0.997 min
 Lab File: VV034267.D
 Acq: 20 Feb 2024 14:05

Tgt Ion: 105 Resp: 30449
 Ion Ratio Lower Upper
 105 100
 120 0.0 38.2 57.4#

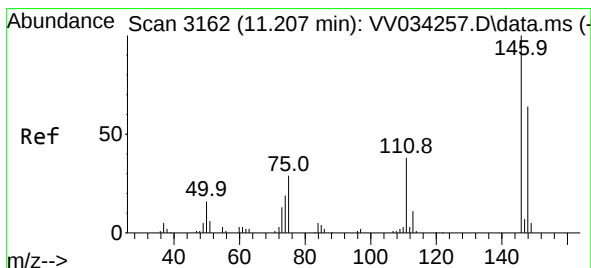
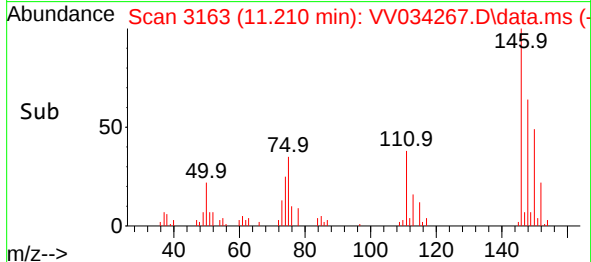
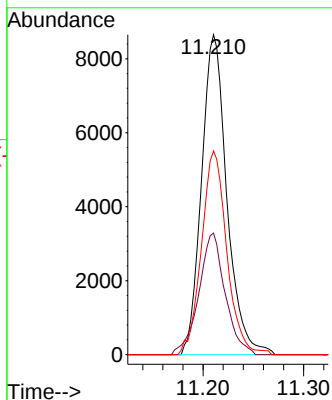
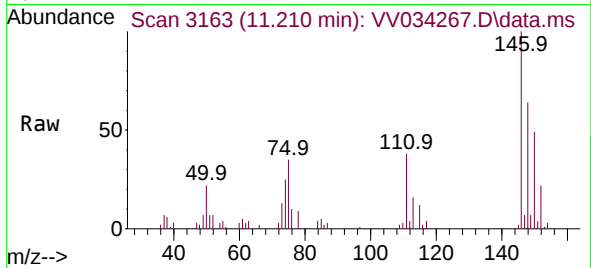




#64
1,3-Dichlorobenzene
Concen: 1.395 ug/L
RT: 11.210 min Scan# 3163
Delta R.T. 0.093 min
Lab File: VV034267.D
Acq: 20 Feb 2024 14:05

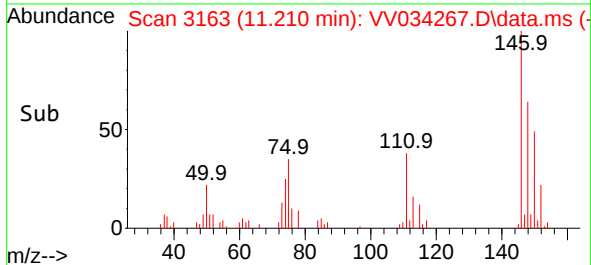
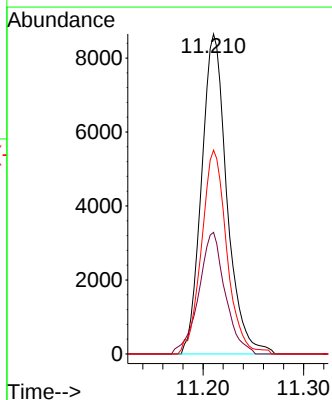
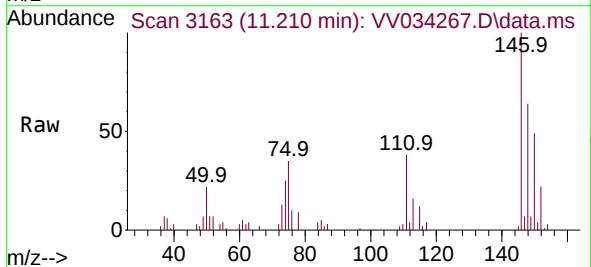
Instrument :
MSVOA_V
ClientSampleId :

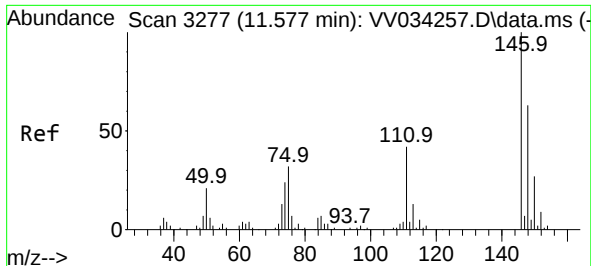
Tgt Ion:146 Resp: 15123
Ion Ratio Lower Upper
146 100
111 38.0 28.5 52.9
148 63.7 44.4 82.4



#65
1,4-Dichlorobenzene
Concen: 1.409 ug/L
RT: 11.210 min Scan# 3163
Delta R.T. 0.003 min
Lab File: VV034267.D
Acq: 20 Feb 2024 14:05

Tgt Ion:146 Resp: 15123
Ion Ratio Lower Upper
146 100
111 38.0 27.6 51.4
148 63.7 44.8 83.2





#67

1,2-Dichlorobenzene

Concen: 3.841 ug/L

RT: 11.580 min Scan# 31

Delta R.T. 0.003 min

Lab File: VV034267.D

Acq: 20 Feb 2024 14:05

Instrument :

MSVOA_V

ClientSampleId :

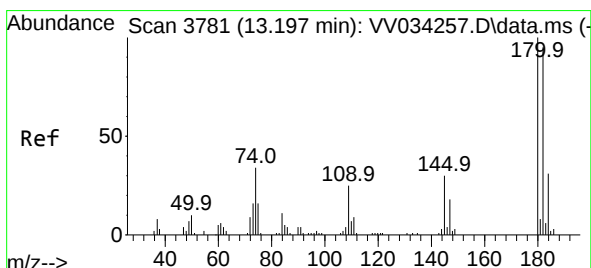
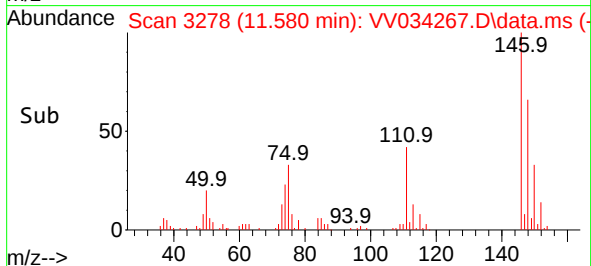
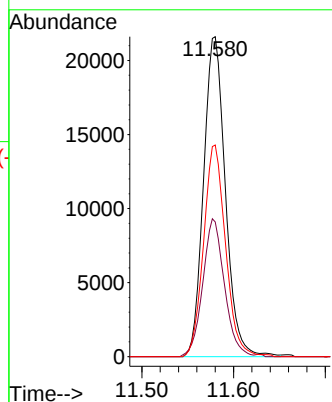
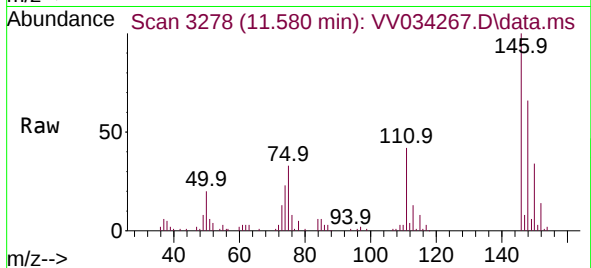
Tgt Ion:146 Resp: 35756

Ion Ratio Lower Upper

146 100

111 42.1 31.2 46.8

148 66.2 49.8 74.8



#70

1,2,4-trichlorobenzene

Concen: 2.551 ug/L

RT: 13.201 min Scan# 3782

Delta R.T. 0.003 min

Lab File: VV034267.D

Acq: 20 Feb 2024 14:05

Tgt Ion:180 Resp: 16704

Ion Ratio Lower Upper

180 100

182 97.3 76.8 115.2

145 31.5 24.8 37.2

