

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW031723\
 Data File : VW030239.D
 Acq On : 17 Mar 2023 16:37
 Operator : SY/MD
 Sample : 01996-06
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Mar 17 22:59:42 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR022323WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Mar 17 22:49:08 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.545	114	137312	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.796	117	123226	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.194	152	63386	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.281	65	34928	3.931	ug/L	0.00
Spiked Amount	5.000	Range 40 - 130	Recovery	=	78.600%	
7) Chloroethane-d5	1.539	69	32671	3.917	ug/L	0.00
Spiked Amount	5.000	Range 65 - 130	Recovery	=	78.400%	
11) 1,1-Dichloroethene-d2	2.072	63	1784171	97.677	ug/L	0.00
Spiked Amount	5.000	Range 60 - 125	Recovery	=	1953.600%#	
20) 2-Butanone-d5	3.812	46	85208	52.017	ug/L	0.00
Spiked Amount	50.000	Range 40 - 130	Recovery	=	104.040%	
24) Chloroform-d	4.262	84	96295	5.306	ug/L	0.00
Spiked Amount	5.000	Range 70 - 125	Recovery	=	106.200%	
26) 1,2-Dichloroethane-d4	4.953	65	38325	5.173	ug/L	0.00
Spiked Amount	5.000	Range 70 - 130	Recovery	=	103.400%	
32) Benzene-d6	4.969	84	136709	4.123	ug/L	0.00
Spiked Amount	5.000	Range 70 - 125	Recovery	=	82.400%	
36) 1,2-Dichloropropane-d6	5.998	67	43489	4.360	ug/L	0.00
Spiked Amount	5.000	Range 60 - 140	Recovery	=	87.200%	
41) Toluene-d8	7.252	98	119474	3.801	ug/L	0.00
Spiked Amount	5.000	Range 70 - 130	Recovery	=	76.000%	
43) trans-1,3-Dichloroprop...	7.564	79	15368	4.503	ug/L	0.00
Spiked Amount	5.000	Range 55 - 130	Recovery	=	90.000%	
46) 2-Hexanone-d5	8.037	63	72510	51.356	ug/L	0.00
Spiked Amount	50.000	Range 45 - 130	Recovery	=	102.720%	
56) 1,1,2,2-Tetrachloroeth...	10.162	84	29072	4.097	ug/L	0.00
Spiked Amount	5.000	Range 65 - 120	Recovery	=	82.000%	
66) 1,2-Dichlorobenzene-d4	11.570	152	46118	4.300	ug/L	0.00
Spiked Amount	5.000	Range 80 - 120	Recovery	=	86.000%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.217	50	38852	2.207	ug/L	96
5) Vinyl chloride	1.288	62	909	0.078	ug/L #	19
6) Bromomethane	1.497	94	2153	1.025	ug/L	94
10) 1,1,2-Trichloro-1,2,2-...	2.072	101	9439	0.907	ug/L #	44
12) 1,1-Dichloroethene	2.076	96	2922854	317.184	ug/L #	72
16) Methylene chloride	2.455	84	6453	0.573	ug/L	92
18) trans-1,2-Dichloroethene	2.699	96	1728	0.197	ug/L	90
19) 1,1-Dichloroethane	3.121	63	187722	11.496	ug/L	99
22) cis-1,2-Dichloroethene	3.825	96	88822	9.167	ug/L	86
25) Chloroform	4.288	83	464135	27.322	ug/L	96
27) 1,2-Dichloroethane	5.059	62	4830	0.544	ug/L	97
29) 1,1,1-Trichloroethane	4.522	97	685694	47.369	ug/L	96
31) Carbon tetrachloride	4.748	117	12511	0.962	ug/L	100
33) Benzene	5.021	78	41961	1.247	ug/L	100
34) Trichloroethene	5.847	95	6634637	703.563	ug/L	94
35) Methylcyclohexane	5.998	83	9864	0.691	ug/L #	32
37) 1,2-Dichloropropane	5.998	63	5546	0.648	ug/L #	87
39) cis-1,3-Dichloropropene	6.918	75	1223	0.098	ug/L #	59
44) trans-1,3-Dichloropropene	7.561	75	895	0.091	ug/L #	51

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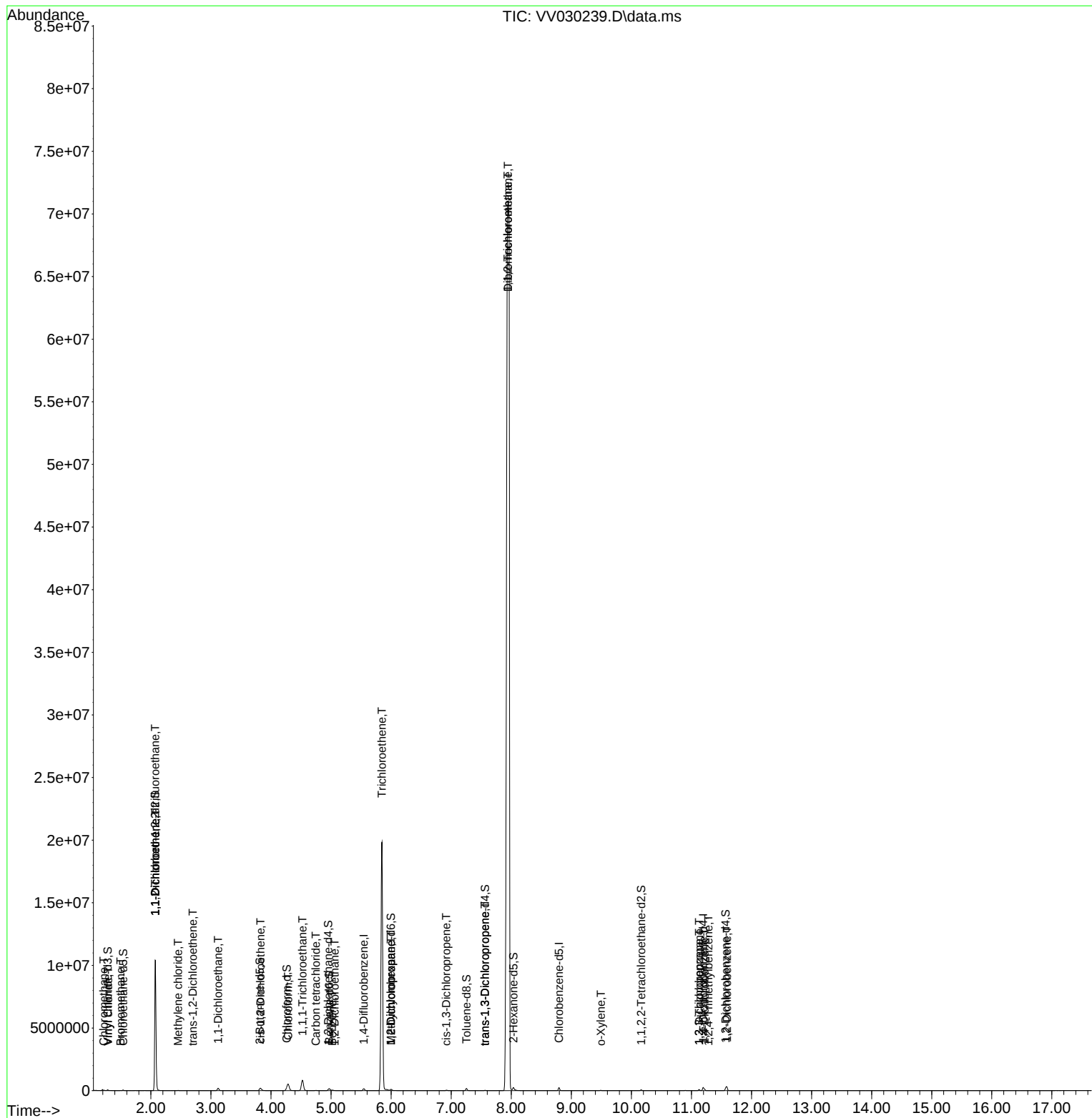
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 1,1,2-Trichloroethane	7.940	97	304116	49.641	ug/L #	23
49) Dibromochloromethane	7.944	129	27107095	3781.287	ug/L #	10
54) o-Xylene	9.490	106	7559	0.519	ug/L	95
61) 1,2,3-Trichloropropane	11.127	75	10528	2.482	ug/L #	49
63) 1,2,4-Trimethylbenzene	11.281	105	2903	0.095	ug/L	95
64) 1,3-Dichlorobenzene	11.127	146	34994	1.843	ug/L	99
65) 1,4-Dichlorobenzene	11.220	146	40453	2.111	ug/L	97
67) 1,2-Dichlorobenzene	11.590	146	108020	6.442	ug/L	100

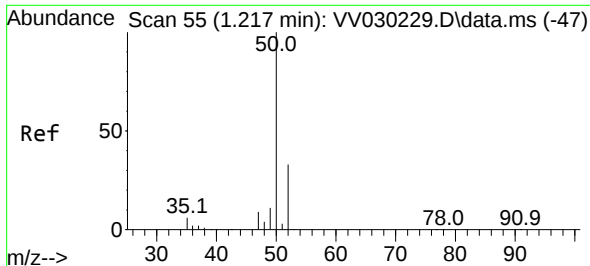
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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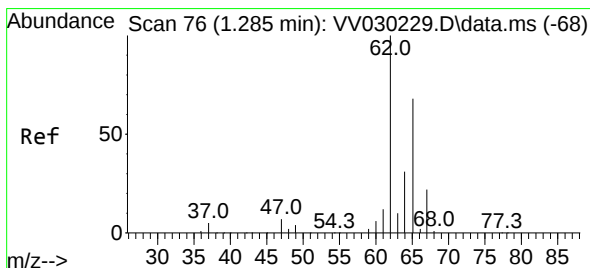
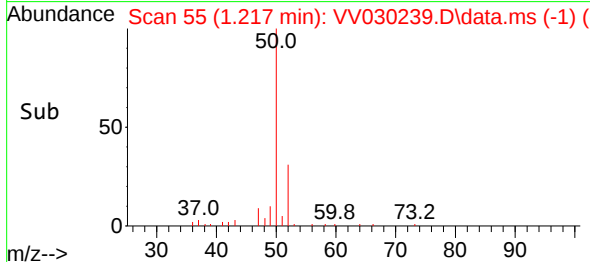
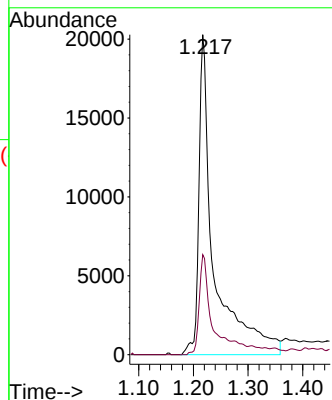
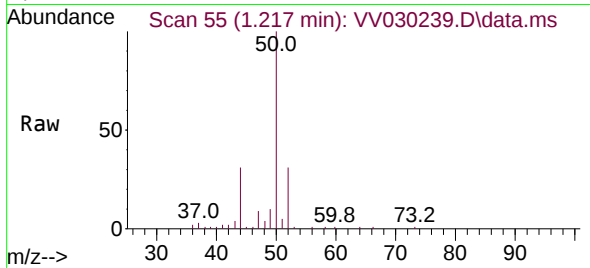




#3
Chloromethane
Concen: 2.207 ug/L
RT: 1.217 min Scan# 51
Delta R.T. -0.000 min
Lab File: VV030239.D
Acq: 17 Mar 2023 16:37

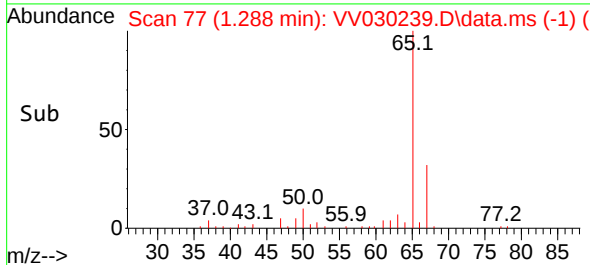
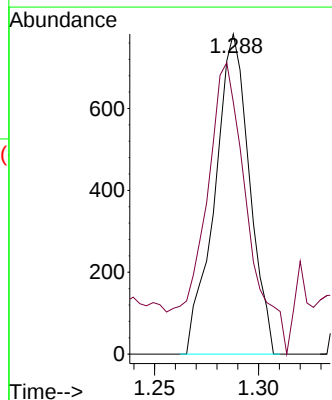
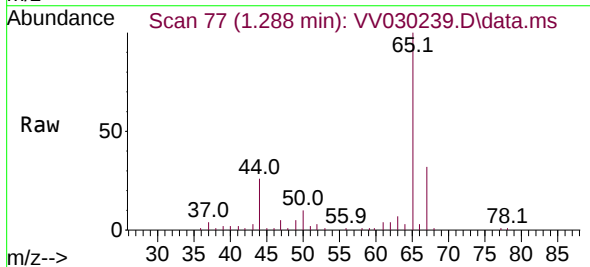
Instrument :
MSVOA_V
ClientSampleId :

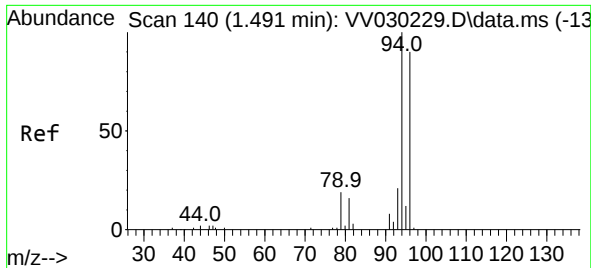
Tgt Ion: 50 Resp: 38852
Ion Ratio Lower Upper
50 100
52 31.3 23.6 43.8



#5
Vinyl chloride
Concen: 0.078 ug/L
RT: 1.288 min Scan# 77
Delta R.T. 0.003 min
Lab File: VV030239.D
Acq: 17 Mar 2023 16:37

Tgt Ion: 62 Resp: 909
Ion Ratio Lower Upper
62 100
64 78.6 23.1 42.9#

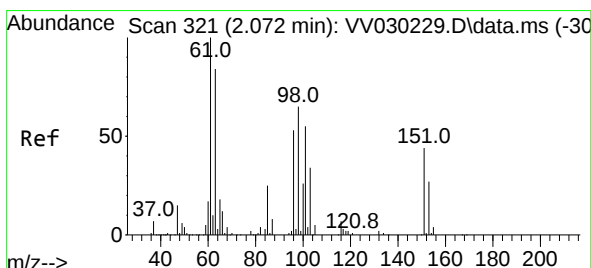
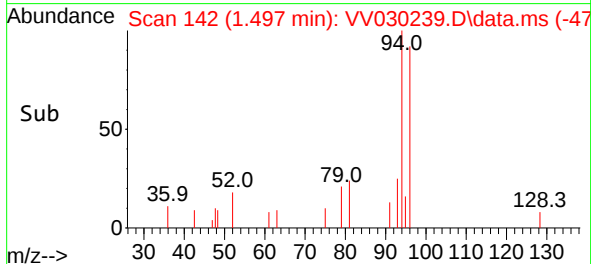
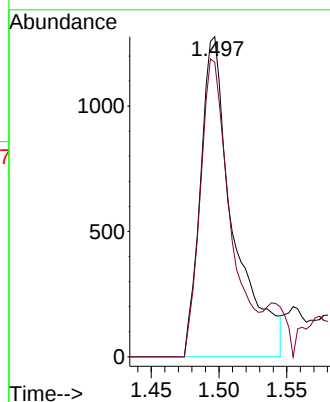
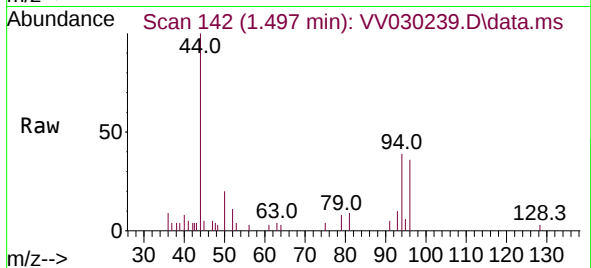




#6
Bromomethane
Concen: 1.025 ug/L
RT: 1.497 min Scan# 140
Delta R.T. 0.006 min
Lab File: VV030239.D
Acq: 17 Mar 2023 16:37

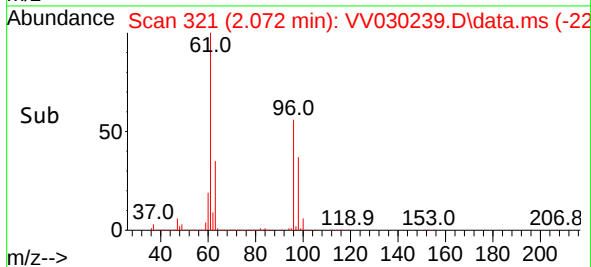
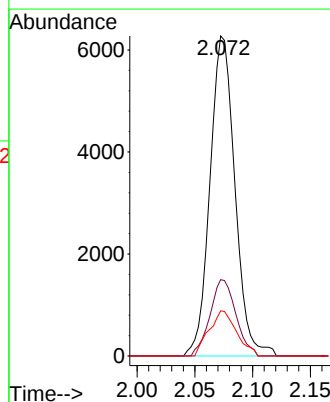
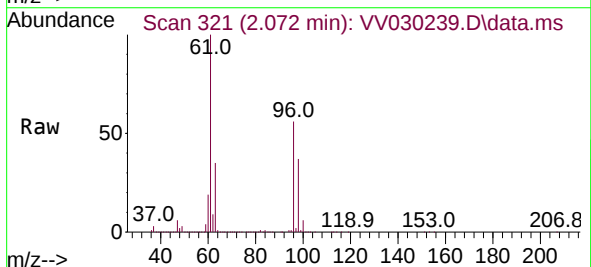
Instrument :
MSVOA_V
ClientSampleId :

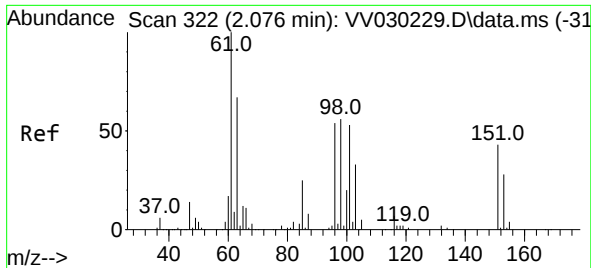
Tgt Ion: 94 Resp: 2153
Ion Ratio Lower Upper
94 100
96 92.0 68.4 127.0



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.907 ug/L
RT: 2.072 min Scan# 321
Delta R.T. -0.000 min
Lab File: VV030239.D
Acq: 17 Mar 2023 16:37

Tgt Ion:101 Resp: 9439
Ion Ratio Lower Upper
101 100
85 24.7 33.5 50.3#
151 15.4 61.6 92.4#

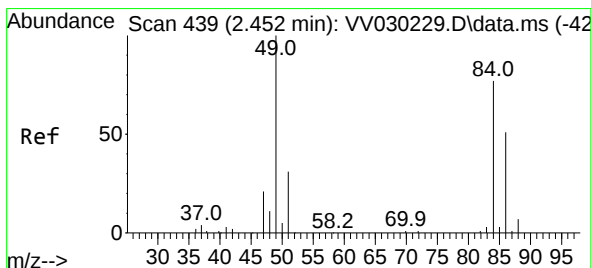
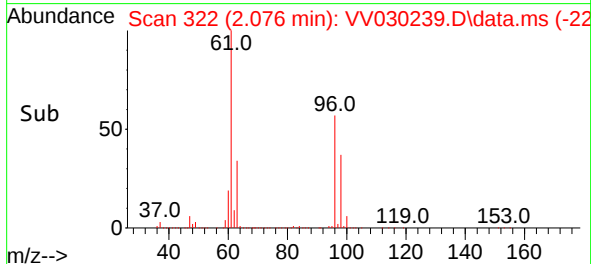
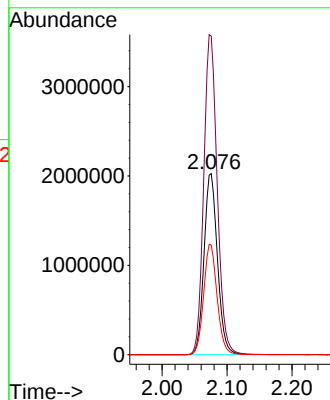
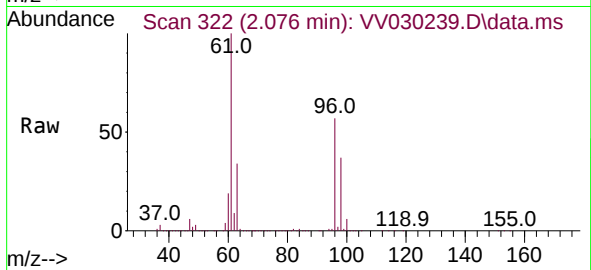




#12
1,1-Dichloroethene
Concen: 317.184 ug/L
RT: 2.076 min Scan# 31
Delta R.T. -0.000 min
Lab File: VV030239.D
Acq: 17 Mar 2023 16:37

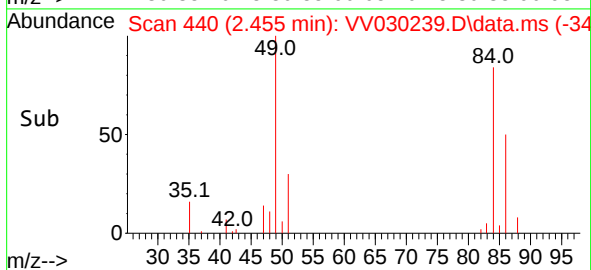
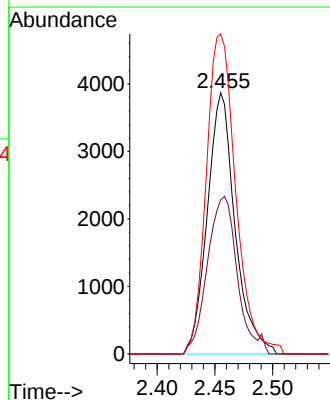
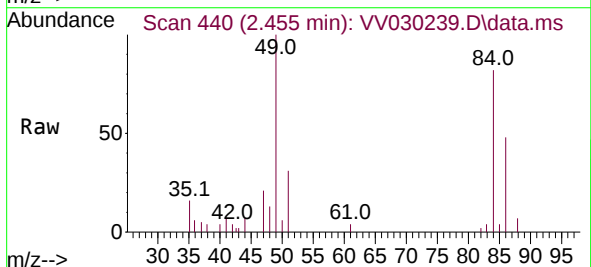
Instrument :
MSVOA_V
ClientSampleId :

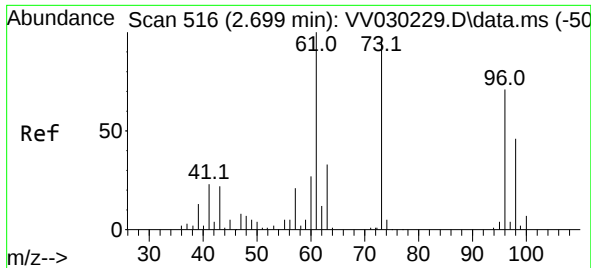
Tgt Ion: 96 Resp: 2922854
Ion Ratio Lower Upper
96 100
61 175.8 115.6 214.6
63 60.5 85.6 159.0#



#16
Methylene chloride
Concen: 0.573 ug/L
RT: 2.455 min Scan# 440
Delta R.T. 0.003 min
Lab File: VV030239.D
Acq: 17 Mar 2023 16:37

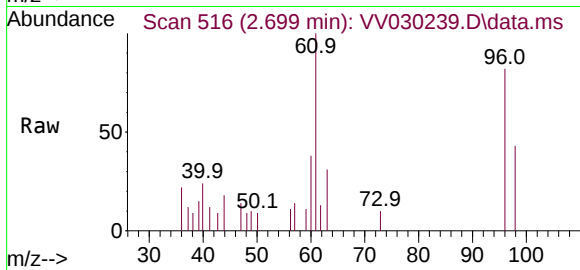
Tgt Ion: 84 Resp: 6453
Ion Ratio Lower Upper
84 100
86 59.0 44.7 83.1
49 122.5 78.8 146.3



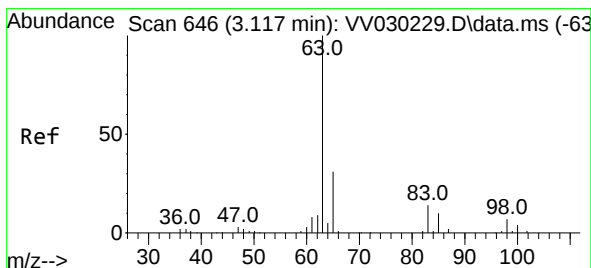
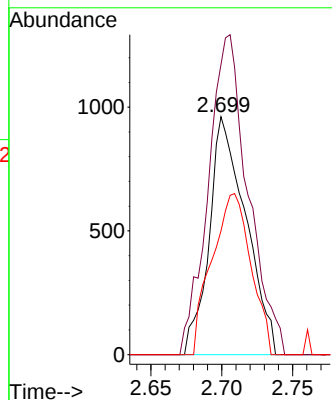
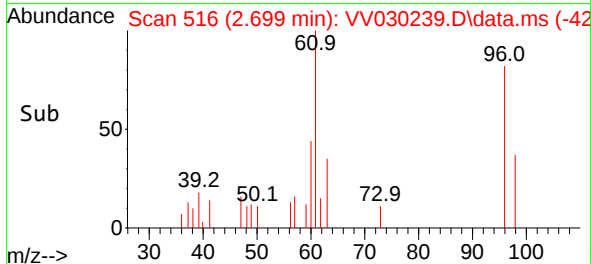


#18
trans-1,2-Dichloroethene
Concen: 0.197 ug/L
RT: 2.699 min Scan# 516
Delta R.T. -0.000 min
Lab File: VV030239.D
Acq: 17 Mar 2023 16:37

Instrument :
MSVOA_V
ClientSampleId :

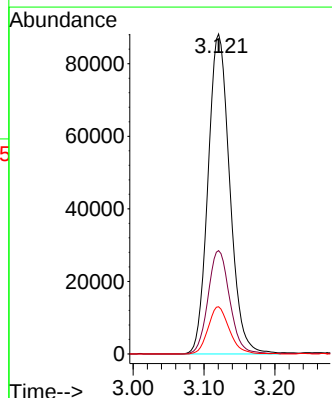
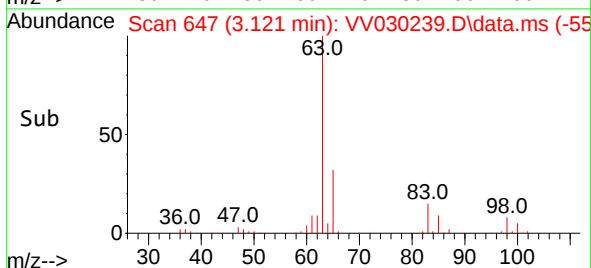
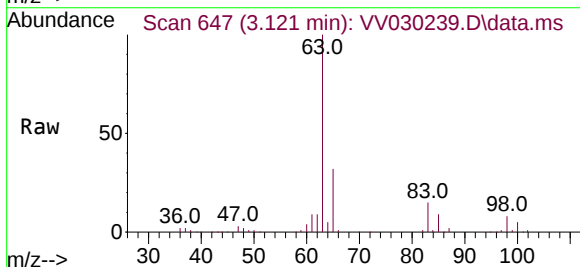


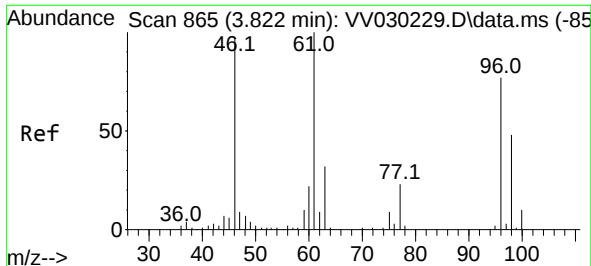
Tgt Ion: 96	Resp: 1728
Ion Ratio	Lower Upper
96 100	
61 122.1	91.0 169.0
98 52.0	45.2 84.0



#19
1,1-Dichloroethane
Concen: 11.496 ug/L
RT: 3.121 min Scan# 647
Delta R.T. 0.003 min
Lab File: VV030239.D
Acq: 17 Mar 2023 16:37

Tgt Ion: 63	Resp: 187722
Ion Ratio	Lower Upper
63 100	
65 32.3	23.0 42.8
83 14.8	9.6 17.8





#22

cis-1,2-Dichloroethene

Concen: 9.167 ug/L

RT: 3.825 min Scan# 80

Delta R.T. 0.003 min

Lab File: VV030239.D

Acq: 17 Mar 2023 16:37

Instrument :

MSVOA_V

ClientSampleId :

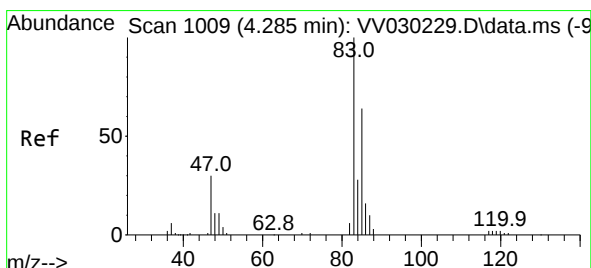
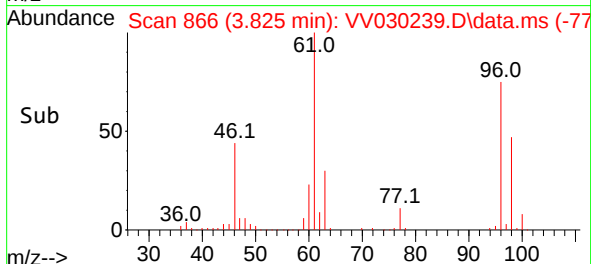
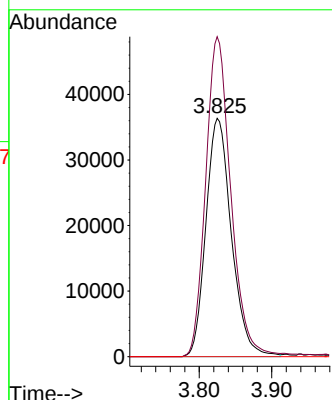
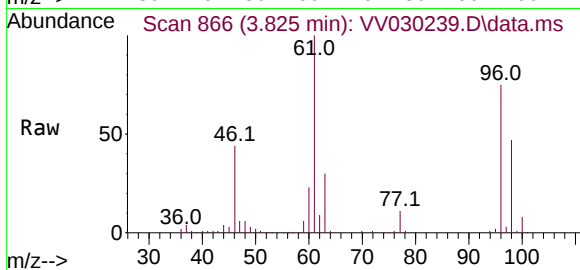
Tgt Ion: 96 Resp: 88822

Ion Ratio Lower Upper

96 100

61 134.2 83.4 154.8

68 0.0 0.0 0.0



#25

Chloroform

Concen: 27.322 ug/L

RT: 4.288 min Scan# 1010

Delta R.T. 0.003 min

Lab File: VV030239.D

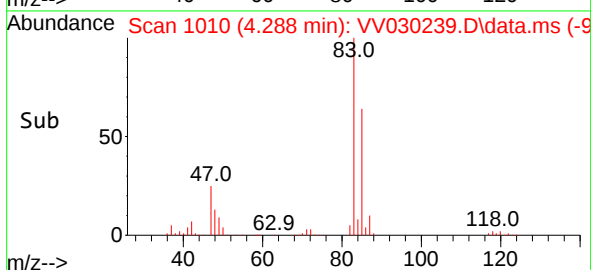
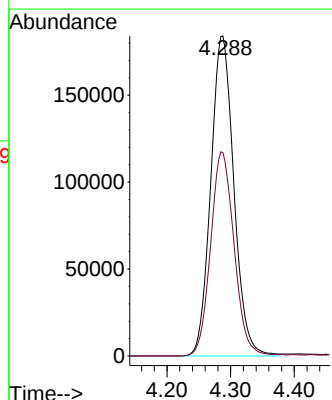
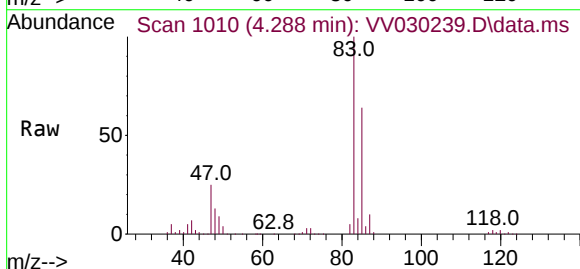
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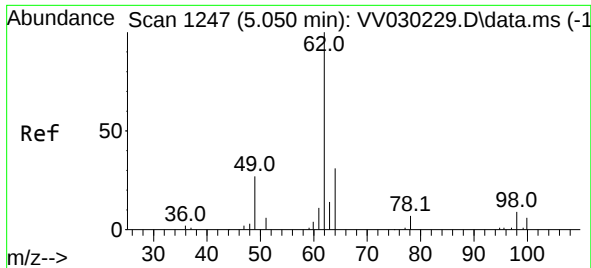
Tgt Ion: 83 Resp: 464135

Ion Ratio Lower Upper

83 100

85 63.6 46.5 86.5

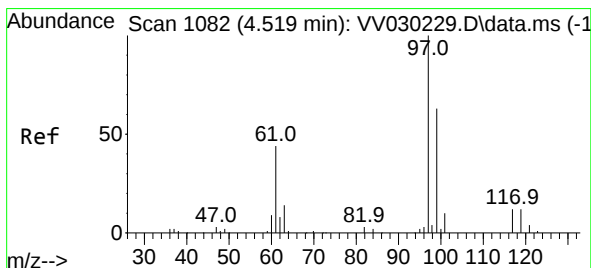
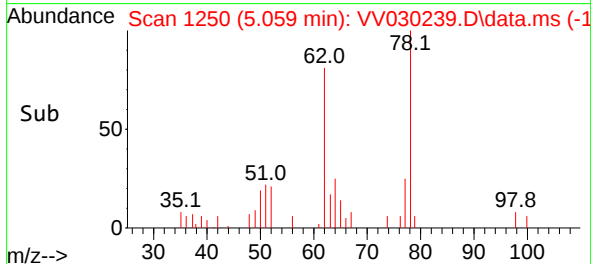
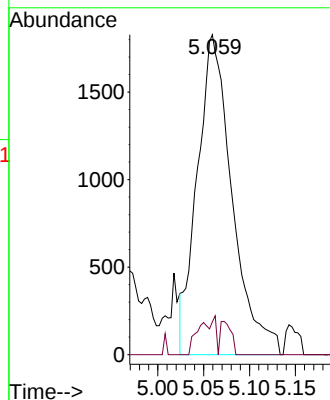
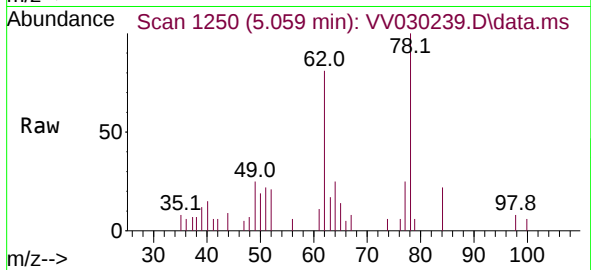




#27
1,2-Dichloroethane
Concen: 0.544 ug/L
RT: 5.059 min Scan# 11
Delta R.T. 0.010 min
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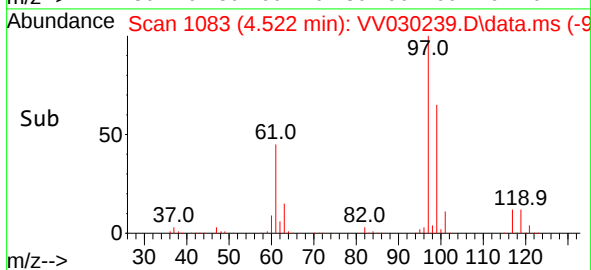
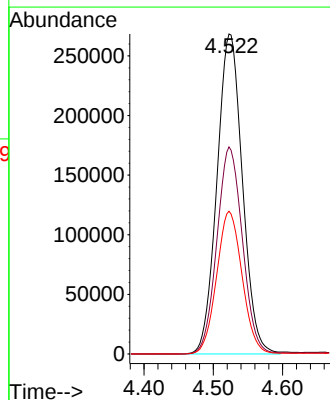
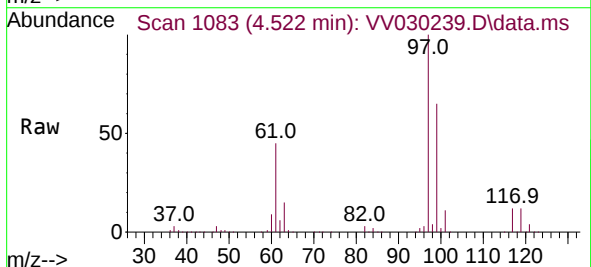
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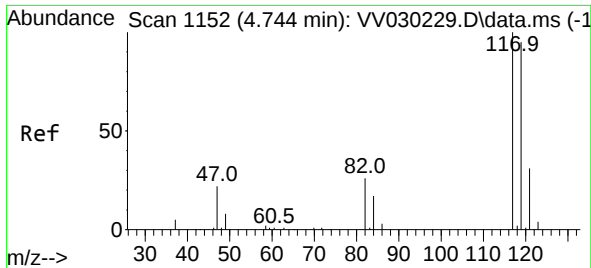
Tgt Ion: 62 Resp: 4830
Ion Ratio Lower Upper
62 100
98 10.2 9.0 13.4



#29
1,1,1-Trichloroethane
Concen: 47.369 ug/L
RT: 4.522 min Scan# 1083
Delta R.T. 0.003 min
Lab File: VV030239.D
Acq: 17 Mar 2023 16:37

Tgt Ion: 97 Resp: 685694
Ion Ratio Lower Upper
97 100
99 64.9 51.3 76.9
61 44.7 31.5 47.3

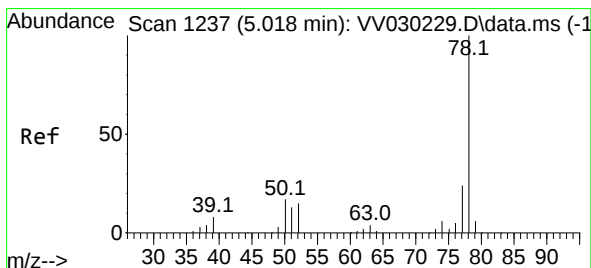
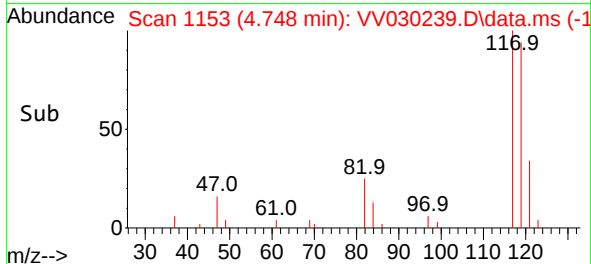
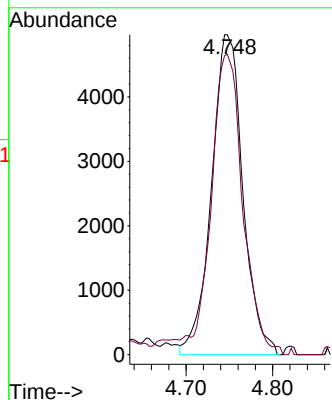
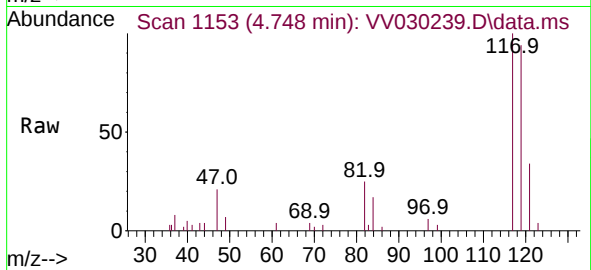




#31
Carbon tetrachloride
Concen: 0.962 ug/L
RT: 4.748 min Scan# 1152
Delta R.T. 0.003 min
Lab File: VV030239.D
Acq: 17 Mar 2023 16:37

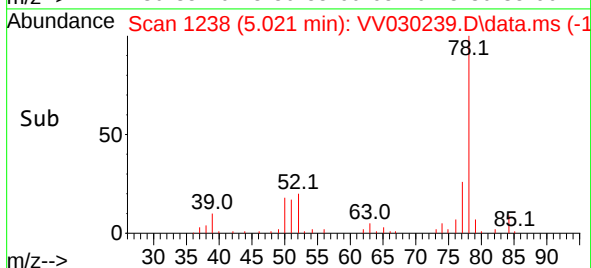
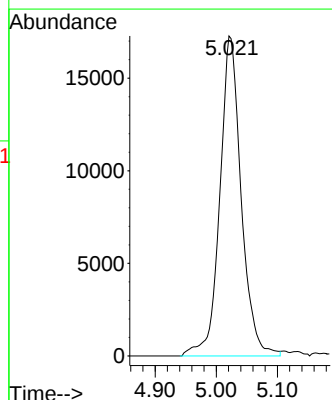
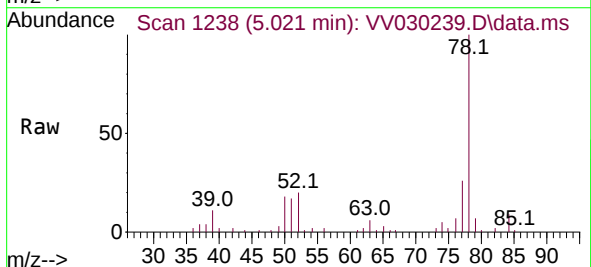
Instrument :
MSVOA_V
ClientSampleId :

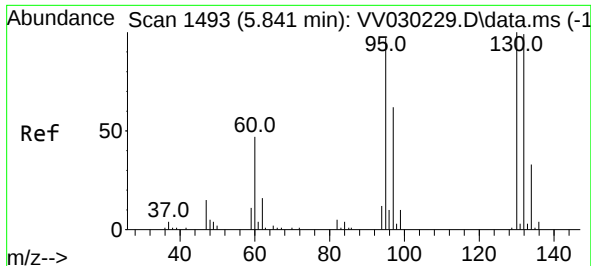
Tgt Ion:117 Resp: 12511
Ion Ratio Lower Upper
117 100
119 94.8 76.1 114.1



#33
Benzene
Concen: 1.247 ug/L
RT: 5.021 min Scan# 1238
Delta R.T. 0.003 min
Lab File: VV030239.D
Acq: 17 Mar 2023 16:37

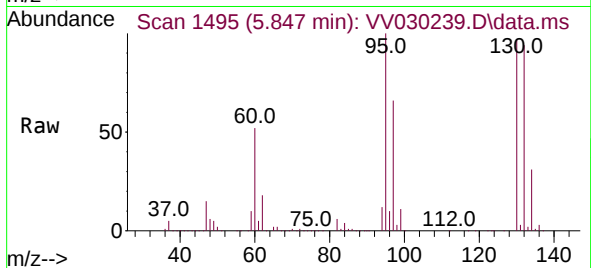
Tgt Ion: 78 Resp: 41961





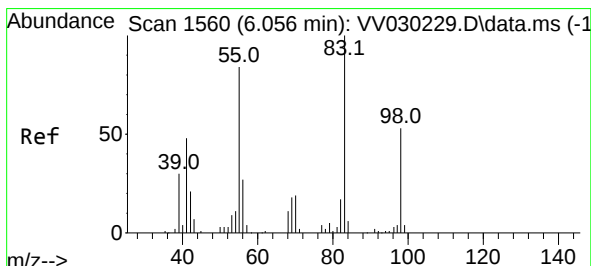
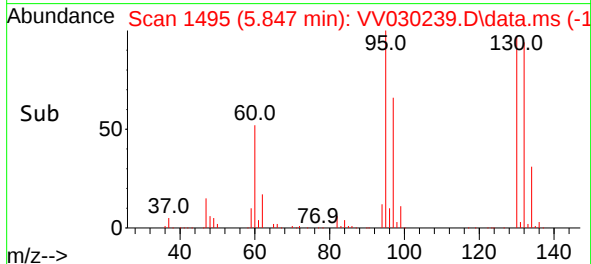
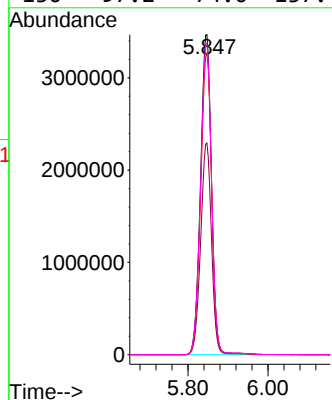
#34
 Trichloroethene
 Concen: 703.563 ug/L
 RT: 5.847 min Scan# 1495
 Delta R.T. 0.006 min
 Lab File: VV030239.D
 Acq: 17 Mar 2023 16:37

Instrument :
 MSVOA_V
 ClientSampleId :



Tgt Ion: 95 Resp: 6634637

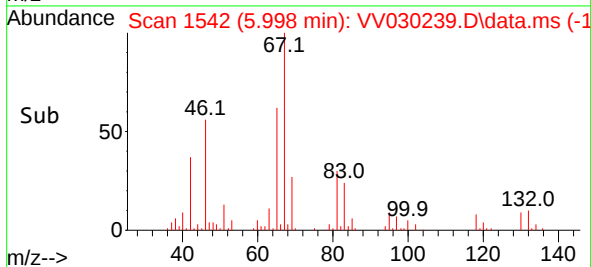
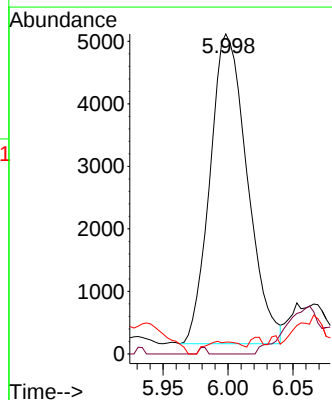
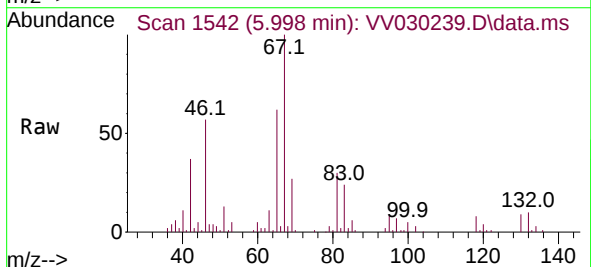
Ion	Ratio	Lower	Upper
95	100		
97	66.1	46.5	86.5
132	94.2	71.7	133.3
130	97.2	74.0	137.4

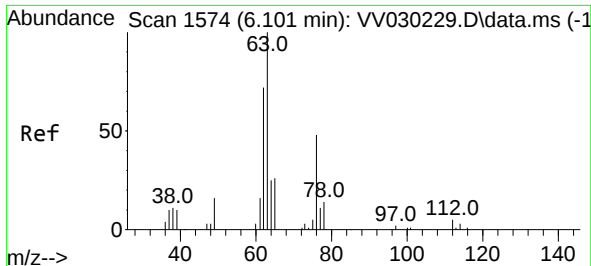


#35
 Methylcyclohexane
 Concen: 0.691 ug/L
 RT: 5.998 min Scan# 1542
 Delta R.T. -0.058 min
 Lab File: VV030239.D
 Acq: 17 Mar 2023 16:37

Tgt Ion: 83 Resp: 9864

Ion	Ratio	Lower	Upper
83	100		
55	17.2	57.6	86.4#
98	0.0	38.8	58.2#





#37

1,2-Dichloropropane

Concen: 0.648 ug/L

RT: 5.998 min Scan# 11

Delta R.T. -0.103 min

Lab File: VV030239.D

Acq: 17 Mar 2023 16:37

Instrument :

MSVOA_V

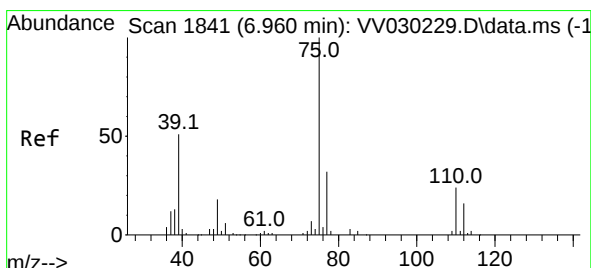
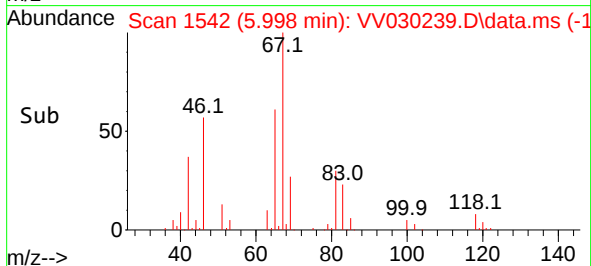
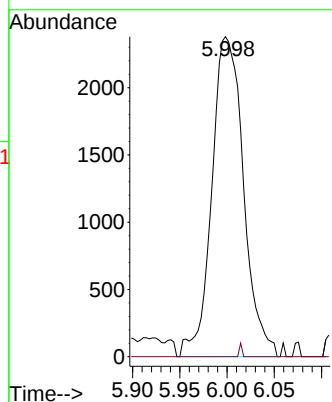
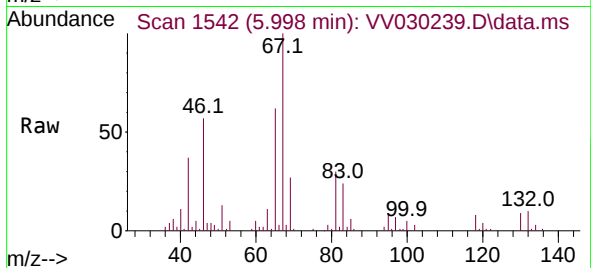
ClientSampleId :

Tgt Ion: 63 Resp: 5546

Ion Ratio Lower Upper

63 100

112 0.4 3.8 5.6#



#39

cis-1,3-Dichloropropene

Concen: 0.098 ug/L

RT: 6.918 min Scan# 1828

Delta R.T. -0.042 min

Lab File: VV030239.D

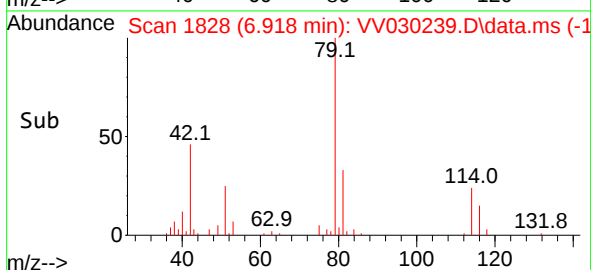
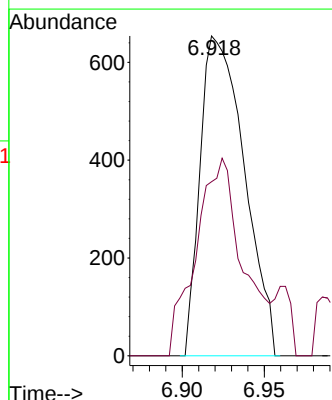
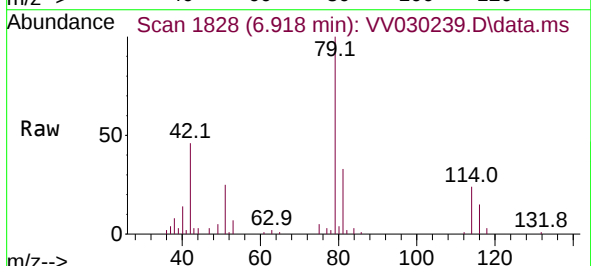
Acq: 17 Mar 2023 16:37

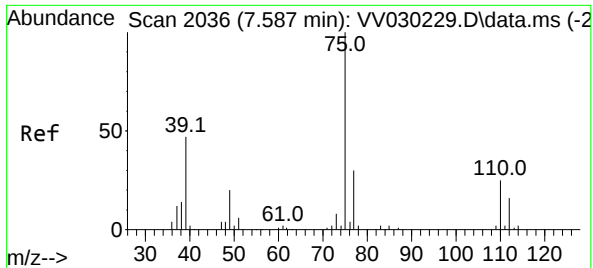
Tgt Ion: 75 Resp: 1223

Ion Ratio Lower Upper

75 100

77 54.4 22.3 41.3#

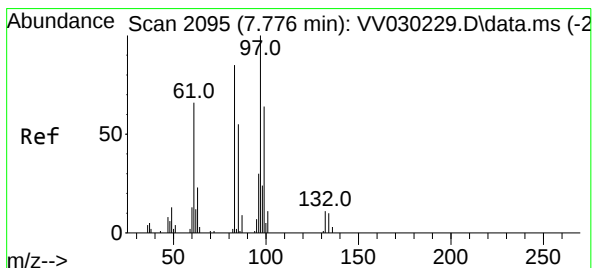
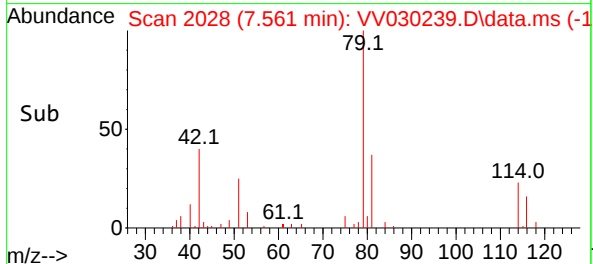
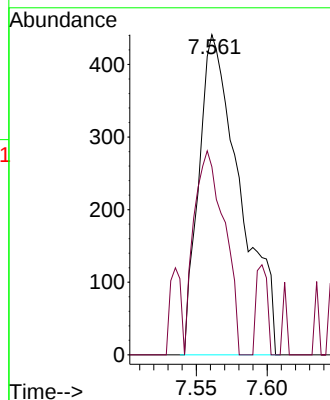
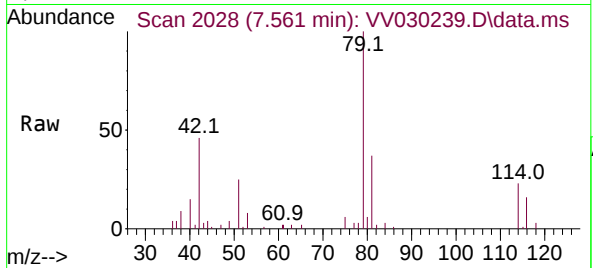




#44
trans-1,3-Dichloropropene
Concen: 0.091 ug/L
RT: 7.561 min Scan# 2036
Delta R.T. -0.026 min
Lab File: VV030239.D
Acq: 17 Mar 2023 16:37

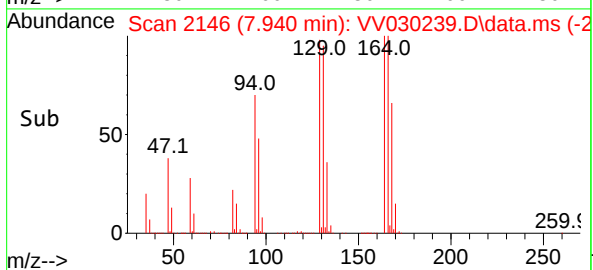
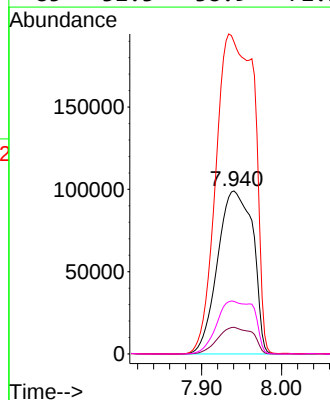
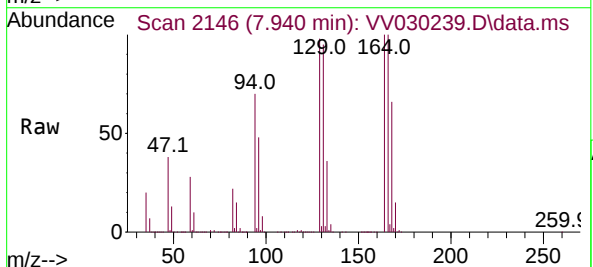
Instrument :
MSVOA_V
ClientSampleId :

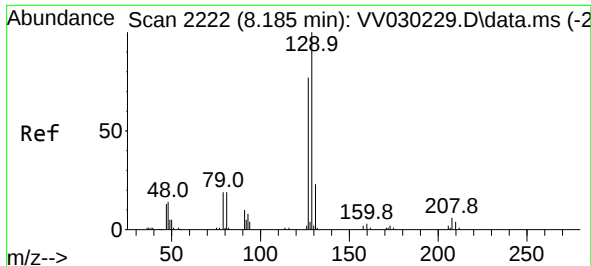
Tgt Ion: 75 Resp: 895
Ion Ratio Lower Upper
75 100
77 58.7 22.1 41.1#



#45
1,1,2-Trichloroethane
Concen: 49.641 ug/L
RT: 7.940 min Scan# 2146
Delta R.T. 0.164 min
Lab File: VV030239.D
Acq: 17 Mar 2023 16:37

Tgt Ion: 97 Resp: 304116
Ion Ratio Lower Upper
97 100
99 16.4 42.6 79.2#
83 191.5 57.7 107.3#
85 32.3 38.9 72.2#





#49

Dibromochloromethane

Concen: 3781.287 ug/L

RT: 7.944 min Scan# 2147

Delta R.T. -0.241 min

Lab File: VV030239.D

Acq: 17 Mar 2023 16:37

Instrument :

MSVOA_V

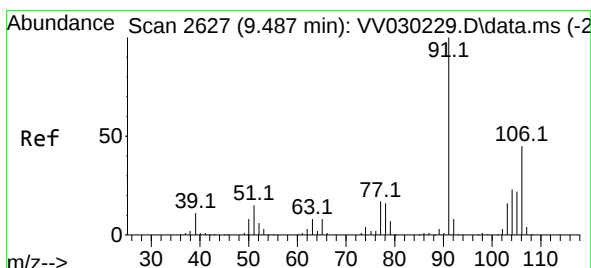
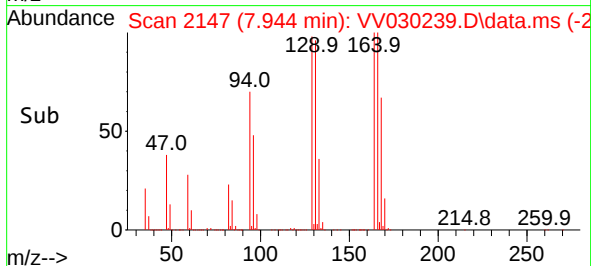
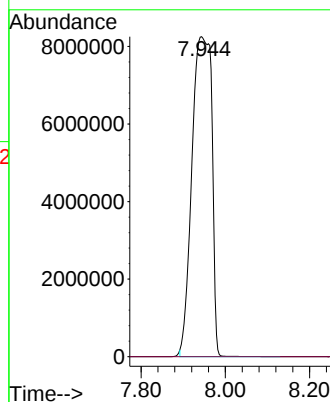
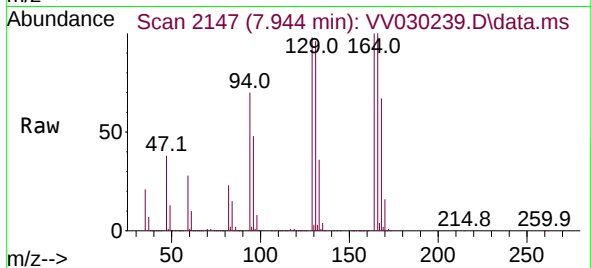
ClientSampleId :

Tgt Ion:129 Resp:27107095

Ion Ratio Lower Upper

129 100

127 0.0 54.7 101.5#



#54

o-Xylene

Concen: 0.519 ug/L

RT: 9.490 min Scan# 2628

Delta R.T. 0.003 min

Lab File: VV030239.D

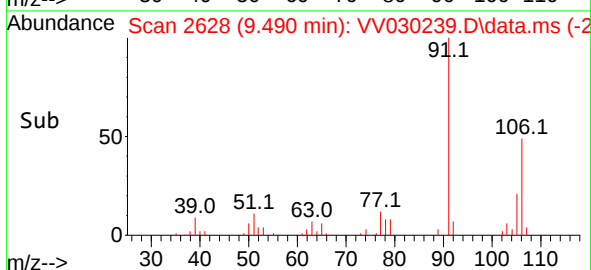
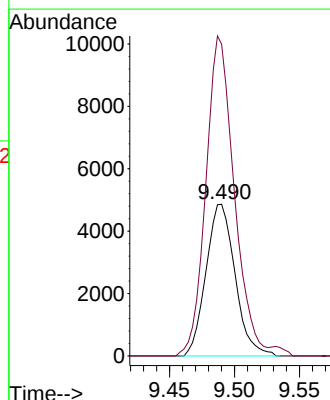
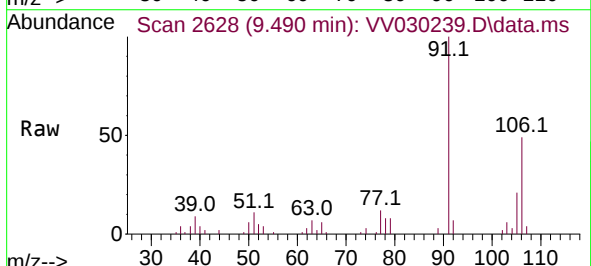
Acq: 17 Mar 2023 16:37

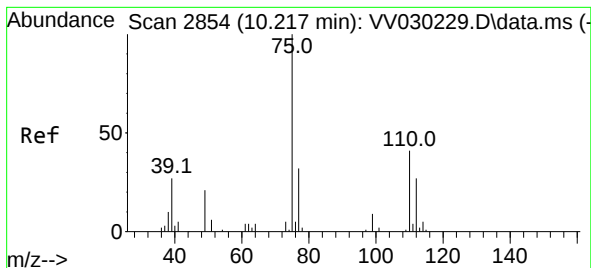
Tgt Ion:106 Resp: 7559

Ion Ratio Lower Upper

106 100

91 205.5 148.8 276.4





#61

1,2,3-Trichloropropane

Concen: 2.482 ug/L

RT: 11.127 min Scan# 3137

Delta R.T. 0.910 min

Lab File: VV030239.D

Acq: 17 Mar 2023 16:37

Instrument :

MSVOA_V

ClientSampleId :

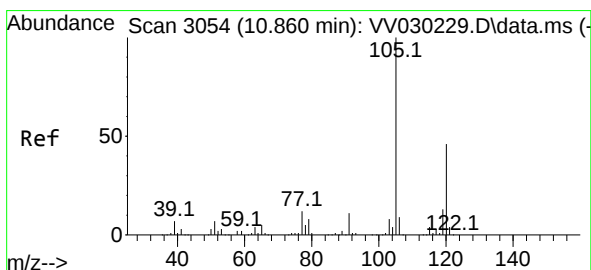
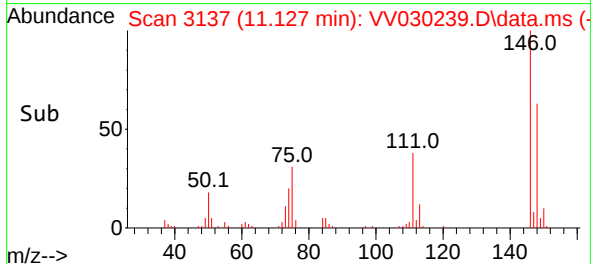
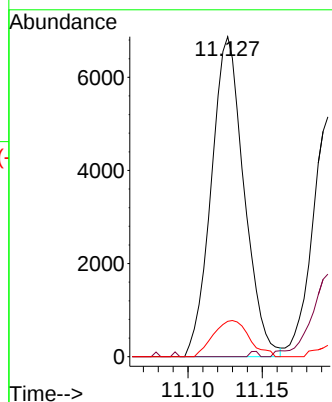
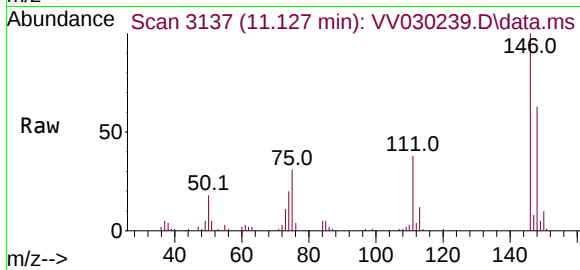
Tgt Ion: 75 Resp: 10528

Ion Ratio Lower Upper

75 100

77 0.0 26.5 39.7#

110 12.4 31.8 47.6#



#63

1,2,4-Trimethylbenzene

Concen: 0.095 ug/L

RT: 11.281 min Scan# 3185

Delta R.T. 0.421 min

Lab File: VV030239.D

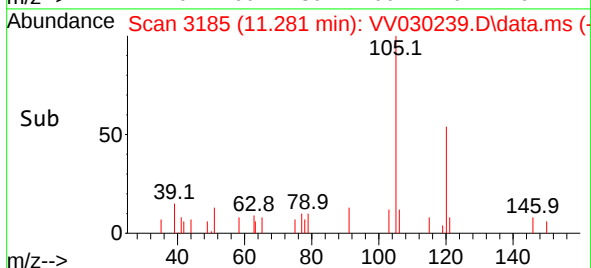
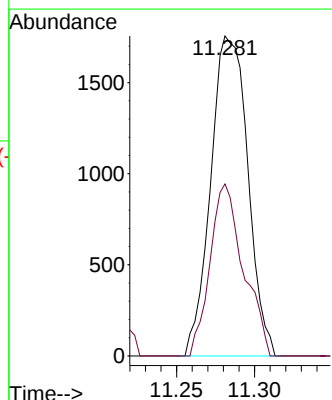
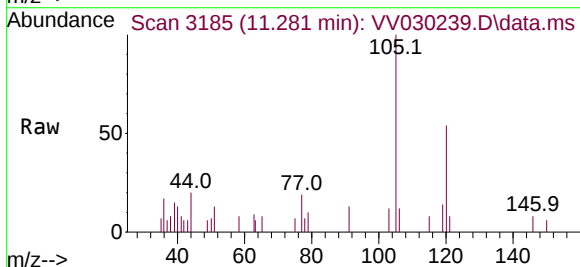
Acq: 17 Mar 2023 16:37

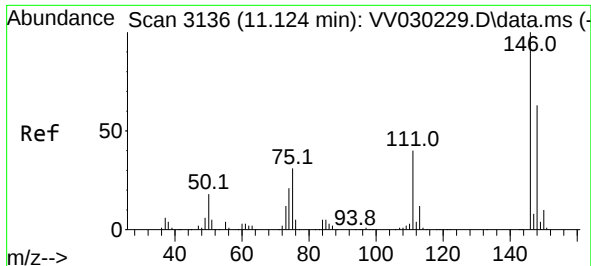
Tgt Ion: 105 Resp: 2903

Ion Ratio Lower Upper

105 100

120 48.5 36.2 54.4





#64

1,3-Dichlorobenzene

Concen: 1.843 ug/L

RT: 11.127 min Scan# 3137

Delta R.T. 0.003 min

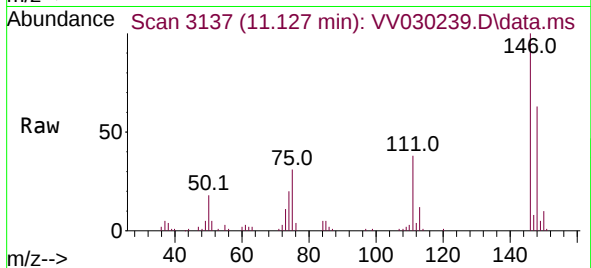
Lab File: VV030239.D

Acq: 17 Mar 2023 16:37

Instrument :

MSVOA_V

ClientSampleId :



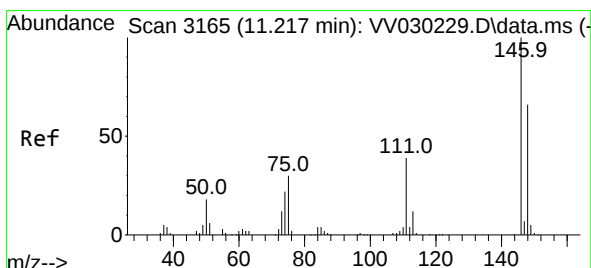
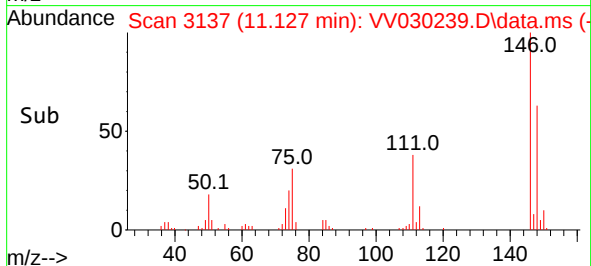
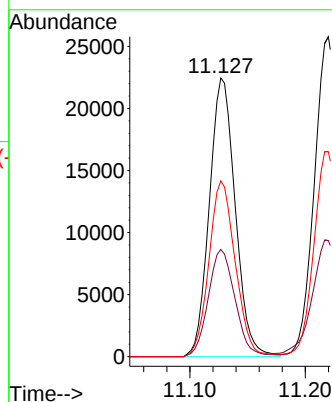
Tgt Ion:146 Resp: 34994

Ion Ratio Lower Upper

146 100

111 38.4 27.7 51.5

148 63.1 44.5 82.7



#65

1,4-Dichlorobenzene

Concen: 2.111 ug/L

RT: 11.220 min Scan# 3166

Delta R.T. 0.003 min

Lab File: VV030239.D

Acq: 17 Mar 2023 16:37

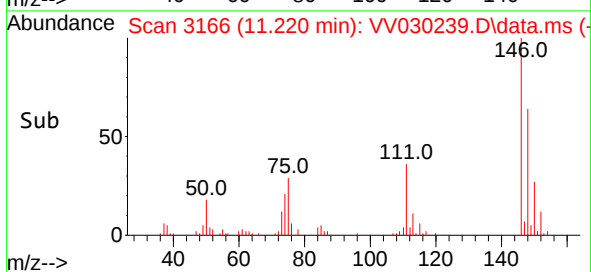
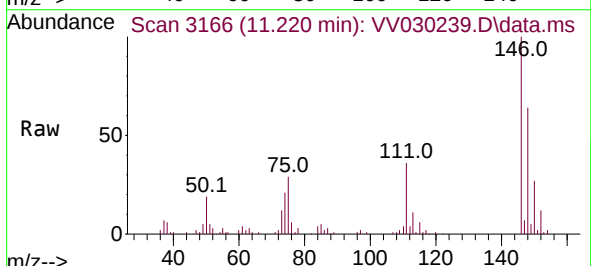
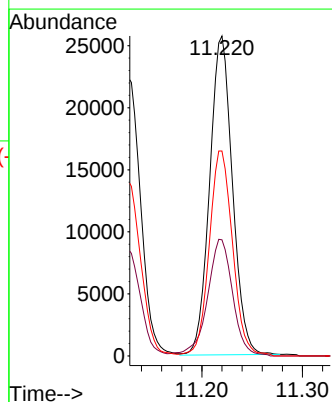
Tgt Ion:146 Resp: 40453

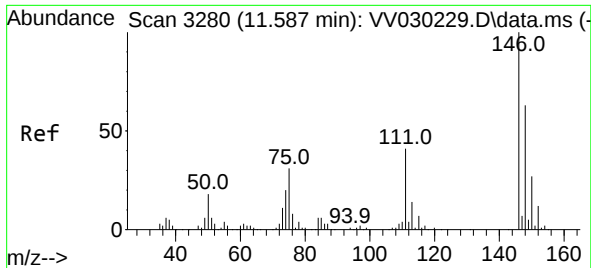
Ion Ratio Lower Upper

146 100

111 36.3 27.4 51.0

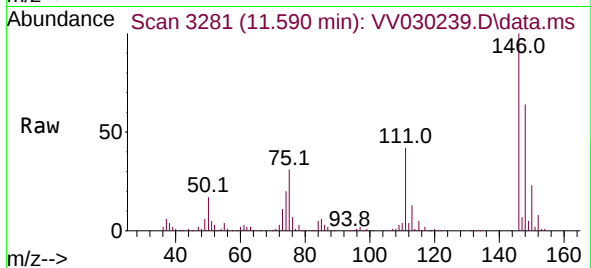
148 64.1 44.1 81.9





#67
 1,2-Dichlorobenzene
 Concen: 6.442 ug/L
 RT: 11.590 min Scan# 31
 Delta R.T. 0.003 min
 Lab File: VV030239.D
 Acq: 17 Mar 2023 16:37

Instrument :
 MSVOA_V
 ClientSampleId :



Tgt Ion:146 Resp: 108020
 Ion Ratio Lower Upper
 146 100
 111 41.5 33.5 50.3
 148 64.0 51.3 76.9

