

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW041223\
 Data File : VW030524.D
 Acq On : 12 Apr 2023 17:46
 Operator : SY/MD
 Sample : 02275-06
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BHDZ2

Quant Time: Apr 13 02:51:06 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR032323WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Apr 13 02:44:31 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.545	114	111817	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.793	117	107242	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.194	152	52839	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.282	65	47787	6.453	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	129.000%
7) Chloroethane-d5	1.536	69	36681	5.104	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	102.000%
11) 1,1-Dichloroethene-d2	2.066	63	121548	6.917	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	138.400%#
20) 2-Butanone-d5	3.812	46	95051	49.657	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	99.320%
24) Chloroform-d	4.262	84	85268	4.757	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.200%
26) 1,2-Dichloroethane-d4	4.954	65	41991	4.965	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.400%
32) Benzene-d6	4.970	84	147760	4.889	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.800%
36) 1,2-Dichloropropane-d6	6.002	67	46224	4.886	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	97.800%
41) Toluene-d8	7.252	98	124925	4.502	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.000%
43) trans-1,3-Dichloroprop...	7.564	79	16968	4.763	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	95.200%
46) 2-Hexanone-d5	8.034	63	70306	49.117	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	98.240%
56) 1,1,2,2-Tetrachloroeth...	10.162	84	30757	4.125	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	82.400%
66) 1,2-Dichlorobenzene-d4	11.571	152	46941	4.970	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	99.400%
Target Compounds						
					Qvalue	
3) Chloromethane	1.217	50	2224	0.124	ug/L	97
6) Bromomethane	1.497	94	392	0.105	ug/L	93
9) Trichlorofluoromethane	1.716	101	5617	0.295	ug/L	93
10) 1,1,2-Trichloro-1,2,2-...	2.073	101	139884	13.295	ug/L	99
12) 1,1-Dichloroethene	2.073	96	91589	9.803	ug/L	88
14) Carbon disulfide	2.246	76	3414	0.111	ug/L #	91
17) Methyl tert-butyl Ether	2.716	73	12820	0.648	ug/L #	89
18) trans-1,2-Dichloroethene	2.703	96	2483	0.252	ug/L	92
19) 1,1-Dichloroethane	3.121	63	74414	3.900	ug/L	99
22) cis-1,2-Dichloroethene	3.825	96	1043772	105.665	ug/L	100
25) Chloroform	4.288	83	102033	5.292	ug/L	96
29) 1,1,1-Trichloroethane	4.526	97	18240	1.058	ug/L	98
31) Carbon tetrachloride	4.745	117	1559	0.100	ug/L	91
33) Benzene	5.024	78	13796	0.362	ug/L	100
34) Trichloroethene	5.844	95	3539379	344.534	ug/L	96
35) Methylcyclohexane	5.998	83	10624	0.659	ug/L #	16
37) 1,2-Dichloropropane	5.998	63	5813	0.594	ug/L #	90
39) cis-1,3-Dichloropropene	6.924	75	1366	0.099	ug/L #	41
45) 1,1,2-Trichloroethane	7.928	97	121351	17.625	ug/L #	6

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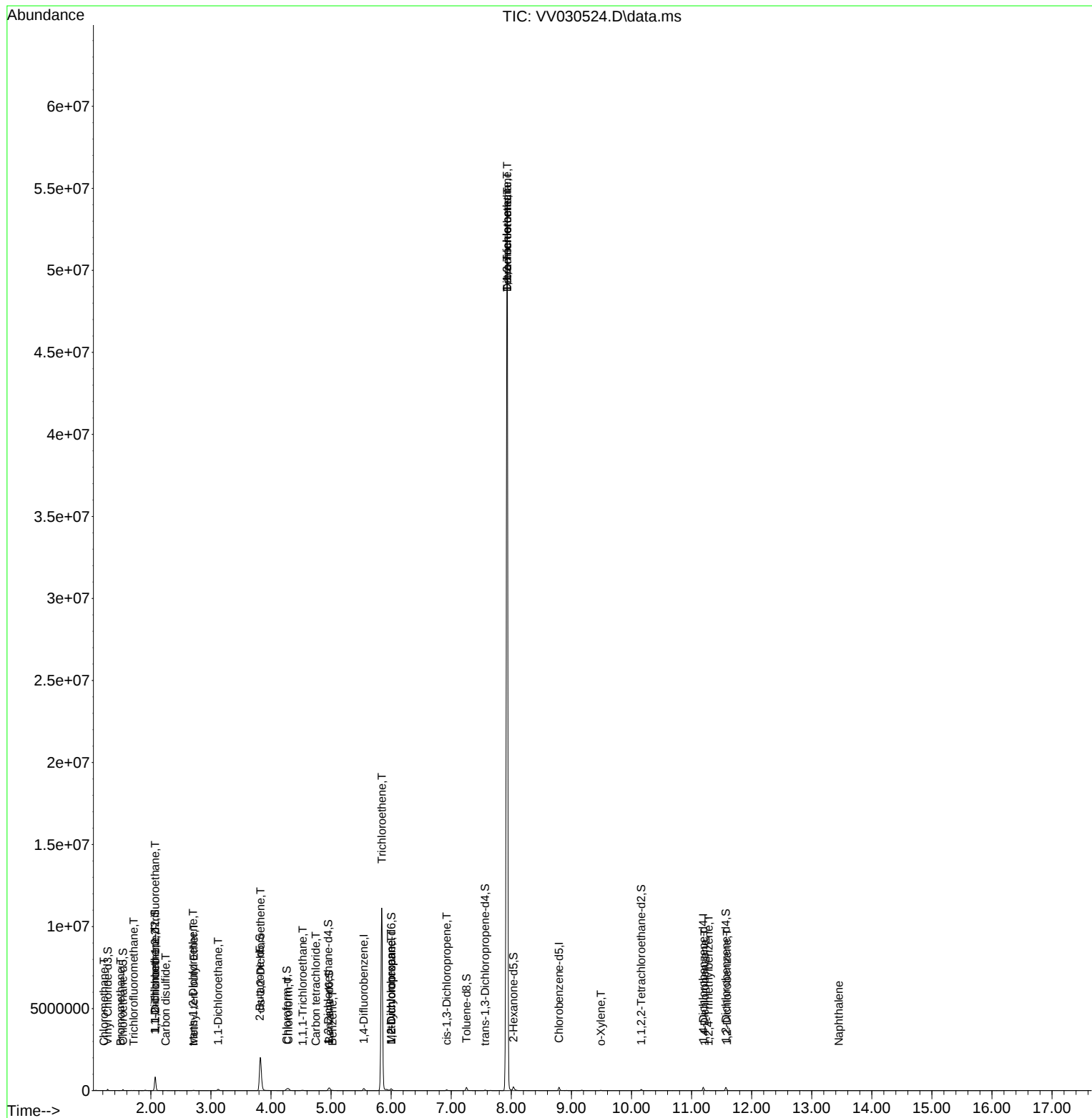
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) Tetrachloroethene	7.931	164	11331599	1249.849	ug/L	92
49) Dibromochloromethane	7.931	129	11103175	1354.702	ug/L #	12
54) o-Xylene	9.490	106	5086	0.313	ug/L	96
63) 1,2,4-Trimethylbenzene	11.284	105	2490	0.077	ug/L	95
65) 1,4-Dichlorobenzene	11.217	146	3664	0.187	ug/L	97
67) 1,2-Dichlorobenzene	11.590	146	8381	0.479	ug/L	96
71) Naphthalene	13.452	128	6538	0.396	ug/L	100

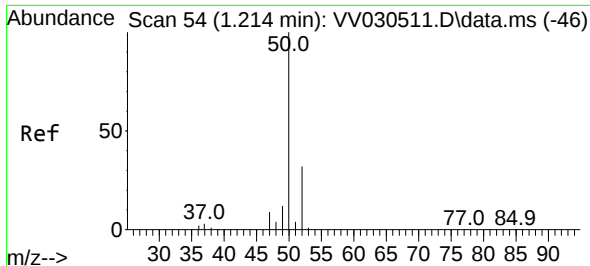
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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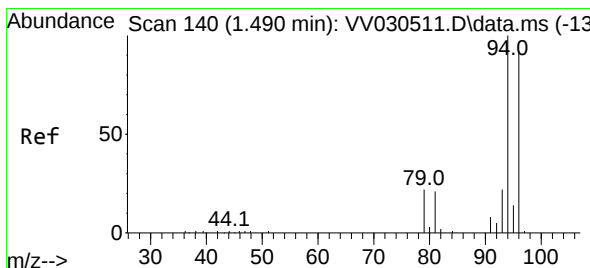
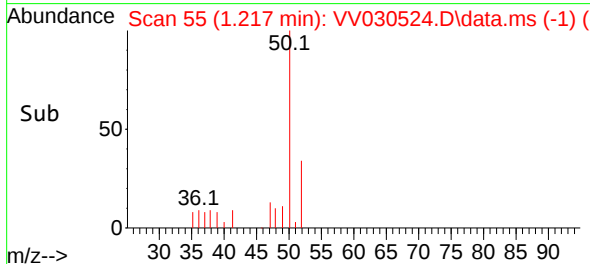
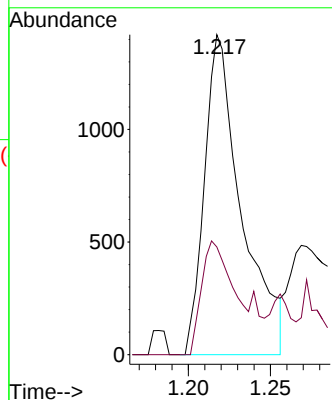
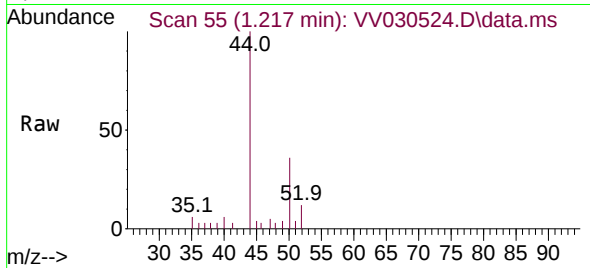




#3
Chloromethane
Concen: 0.124 ug/L
RT: 1.217 min Scan# 51
Delta R.T. 0.003 min
Lab File: VV030524.D
Acq: 12 Apr 2023 17:46

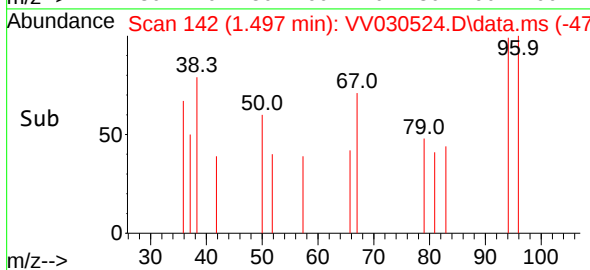
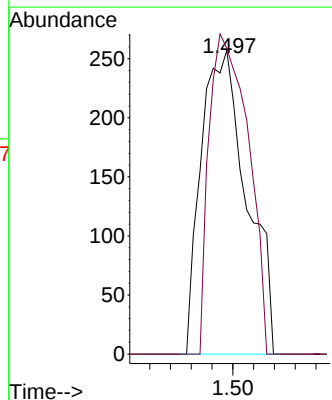
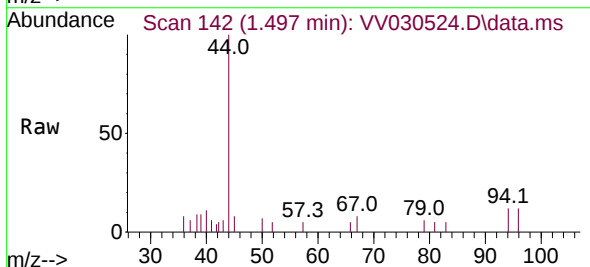
Instrument :
MSVOA_V
ClientSampleId :
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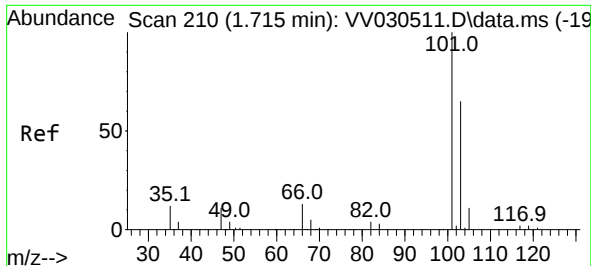
Tgt Ion: 50 Resp: 2224
Ion Ratio Lower Upper
50 100
52 33.6 22.3 41.5



#6
Bromomethane
Concen: 0.105 ug/L
RT: 1.497 min Scan# 142
Delta R.T. 0.007 min
Lab File: VV030524.D
Acq: 12 Apr 2023 17:46

Tgt Ion: 94 Resp: 392
Ion Ratio Lower Upper
94 100
96 100.8 66.1 122.7

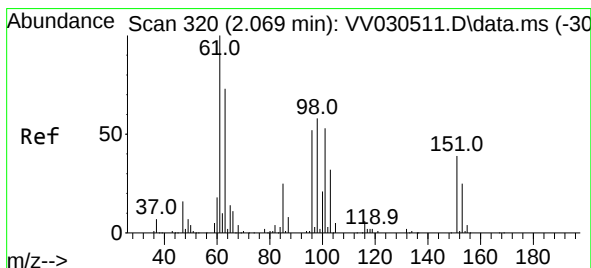
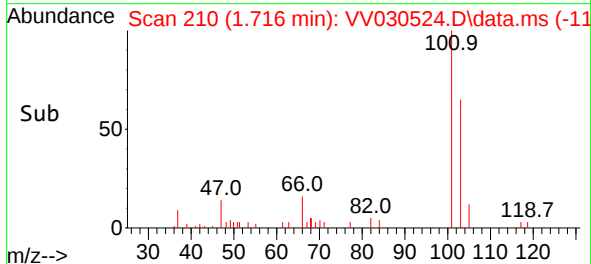
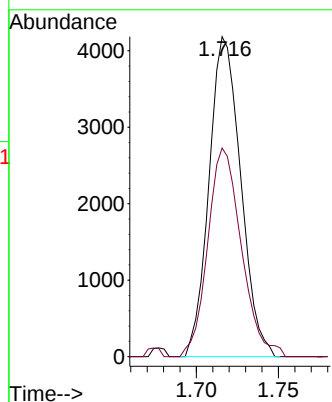
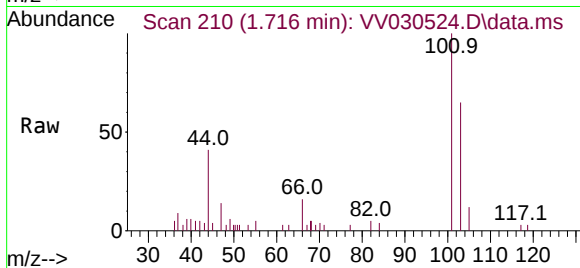




#9
Trichlorofluoromethane
Concen: 0.295 ug/L
RT: 1.716 min Scan# 210
Delta R.T. 0.000 min
Lab File: VV030524.D
Acq: 12 Apr 2023 17:46

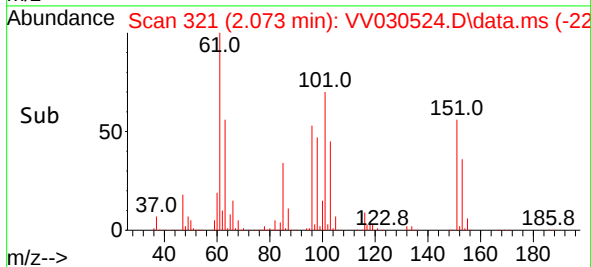
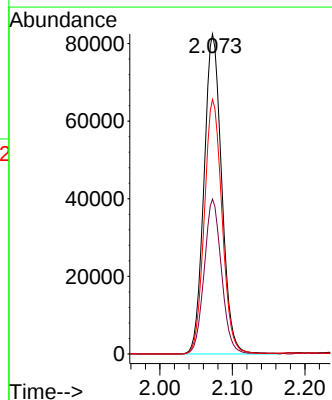
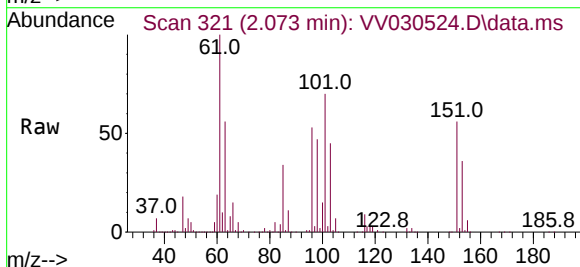
Instrument :
MSVOA_V
ClientSampleId :
BHDZ2

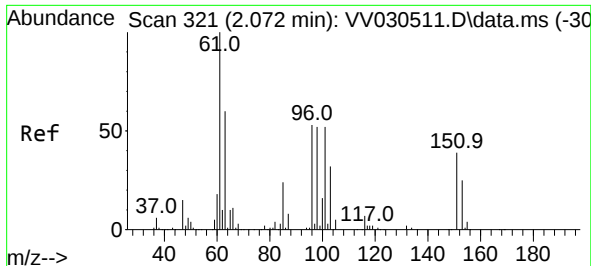
Tgt Ion:101 Resp: 5617
Ion Ratio Lower Upper
101 100
103 69.1 51.0 76.6



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 13.295 ug/L
RT: 2.073 min Scan# 321
Delta R.T. 0.003 min
Lab File: VV030524.D
Acq: 12 Apr 2023 17:46

Tgt Ion:101 Resp: 139884
Ion Ratio Lower Upper
101 100
85 47.4 38.1 57.1
151 79.6 62.7 94.1

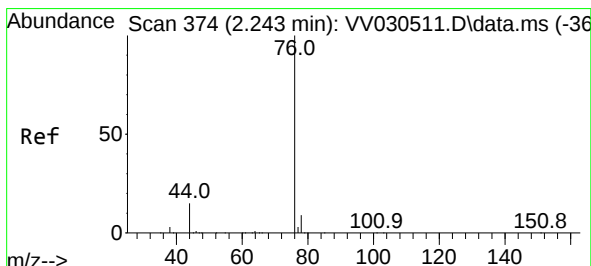
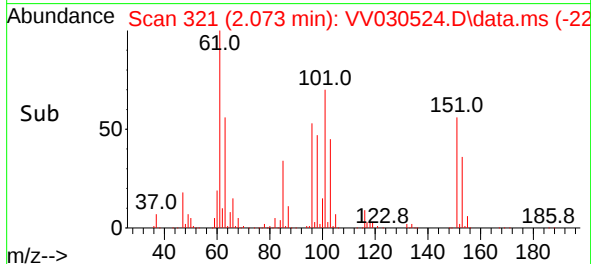
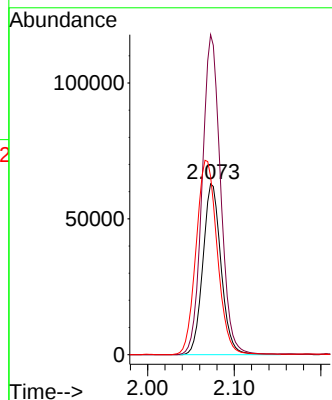
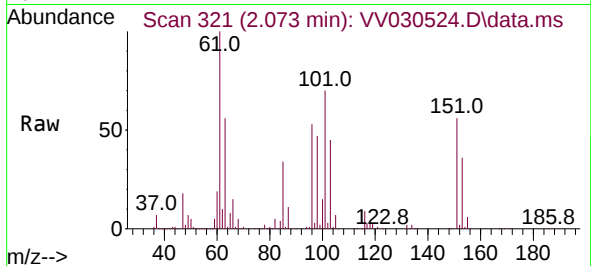




#12
1,1-Dichloroethene
Concen: 9.803 ug/L
RT: 2.073 min Scan# 311
Delta R.T. 0.000 min
Lab File: VV030524.D
Acq: 12 Apr 2023 17:46

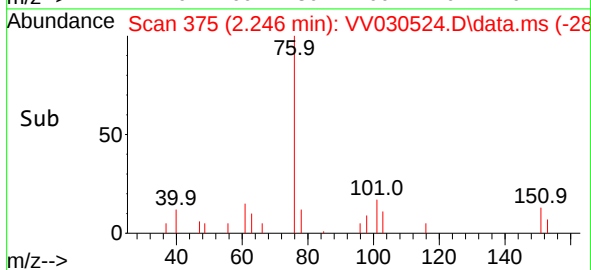
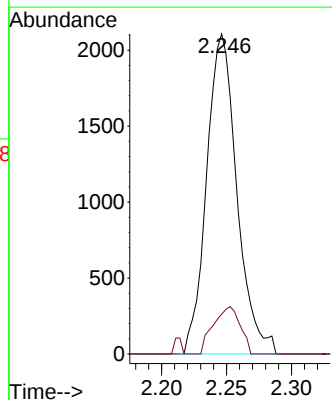
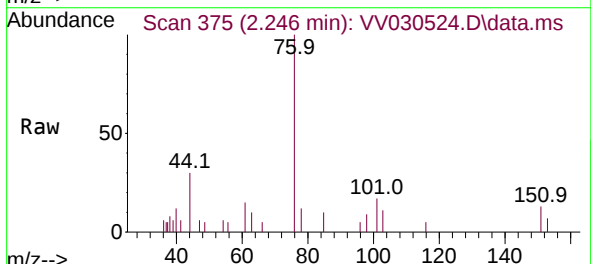
Instrument :
MSVOA_V
ClientSampleId :
BHDZ2

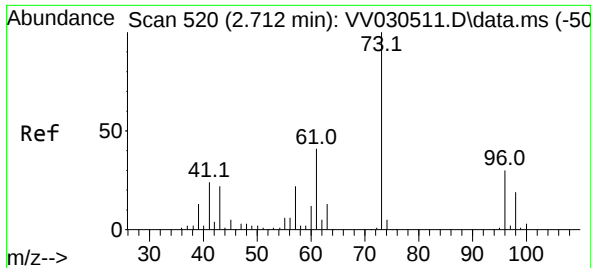
Tgt Ion: 96 Resp: 91589
Ion Ratio Lower Upper
96 100
61 187.3 136.3 253.1
63 104.3 92.1 171.1



#14
Carbon disulfide
Concen: 0.111 ug/L
RT: 2.246 min Scan# 375
Delta R.T. 0.003 min
Lab File: VV030524.D
Acq: 12 Apr 2023 17:46

Tgt Ion: 76 Resp: 3414
Ion Ratio Lower Upper
76 100
78 12.4 7.3 10.9#

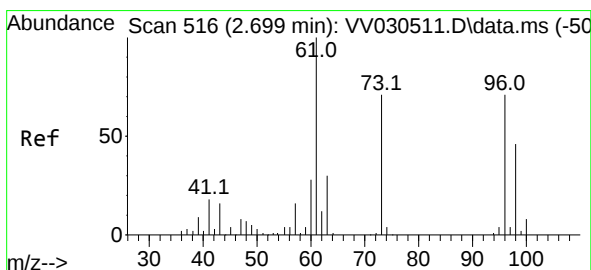
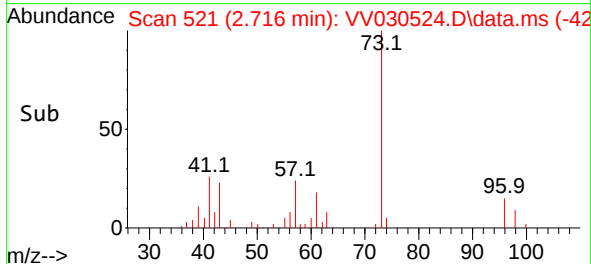
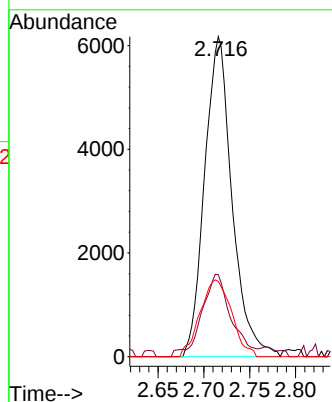
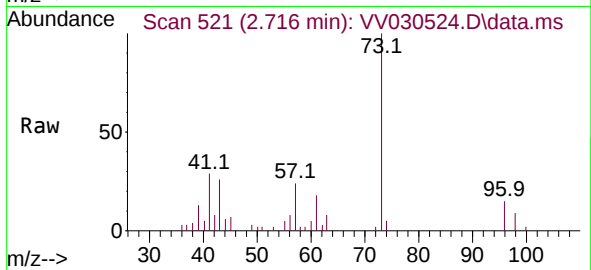




#17
Methyl tert-butyl Ether
Concen: 0.648 ug/L
RT: 2.716 min Scan# 517
Delta R.T. 0.003 min
Lab File: VV030524.D
Acq: 12 Apr 2023 17:46

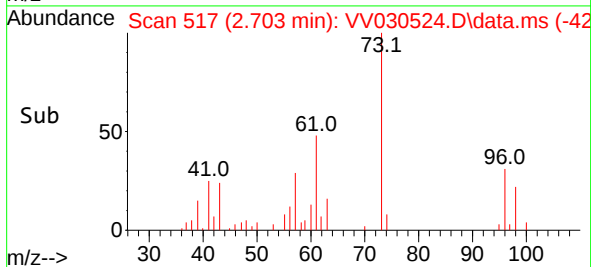
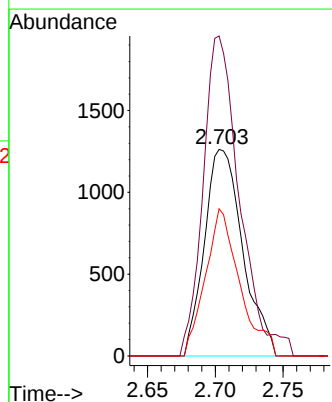
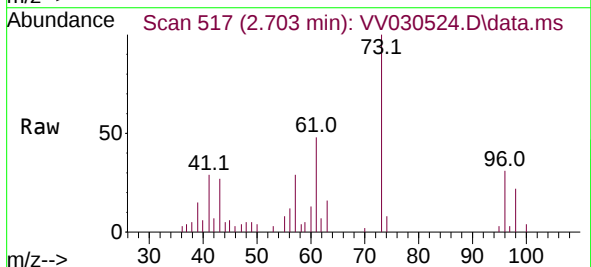
Instrument :
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ClientSampleId :
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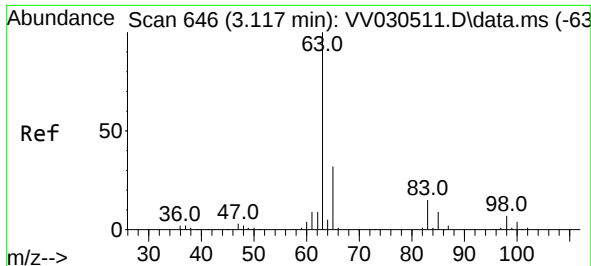
Tgt Ion: 73 Resp: 12820
Ion Ratio Lower Upper
73 100
43 27.5 17.4 26.2#
57 27.5 18.3 27.5#



#18
trans-1,2-Dichloroethene
Concen: 0.252 ug/L
RT: 2.703 min Scan# 517
Delta R.T. 0.003 min
Lab File: VV030524.D
Acq: 12 Apr 2023 17:46

Tgt Ion: 96 Resp: 2483
Ion Ratio Lower Upper
96 100
61 154.9 101.7 188.9
98 71.3 45.8 85.2





#19

1,1-Dichloroethane

Concen: 3.900 ug/L

RT: 3.121 min Scan# 64

Delta R.T. 0.003 min

Lab File: VV030524.D

Acq: 12 Apr 2023 17:46

Instrument :

MSVOA_V

ClientSampleId :

BHDZ2

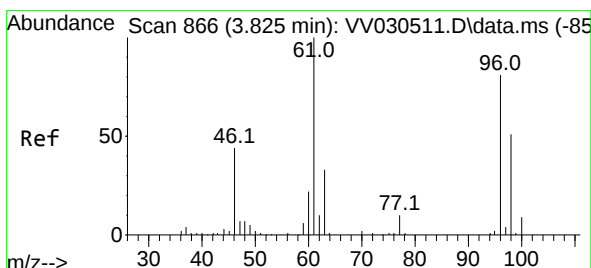
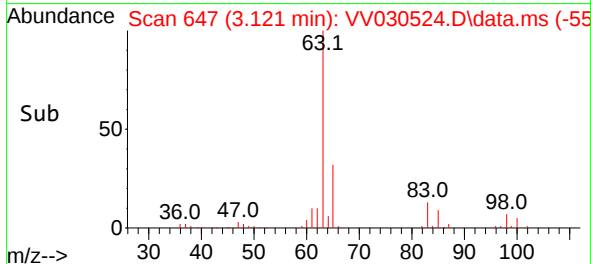
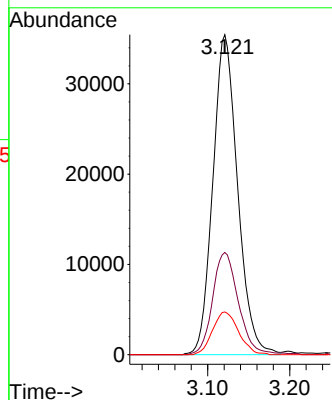
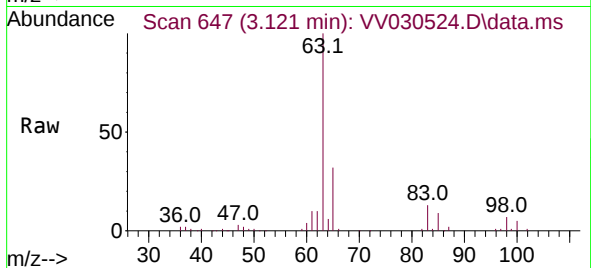
Tgt Ion: 63 Resp: 74414

Ion Ratio Lower Upper

63 100

65 32.0 21.7 40.3

83 13.3 9.1 16.9



#22

cis-1,2-Dichloroethene

Concen: 105.665 ug/L

RT: 3.825 min Scan# 866

Delta R.T. 0.000 min

Lab File: VV030524.D

Acq: 12 Apr 2023 17:46

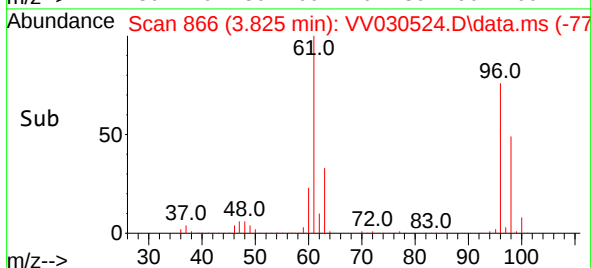
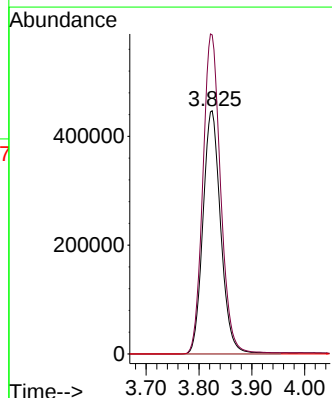
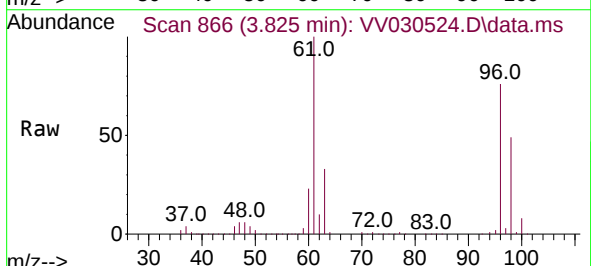
Tgt Ion: 96 Resp: 1043772

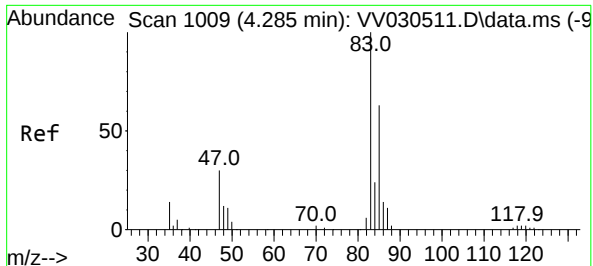
Ion Ratio Lower Upper

96 100

61 131.1 92.0 170.8

68 0.0 0.0 0.0





#25

Chloroform

Concen: 5.292 ug/L

RT: 4.288 min Scan# 1009

Delta R.T. 0.003 min

Lab File: VV030524.D

Acq: 12 Apr 2023 17:46

Instrument :

MSVOA_V

ClientSampleId :

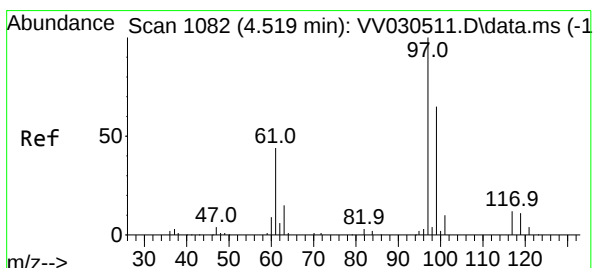
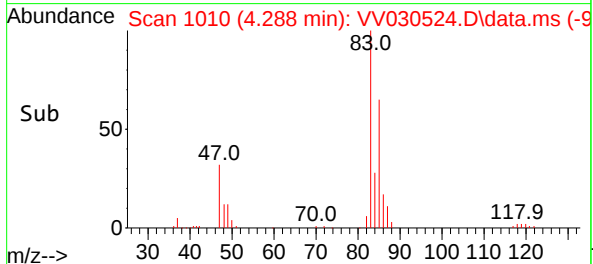
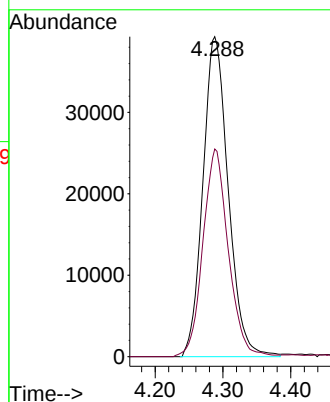
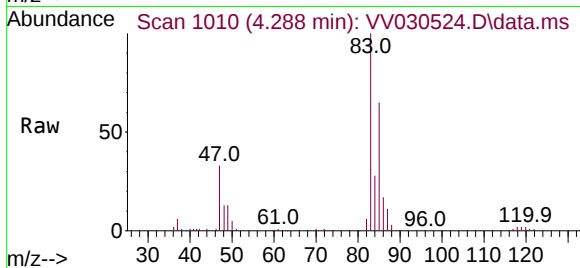
BHDZ2

Tgt Ion: 83 Resp: 102033

Ion Ratio Lower Upper

83 100

85 64.9 47.6 88.4



#29

1,1,1-Trichloroethane

Concen: 1.058 ug/L

RT: 4.526 min Scan# 1084

Delta R.T. 0.007 min

Lab File: VV030524.D

Acq: 12 Apr 2023 17:46

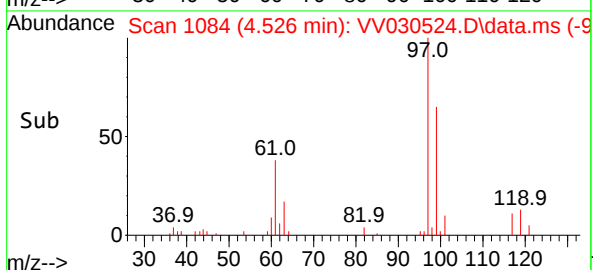
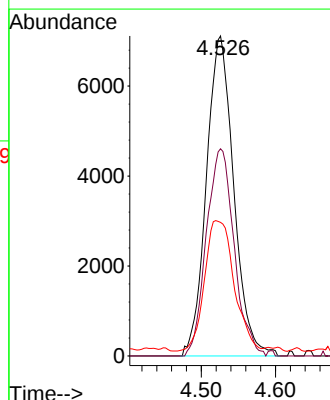
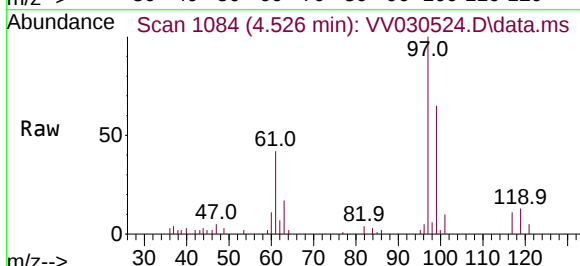
Tgt Ion: 97 Resp: 18240

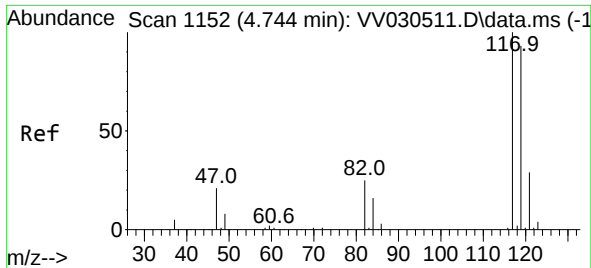
Ion Ratio Lower Upper

97 100

99 65.6 50.9 76.3

61 43.8 35.9 53.9

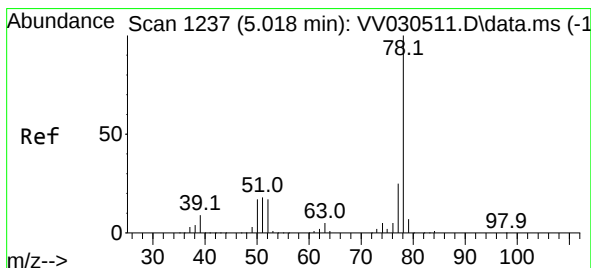
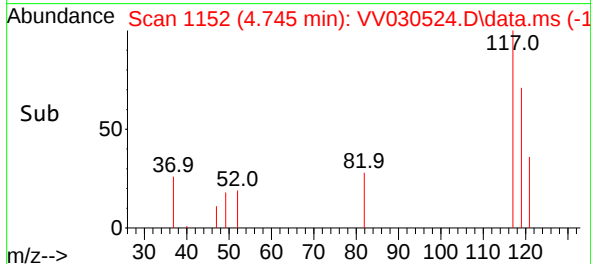
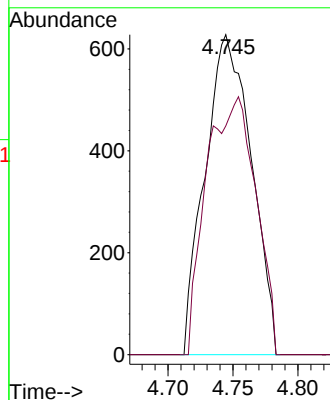
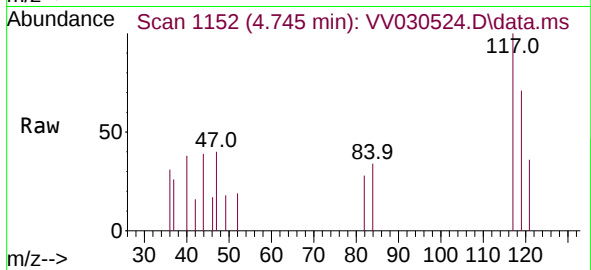




#31
Carbon tetrachloride
Concen: 0.100 ug/L
RT: 4.745 min Scan# 1152
Delta R.T. 0.000 min
Lab File: VV030524.D
Acq: 12 Apr 2023 17:46

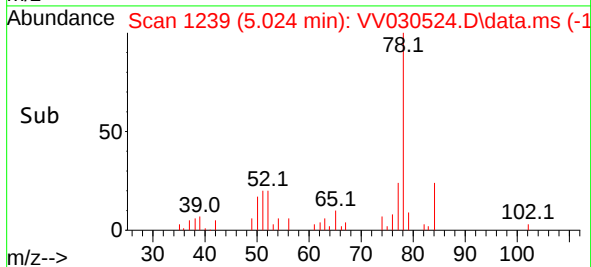
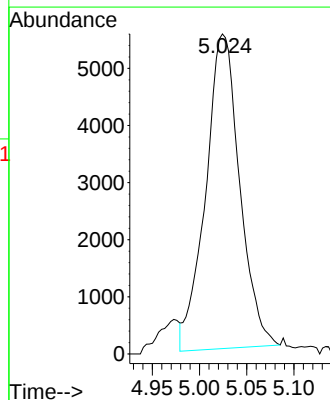
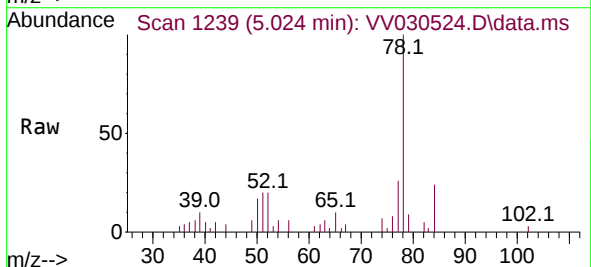
Instrument :
MSVOA_V
ClientSampleId :
BHDZ2

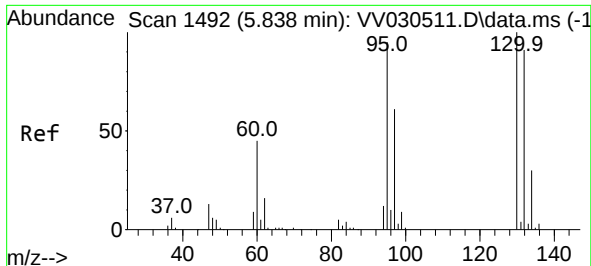
Tgt Ion:117 Resp: 1559
Ion Ratio Lower Upper
117 100
119 86.3 76.2 114.4



#33
Benzene
Concen: 0.362 ug/L
RT: 5.024 min Scan# 1239
Delta R.T. 0.007 min
Lab File: VV030524.D
Acq: 12 Apr 2023 17:46

Tgt Ion: 78 Resp: 13796



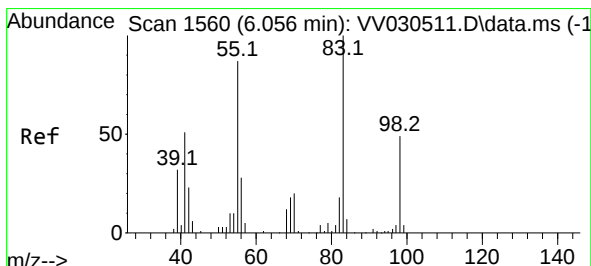
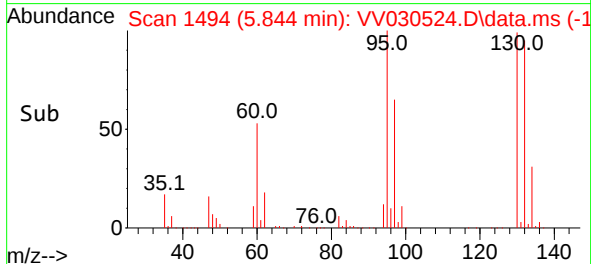
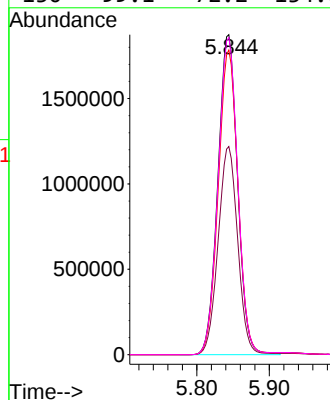
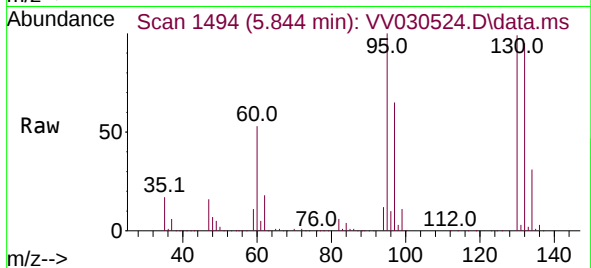


#34
Trichloroethene
Concen: 344.534 ug/L
RT: 5.844 min Scan# 1494
Delta R.T. 0.007 min
Lab File: VV030524.D
Acq: 12 Apr 2023 17:46

Instrument :
MSVOA_V
ClientSampleId :
BHDZ2

Tgt Ion: 95 Resp: 3539379

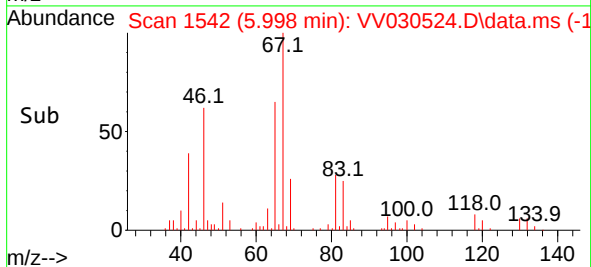
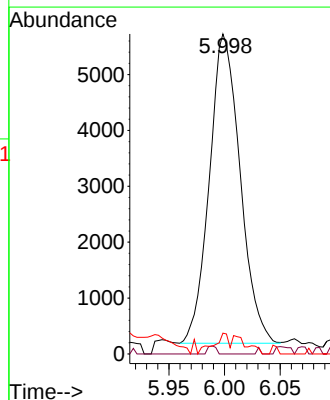
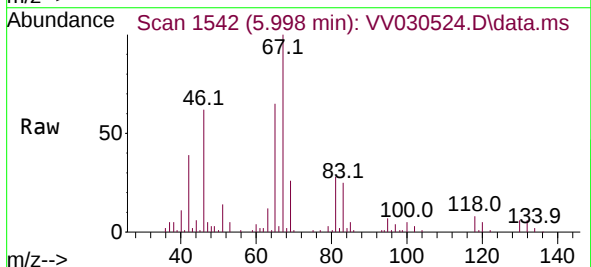
Ion	Ratio	Lower	Upper
95	100		
97	65.0	44.2	82.2
132	95.2	69.5	129.1
130	99.1	72.2	134.0

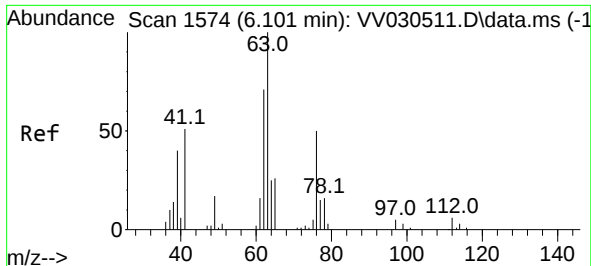


#35
Methylcyclohexane
Concen: 0.659 ug/L
RT: 5.998 min Scan# 1542
Delta R.T. -0.058 min
Lab File: VV030524.D
Acq: 12 Apr 2023 17:46

Tgt Ion: 83 Resp: 10624

Ion	Ratio	Lower	Upper
83	100		
55	1.1	66.6	100.0#
98	0.0	38.6	58.0#





#37

1,2-Dichloropropane

Concen: 0.594 ug/L

RT: 5.998 min Scan# 1

Delta R.T. -0.103 min

Lab File: VV030524.D

Acq: 12 Apr 2023 17:46

Instrument :

MSVOA_V

ClientSampleId :

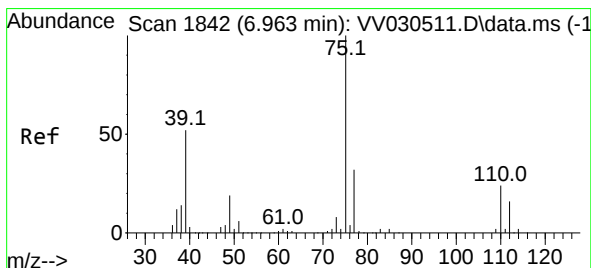
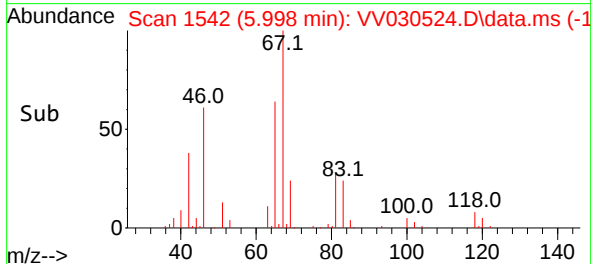
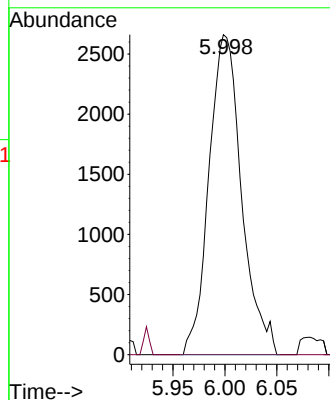
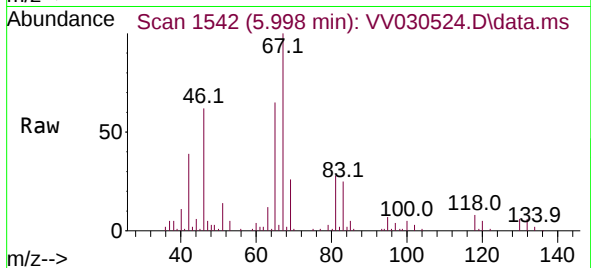
BHDZ2

Tgt Ion: 63 Resp: 5813

Ion Ratio Lower Upper

63 100

112 1.5 3.9 5.9#



#39

cis-1,3-Dichloropropene

Concen: 0.099 ug/L

RT: 6.924 min Scan# 1830

Delta R.T. -0.038 min

Lab File: VV030524.D

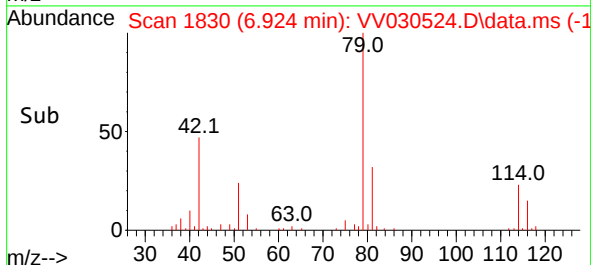
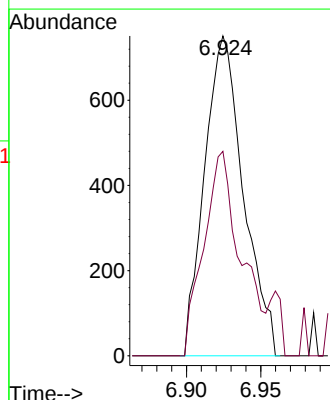
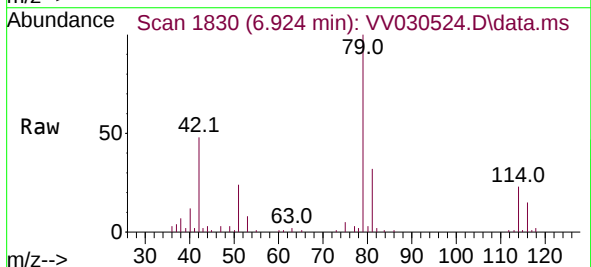
Acq: 12 Apr 2023 17:46

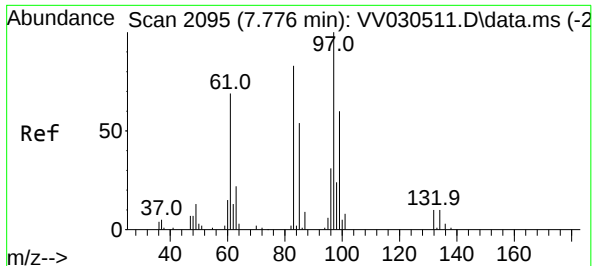
Tgt Ion: 75 Resp: 1366

Ion Ratio Lower Upper

75 100

77 63.9 22.0 41.0#





#45

1,1,2-Trichloroethane

Concen: 17.625 ug/L

RT: 7.928 min Scan# 2142

Delta R.T. 0.151 min

Lab File: VV030524.D

Acq: 12 Apr 2023 17:46

Instrument :

MSVOA_V

ClientSampleId :

BHDZ2

Tgt Ion: 97 Resp: 121351

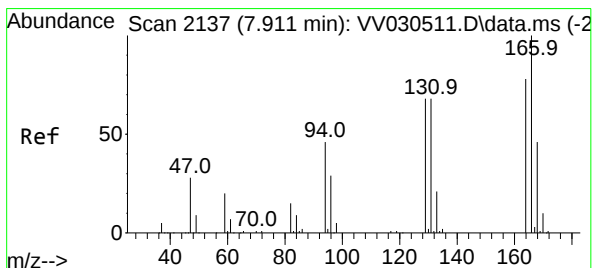
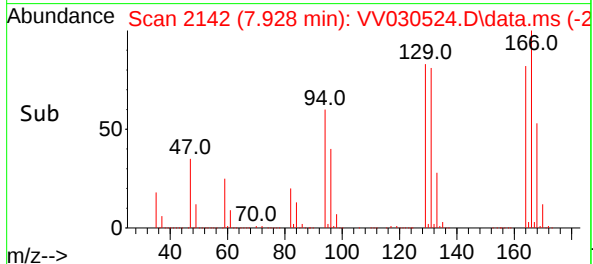
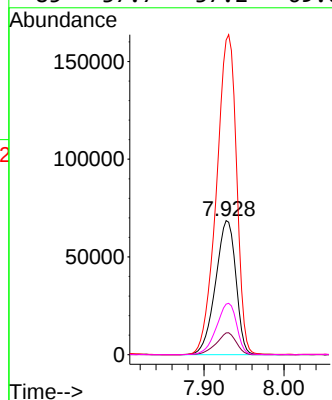
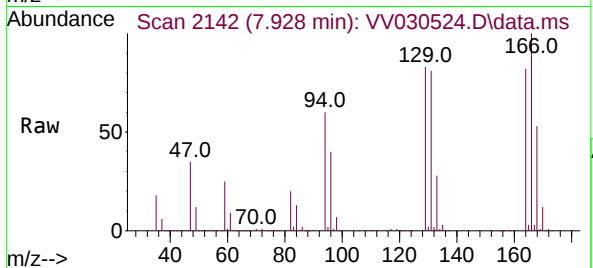
Ion Ratio Lower Upper

97 100

99 16.2 44.0 81.8#

83 234.4 58.8 109.2#

85 37.7 37.2 69.0



#47

Tetrachloroethene

Concen: 1249.849 ug/L

RT: 7.931 min Scan# 2143

Delta R.T. 0.019 min

Lab File: VV030524.D

Acq: 12 Apr 2023 17:46

Tgt Ion:164 Resp:11331599

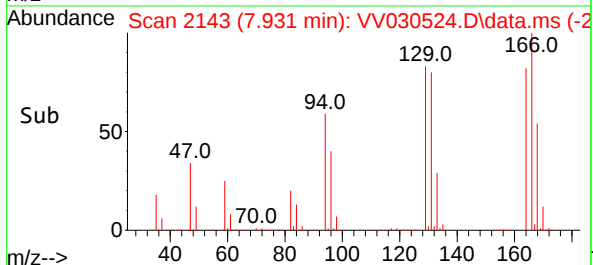
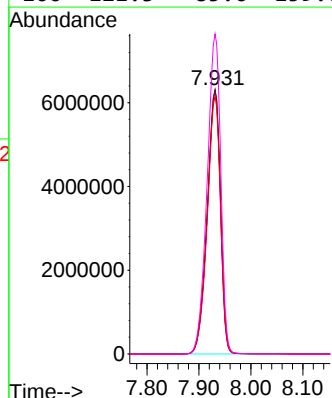
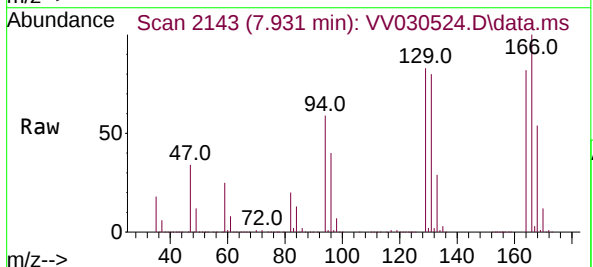
Ion Ratio Lower Upper

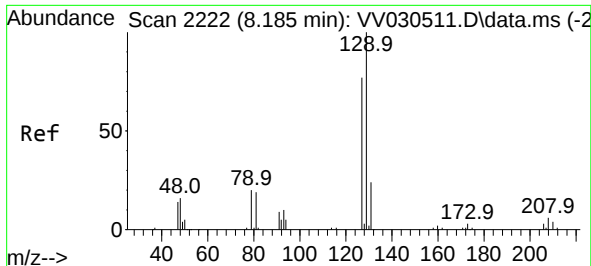
164 100

129 100.1 60.8 112.8

131 97.5 61.7 114.7

166 121.3 85.6 159.0





#49

Dibromochloromethane

Concen: 1354.702 ug/L

RT: 7.931 min Scan# 2143

Delta R.T. -0.254 min

Lab File: VV030524.D

Acq: 12 Apr 2023 17:46

Instrument :

MSVOA_V

ClientSampleId :

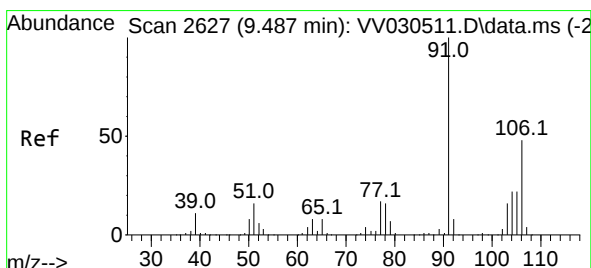
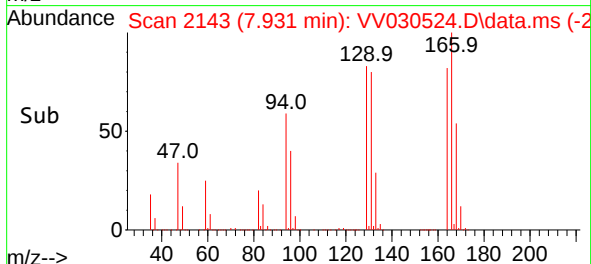
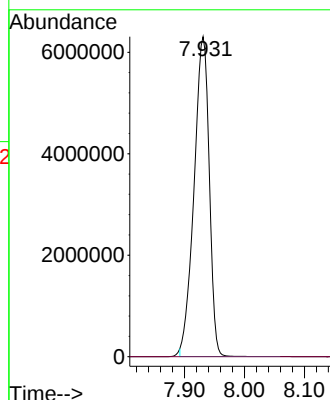
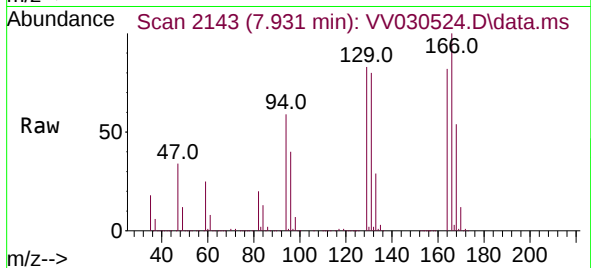
BHDZ2

Tgt Ion:129 Resp:11103175

Ion Ratio Lower Upper

129 100

127 0.0 52.7 97.9#



#54

o-Xylene

Concen: 0.313 ug/L

RT: 9.490 min Scan# 2628

Delta R.T. 0.003 min

Lab File: VV030524.D

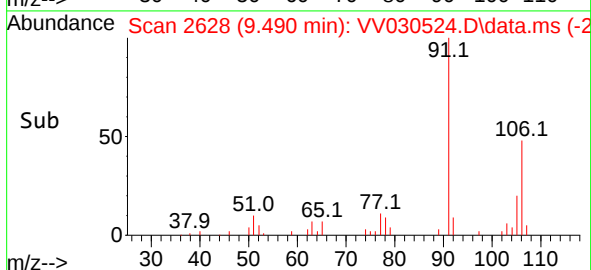
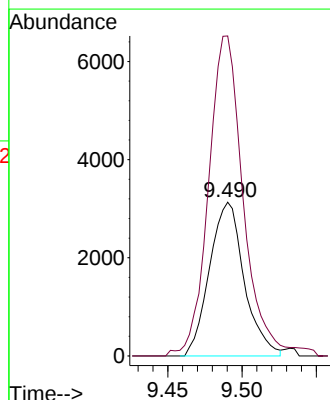
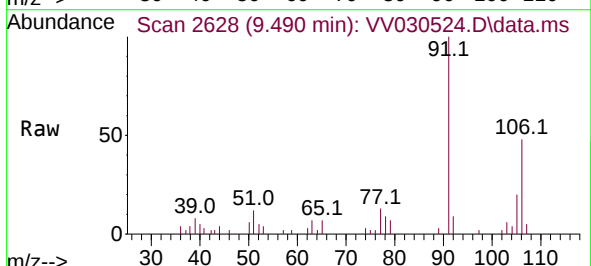
Acq: 12 Apr 2023 17:46

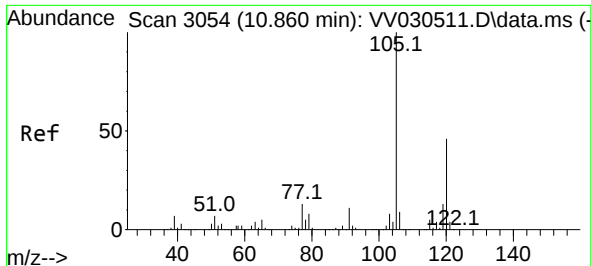
Tgt Ion:106 Resp: 5086

Ion Ratio Lower Upper

106 100

91 208.1 149.8 278.2

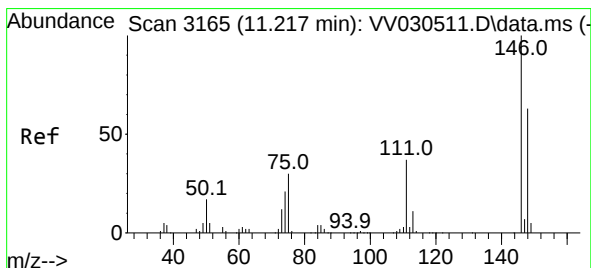
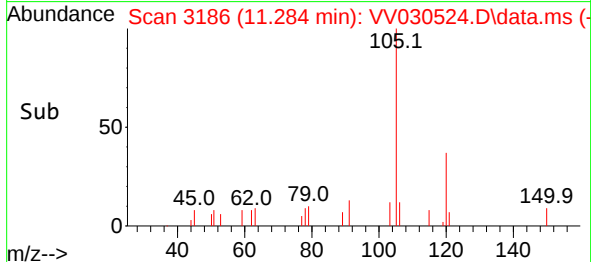
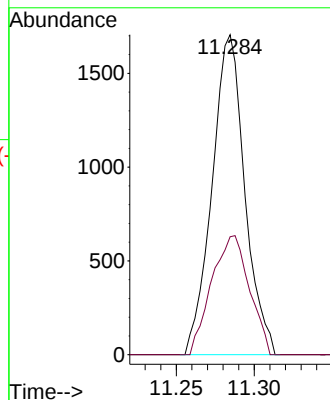
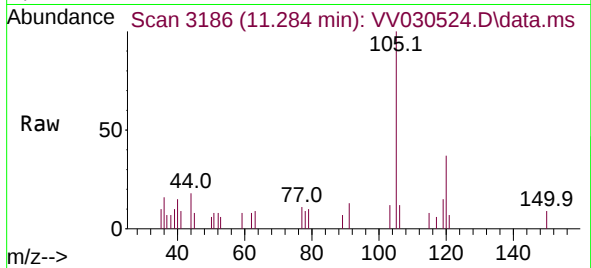




#63
1,2,4-Trimethylbenzene
Concen: 0.077 ug/L
RT: 11.284 min Scan# 3186
Delta R.T. 0.425 min
Lab File: VV030524.D
Acq: 12 Apr 2023 17:46

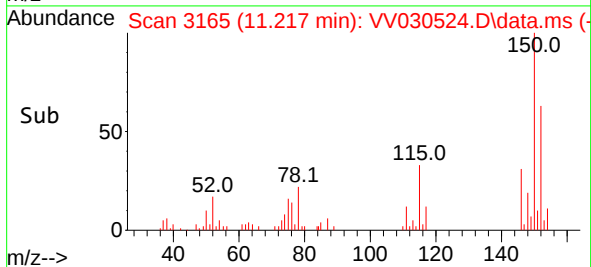
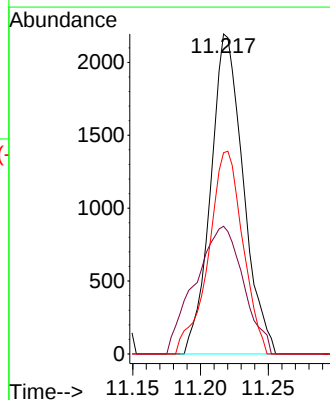
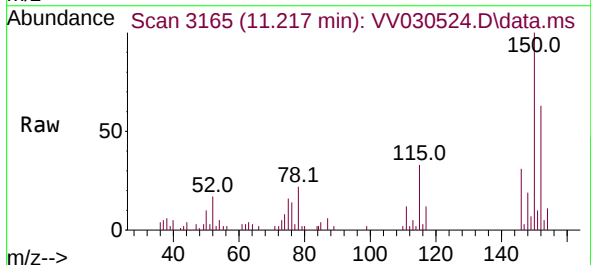
Instrument :
MSVOA_V
ClientSampleId :
BHDZ2

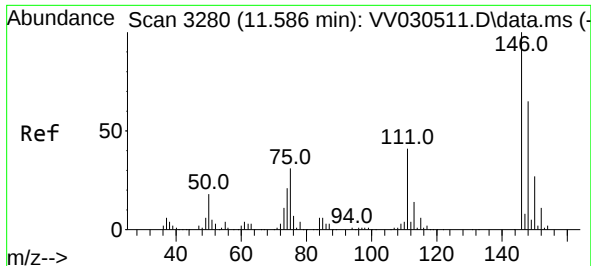
Tgt Ion:105 Resp: 2490
Ion Ratio Lower Upper
105 100
120 43.0 36.8 55.2



#65
1,4-Dichlorobenzene
Concen: 0.187 ug/L
RT: 11.217 min Scan# 3165
Delta R.T. 0.000 min
Lab File: VV030524.D
Acq: 12 Apr 2023 17:46

Tgt Ion:146 Resp: 3664
Ion Ratio Lower Upper
146 100
111 39.9 26.0 48.4
148 62.9 45.2 84.0

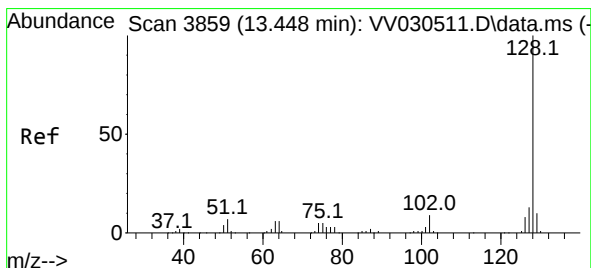
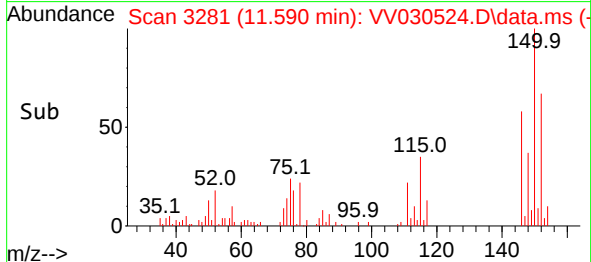
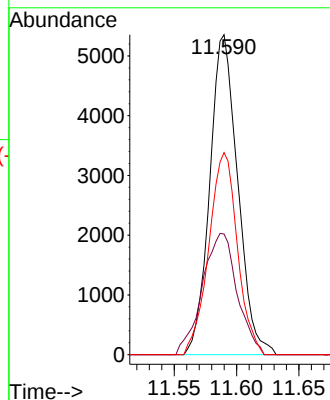
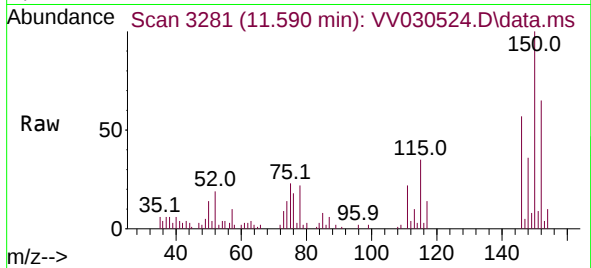




#67
1,2-Dichlorobenzene
Concen: 0.479 ug/L
RT: 11.590 min Scan# 31
Delta R.T. 0.003 min
Lab File: VV030524.D
Acq: 12 Apr 2023 17:46

Instrument :
MSVOA_V
ClientSampleId :
BHDZ2

Tgt Ion:146 Resp: 8381
Ion Ratio Lower Upper
146 100
111 37.7 33.1 49.7
148 63.2 52.2 78.2



#71
Naphthalene
Concen: 0.396 ug/L
RT: 13.452 min Scan# 3860
Delta R.T. 0.003 min
Lab File: VV030524.D
Acq: 12 Apr 2023 17:46

Tgt Ion:128 Resp: 6538
Ion Ratio Lower Upper
128 100
129 11.3 8.9 13.3
127 13.4 10.8 16.2

