

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW111221\
 Data File : VW023430.D
 Acq On : 12 Nov 2021 09:31
 Operator : SY/MD
 Sample : M4542-09DL 5X
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BGGF3DL

Quant Time: Nov 13 00:10:34 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR110421WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Nov 12 04:43:24 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	0.000	114	0	0.000	ug/L	-5.62
28) Chlorobenzene-d5	8.860	117	227	5.000	ug/L	# 0.00
58) 1,4-Dichlorobenzene-d4	11.249	152	493	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.371	65	23	0.000	ug/L	0.07
Spiked Amount	5.000	Range	40 - 130	Recovery	=	0.000%#
7) Chloroethane-d5	0.000	69	0	0.000	ug/L	
Spiked Amount	5.000	Range	65 - 130	Recovery	=	0.000%#
11) 1,1-Dichloroethene-d2	2.114	63	551	0.000	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	0.000%#
20) 2-Butanone-d5	0.000	46	0	0.000	ug/L	
Spiked Amount	50.000	Range	40 - 130	Recovery	=	0.000%#
24) Chloroform-d	4.394	84	61	0.000	ug/L	0.05
Spiked Amount	5.000	Range	70 - 125	Recovery	=	0.000%#
26) 1,2-Dichloroethane-d4	4.924	65	22	0.000	ug/L	-0.11
Spiked Amount	5.000	Range	70 - 130	Recovery	=	0.000%#
32) Benzene-d6	0.000	84	0	0.000	ug/L	
Spiked Amount	5.000	Range	70 - 125	Recovery	=	0.000%#
36) 1,2-Dichloropropane-d6	6.136	67	19	1.108	ug/L	0.06
Spiked Amount	5.000	Range	60 - 140	Recovery	=	22.200%#
41) Toluene-d8	7.336	98	21	0.385	ug/L	0.01
Spiked Amount	5.000	Range	70 - 130	Recovery	=	7.600%#
43) trans-1,3-Dichloroprop...	0.000	79	0	0.000	ug/L	
Spiked Amount	5.000	Range	55 - 130	Recovery	=	0.000%#
46) 2-Hexanone-d5	0.000	63	0	0.000	ug/L	
Spiked Amount	50.000	Range	45 - 130	Recovery	=	0.000%#
56) 1,1,2,2-Tetrachloroeth...	10.236	84	54	4.380	ug/L	0.02
Spiked Amount	5.000	Range	65 - 120	Recovery	=	87.600%
66) 1,2-Dichlorobenzene-d4	11.628	152	275	3.350	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	67.000%#
Target Compounds						
					Qvalue	
29) 1,1,1-Trichloroethane	4.612	97	36089	1308.991	ug/L	99
31) Carbon tetrachloride	4.609	117	4776	192.889	ug/L	96
33) Benzene	5.120	78	246	3.877	ug/L	100
34) Trichloroethene	5.915	95	51147	3031.406	ug/L	95
35) Methylcyclohexane	6.136	83	649	24.370	ug/L	# 67
37) 1,2-Dichloropropane	5.976	63	20	1.350	ug/L	# 83
40) 4-Methyl-2-pentanone	7.246	43	74	10.772	ug/L	# 75
42) Toluene	7.397	91	3856	56.821	ug/L	93
45) 1,1,2-Trichloroethane	7.796	97	20	1.879	ug/L	# 15
47) Tetrachloroethene	7.979	164	3339	228.346	ug/L	96
48) 2-Hexanone	8.152	43	21	4.363	ug/L	# 38
49) Dibromochloromethane	7.982	129	2971	220.321	ug/L	# 10
51) Chlorobenzene	8.886	112	31799	704.970	ug/L	96
52) Ethylbenzene	9.027	91	371	5.183	ug/L	# 42
53) m,p-xylene	9.152	106	253	9.007	ug/L	91
54) o-xylene	9.548	106	1035	39.276	ug/L	92
55) Styrene	9.583	104	61	1.351	ug/L	# 34
57) 1,1,2,2-Tetrachloroethane	10.239	83	405	34.733	ug/L	# 56
60) Isopropylbenzene	9.934	105	4851	17.147	ug/L	94

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

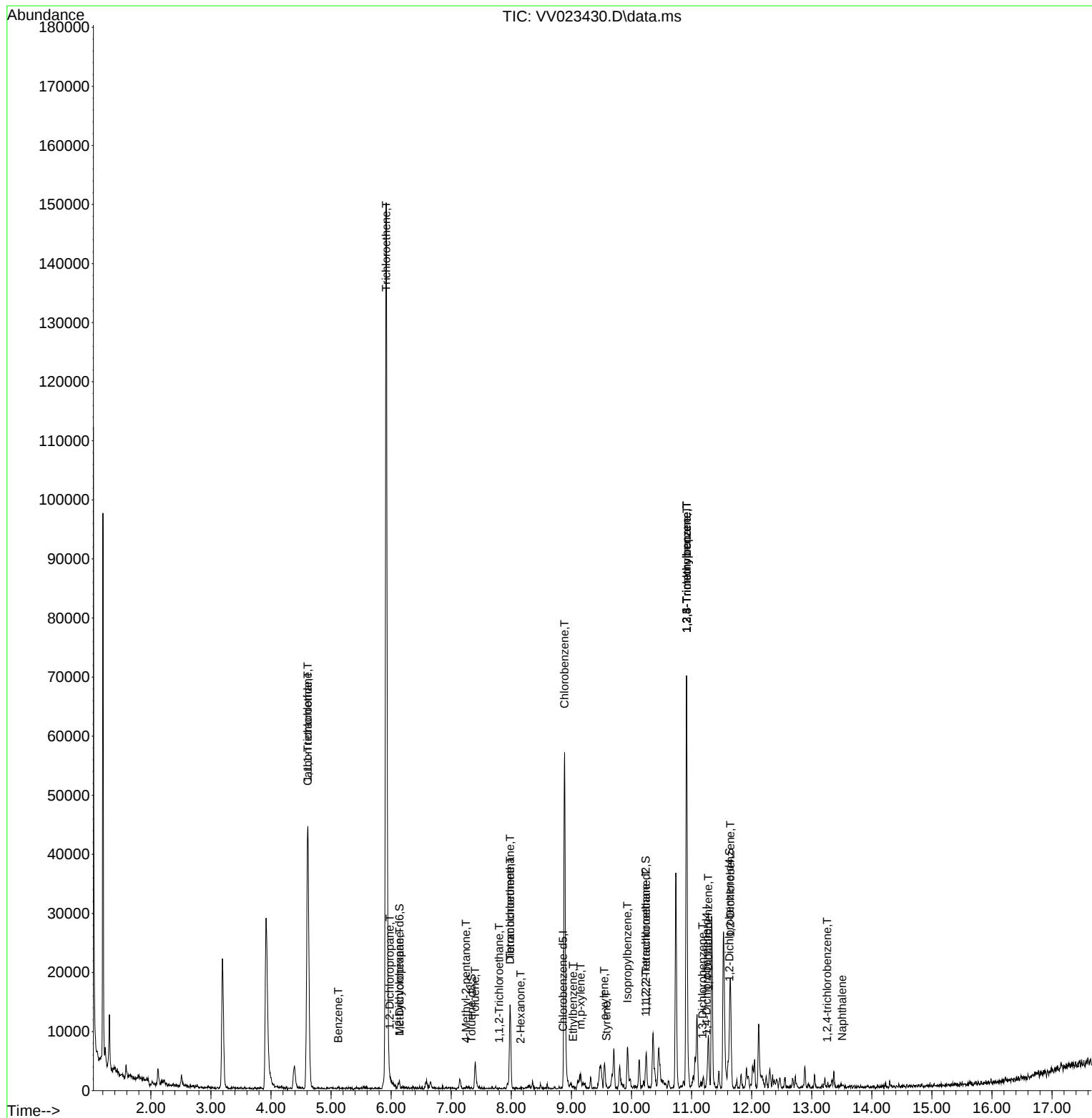
61) 1,2,3-Trichloropropane	10.918	75	549	16.764	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.918	105	37810	161.184	ug/L	96
63) 1,2,4-Trimethylbenzene	10.918	105	37810	161.943	ug/L	100
64) 1,3-Dichlorobenzene	11.181	146	440	3.044	ug/L #	74
65) 1,4-Dichlorobenzene	11.278	146	3898	26.405	ug/L	88
67) 1,2-Dichlorobenzene	11.647	146	5002	38.671	ug/L #	93
70) 1,2,4-trichlorobenzene	13.258	180	110	1.214	ug/L #	74
71) Naphthalene	13.506	128	433	3.240	ug/L #	76

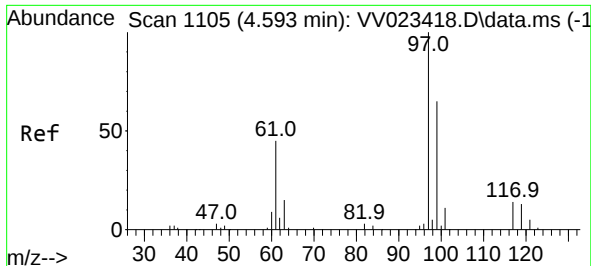
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#29

1,1,1-Trichloroethane

Concen: 1308.991 ug/L

RT: 4.612 min Scan# 1111

Delta R.T. 0.019 min

Lab File: VV023430.D

Acq: 12 Nov 2021 09:31

Instrument :

MSVOA_V

ClientSampleId :

BGGF3DL

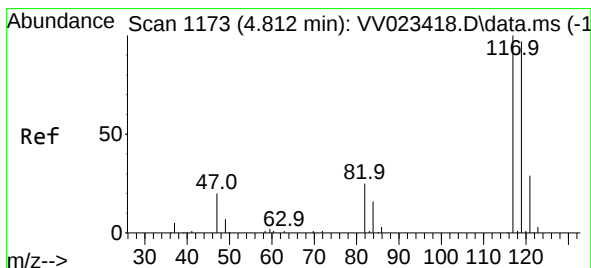
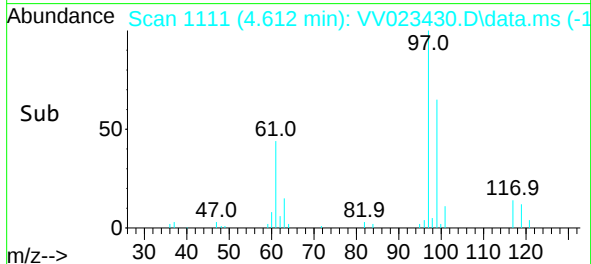
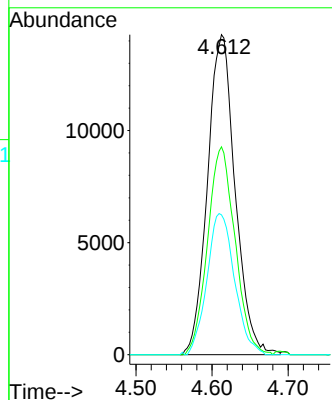
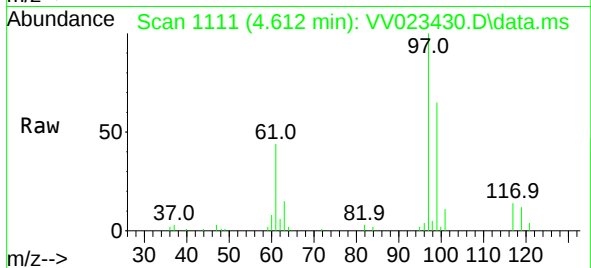
Tgt Ion: 97 Resp: 36089

Ion Ratio Lower Upper

97 100

99 64.5 51.0 76.4

61 43.9 34.1 51.1



#31

Carbon tetrachloride

Concen: 192.889 ug/L

RT: 4.609 min Scan# 1110

Delta R.T. -0.203 min

Lab File: VV023430.D

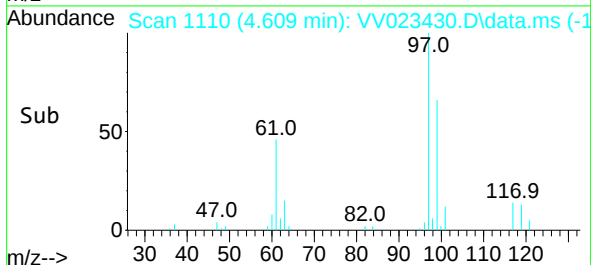
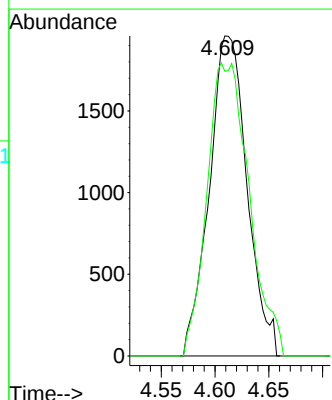
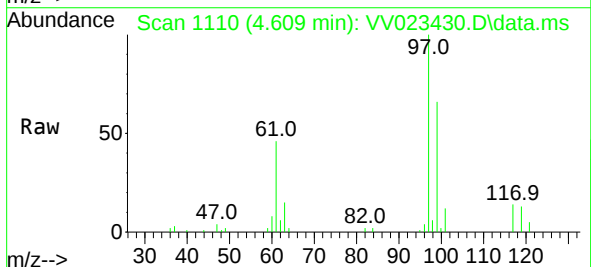
Acq: 12 Nov 2021 09:31

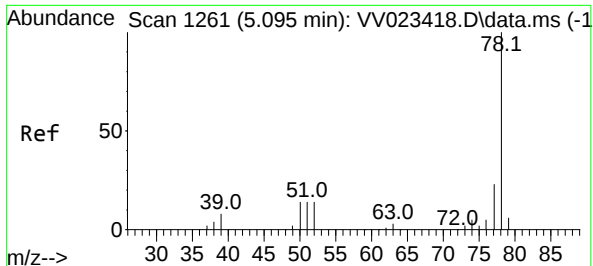
Tgt Ion: 117 Resp: 4776

Ion Ratio Lower Upper

117 100

119 102.3 78.8 118.2

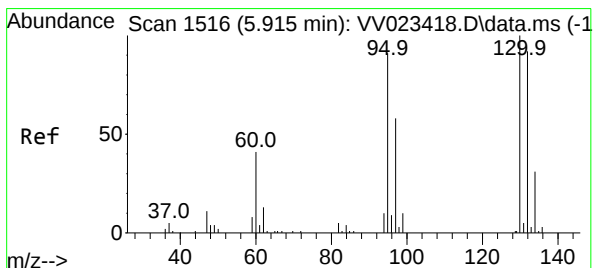
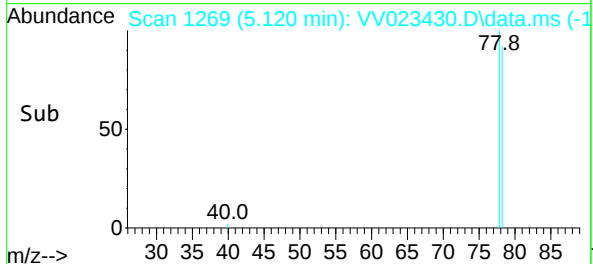
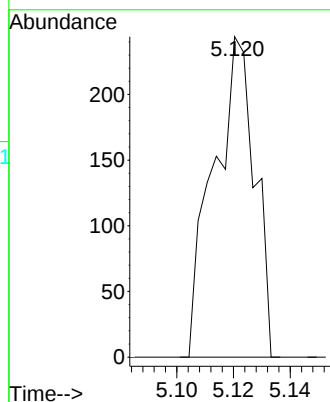
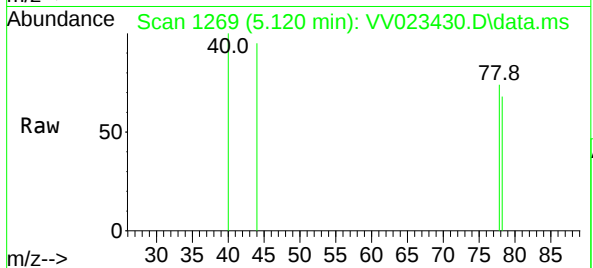




#33
Benzene
Concen: 3.877 ug/L
RT: 5.120 min Scan# 11
Delta R.T. 0.026 min
Lab File: VV023430.D
Acq: 12 Nov 2021 09:31

Instrument :
MSVOA_V
ClientSampleId :
BGGF3DL

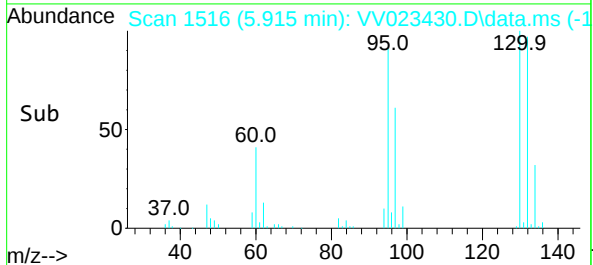
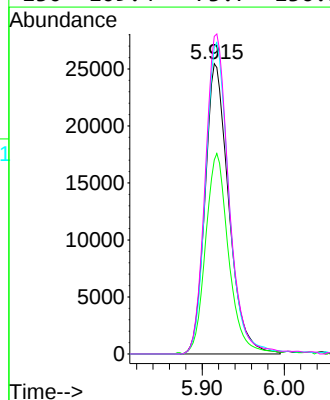
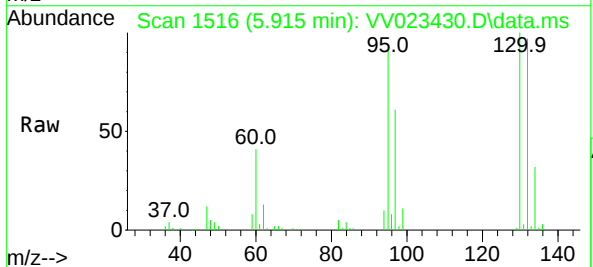
Tgt Ion: 78 Resp: 246

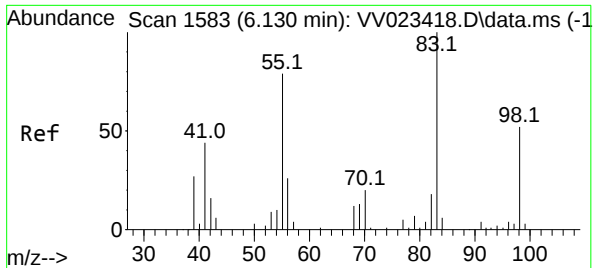


#34
Trichloroethene
Concen: 3031.406 ug/L
RT: 5.915 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VV023430.D
Acq: 12 Nov 2021 09:31

Tgt Ion: 95 Resp: 51147

Ion	Ratio	Lower	Upper
95	100		
97	66.9	45.0	83.6
132	105.6	69.7	129.4
130	109.4	73.7	136.9

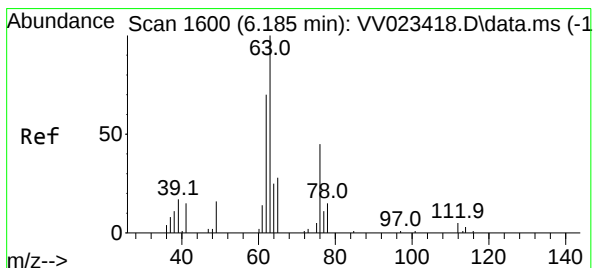
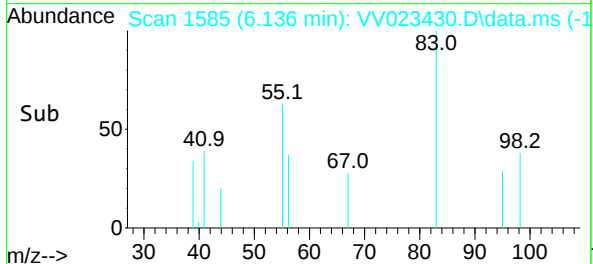
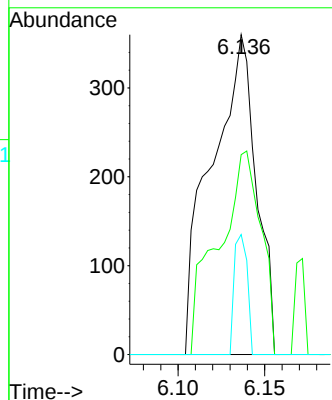
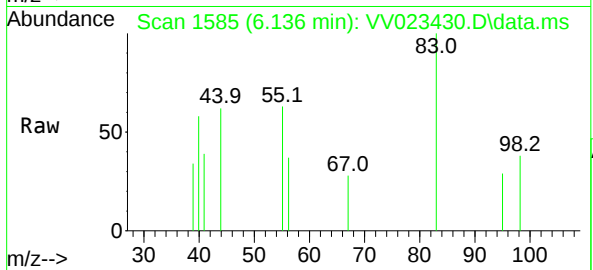




#35
Methylcyclohexane
Concen: 24.370 ug/L
RT: 6.136 min Scan# 11
Delta R.T. 0.006 min
Lab File: VV023430.D
Acq: 12 Nov 2021 09:31

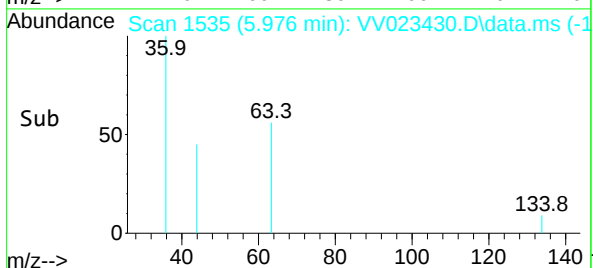
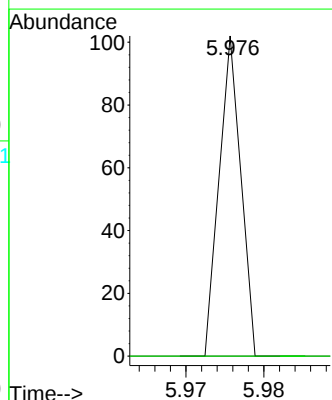
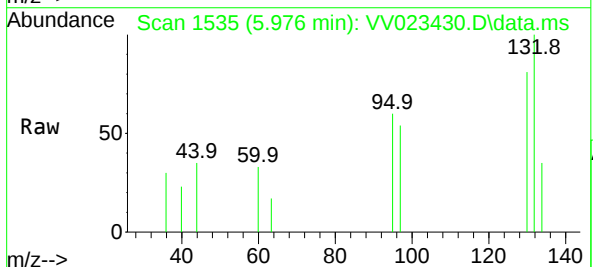
Instrument :
MSVOA_V
ClientSampleId :
BGGF3DL

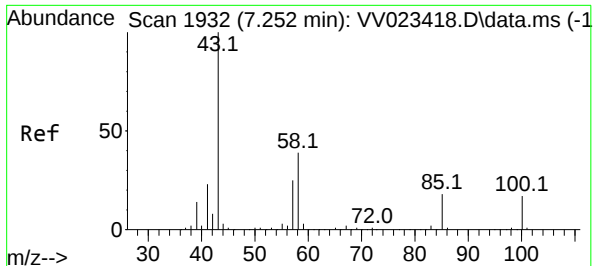
Tgt Ion: 83 Resp: 649
Ion Ratio Lower Upper
83 100
55 60.9 62.8 94.2#
98 10.8 37.9 56.9#



#37
1,2-Dichloropropane
Concen: 1.350 ug/L
RT: 5.976 min Scan# 1535
Delta R.T. -0.209 min
Lab File: VV023430.D
Acq: 12 Nov 2021 09:31

Tgt Ion: 63 Resp: 20
Ion Ratio Lower Upper
63 100
112 0.0 4.6 6.8#





#40

4-Methyl-2-pentanone

Concen: 10.772 ug/L

RT: 7.246 min Scan# 1930

Delta R.T. -0.007 min

Lab File: VV023430.D

Acq: 12 Nov 2021 09:31

Instrument :

MSVOA_V

ClientSampleId :

BGGF3DL

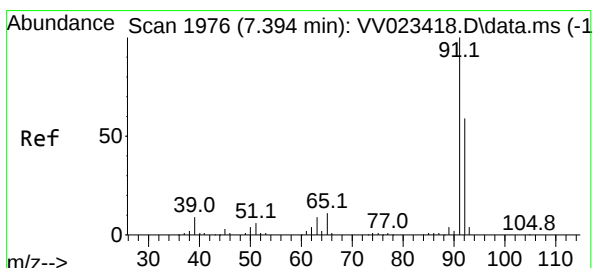
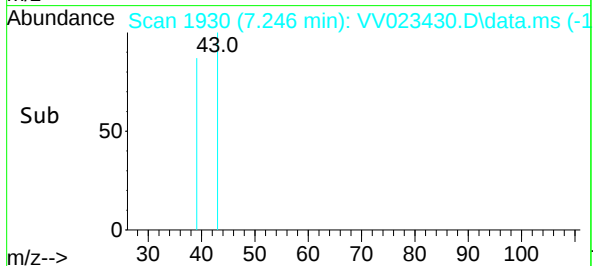
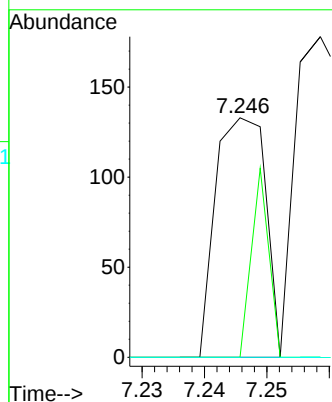
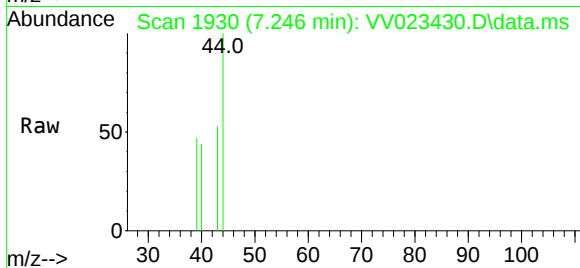
Tgt Ion: 43 Resp: 74

Ion Ratio Lower Upper

43 100

58 27.0 31.1 46.7#

100 0.0 12.6 19.0#



#42

Toluene

Concen: 56.821 ug/L

RT: 7.397 min Scan# 1977

Delta R.T. 0.003 min

Lab File: VV023430.D

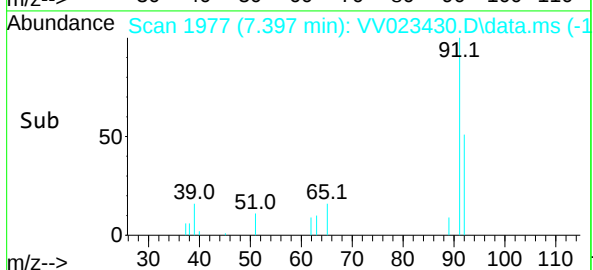
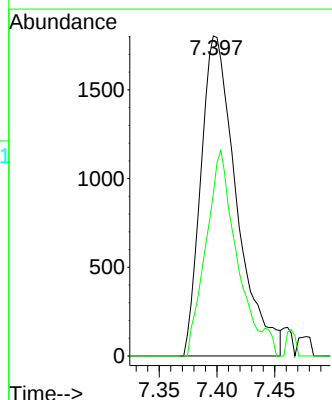
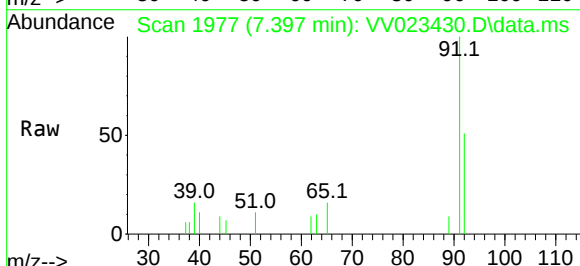
Acq: 12 Nov 2021 09:31

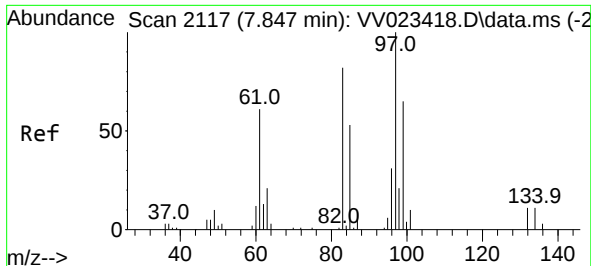
Tgt Ion: 91 Resp: 3856

Ion Ratio Lower Upper

91 100

92 50.7 39.3 72.9



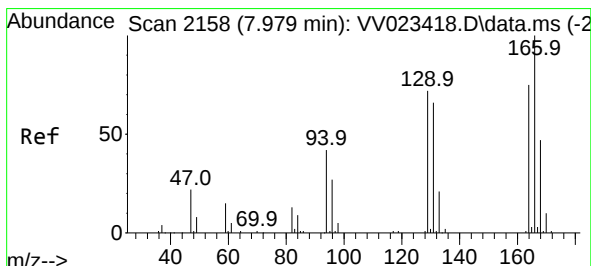
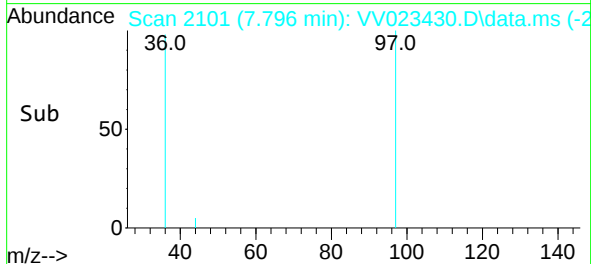
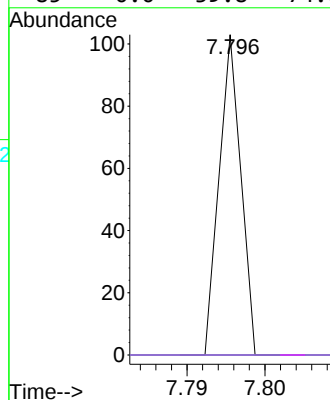
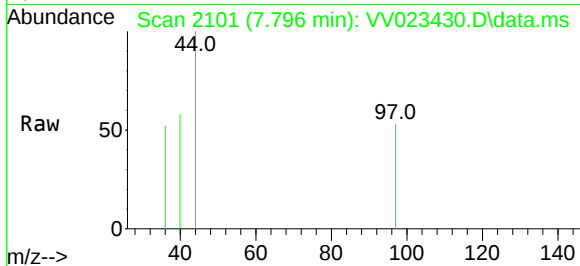


#45
1,1,2-Trichloroethane
Concen: 1.879 ug/L
RT: 7.796 min Scan# 2117
Delta R.T. -0.052 min
Lab File: VV023430.D
Acq: 12 Nov 2021 09:31

Instrument :
MSVOA_V
ClientSampleId :
BGGF3DL

Tgt Ion: 97 Resp: 20

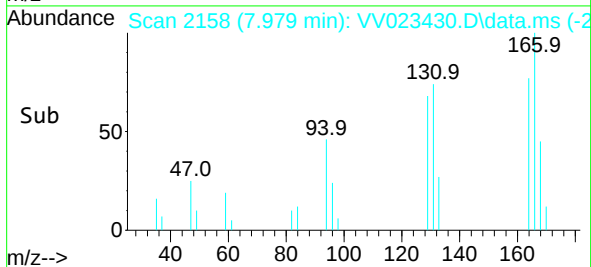
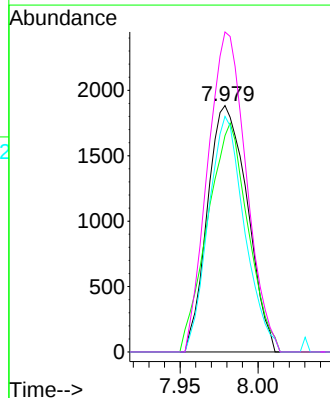
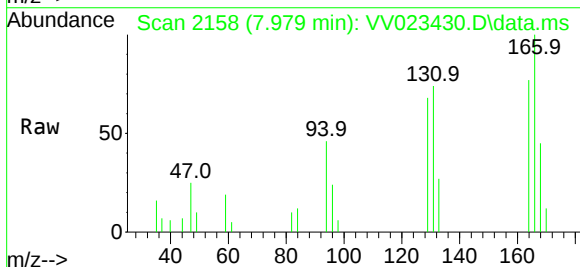
Ion	Ratio	Lower	Upper
97	100		
99	0.0	43.6	81.0#
83	0.0	58.4	108.4#
85	0.0	39.8	74.0#

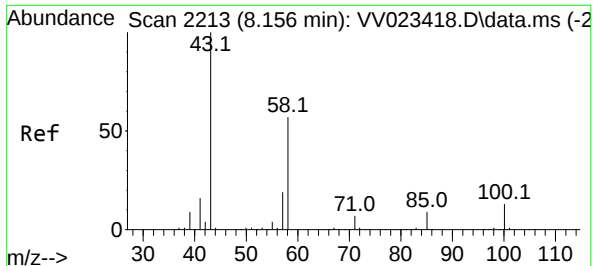


#47
Tetrachloroethene
Concen: 228.346 ug/L
RT: 7.979 min Scan# 2158
Delta R.T. -0.000 min
Lab File: VV023430.D
Acq: 12 Nov 2021 09:31

Tgt Ion: 164 Resp: 3339

Ion	Ratio	Lower	Upper
164	100		
129	87.8	64.0	119.0
131	95.6	63.4	117.8
166	129.9	89.3	165.9





#48

2-Hexanone

Concen: 4.363 ug/L

RT: 8.152 min Scan# 21

Delta R.T. -0.003 min

Lab File: VV023430.D

Acq: 12 Nov 2021 09:31

Instrument :

MSVOA_V

ClientSampleId :

BGGF3DL

Tgt Ion: 43 Resp: 21

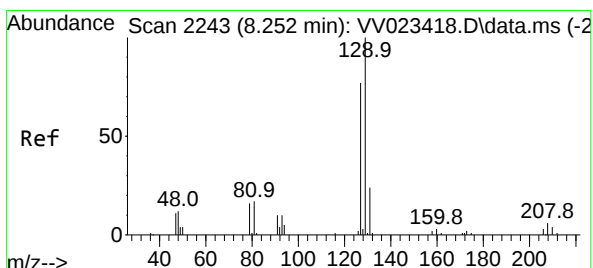
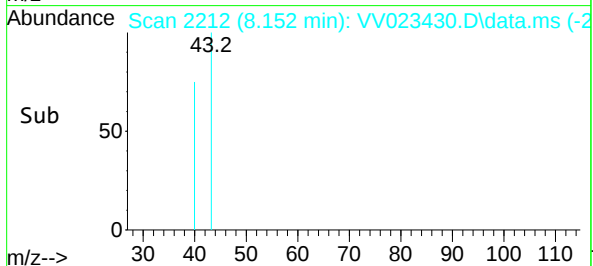
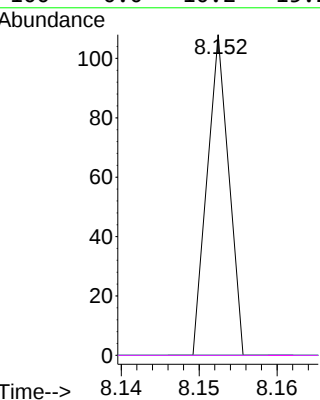
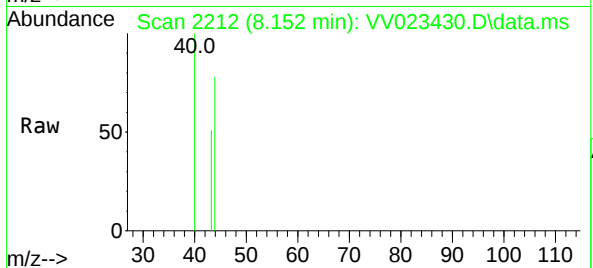
Ion Ratio Lower Upper

43 100

58 0.0 43.7 65.5#

57 0.0 14.1 21.1#

100 0.0 10.2 15.2#



#49

Dibromochloromethane

Concen: 220.321 ug/L

RT: 7.982 min Scan# 2159

Delta R.T. -0.270 min

Lab File: VV023430.D

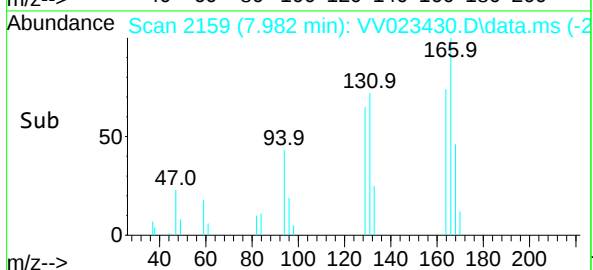
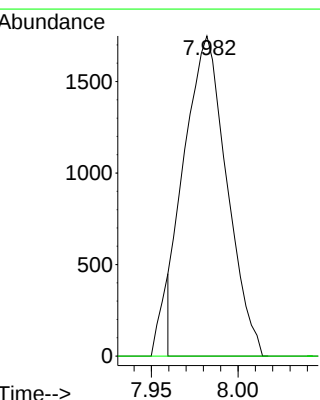
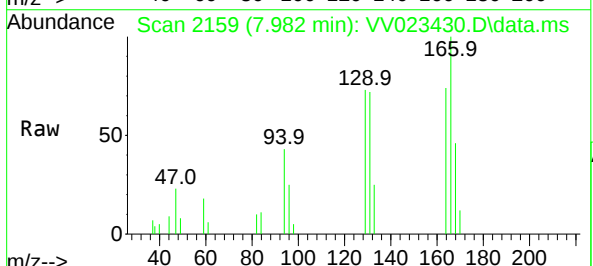
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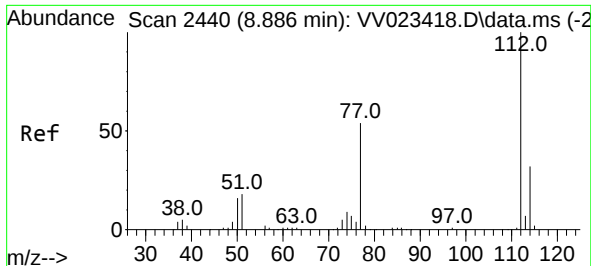
Tgt Ion: 129 Resp: 2971

Ion Ratio Lower Upper

129 100

127 0.0 54.7 101.7#

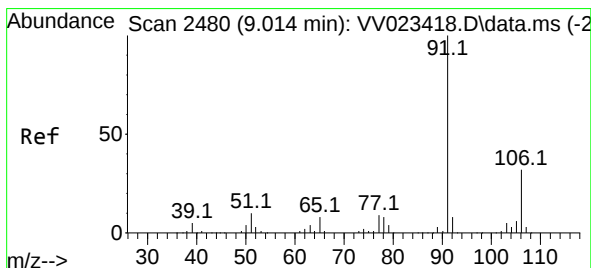
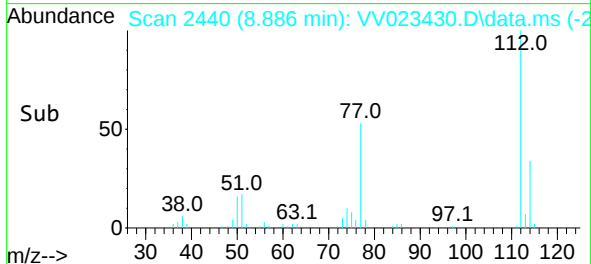
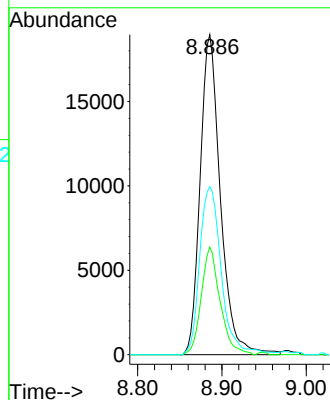
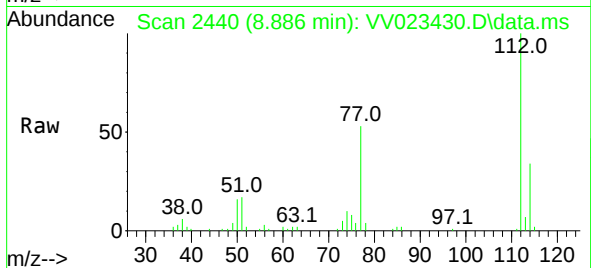




#51
Chlorobenzene
Concen: 704.970 ug/L
RT: 8.886 min Scan# 2440
Delta R.T. -0.000 min
Lab File: VV023430.D
Acq: 12 Nov 2021 09:31

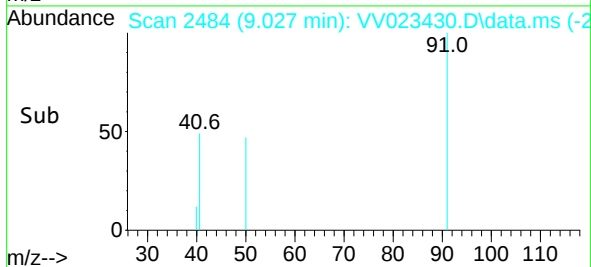
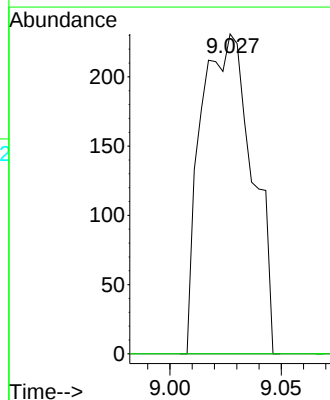
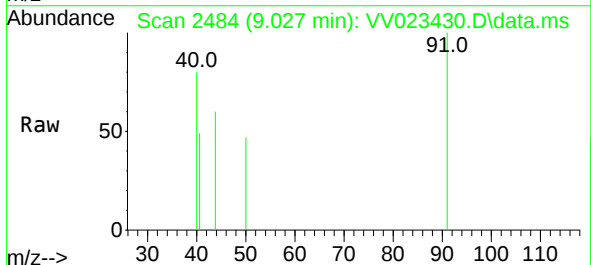
Instrument :
MSVOA_V
ClientSampleId :
BGGF3DL

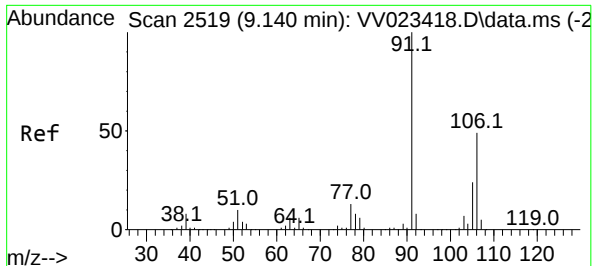
Tgt Ion:112 Resp: 31799
Ion Ratio Lower Upper
112 100
114 33.6 22.0 40.8
77 52.5 44.4 66.6



#52
Ethylbenzene
Concen: 5.183 ug/L
RT: 9.027 min Scan# 2484
Delta R.T. 0.013 min
Lab File: VV023430.D
Acq: 12 Nov 2021 09:31

Tgt Ion: 91 Resp: 371
Ion Ratio Lower Upper
91 100
106 0.0 22.5 41.9#

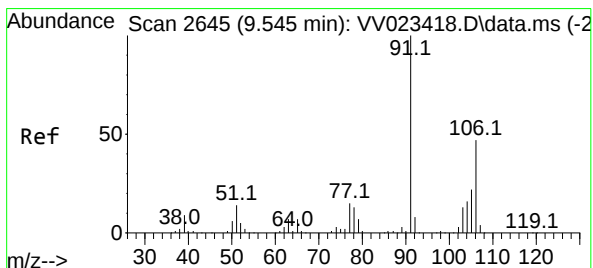
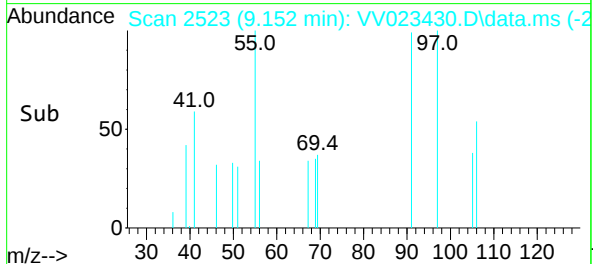
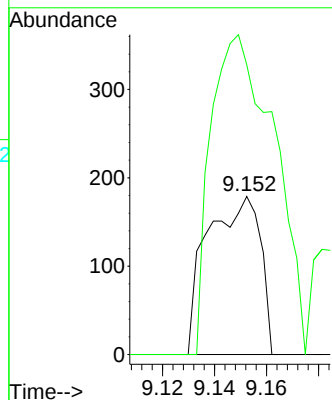
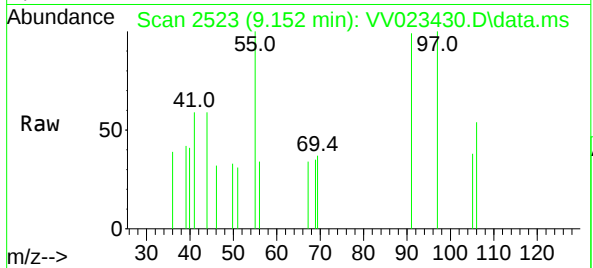




#53
m,p-xylene
Concen: 9.007 ug/L
RT: 9.152 min Scan# 21
Delta R.T. 0.013 min
Lab File: VV023430.D
Acq: 12 Nov 2021 09:31

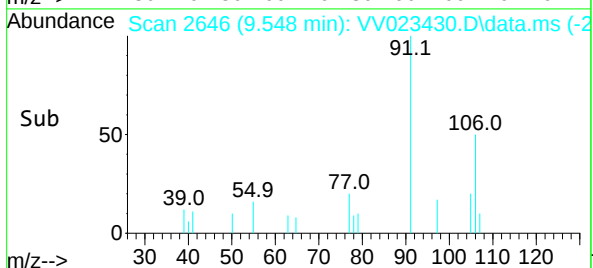
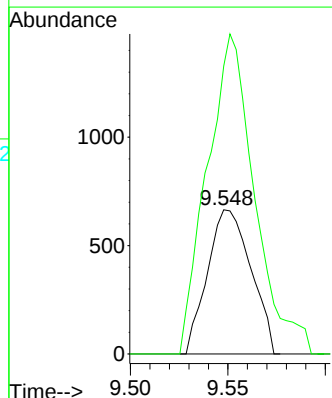
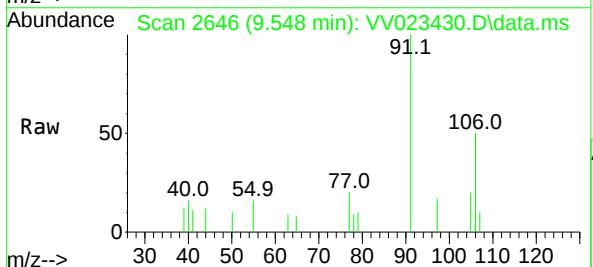
Instrument :
MSVOA_V
ClientSampleId :
BGGF3DL

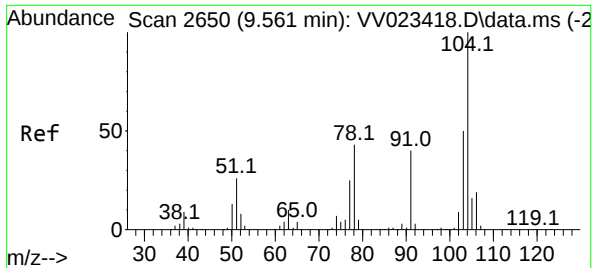
Tgt Ion:106 Resp: 253
Ion Ratio Lower Upper
106 100
91 183.2 137.2 254.8



#54
o-xylene
Concen: 39.276 ug/L
RT: 9.548 min Scan# 2646
Delta R.T. 0.003 min
Lab File: VV023430.D
Acq: 12 Nov 2021 09:31

Tgt Ion:106 Resp: 1035
Ion Ratio Lower Upper
106 100
91 199.7 148.3 275.5

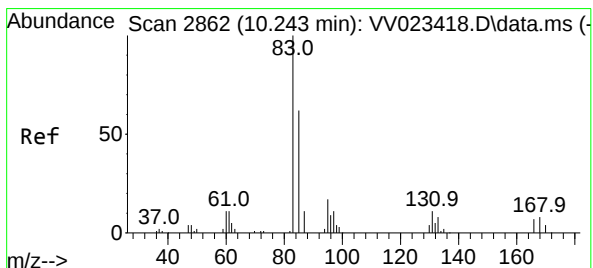
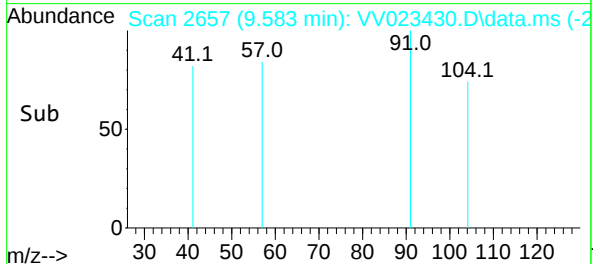
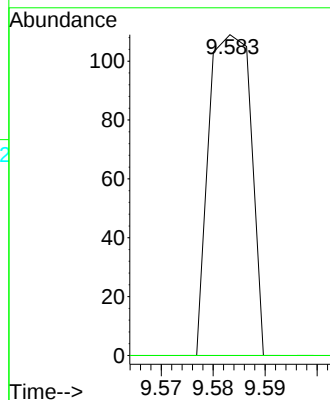
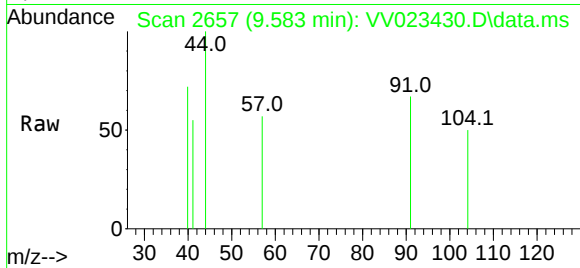




#55
Styrene
Concen: 1.351 ug/L
RT: 9.583 min Scan# 2650
Delta R.T. 0.022 min
Lab File: VV023430.D
Acq: 12 Nov 2021 09:31

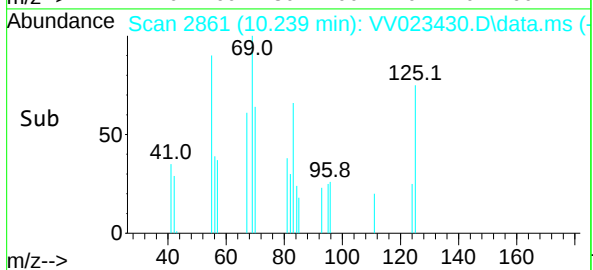
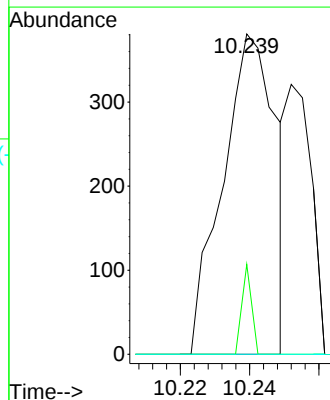
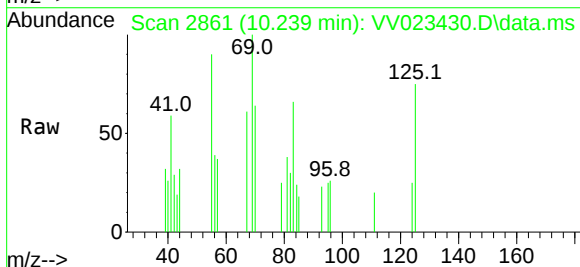
Instrument :
MSVOA_V
ClientSampleId :
BGGF3DL

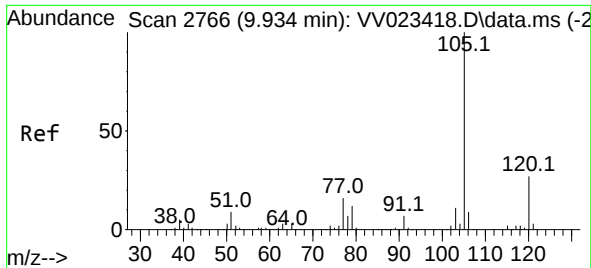
Tgt Ion:104 Resp: 61
Ion Ratio Lower Upper
104 100
78 0.0 29.3 54.3#



#57
1,1,2,2-Tetrachloroethane
Concen: 34.733 ug/L
RT: 10.239 min Scan# 2861
Delta R.T. -0.003 min
Lab File: VV023430.D
Acq: 12 Nov 2021 09:31

Tgt Ion: 83 Resp: 405
Ion Ratio Lower Upper
83 100
85 28.1 45.1 83.9#
131 0.0 7.8 11.6#

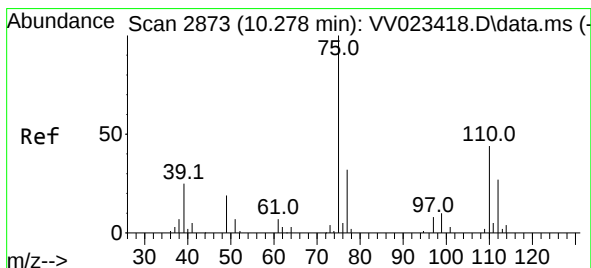
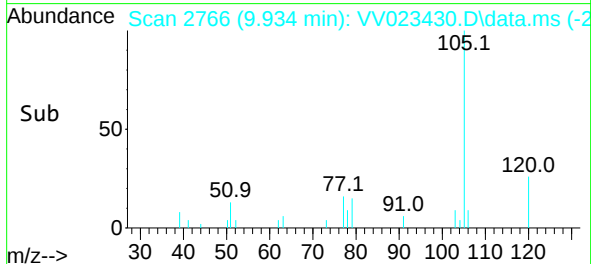
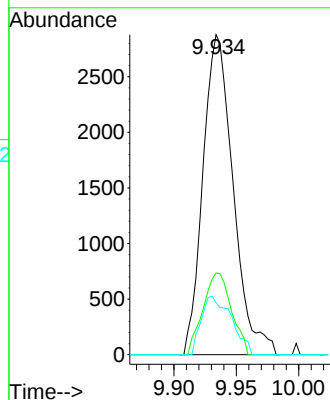
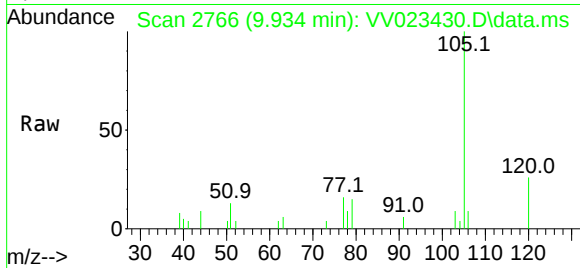




#60
Isopropylbenzene
Concen: 17.147 ug/L
RT: 9.934 min Scan# 21
Delta R.T. -0.000 min
Lab File: VV023430.D
Acq: 12 Nov 2021 09:31

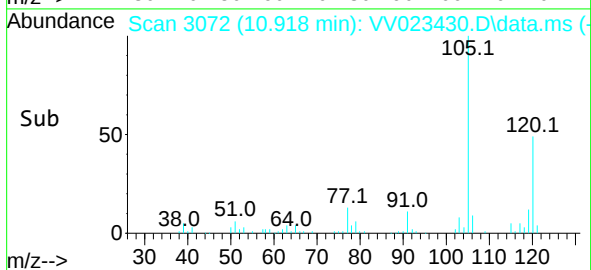
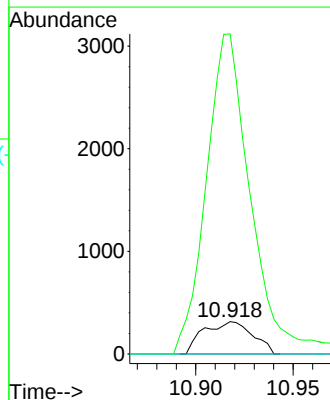
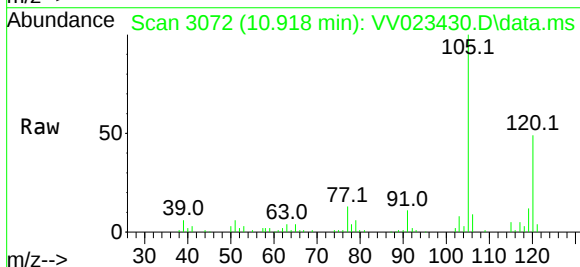
Instrument :
MSVOA_V
ClientSampleId :
BGGF3DL

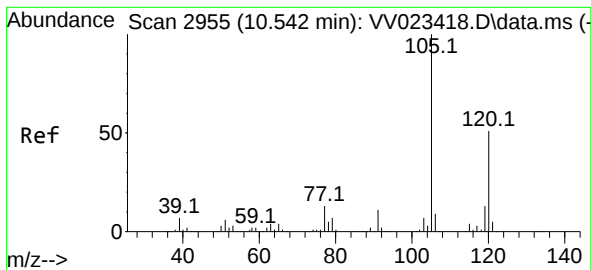
Tgt Ion:105 Resp: 4851
Ion Ratio Lower Upper
105 100
120 24.0 21.7 32.5
77 18.3 12.6 19.0



#61
1,2,3-Trichloropropane
Concen: 16.764 ug/L
RT: 10.918 min Scan# 3072
Delta R.T. 0.640 min
Lab File: VV023430.D
Acq: 12 Nov 2021 09:31

Tgt Ion: 75 Resp: 549
Ion Ratio Lower Upper
75 100
77 896.2 26.6 39.8#
110 0.0 31.8 47.6#





#62

1,3,5-Trimethylbenzene

Concen: 161.184 ug/L

RT: 10.918 min Scan# 3072

Delta R.T. 0.376 min

Lab File: VV023430.D

Acq: 12 Nov 2021 09:31

Instrument :

MSVOA_V

ClientSampleId :

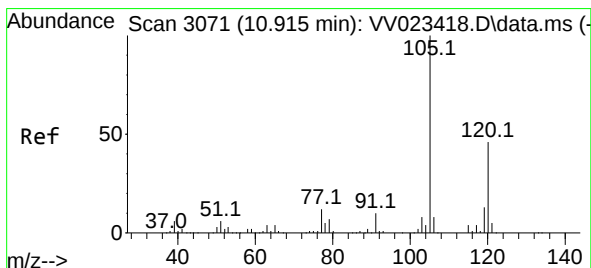
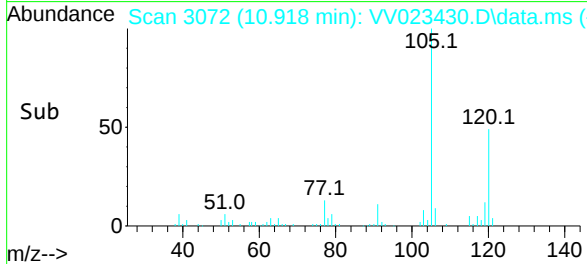
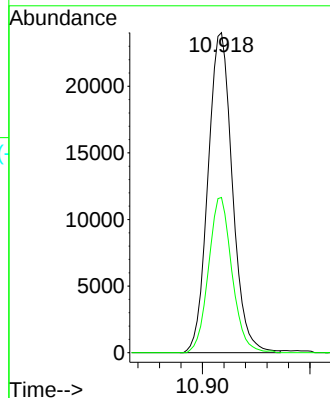
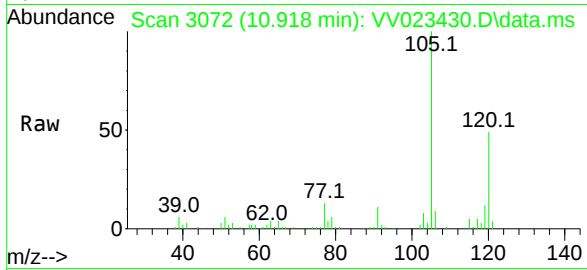
BGGF3DL

Tgt Ion:105 Resp: 37810

Ion Ratio Lower Upper

105 100

120 46.7 39.7 59.5



#63

1,2,4-Trimethylbenzene

Concen: 161.943 ug/L

RT: 10.918 min Scan# 3072

Delta R.T. 0.003 min

Lab File: VV023430.D

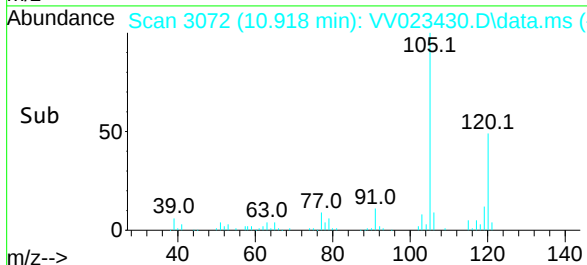
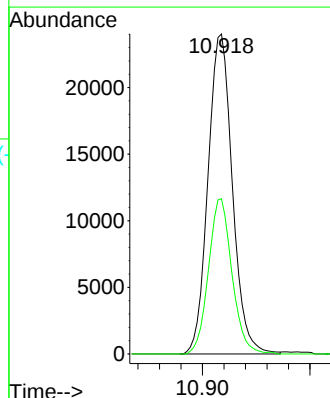
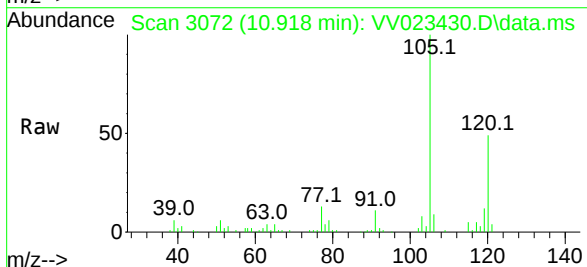
Acq: 12 Nov 2021 09:31

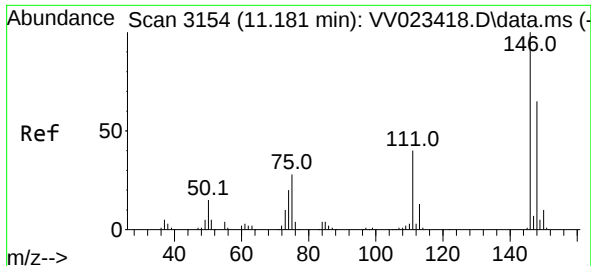
Tgt Ion:105 Resp: 37810

Ion Ratio Lower Upper

105 100

120 46.7 37.4 56.2

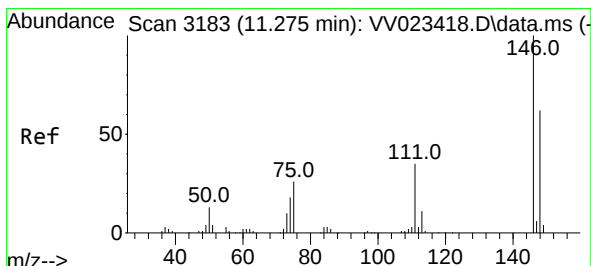
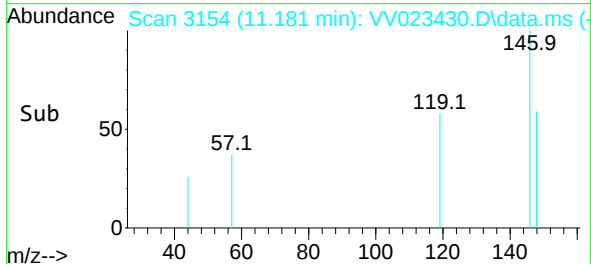
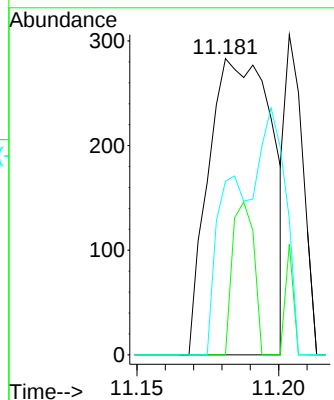
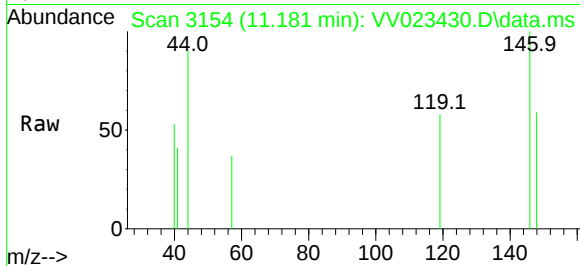




#64
1,3-Dichlorobenzene
Concen: 3.044 ug/L
RT: 11.181 min Scan# 3154
Delta R.T. -0.000 min
Lab File: VV023430.D
Acq: 12 Nov 2021 09:31

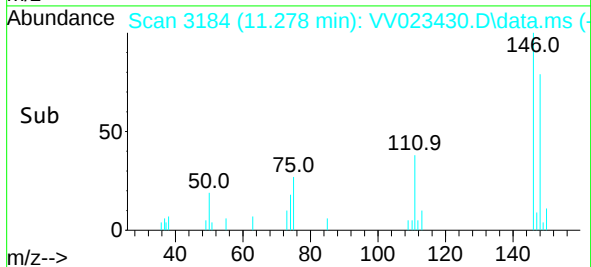
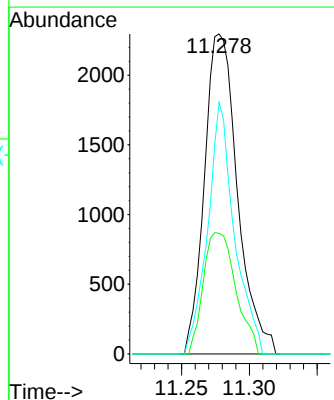
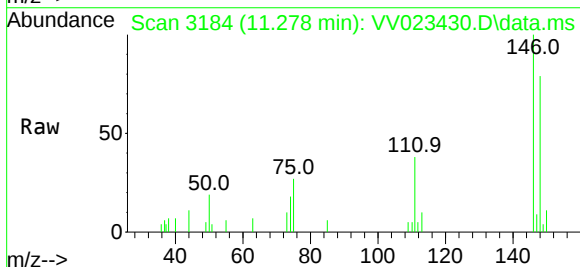
Instrument :
MSVOA_V
ClientSampleId :
BGGF3DL

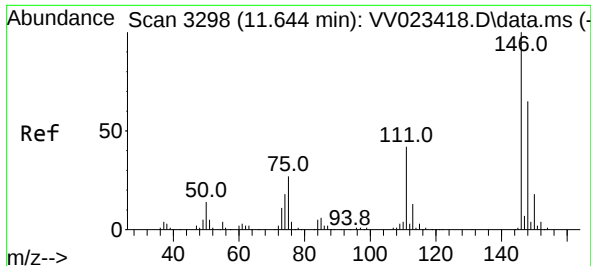
Tgt Ion:146 Resp: 440
Ion Ratio Lower Upper
146 100
111 0.0 26.7 49.7#
148 58.7 42.9 79.7



#65
1,4-Dichlorobenzene
Concen: 26.405 ug/L
RT: 11.278 min Scan# 3184
Delta R.T. 0.003 min
Lab File: VV023430.D
Acq: 12 Nov 2021 09:31

Tgt Ion:146 Resp: 3898
Ion Ratio Lower Upper
146 100
111 37.7 26.2 48.8
148 78.6 44.4 82.5





#67

1,2-Dichlorobenzene

Concen: 38.671 ug/L

RT: 11.647 min Scan# 31

Delta R.T. 0.003 min

Lab File: VV023430.D

Acq: 12 Nov 2021 09:31

Instrument :

MSVOA_V

ClientSampleId :

BGGF3DL

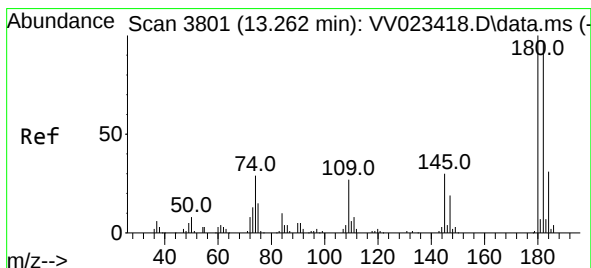
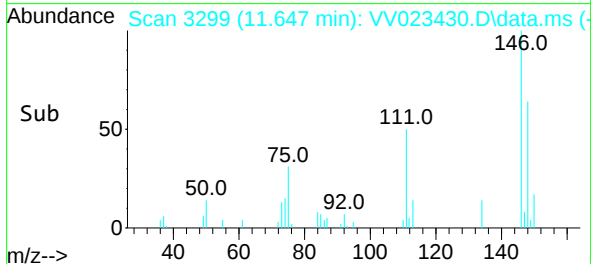
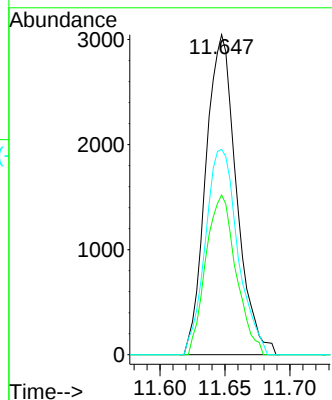
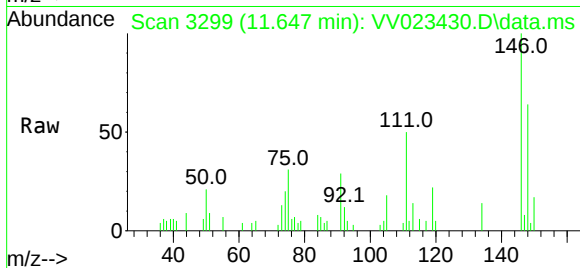
Tgt Ion:146 Resp: 5002

Ion Ratio Lower Upper

146 100

111 49.9 31.6 47.4#

148 64.1 51.0 76.6



#70

1,2,4-trichlorobenzene

Concen: 1.214 ug/L

RT: 13.258 min Scan# 3800

Delta R.T. -0.003 min

Lab File: VV023430.D

Acq: 12 Nov 2021 09:31

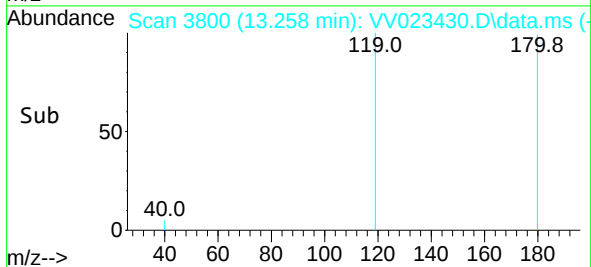
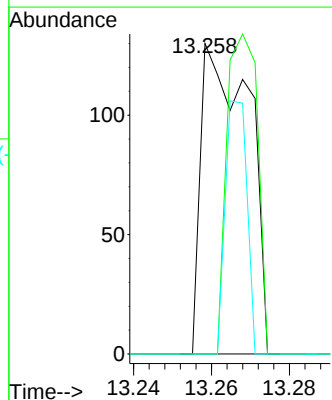
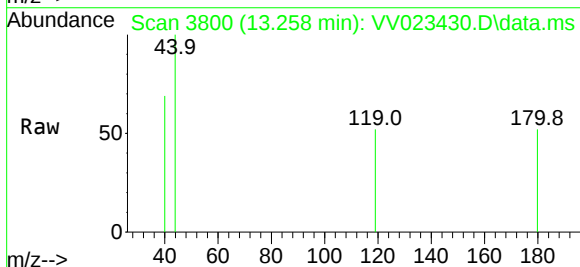
Tgt Ion:180 Resp: 110

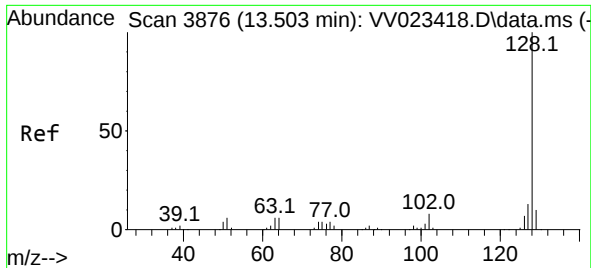
Ion Ratio Lower Upper

180 100

182 66.4 76.9 115.3#

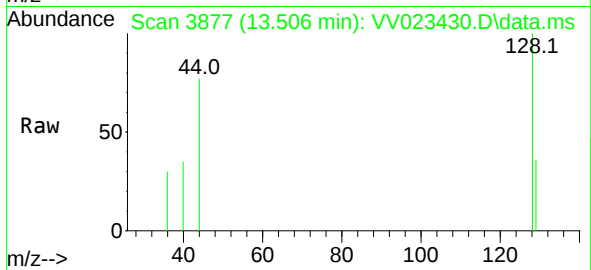
145 37.3 24.4 36.6#





#71
Naphthalene
Concen: 3.240 ug/L
RT: 13.506 min Scan# 3877
Delta R.T. 0.003 min
Lab File: VV023430.D
Acq: 12 Nov 2021 09:31

Instrument :
MSVOA_V
ClientSampleId :
BGGF3DL



Tgt Ion:128 Resp: 433
Ion Ratio Lower Upper
128 100
129 15.7 8.6 13.0#
127 0.0 10.5 15.7#

