

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU100722\
 Data File : VU051220.D
 Acq On : 07 Oct 2022 15:56
 Operator : JC/MD
 Sample : VU1007WBL01
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VBLK106

Quant Time: Oct 08 00:51:14 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR100722WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Sat Oct 08 00:50:53 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.250	114	199096	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.417	117	206050	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	77830	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.594	65	80009	4.982	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	99.600%
7) Chloroethane-d5	1.909	69	68916	4.994	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	99.800%
11) 1,1-Dichloroethene-d2	2.562	65	31040	4.889	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	97.800%
20) 2-Butanone-d5	4.639	46	196297	55.516	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	111.040%
24) Chloroform-d	5.063	84	146416	4.890	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.800%
26) 1,2-Dichloroethane-d4	5.703	65	78616	5.091	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.800%
32) Benzene-d6	5.726	84	284857	5.025	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.600%
36) 1,2-Dichloropropane-d6	6.690	67	99691	5.178	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	103.600%
41) Toluene-d8	7.899	98	224446	4.426	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	88.600%
43) trans-1,3-Dichloroprop...	8.182	79	30205	4.776	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	95.600%
46) 2-Hexanone-d5	8.635	63	108090	50.708	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	101.420%
56) 1,1,2,2-Tetrachloroeth...	10.754	84	77736	5.055	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	101.200%
66) 1,2-Dichlorobenzene-d4	12.192	152	72784	5.380	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	107.600%
Target Compounds						
					Qvalue	
8) Chloroethane	1.932	64	1519	0.106	ug/L	100
9) Trichlorofluoromethane	2.134	101	1387	0.054	ug/L #	83
10) 1,1,2-Trichloro-1,2,2-...	2.565	101	1912	0.124	ug/L #	27
16) Methylene chloride	3.044	84	8402	0.392	ug/L	97
22) cis-1,2-Dichloroethene	4.671	96	1036	0.061	ug/L #	67
29) 1,1,1-Trichloroethane	5.314	97	1330	0.054	ug/L	93
31) Carbon tetrachloride	5.517	117	1319	0.063	ug/L	95
33) Benzene	5.774	78	4499	0.065	ug/L	100
38) Bromodichloromethane	7.111	83	1440	0.064	ug/L #	76
49) Dibromochloromethane	8.809	129	827	0.056	ug/L	95
51) Chlorobenzene	9.446	112	3552	0.081	ug/L	90
55) Styrene	10.118	104	1981	0.048	ug/L	88
57) 1,1,2,2-Tetrachloroethane	10.780	83	1661	0.101	ug/L #	53
60) Isopropylbenzene	10.481	105	3354	0.068	ug/L #	92
62) 1,3,5-Trimethylbenzene	11.089	105	2228	0.170	ug/L	89
64) 1,3-Dichlorobenzene	11.748	146	2614	0.107	ug/L	89
65) 1,4-Dichlorobenzene	11.838	146	2751	0.114	ug/L #	86
67) 1,2-Dichlorobenzene	12.208	146	2533	0.107	ug/L	93
69) 1,3,5-Trichlorobenzene	13.224	180	2041	0.121	ug/L #	88

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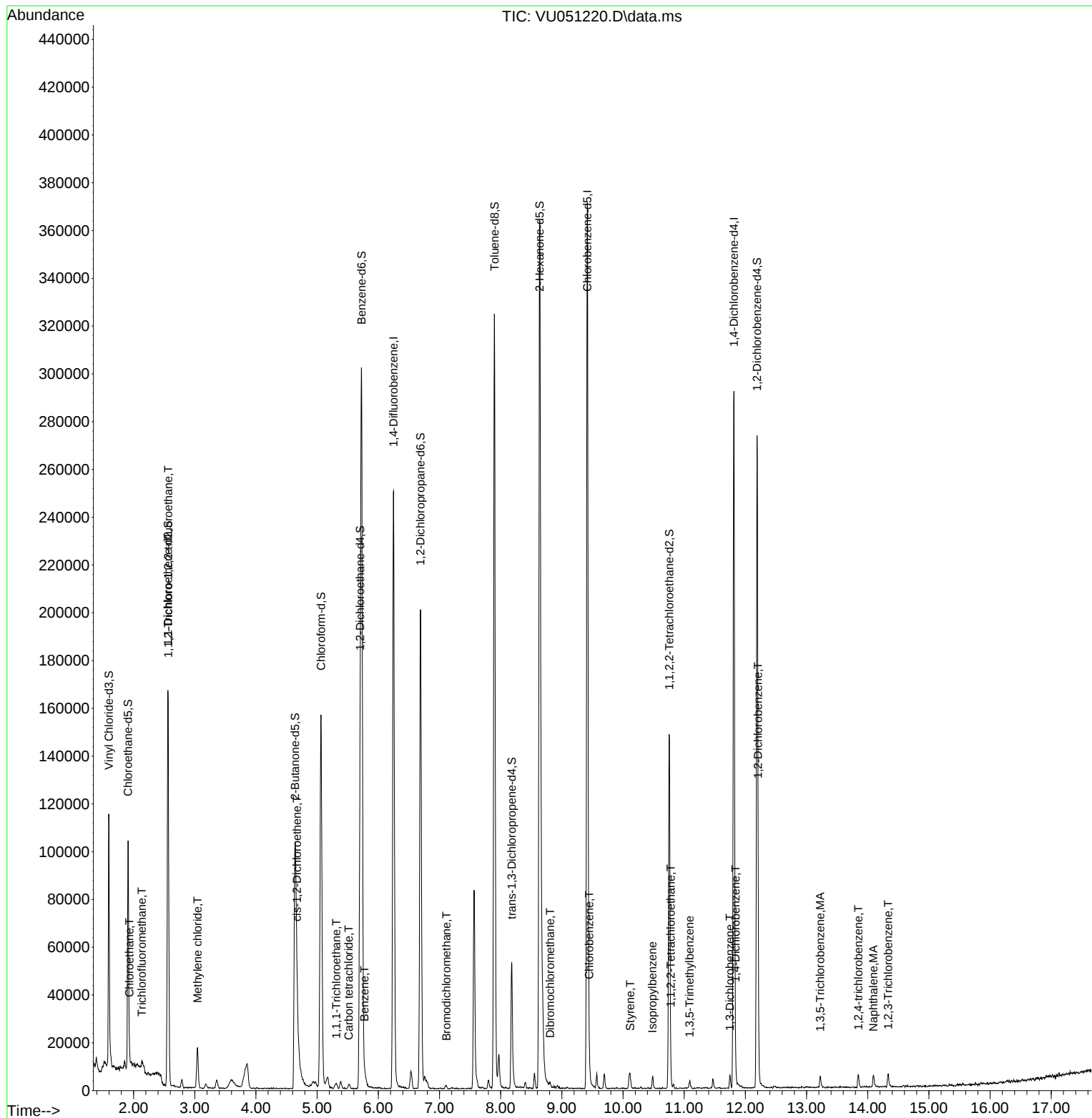
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 1,2,4-trichlorobenzene	13.847	180	1991	0.167	ug/L #	80
71) Naphthalene	14.092	128	5791	0.261	ug/L	97
72) 1,2,3-Trichlorobenzene	14.333	180	2582	0.209	ug/L #	90

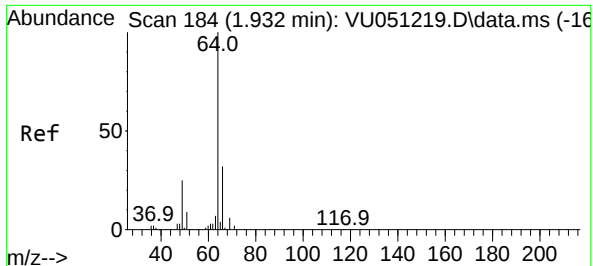
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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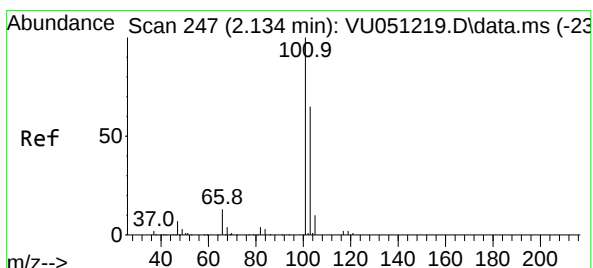
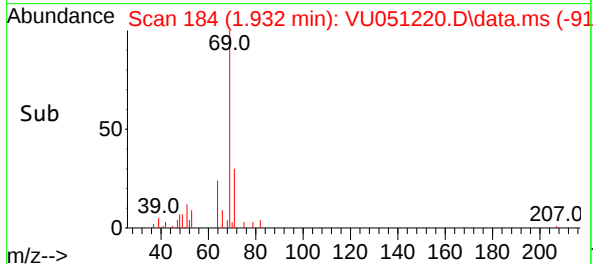
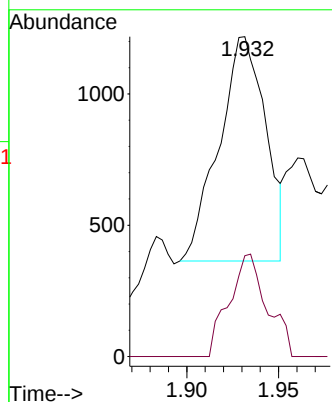
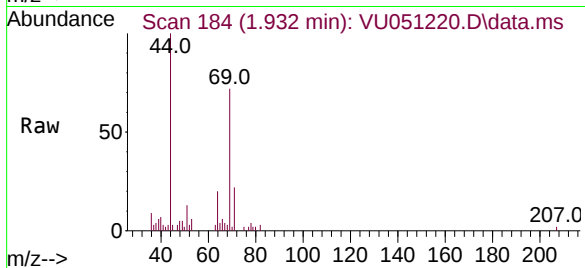




#8
Chloroethane
Concen: 0.106 ug/L
RT: 1.932 min Scan# 184
Delta R.T. -0.000 min
Lab File: VU051220.D
Acq: 07 Oct 2022 15:56

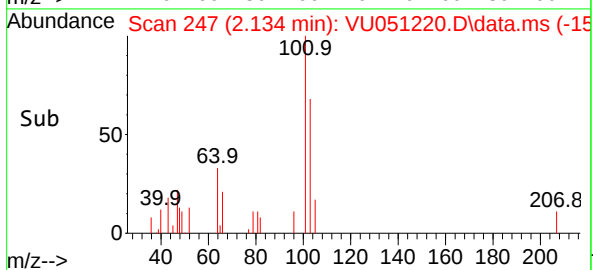
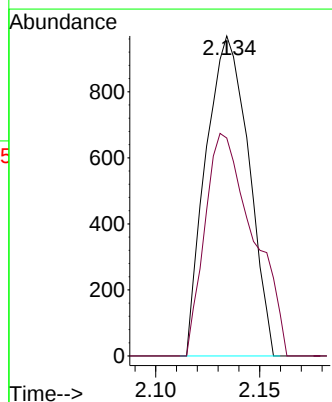
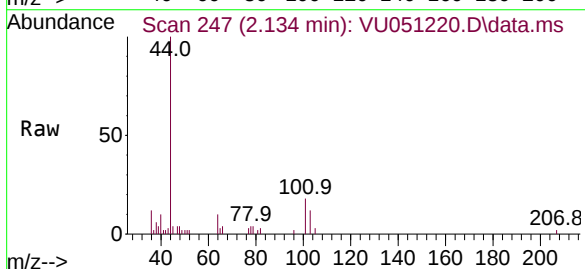
Instrument :
MSVOA_U
ClientSampleId :
VBLK106

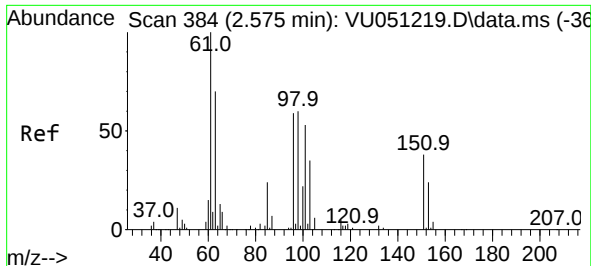
Tgt Ion: 64 Resp: 1519
Ion Ratio Lower Upper
64 100
66 31.5 22.3 41.3



#9
Trichlorofluoromethane
Concen: 0.054 ug/L
RT: 2.134 min Scan# 247
Delta R.T. -0.000 min
Lab File: VU051220.D
Acq: 07 Oct 2022 15:56

Tgt Ion: 101 Resp: 1387
Ion Ratio Lower Upper
101 100
103 78.4 52.2 78.2#

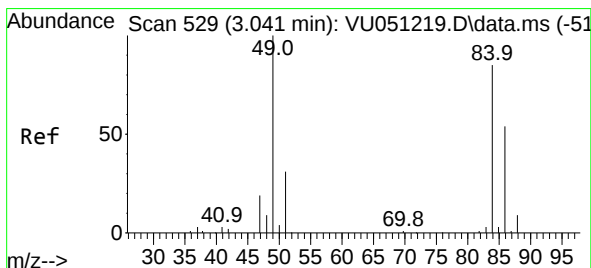
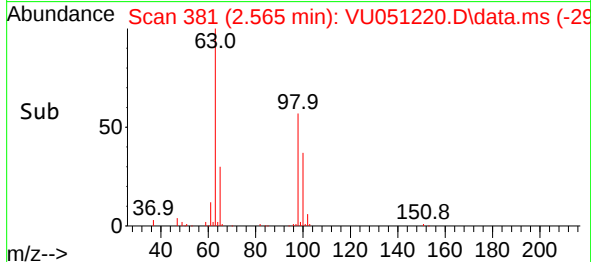
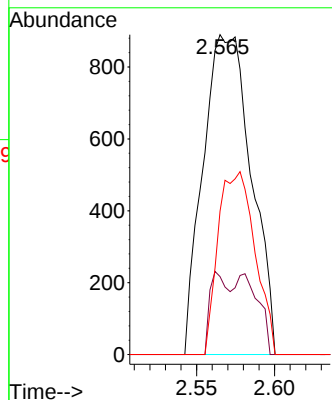
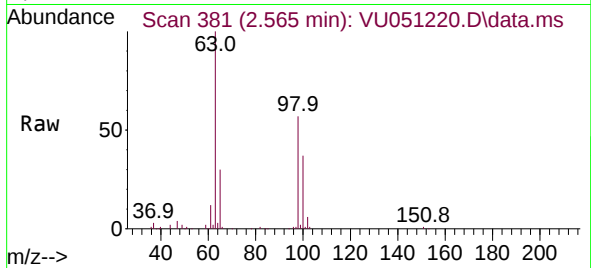




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.124 ug/L
RT: 2.565 min Scan# 31
Delta R.T. -0.010 min
Lab File: VU051220.D
Acq: 07 Oct 2022 15:56

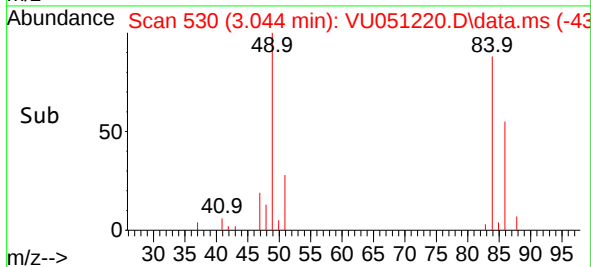
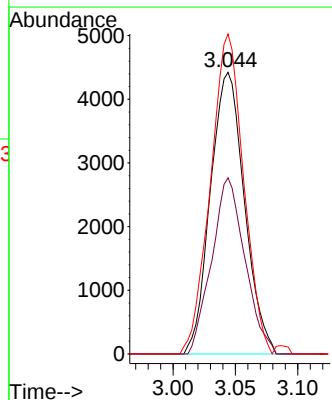
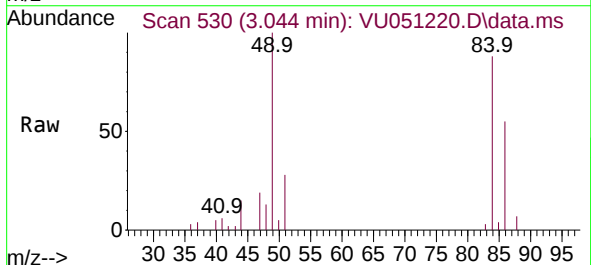
Instrument :
MSVOA_U
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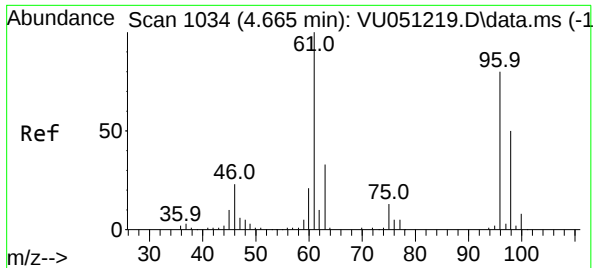
Tgt Ion:101 Resp: 1912
Ion Ratio Lower Upper
101 100
85 10.0 34.6 51.8#
151 0.0 56.5 84.7#



#16
Methylene chloride
Concen: 0.392 ug/L
RT: 3.044 min Scan# 530
Delta R.T. 0.003 min
Lab File: VU051220.D
Acq: 07 Oct 2022 15:56

Tgt Ion: 84 Resp: 8402
Ion Ratio Lower Upper
84 100
86 62.5 46.5 86.3
49 113.6 81.3 151.1

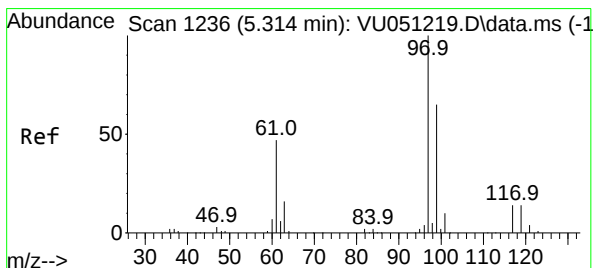
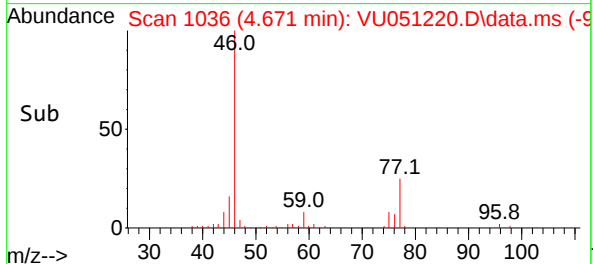
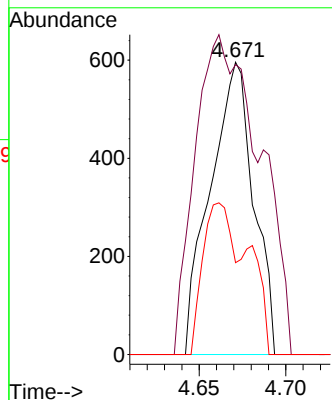
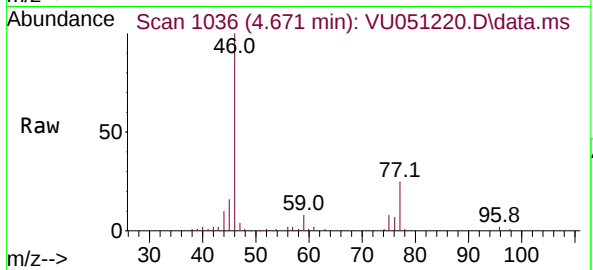




#22
 cis-1,2-Dichloroethene
 Concen: 0.061 ug/L
 RT: 4.671 min Scan# 1036
 Delta R.T. 0.006 min
 Lab File: VU051220.D
 Acq: 07 Oct 2022 15:56

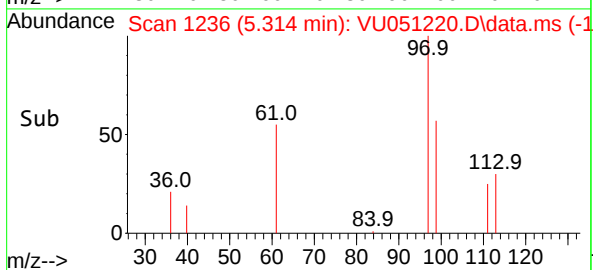
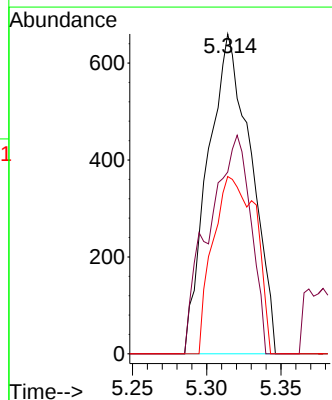
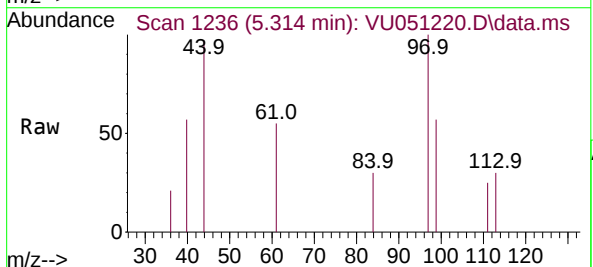
Instrument :
 MSVOA_U
 ClientSampleId :
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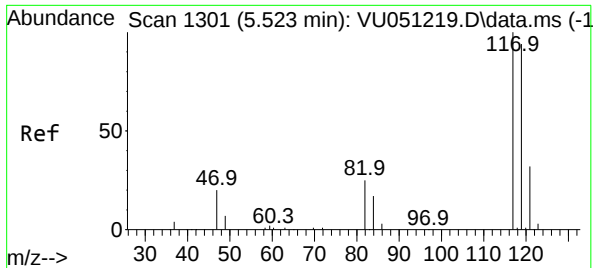
Tgt Ion: 96 Resp: 1036
 Ion Ratio Lower Upper
 96 100
 61 99.2 90.6 168.2
 98 31.4 47.5 88.3#



#29
 1,1,1-Trichloroethane
 Concen: 0.054 ug/L
 RT: 5.314 min Scan# 1236
 Delta R.T. -0.000 min
 Lab File: VU051220.D
 Acq: 07 Oct 2022 15:56

Tgt Ion: 97 Resp: 1330
 Ion Ratio Lower Upper
 97 100
 99 66.5 50.2 75.4
 61 55.1 38.7 58.1

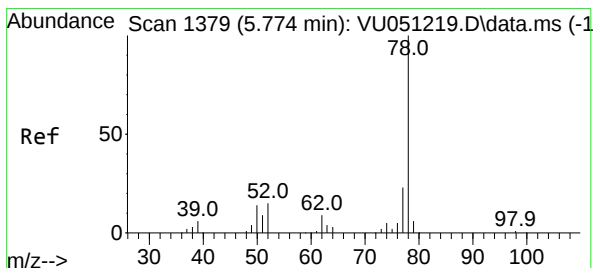
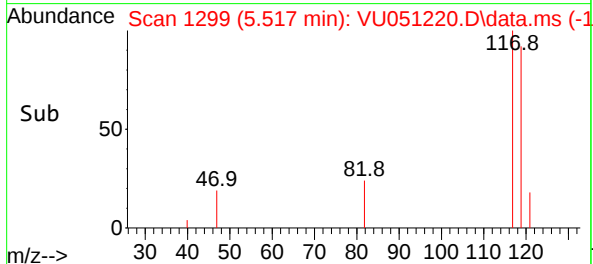
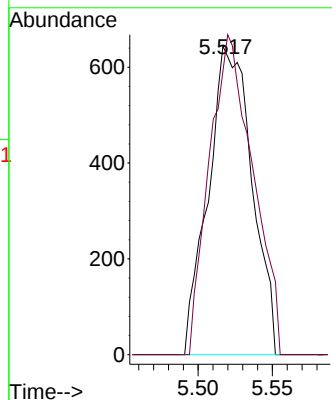
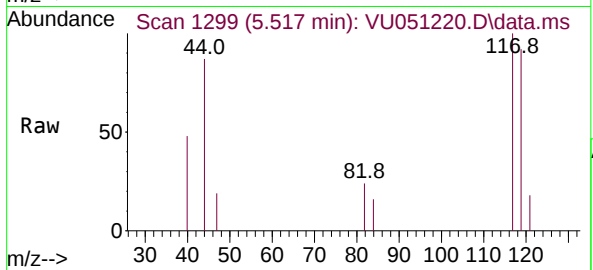




#31
Carbon tetrachloride
Concen: 0.063 ug/L
RT: 5.517 min Scan# 1299
Delta R.T. -0.006 min
Lab File: VU051220.D
Acq: 07 Oct 2022 15:56

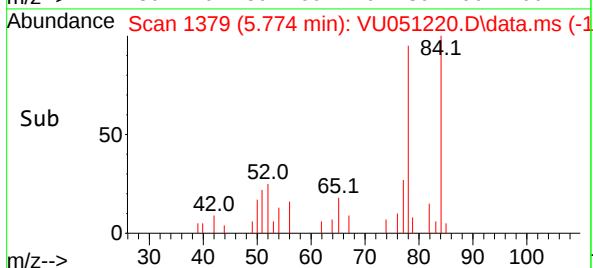
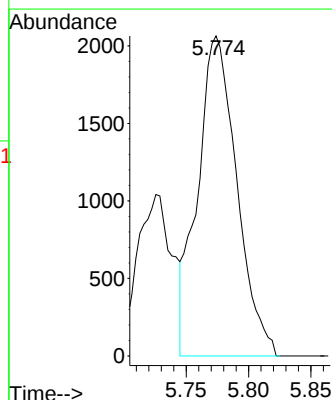
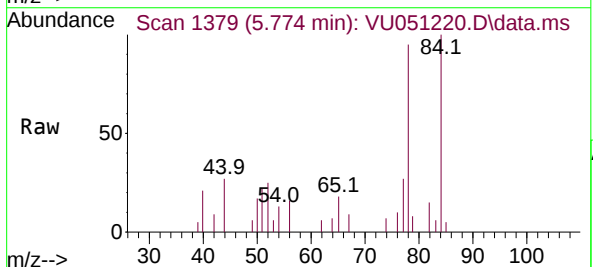
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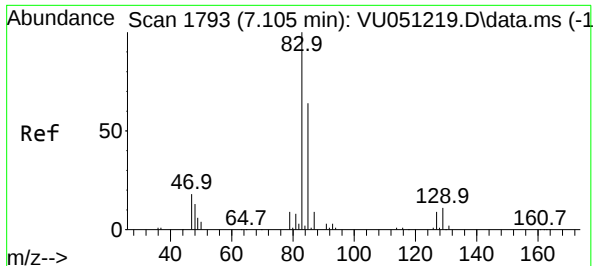
Tgt Ion:117 Resp: 1319
Ion Ratio Lower Upper
117 100
119 103.4 78.4 117.6



#33
Benzene
Concen: 0.065 ug/L
RT: 5.774 min Scan# 1379
Delta R.T. -0.000 min
Lab File: VU051220.D
Acq: 07 Oct 2022 15:56

Tgt Ion: 78 Resp: 4499





#38

Bromodichloromethane

Concen: 0.064 ug/L

RT: 7.111 min Scan# 1

Delta R.T. 0.006 min

Lab File: VU051220.D

Acq: 07 Oct 2022 15:56

Instrument :

MSVOA_U

ClientSampleId :

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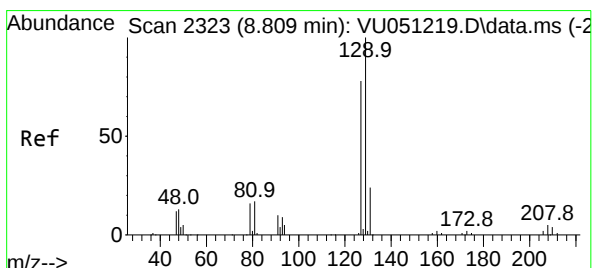
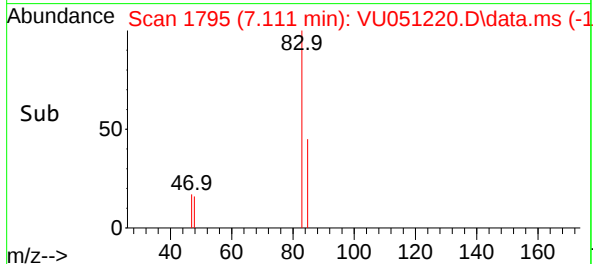
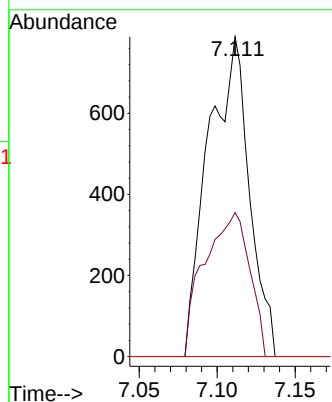
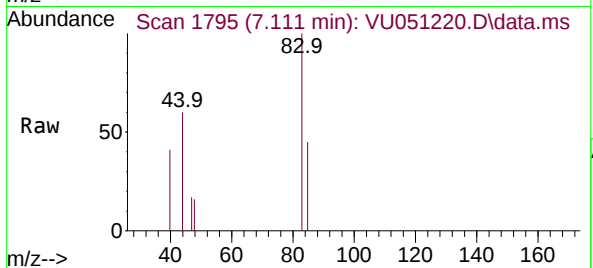
Tgt Ion: 83 Resp: 1440

Ion Ratio Lower Upper

83 100

85 45.0 44.8 83.2

127 0.0 7.0 10.6#



#49

Dibromochloromethane

Concen: 0.056 ug/L

RT: 8.809 min Scan# 2323

Delta R.T. -0.000 min

Lab File: VU051220.D

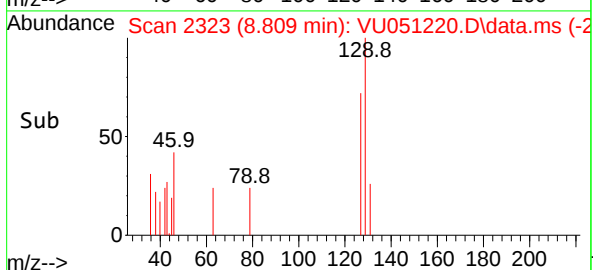
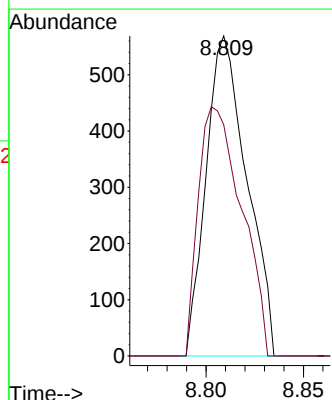
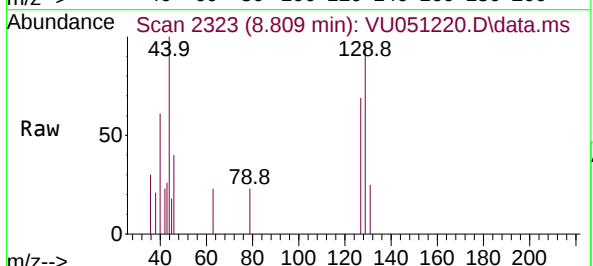
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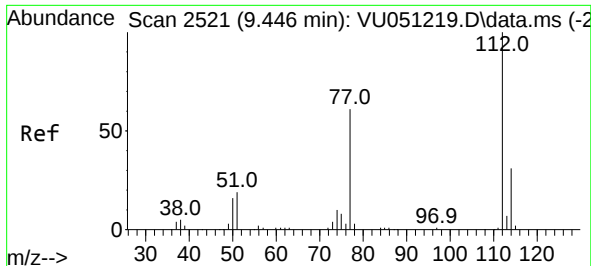
Tgt Ion: 129 Resp: 827

Ion Ratio Lower Upper

129 100

127 72.2 53.5 99.3

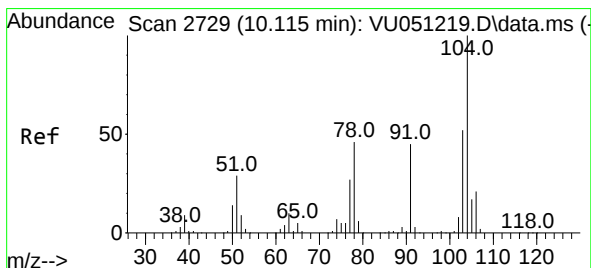
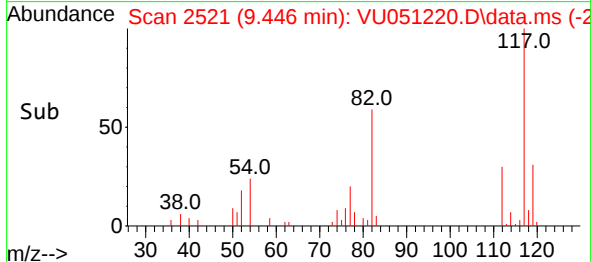
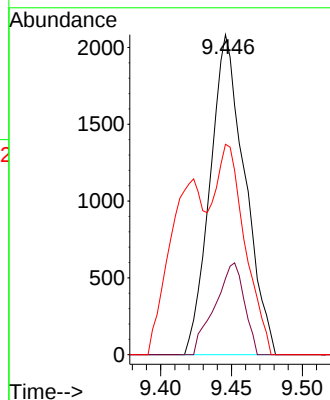
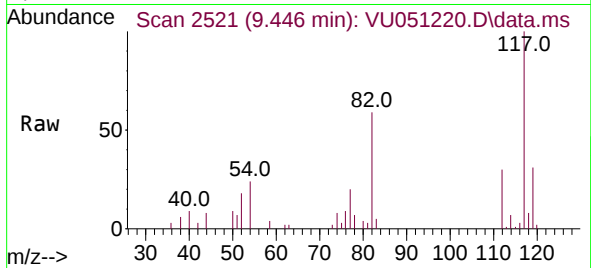




#51
Chlorobenzene
Concen: 0.081 ug/L
RT: 9.446 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU051220.D
Acq: 07 Oct 2022 15:56

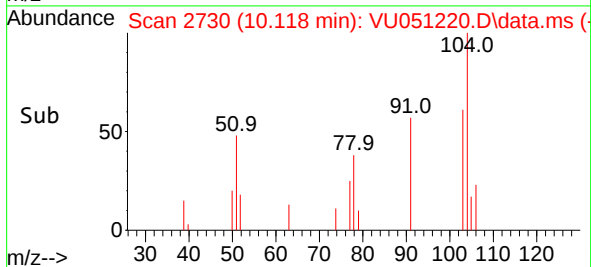
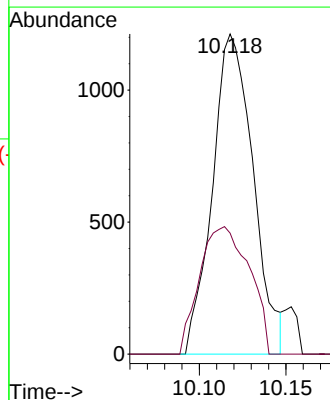
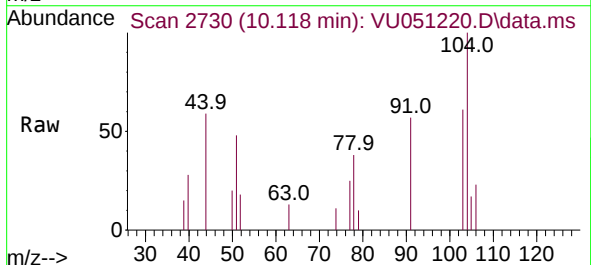
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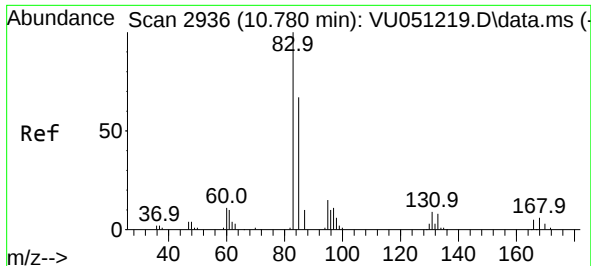
Tgt Ion:112 Resp: 3552
Ion Ratio Lower Upper
112 100
114 23.8 22.3 41.5
77 65.8 48.1 72.1



#55
Styrene
Concen: 0.048 ug/L
RT: 10.118 min Scan# 2730
Delta R.T. 0.003 min
Lab File: VU051220.D
Acq: 07 Oct 2022 15:56

Tgt Ion:104 Resp: 1981
Ion Ratio Lower Upper
104 100
78 37.8 32.1 59.7





#57

1,1,2,2-Tetrachloroethane

Concen: 0.101 ug/L

RT: 10.780 min Scan# 2936

Delta R.T. -0.000 min

Lab File: VU051220.D

Acq: 07 Oct 2022 15:56

Instrument :

MSVOA_U

ClientSampleId :

VBLK106

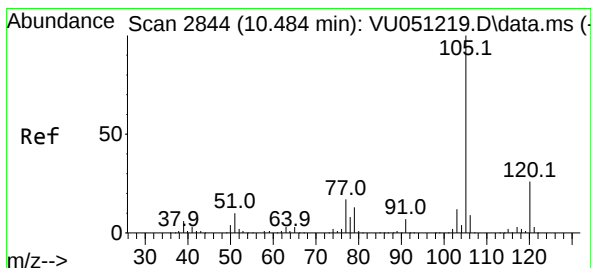
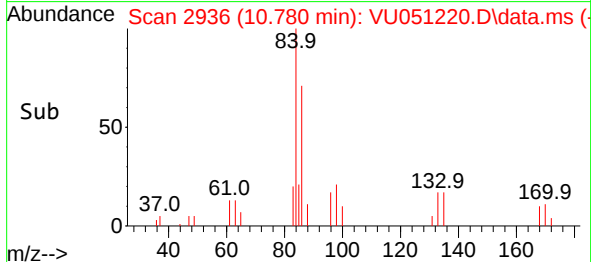
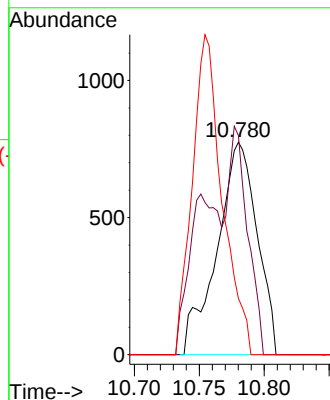
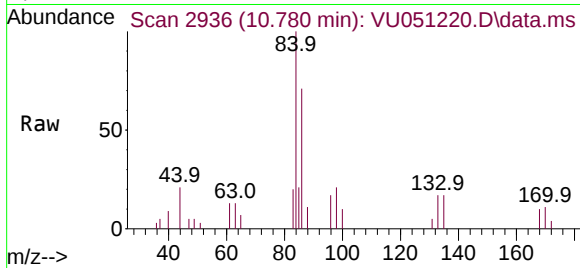
Tgt Ion: 83 Resp: 1661

Ion Ratio Lower Upper

83 100

85 103.1 45.9 85.3#

131 26.5 7.4 11.2#



#60

Isopropylbenzene

Concen: 0.068 ug/L

RT: 10.481 min Scan# 2843

Delta R.T. -0.003 min

Lab File: VU051220.D

Acq: 07 Oct 2022 15:56

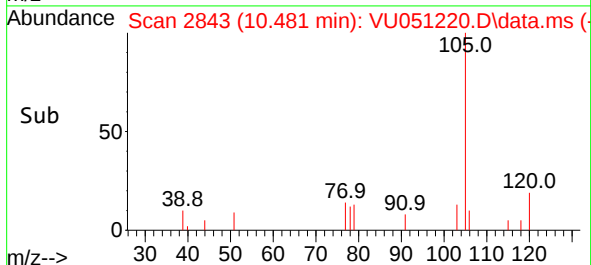
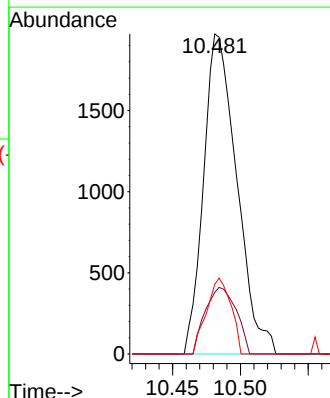
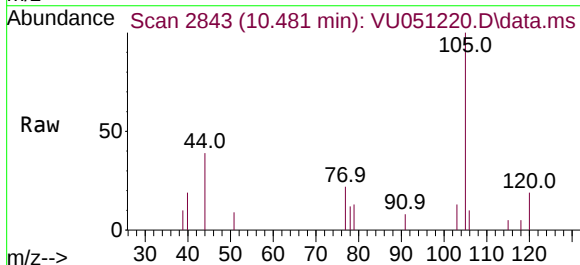
Tgt Ion: 105 Resp: 3354

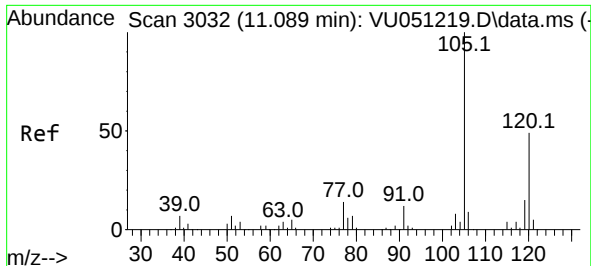
Ion Ratio Lower Upper

105 100

120 19.4 20.6 30.8#

77 17.4 13.5 20.3





#62

1,3,5-Trimethylbenzene

Concen: 0.170 ug/L

RT: 11.089 min Scan# 3032

Delta R.T. -0.000 min

Lab File: VU051220.D

Acq: 07 Oct 2022 15:56

Instrument :

MSVOA_U

ClientSampleId :

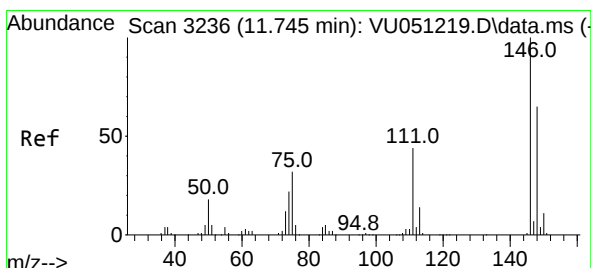
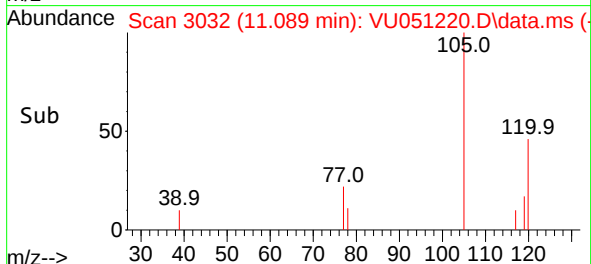
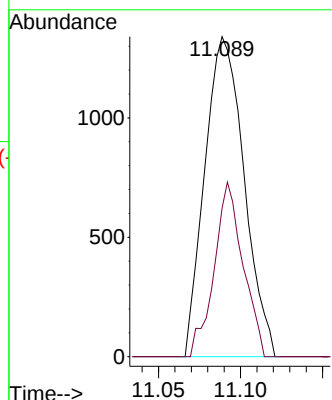
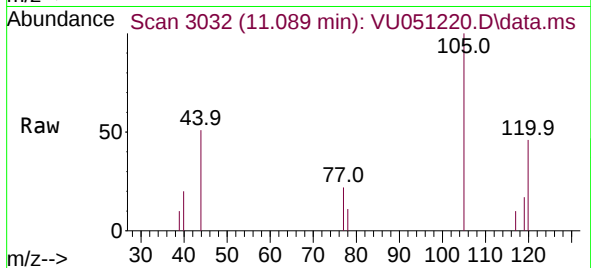
VBLK106

Tgt Ion:105 Resp: 2228

Ion Ratio Lower Upper

105 100

120 39.9 37.7 56.5



#64

1,3-Dichlorobenzene

Concen: 0.107 ug/L

RT: 11.748 min Scan# 3237

Delta R.T. 0.003 min

Lab File: VU051220.D

Acq: 07 Oct 2022 15:56

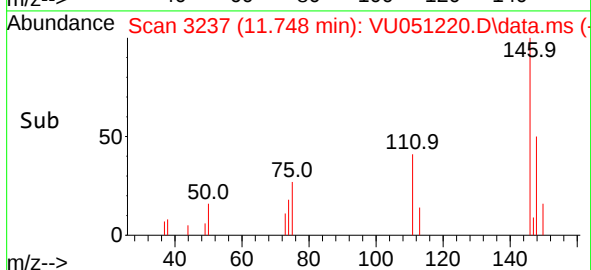
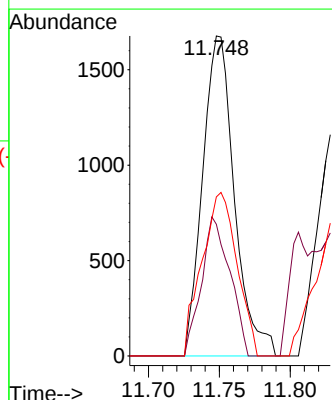
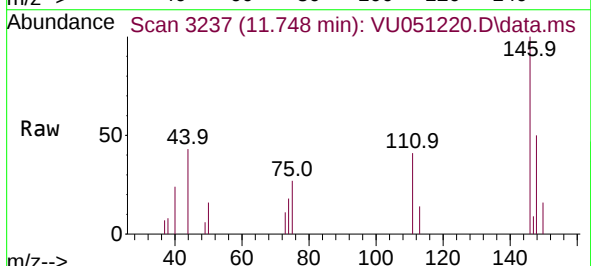
Tgt Ion:146 Resp: 2614

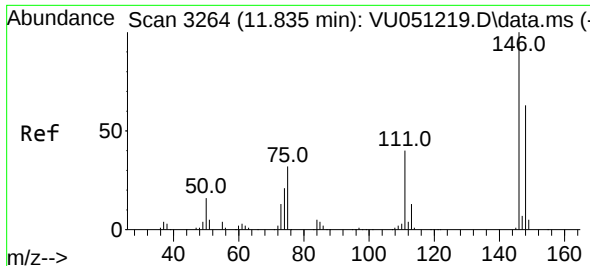
Ion Ratio Lower Upper

146 100

111 41.1 28.3 52.7

148 49.7 43.8 81.4

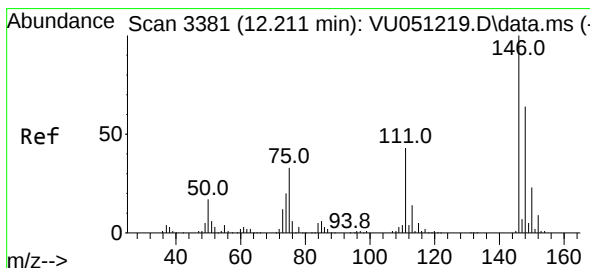
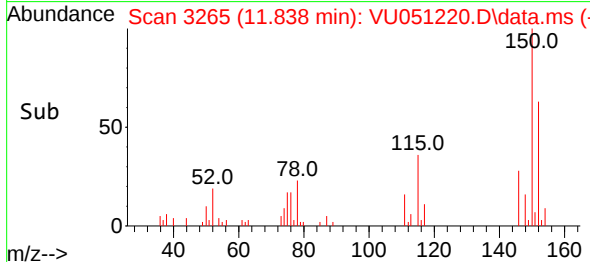
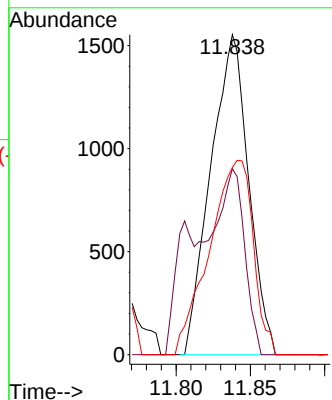
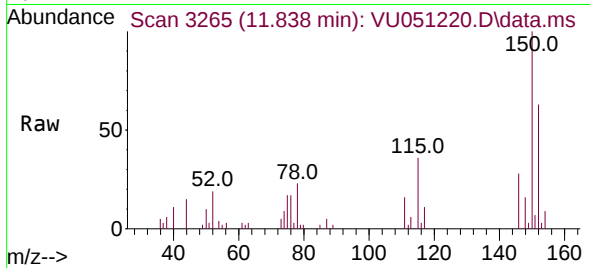




#65
 1,4-Dichlorobenzene
 Concen: 0.114 ug/L
 RT: 11.838 min Scan# 31
 Delta R.T. 0.003 min
 Lab File: VU051220.D
 Acq: 07 Oct 2022 15:56

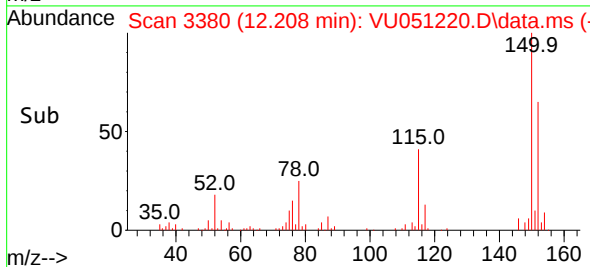
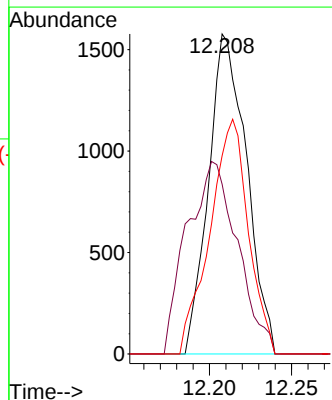
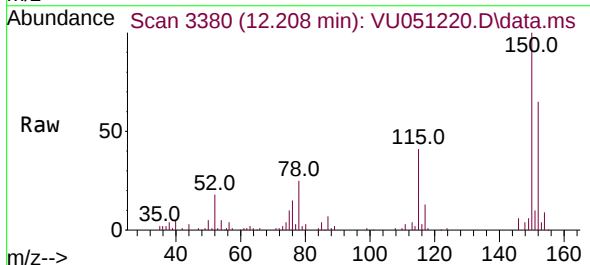
Instrument :
 MSVOA_U
 ClientSampleId :
 VBLK106

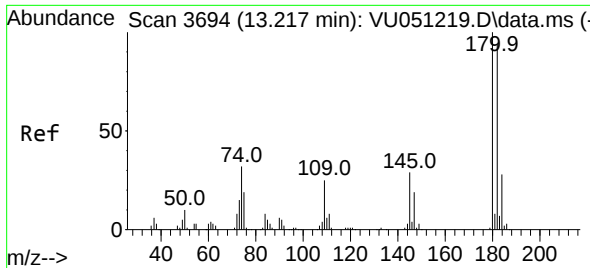
Tgt Ion:146 Resp: 2751
 Ion Ratio Lower Upper
 146 100
 111 58.1 29.1 54.1#
 148 58.5 44.2 82.0



#67
 1,2-Dichlorobenzene
 Concen: 0.107 ug/L
 RT: 12.208 min Scan# 3380
 Delta R.T. -0.003 min
 Lab File: VU051220.D
 Acq: 07 Oct 2022 15:56

Tgt Ion:146 Resp: 2533
 Ion Ratio Lower Upper
 146 100
 111 53.1 35.5 53.3
 148 62.0 50.9 76.3





#69

1,3,5-Trichlorobenzene

Concen: 0.121 ug/L

RT: 13.224 min Scan# 30

Delta R.T. 0.006 min

Lab File: VU051220.D

Acq: 07 Oct 2022 15:56

Instrument :

MSVOA_U

ClientSampleId :

VBLK106

Tgt Ion:180 Resp: 2041

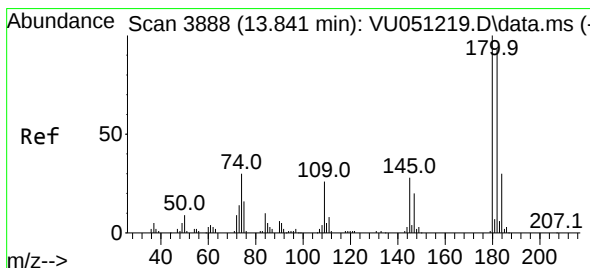
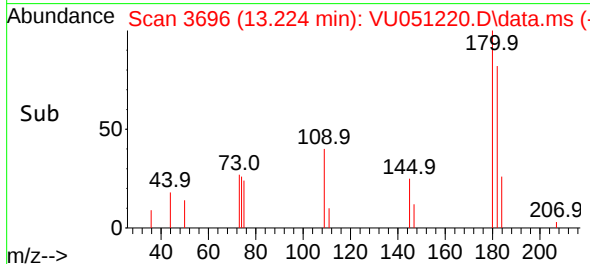
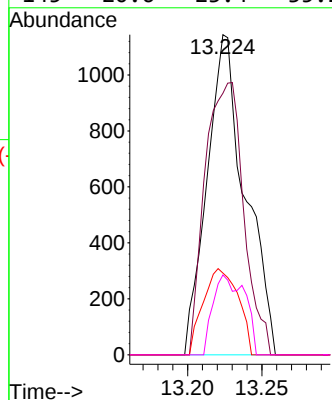
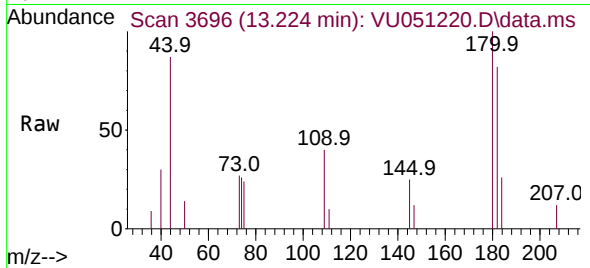
Ion Ratio Lower Upper

180 100

182 86.0 77.7 116.5

184 24.6 23.6 35.4

145 20.6 23.4 35.2#



#70

1,2,4-trichlorobenzene

Concen: 0.167 ug/L

RT: 13.847 min Scan# 3890

Delta R.T. 0.006 min

Lab File: VU051220.D

Acq: 07 Oct 2022 15:56

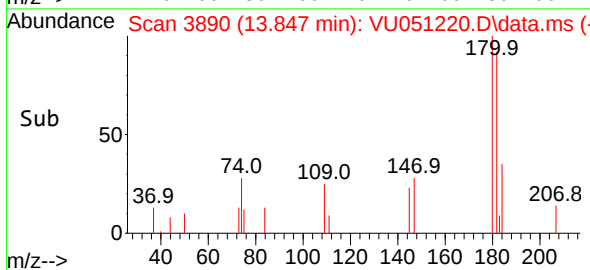
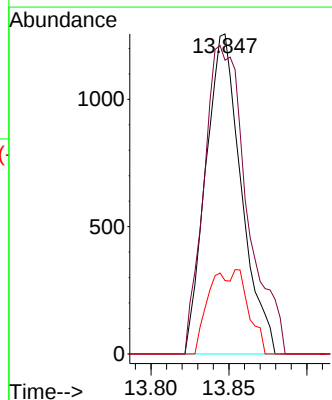
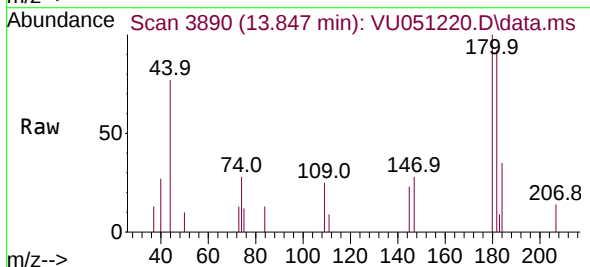
Tgt Ion:180 Resp: 1991

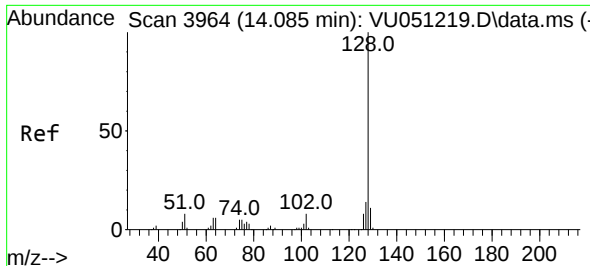
Ion Ratio Lower Upper

180 100

182 116.5 78.7 118.1

145 16.8 25.0 37.4#

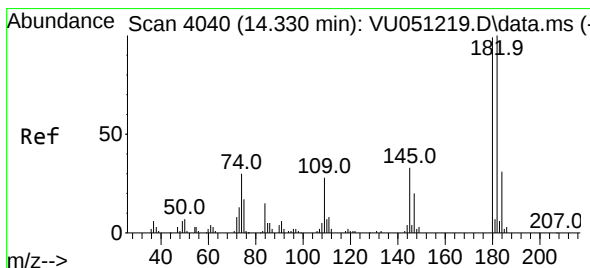
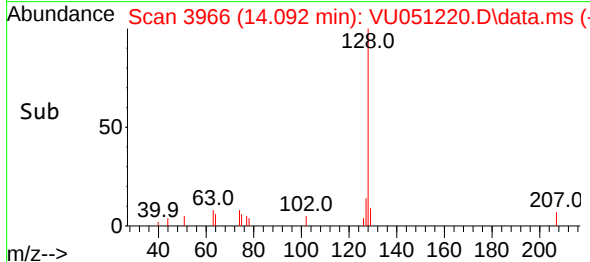
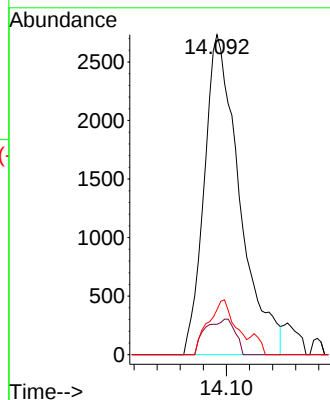
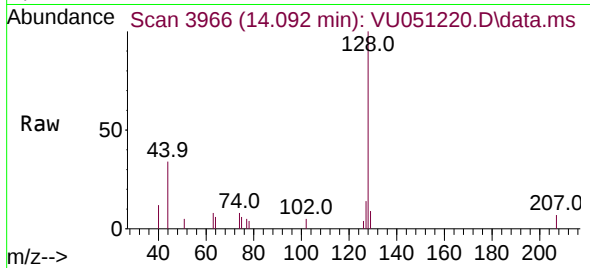




#71
Naphthalene
Concen: 0.261 ug/L
RT: 14.092 min Scan# 3966
Delta R.T. 0.006 min
Lab File: VU051220.D
Acq: 07 Oct 2022 15:56

Instrument :
MSVOA_U
ClientSampleId :
VBLK106

Tgt Ion:	128	Resp:	5791
Ion Ratio	Lower	Upper	
128	100		
129	9.3	8.5	12.7
127	13.1	11.1	16.7



#72
1,2,3-Trichlorobenzene
Concen: 0.209 ug/L
RT: 14.333 min Scan# 4041
Delta R.T. 0.003 min
Lab File: VU051220.D
Acq: 07 Oct 2022 15:56

Tgt Ion:	180	Resp:	2582
Ion Ratio	Lower	Upper	
180	100		
182	86.6	76.6	114.8
145	24.6	25.8	38.8#

