

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092322\
 Data File : VU050919.D
 Acq On : 23 Sep 2022 14:55
 Operator : JC/MD
 Sample : N4650-04
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Sep 24 00:24:02 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM092022WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Sep 24 00:22:43 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.247	114	368517	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.414	117	355903	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.809	152	154747	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	175850	46.057	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	92.120%
7) Chloroethane-d5	1.909	69	149275	54.896	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	109.800%
11) 1,1-Dichloroethene-d2	2.565	63	224729	37.827	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	75.660%
21) 2-Butanone-d5	4.623	46	326390	132.413	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	132.410%#
24) Chloroform-d	5.060	84	313173	52.340	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	104.680%
26) 1,2-Dichloroethane-d4	5.700	65	205462	55.719	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	111.440%
32) Benzene-d6	5.726	84	632768	53.978	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	107.960%
36) 1,2-Dichloropropane-d6	6.691	67	213637	53.990	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	107.980%
41) Toluene-d8	7.896	98	511946	49.960	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.920%
43) trans-1,3-Dichloroprop...	8.176	79	90780	52.737	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	105.480%
47) 2-Hexanone-d5	8.633	63	177100	108.607	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	108.610%
56) 1,1,2,2-Tetrachloroeth...	10.755	84	322733	53.497	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	107.000%
66) 1,2-Dichlorobenzene-d4	12.192	152	186851	57.670	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	115.340%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.604	62	382588	88.094	ug/L	98
8) Chloroethane	1.932	64	1589670	661.107	ug/L	100
10) 1,1,2-Trichloro-1,2,2-...	2.562	101	1970	0.653	ug/L #	21
12) 1,1-Dichloroethene	2.578	96	18792	6.633	ug/L #	1
17) trans-1,2-Dichloroethene	3.353	96	20357	7.011	ug/L	98
19) 1,1-Dichloroethane	3.867	63	2555595	435.562	ug/L	98
20) cis-1,2-Dichloroethene	4.665	96	1117810	347.184	ug/L	99
27) 1,2-Dichloroethane	5.793	62	8727	1.964	ug/L	95
30) 1,1,1-Trichloroethane	5.314	97	1249595	263.914	ug/L	99
31) Carbon tetrachloride	5.314	117	162853	41.402	ug/L	98
33) Benzene	5.771	78	11182	0.854	ug/L	100
34) Trichloroethene	6.543	95	17905	5.885	ug/L	98
35) Methylcyclohexane	6.761	83	4062	0.829	ug/L	95
39) cis-1,3-Dichloropropene	7.565	75	5410	1.128	ug/L #	64
42) Toluene	7.967	91	546401	42.023	ug/L	99
44) trans-1,3-Dichloropropene	8.176	75	3718	0.815	ug/L #	82
46) Tetrachloroethene	8.552	164	33386	15.270	ug/L	97
52) Ethylbenzene	9.568	91	99118	7.641	ug/L	98
53) m,p-Xylene	9.690	106	72994	15.136	ug/L	99

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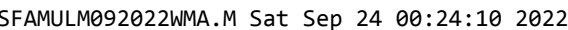
Instrument :
 MSVOA_U
 ClientSampleId :

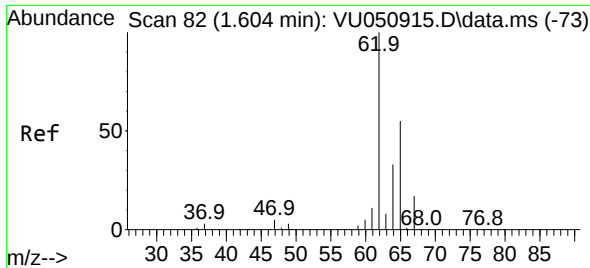
Quant Time: Sep 24 00:24:02 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM092022WMA.M
 Quant Title : VOC Analysis
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	10.099	106	50003	10.406	ug/L	100
61) Isopropylbenzene	10.481	105	13485	1.219	ug/L	98
62) 1,3,5-Trimethylbenzene	11.086	105	35080	3.859	ug/L	99
63) 1,2,4-Trimethylbenzene	11.465	105	167129	18.564	ug/L	99
67) 1,2-Dichlorobenzene	12.211	146	9355	1.747	ug/L	91
71) Naphthalene	14.086	128	20757	1.865	ug/L	96

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

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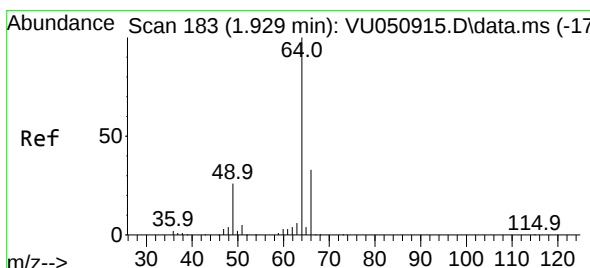
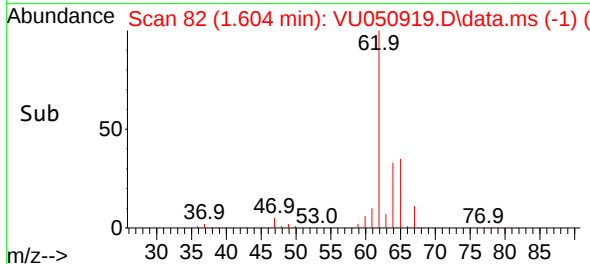
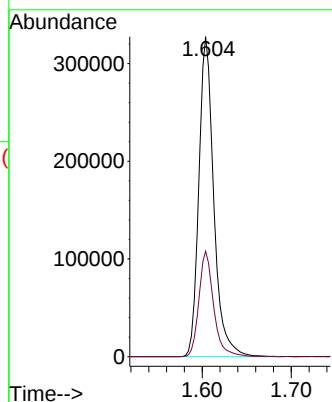
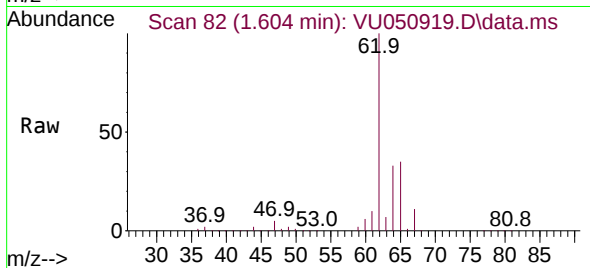




#5
 Vinyl chloride
 Concen: 88.094 ug/L
 RT: 1.604 min Scan# 81
 Delta R.T. 0.000 min
 Lab File: VU050919.D
 Acq: 23 Sep 2022 14:55

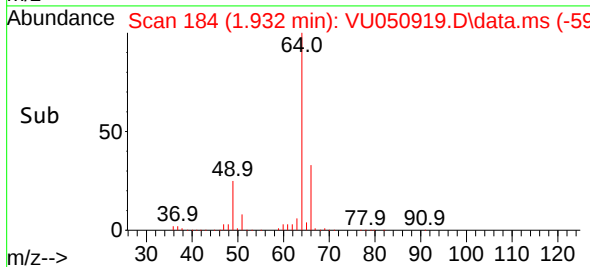
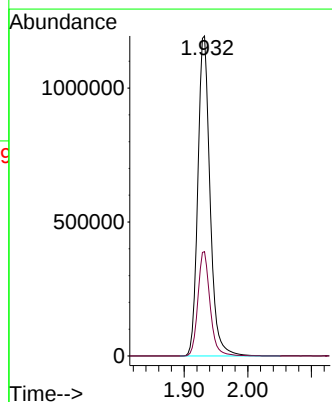
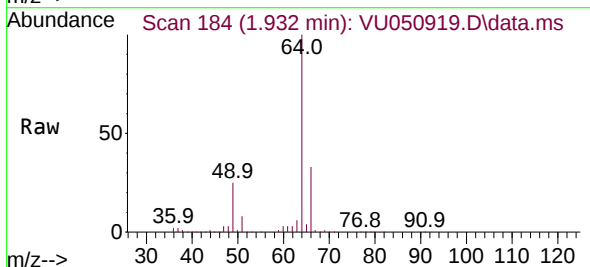
Instrument :
 MSVOA_U
 ClientSampleId :

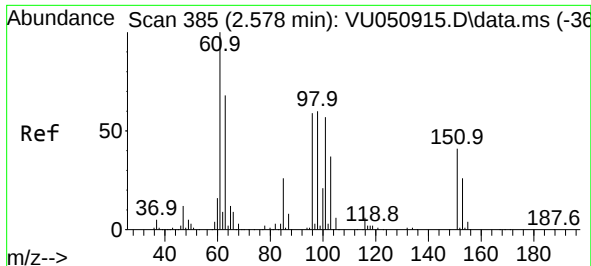
Tgt Ion: 62 Resp: 382588
 Ion Ratio Lower Upper
 62 100
 64 32.9 22.2 41.2



#8
 Chloroethane
 Concen: 661.107 ug/L
 RT: 1.932 min Scan# 184
 Delta R.T. 0.003 min
 Lab File: VU050919.D
 Acq: 23 Sep 2022 14:55

Tgt Ion: 64 Resp: 1589670
 Ion Ratio Lower Upper
 64 100
 66 32.6 22.9 42.5

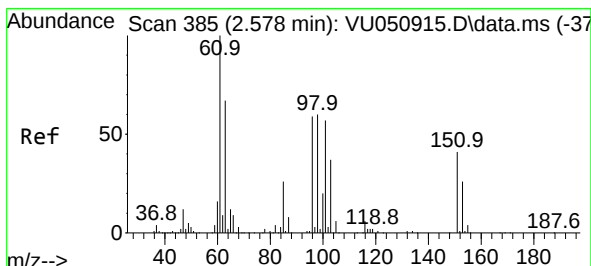
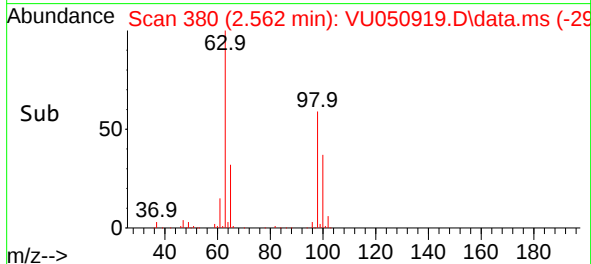
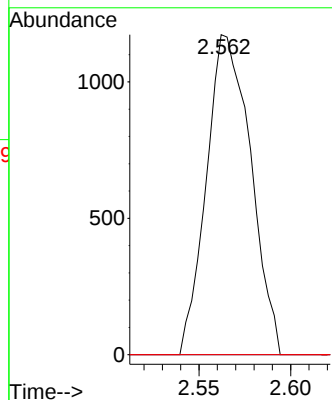
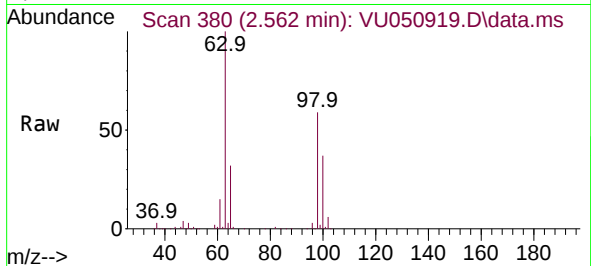




#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.653 ug/L
 RT: 2.562 min Scan# 380
 Delta R.T. -0.016 min
 Lab File: VU050919.D
 Acq: 23 Sep 2022 14:55

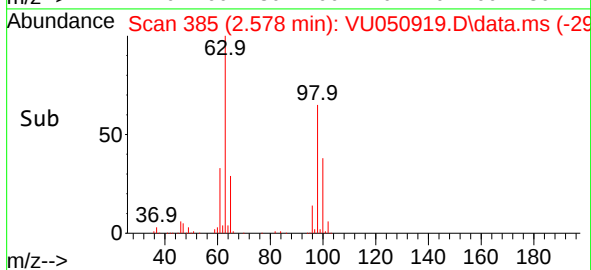
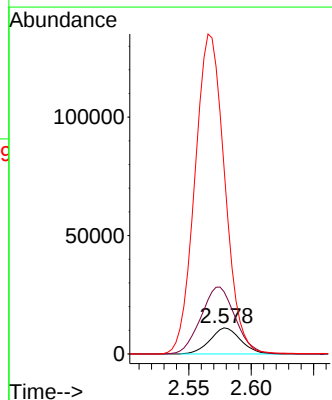
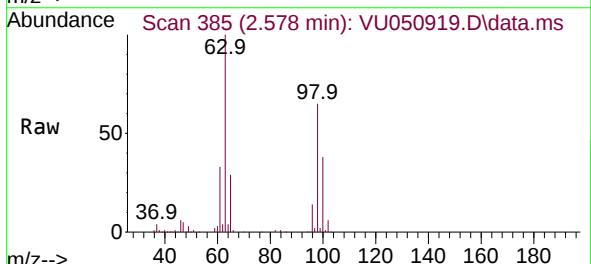
Instrument :
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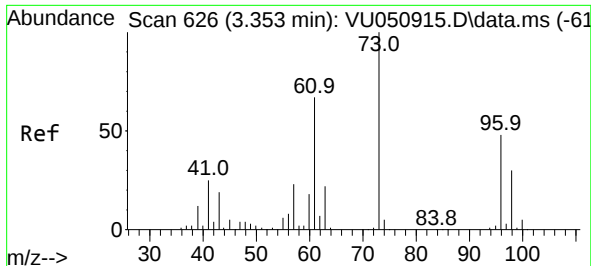
Tgt Ion:101 Resp: 1970
 Ion Ratio Lower Upper
 101 100
 85 0.0 35.1 52.7#
 151 0.0 56.6 84.8#



#12
 1,1-Dichloroethene
 Concen: 6.633 ug/L
 RT: 2.578 min Scan# 385
 Delta R.T. 0.000 min
 Lab File: VU050919.D
 Acq: 23 Sep 2022 14:55

Tgt Ion: 96 Resp: 18792
 Ion Ratio Lower Upper
 96 100
 61 239.2 118.6 220.2#
 63 715.8 90.4 168.0#





#17

trans-1,2-Dichloroethene

Concen: 7.011 ug/L

RT: 3.353 min Scan# 61

Delta R.T. 0.000 min

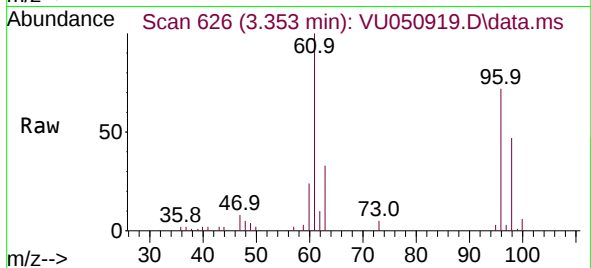
Lab File: VU050919.D

Acq: 23 Sep 2022 14:55

Instrument :

MSVOA_U

ClientSampleId :



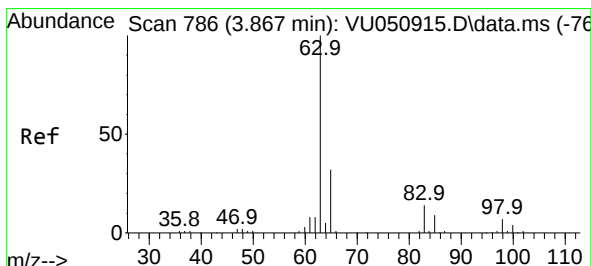
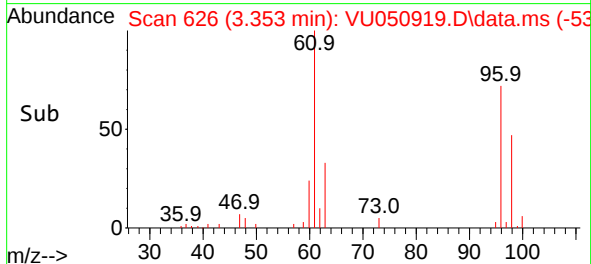
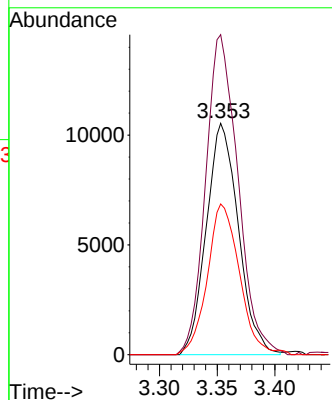
Tgt Ion: 96 Resp: 20357

Ion Ratio Lower Upper

96 100

61 138.3 98.0 182.0

98 65.1 44.3 82.3



#19

1,1-Dichloroethane

Concen: 435.562 ug/L

RT: 3.867 min Scan# 786

Delta R.T. 0.000 min

Lab File: VU050919.D

Acq: 23 Sep 2022 14:55

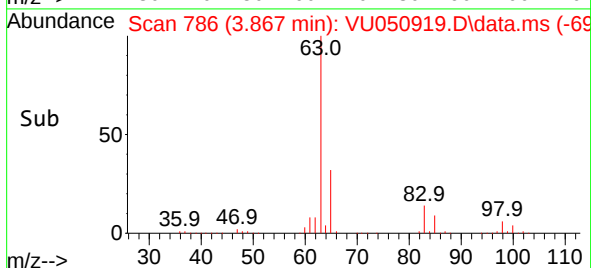
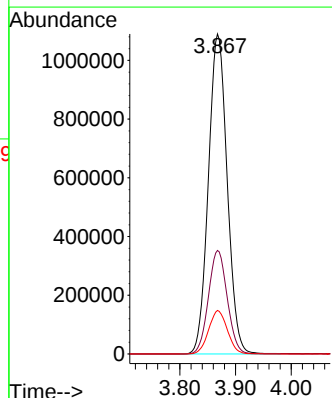
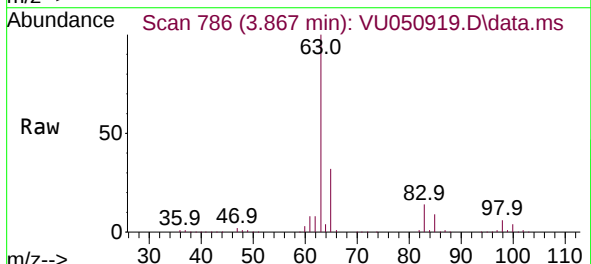
Tgt Ion: 63 Resp: 2555595

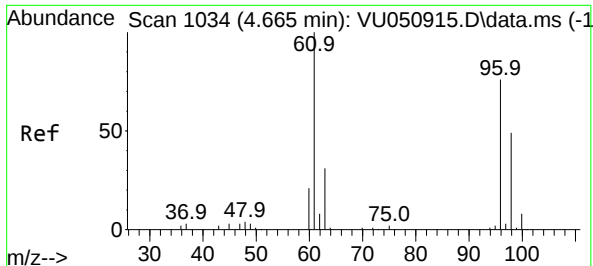
Ion Ratio Lower Upper

63 100

65 32.4 21.5 39.9

83 13.6 9.3 17.3

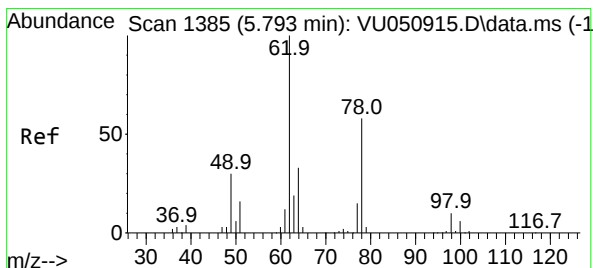
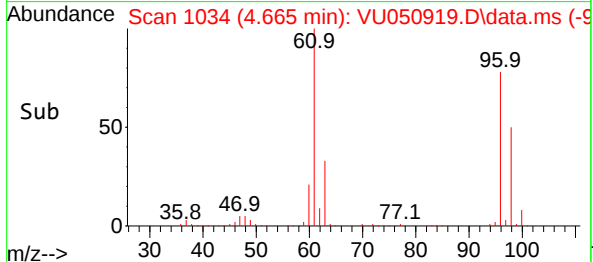
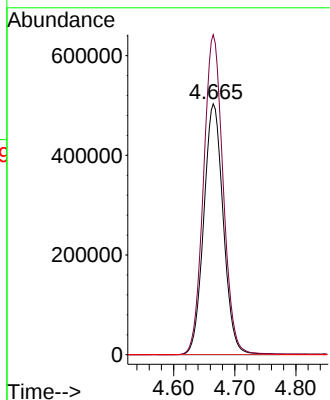
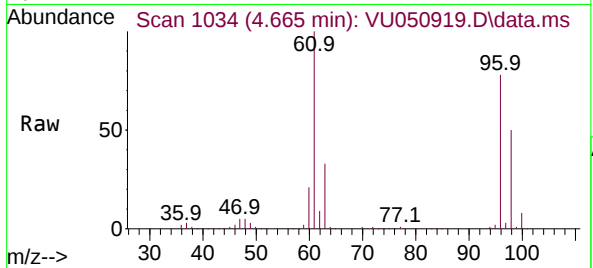




#20
 cis-1,2-Dichloroethene
 Concen: 347.184 ug/L
 RT: 4.665 min Scan# 1034
 Delta R.T. 0.000 min
 Lab File: VU050919.D
 Acq: 23 Sep 2022 14:55

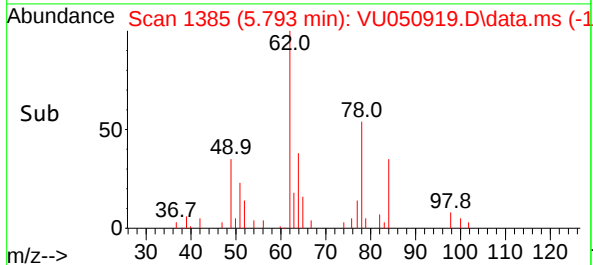
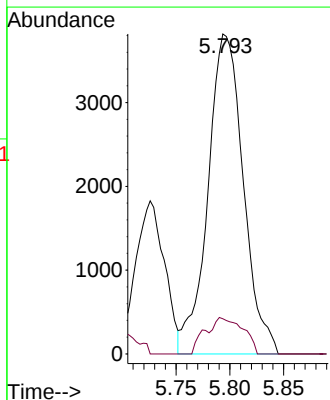
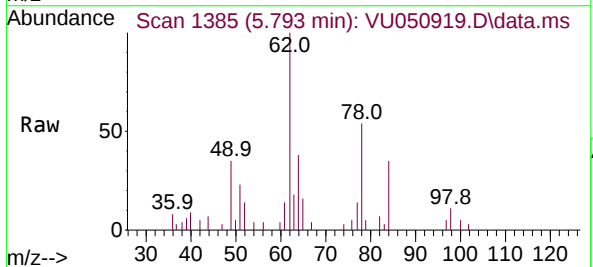
Instrument :
 MSVOA_U
 ClientSampleId :

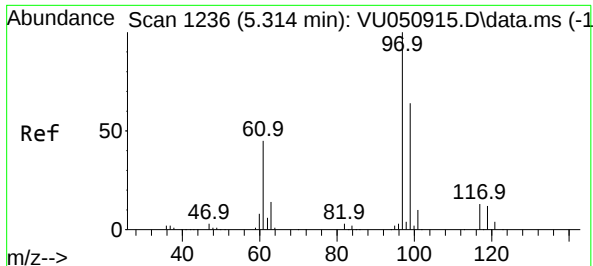
Tgt Ion: 96 Resp: 1117810
 Ion Ratio Lower Upper
 96 100
 61 127.5 90.1 167.3
 68 0.0 0.0 0.0



#27
 1,2-Dichloroethane
 Concen: 1.964 ug/L
 RT: 5.793 min Scan# 1385
 Delta R.T. 0.000 min
 Lab File: VU050919.D
 Acq: 23 Sep 2022 14:55

Tgt Ion: 62 Resp: 8727
 Ion Ratio Lower Upper
 62 100
 98 11.0 7.4 11.0





#30

1,1,1-Trichloroethane

Concen: 263.914 ug/L

RT: 5.314 min Scan# 1236

Delta R.T. 0.000 min

Lab File: VU050919.D

Acq: 23 Sep 2022 14:55

Instrument :

MSVOA_U

ClientSampleId :

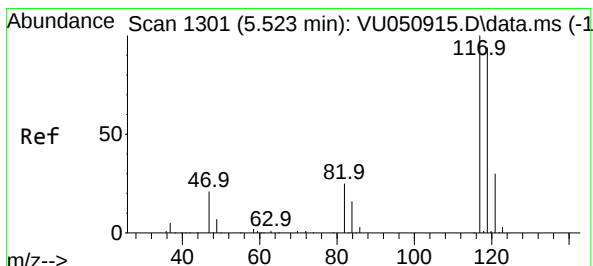
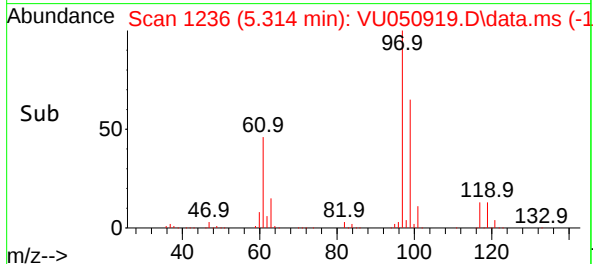
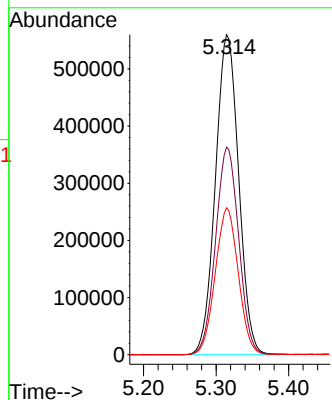
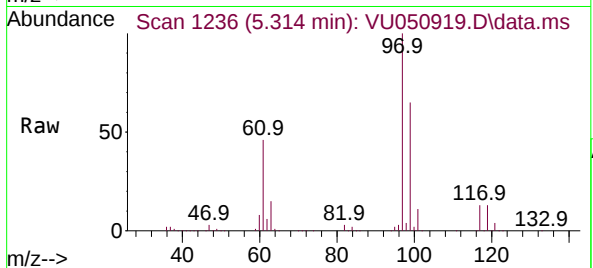
Tgt Ion: 97 Resp: 1249595

Ion Ratio Lower Upper

97 100

99 64.7 52.2 78.2

61 45.4 37.1 55.7



#31

Carbon tetrachloride

Concen: 41.402 ug/L

RT: 5.314 min Scan# 1236

Delta R.T. -0.209 min

Lab File: VU050919.D

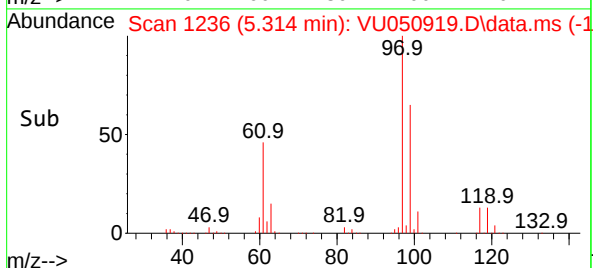
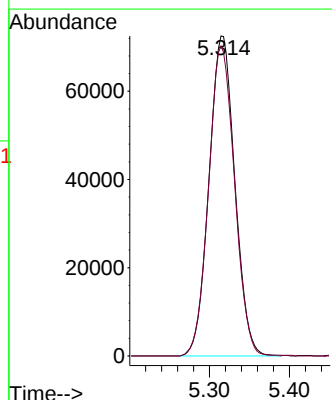
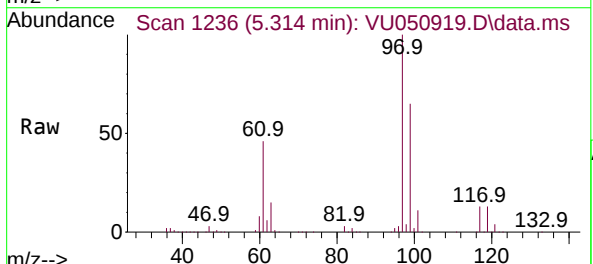
Acq: 23 Sep 2022 14:55

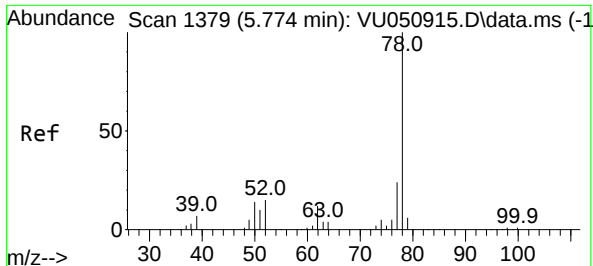
Tgt Ion: 117 Resp: 162853

Ion Ratio Lower Upper

117 100

119 97.1 76.0 114.0

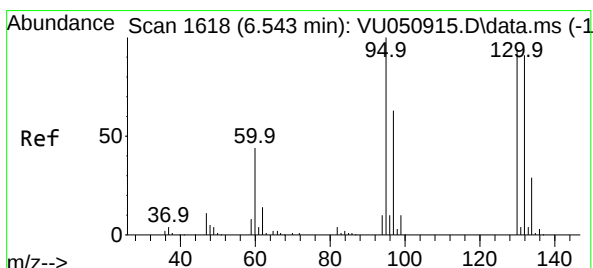
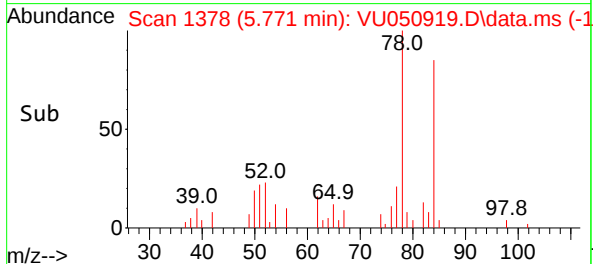
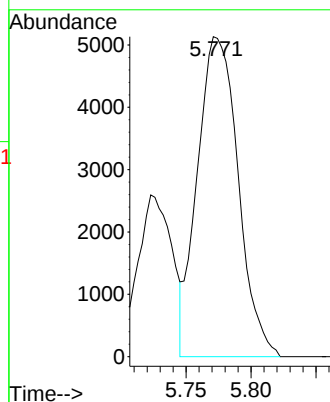
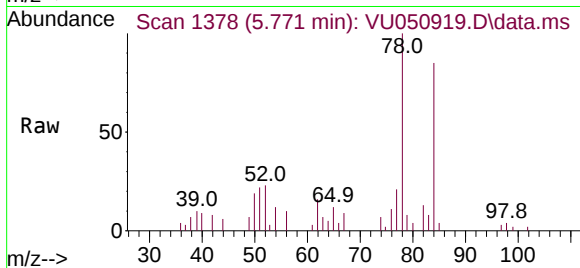




#33
Benzene
Concen: 0.854 ug/L
RT: 5.771 min Scan# 11
Delta R.T. -0.003 min
Lab File: VU050919.D
Acq: 23 Sep 2022 14:55

Instrument :
MSVOA_U
ClientSampleId :

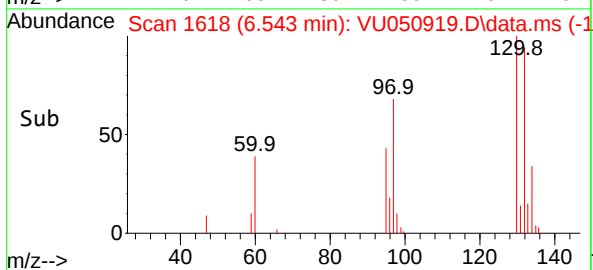
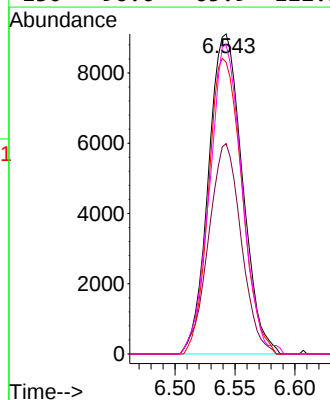
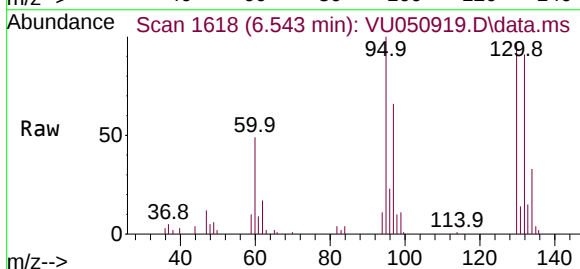
Tgt Ion: 78 Resp: 11182

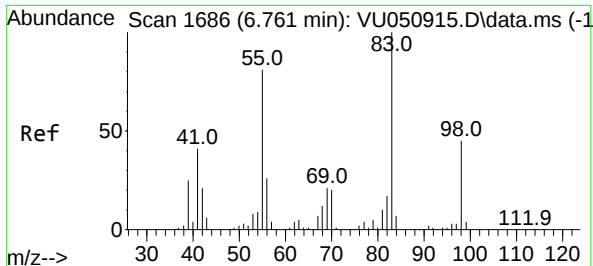


#34
Trichloroethene
Concen: 5.885 ug/L
RT: 6.543 min Scan# 1618
Delta R.T. 0.000 min
Lab File: VU050919.D
Acq: 23 Sep 2022 14:55

Tgt Ion: 95 Resp: 17905

Ion	Ratio	Lower	Upper
95	100		
97	65.8	43.9	81.5
132	91.2	63.1	117.1
130	96.6	65.9	122.3

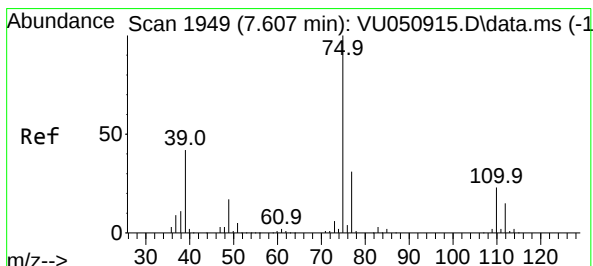
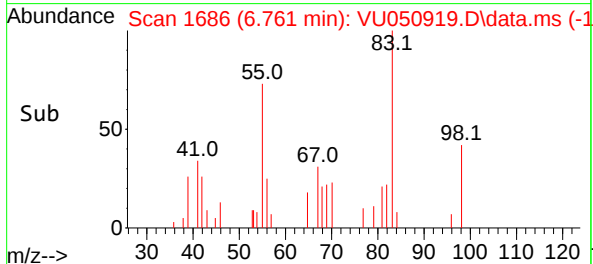
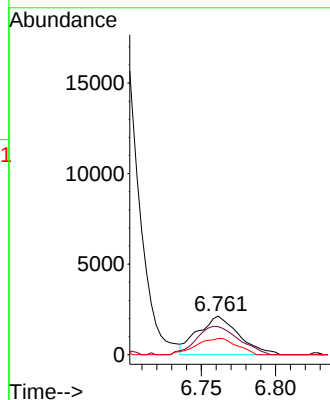
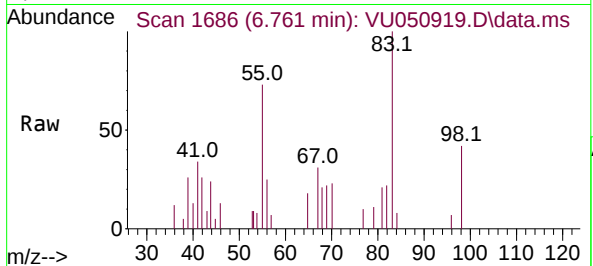




#35
Methylcyclohexane
Concen: 0.829 ug/L
RT: 6.761 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU050919.D
Acq: 23 Sep 2022 14:55

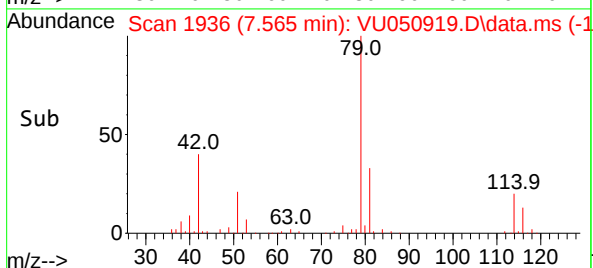
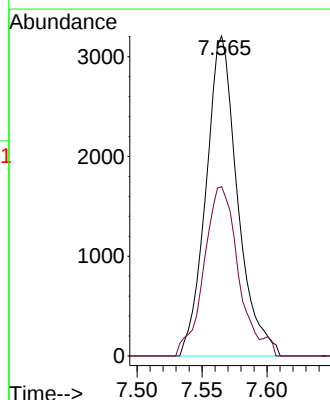
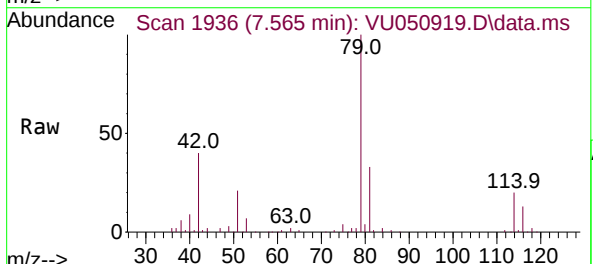
Instrument :
MSVOA_U
ClientSampleId :

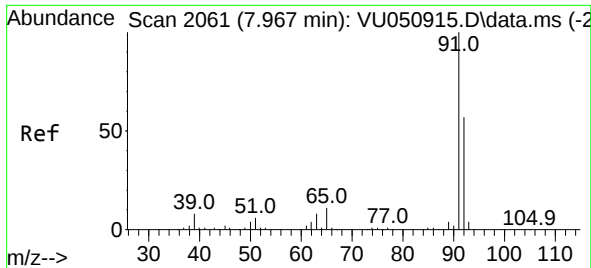
Tgt Ion: 83 Resp: 4062
Ion Ratio Lower Upper
83 100
55 75.9 64.7 97.1
98 41.7 35.2 52.8



#39
cis-1,3-Dichloropropene
Concen: 1.128 ug/L
RT: 7.565 min Scan# 1936
Delta R.T. -0.042 min
Lab File: VU050919.D
Acq: 23 Sep 2022 14:55

Tgt Ion: 75 Resp: 5410
Ion Ratio Lower Upper
75 100
77 52.9 22.8 42.4#





#42

Toluene

Concen: 42.023 ug/L

RT: 7.967 min Scan# 2061

Delta R.T. 0.000 min

Lab File: VU050919.D

Acq: 23 Sep 2022 14:55

Instrument :

MSVOA_U

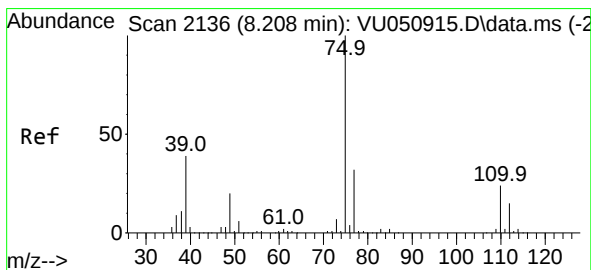
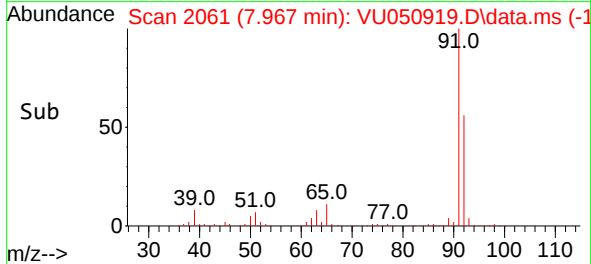
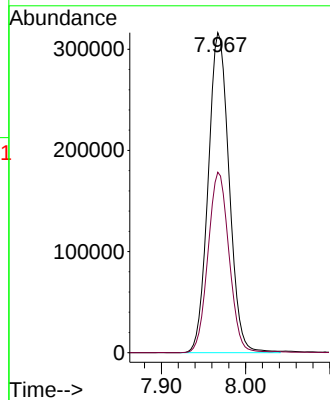
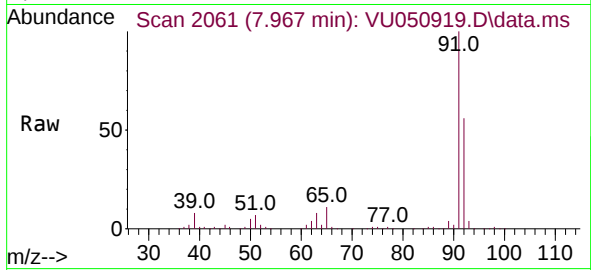
ClientSampleId :

Tgt Ion: 91 Resp: 546401

Ion Ratio Lower Upper

91 100

92 56.4 39.1 72.5



#44

trans-1,3-Dichloropropene

Concen: 0.815 ug/L

RT: 8.176 min Scan# 2126

Delta R.T. -0.032 min

Lab File: VU050919.D

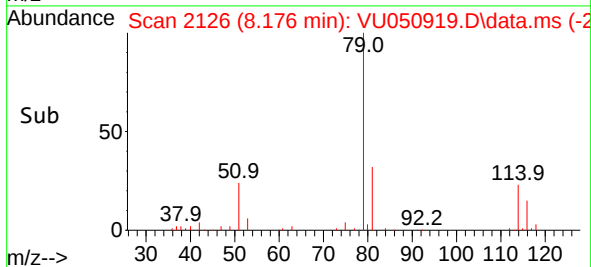
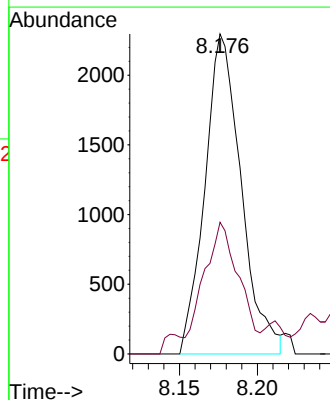
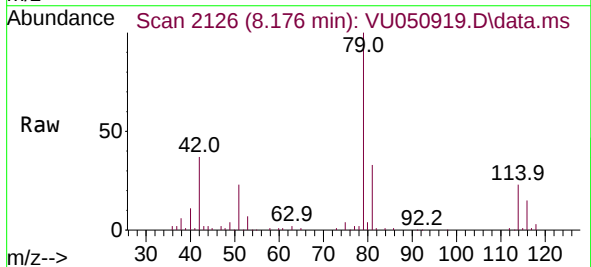
Acq: 23 Sep 2022 14:55

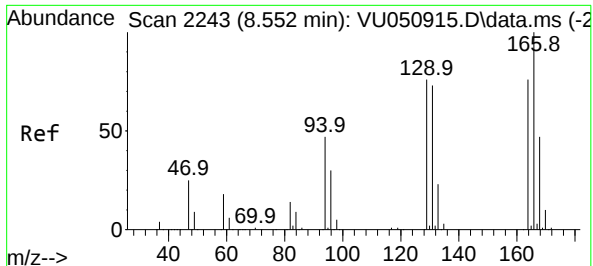
Tgt Ion: 75 Resp: 3718

Ion Ratio Lower Upper

75 100

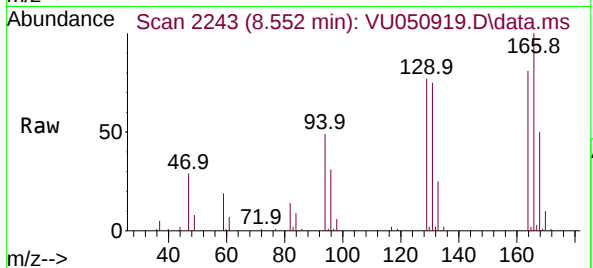
77 41.2 21.9 40.7#



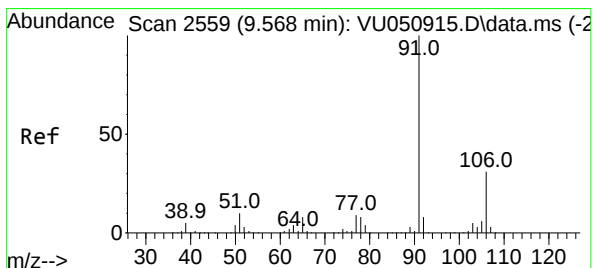
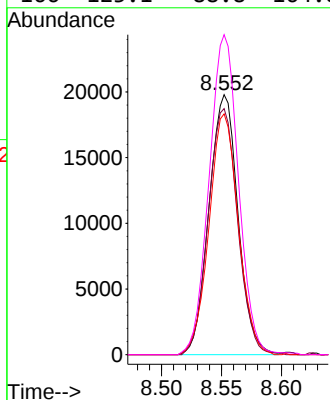
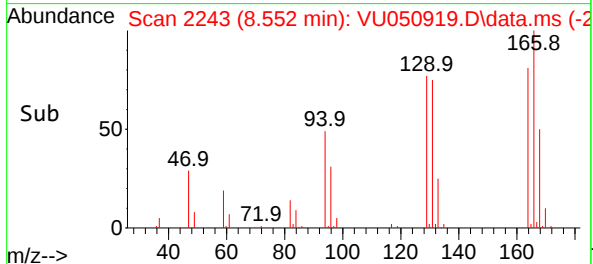


#46
Tetrachloroethene
Concen: 15.270 ug/L
RT: 8.552 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU050919.D
Acq: 23 Sep 2022 14:55

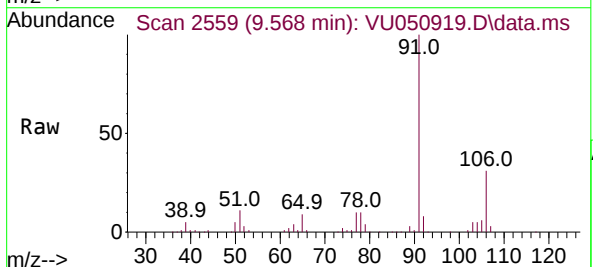
Instrument :
MSVOA_U
ClientSampleId :



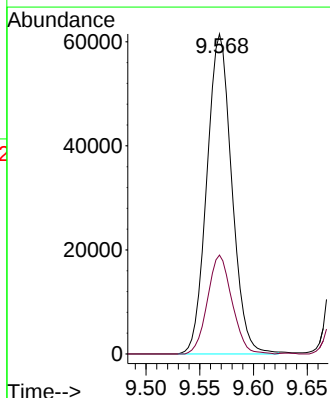
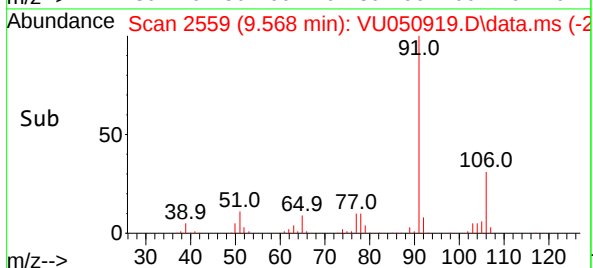
Tgt Ion:164 Resp: 33386
Ion Ratio Lower Upper
164 100
129 94.7 68.5 127.3
131 92.6 66.1 122.7
166 123.1 88.8 164.8

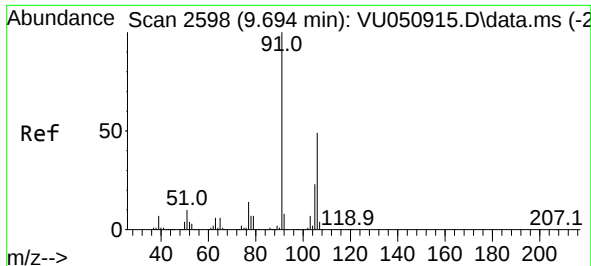


#52
Ethylbenzene
Concen: 7.641 ug/L
RT: 9.568 min Scan# 2559
Delta R.T. 0.000 min
Lab File: VU050919.D
Acq: 23 Sep 2022 14:55



Tgt Ion: 91 Resp: 99118
Ion Ratio Lower Upper
91 100
106 30.9 21.0 39.0

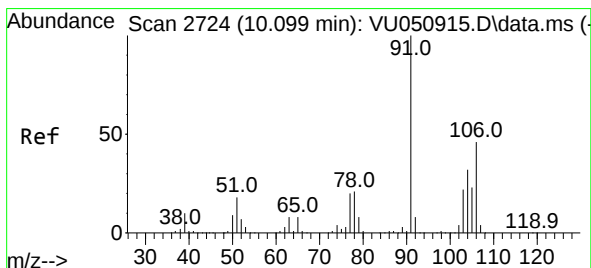
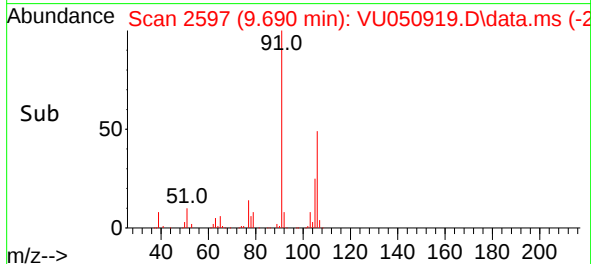
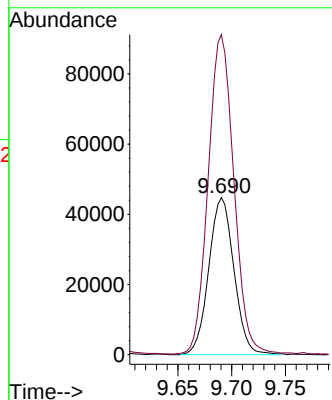
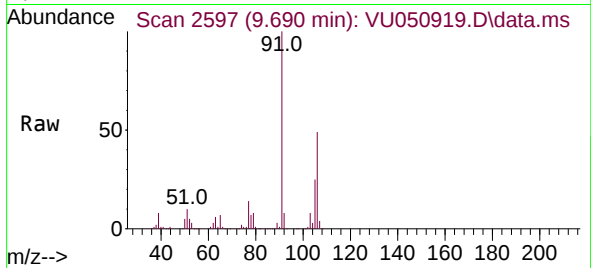




#53
m,p-Xylene
Concen: 15.136 ug/L
RT: 9.690 min Scan# 2598
Delta R.T. -0.003 min
Lab File: VU050919.D
Acq: 23 Sep 2022 14:55

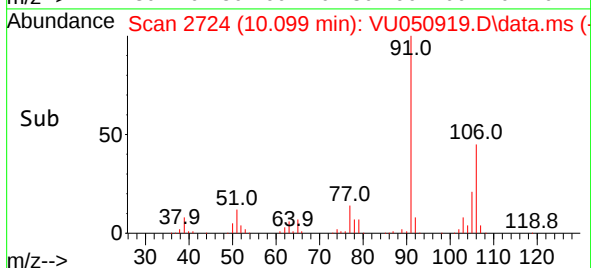
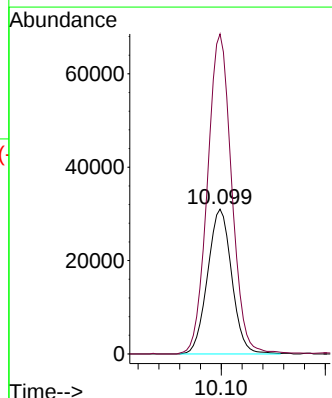
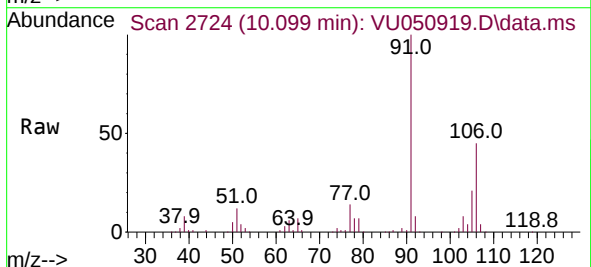
Instrument :
MSVOA_U
ClientSampleId :

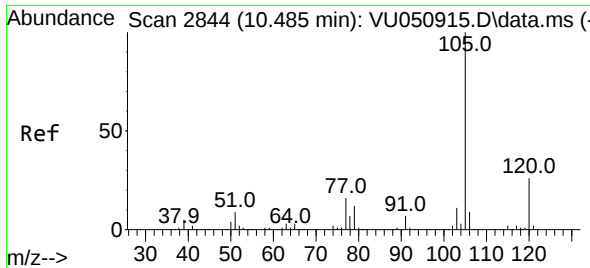
Tgt Ion:106 Resp: 72994
Ion Ratio Lower Upper
106 100
91 203.7 144.0 267.4



#54
o-Xylene
Concen: 10.406 ug/L
RT: 10.099 min Scan# 2724
Delta R.T. 0.000 min
Lab File: VU050919.D
Acq: 23 Sep 2022 14:55

Tgt Ion:106 Resp: 50003
Ion Ratio Lower Upper
106 100
91 221.1 154.6 287.0

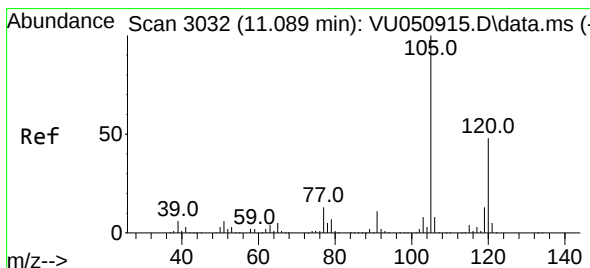
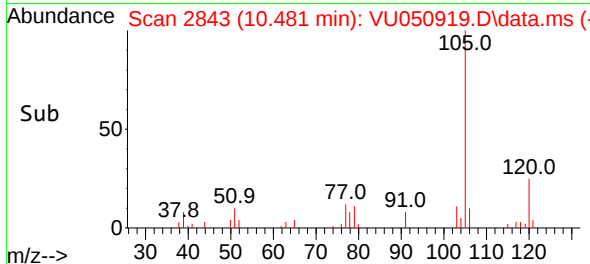
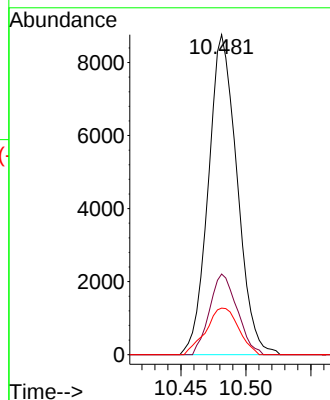
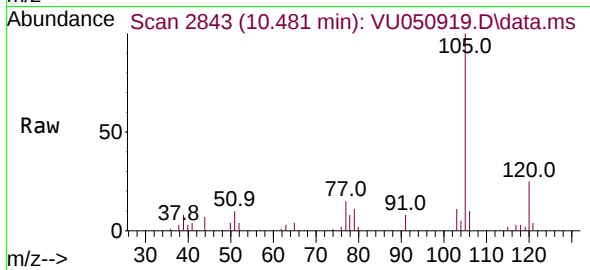




#61
Isopropylbenzene
Concen: 1.219 ug/L
RT: 10.481 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU050919.D
Acq: 23 Sep 2022 14:55

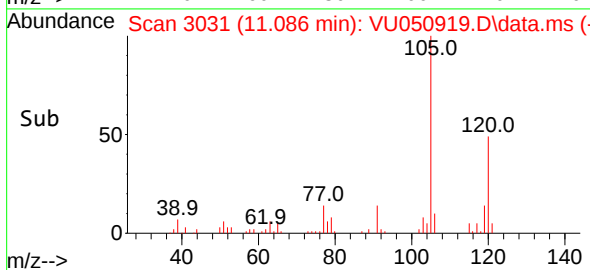
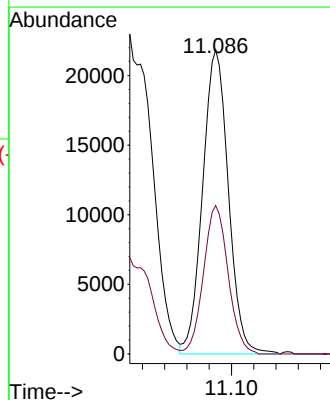
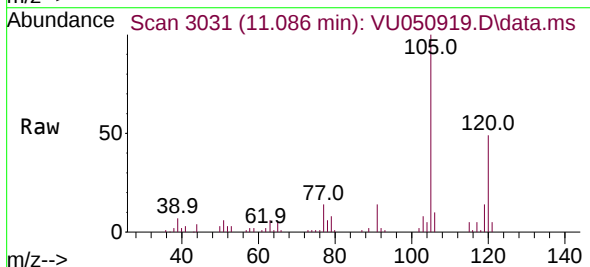
Instrument :
MSVOA_U
ClientSampleId :

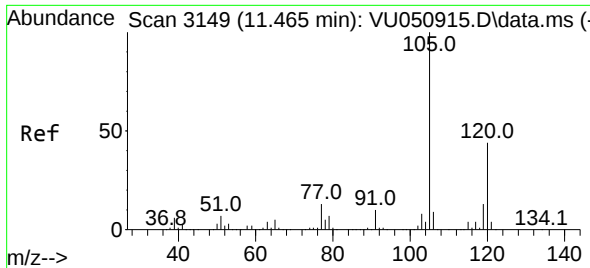
Tgt Ion:105	Resp:	13485
Ion Ratio	Lower	Upper
105	100	
120	24.2	20.5 30.7
77	16.4	12.9 19.3



#62
1,3,5-Trimethylbenzene
Concen: 3.859 ug/L
RT: 11.086 min Scan# 3031
Delta R.T. -0.003 min
Lab File: VU050919.D
Acq: 23 Sep 2022 14:55

Tgt Ion:105	Resp:	35080
Ion Ratio	Lower	Upper
105	100	
120	46.8	37.9 56.9

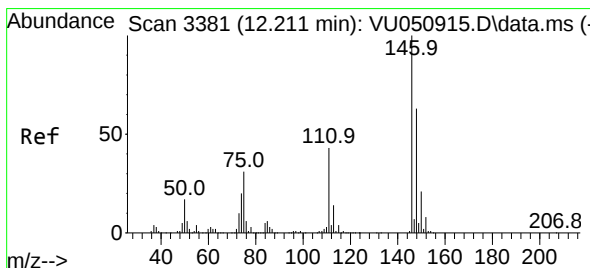
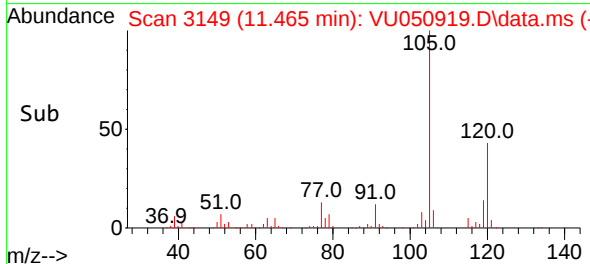
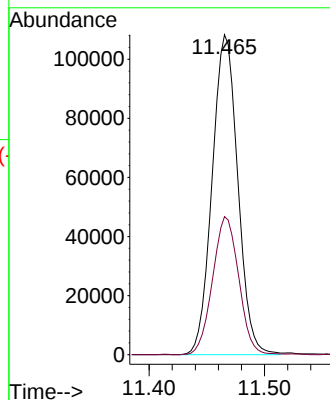
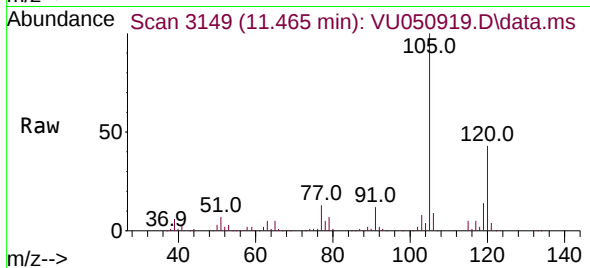




#63
1,2,4-Trimethylbenzene
Concen: 18.564 ug/L
RT: 11.465 min Scan# 3149
Delta R.T. 0.000 min
Lab File: VU050919.D
Acq: 23 Sep 2022 14:55

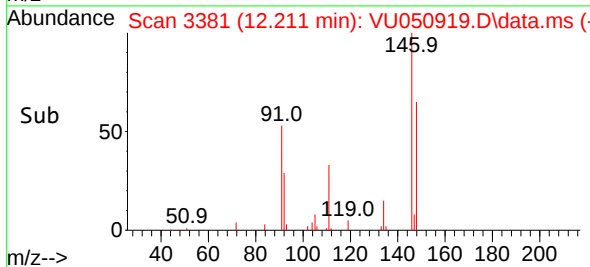
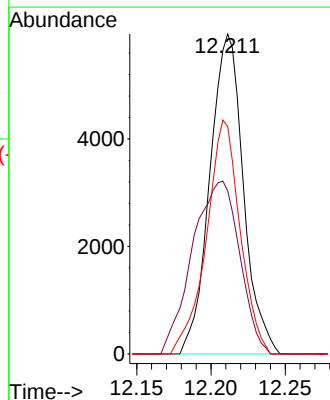
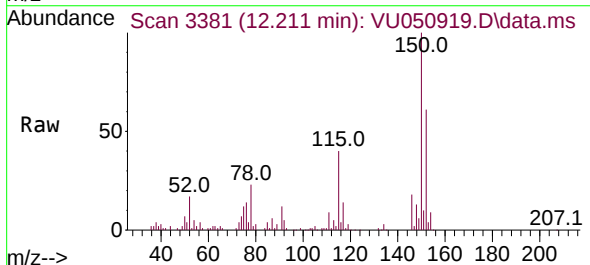
Instrument :
MSVOA_U
ClientSampleId :

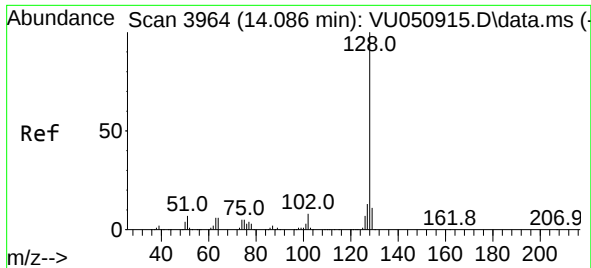
Tgt Ion:105 Resp: 167129
Ion Ratio Lower Upper
105 100
120 44.0 34.9 52.3



#67
1,2-Dichlorobenzene
Concen: 1.747 ug/L
RT: 12.211 min Scan# 3381
Delta R.T. 0.000 min
Lab File: VU050919.D
Acq: 23 Sep 2022 14:55

Tgt Ion:146 Resp: 9355
Ion Ratio Lower Upper
146 100
111 50.9 35.2 52.8
148 71.0 52.0 78.0





#71

Naphthalene

Concen: 1.865 ug/L

RT: 14.086 min Scan# 3964

Delta R.T. 0.000 min

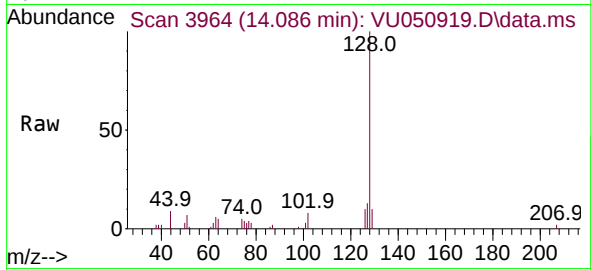
Lab File: VU050919.D

Acq: 23 Sep 2022 14:55

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:128 Resp: 20757

Ion Ratio Lower Upper

128 100

127 12.3 10.6 16.0

129 8.5 8.5 12.7

