

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU091622\
 Data File : VU050725.D
 Acq On : 16 Sep 2022 15:02
 Operator : JC/MD
 Sample : N4568-01
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 7 Sample Multiplier: 1

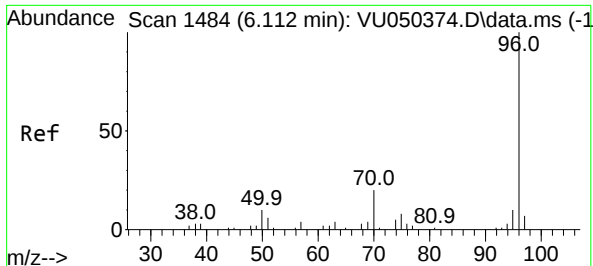
Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Sep 17 01:07:41 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U081922DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Thu Aug 25 14:01:59 2022
 Response via : Initial Calibration

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

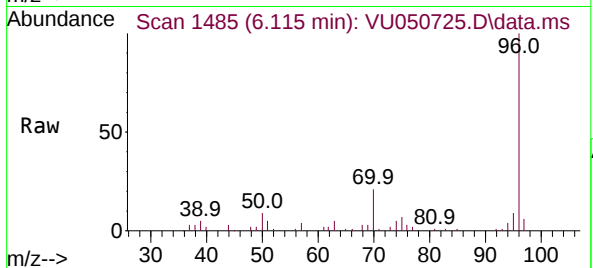
Internal Standards						
1) Fluorobenzene	6.115	96	44941	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.636	95	12446	0.813	ug/l	0.00
Spiked Amount 1.000			Recovery	=	81.000%	
68) 1,2-Dichlorobenzene-d4	12.198	152	14620	0.808	ug/l	0.00
Spiked Amount 1.000			Recovery	=	81.000%	
Target Compounds						
						Qvalue
13) Acetone	2.626	43	1930	0.695	ug/l	94
15) Methylene Chloride	3.044	84	21018	1.174	ug/l	97
24) tert-Butyl Alcohol	3.189	59	705	0.490	ug/l #	73
27) Chloroform	5.089	83	920843	33.351	ug/l	98
39) Methacrylonitrile	5.089	41	3015	0.570	ug/l #	24
41) Tetrahydrofuran	5.089	42	1761	0.665	ug/l #	1
43) Dibromomethane	6.919	93	4511	0.562	ug/l	93
44) Bromodichloromethane	7.105	83	1040801	54.948	ug/l	97
45) 4-Methyl-2-Pentanone	7.796	43	2313	0.287	ug/l	98
46) t-1,4-Dichloro-2-butene	10.822	75	277	0.580	ug/l #	26
48) Ethyl methacrylate	8.333	69	149	0.563	ug/l	81
54) 2-Hexanone	8.697	43	2638	0.470	ug/l	92
55) Dibromochloromethane	8.809	129	219477	16.912	ug/l	98
63) Ethyl Benzene	9.574	91	684	0.580	ug/l	92
64) m/p-Xylenes	9.703	106	555	1.105	ug/l	95
65) o-Xylene	10.099	106	259	0.522	ug/l #	1
66) Styrene	10.121	104	538	0.612	ug/l #	51
67) Bromoform	10.291	173	201908	27.396	ug/l	99
69) Isopropylbenzene	10.484	105	1018	0.585	ug/l	78
73) n-propylbenzene	11.095	120	390	0.613	ug/l	83
74) 2-Chlorotoluene	11.102	126	398	0.414	ug/l	52
75) 1,3,5-Trimethylbenzene	11.092	105	1200	0.544	ug/l #	78
76) 4-Chlorotoluene	11.102	126	398	0.424	ug/l	83
77) tert-Butylbenzene	11.420	119	1571	0.522	ug/l #	93
78) 1,2,4-Trimethylbenzene	11.472	105	1477	0.589	ug/l	97
79) sec-Butylbenzene	11.642	105	3672	0.596	ug/l	94
80) Nitrobenzene	13.221	77	1540	1.748	ug/l #	62
81) p-Isopropyltoluene	11.793	119	2809	0.649	ug/l	94
84) n-Butylbenzene	12.211	91	7466	0.715	ug/l	92
87) 1,2,4-Trichlorobenzene	13.848	180	4075	0.254	ug/l	98
89) Naphthalene	14.092	128	12914	1.229	ug/l	98
90) 1,2,3-Trichlorobenzene	14.333	180	4466	0.697	ug/l	91

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

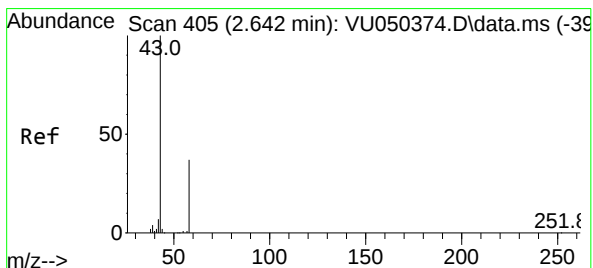
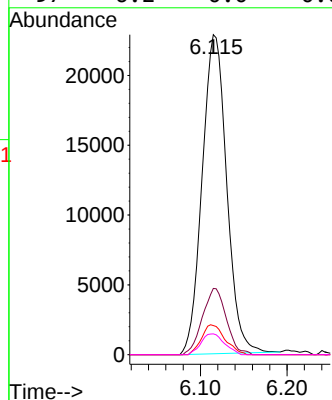
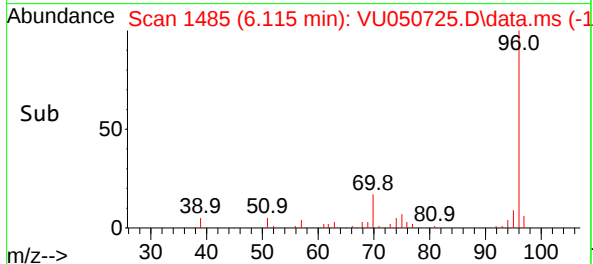


#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.115 min Scan# 14
Delta R.T. -0.000 min
Lab File: VU050725.D
Acq: 16 Sep 2022 15:02

Instrument :
MSVOA_U
ClientSampleId :

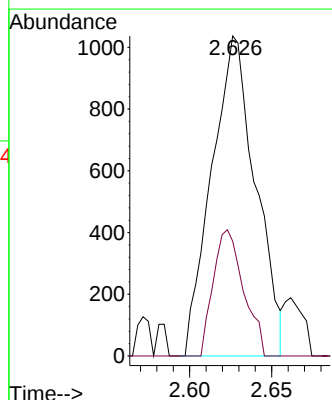
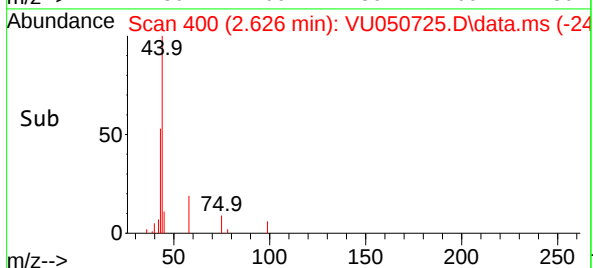
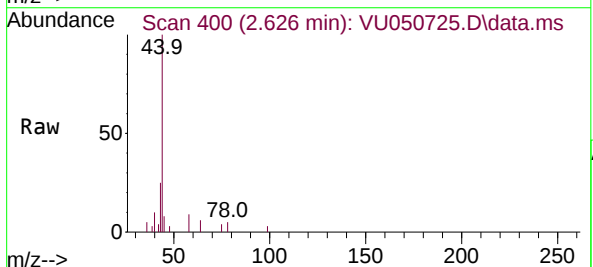


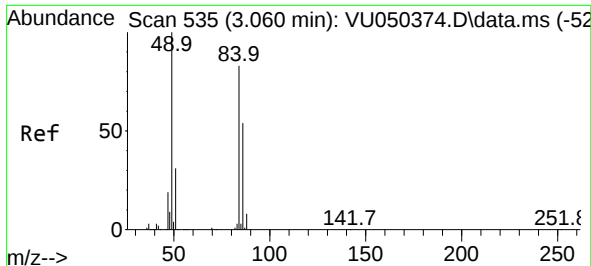
Tgt Ion: 96 Resp: 44941
Ion Ratio Lower Upper
96 100
70 20.2 16.7 25.1
95 9.0 7.4 11.0
97 6.2 0.0 0.0#



#13
Acetone
Concen: 0.695 ug/l
RT: 2.626 min Scan# 400
Delta R.T. 0.000 min
Lab File: VU050725.D
Acq: 16 Sep 2022 15:02

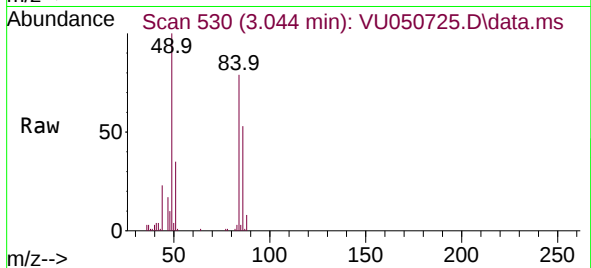
Tgt Ion: 43 Resp: 1930
Ion Ratio Lower Upper
43 100
58 35.9 26.2 39.2



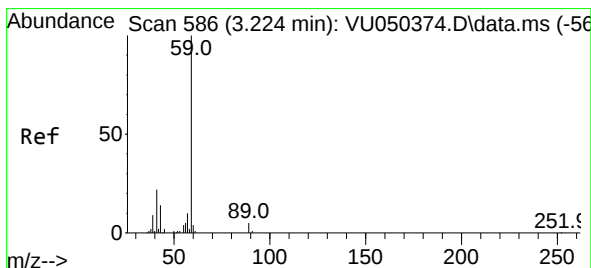
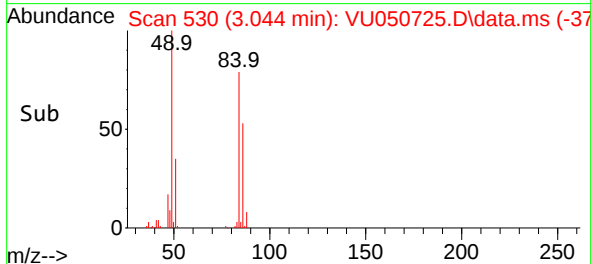
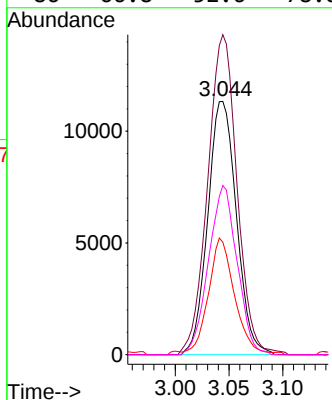


#15
Methylene Chloride
Concen: 1.174 ug/l
RT: 3.044 min Scan# 51
Delta R.T. 0.000 min
Lab File: VU050725.D
Acq: 16 Sep 2022 15:02

Instrument :
MSVOA_U
ClientSampleId :

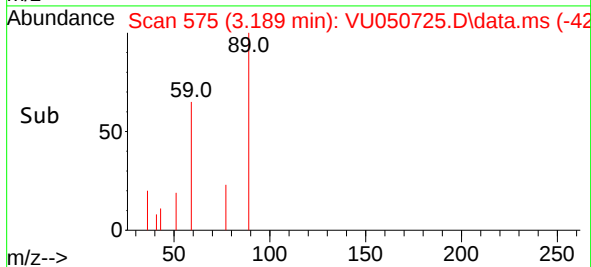
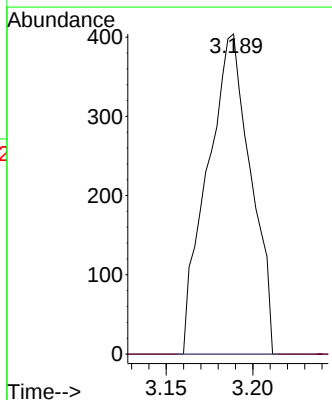
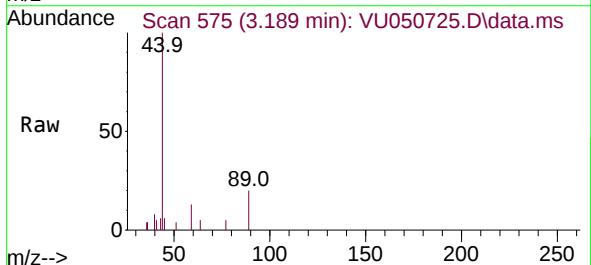


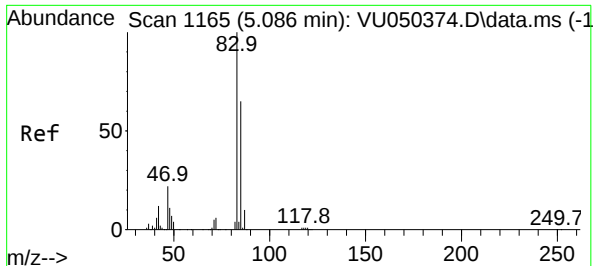
Tgt Ion: 84 Resp: 21018
Ion Ratio Lower Upper
84 100
49 126.3 104.6 157.0
51 43.5 0.0 81.4
86 66.8 52.6 78.8



#24
tert-Butyl Alcohol
Concen: 0.490 ug/l
RT: 3.189 min Scan# 575
Delta R.T. -0.006 min
Lab File: VU050725.D
Acq: 16 Sep 2022 15:02

Tgt Ion: 59 Resp: 705
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#





#27

Chloroform

Concen: 33.351 ug/l

RT: 5.089 min Scan# 1166

Delta R.T. 0.000 min

Lab File: VU050725.D

Acq: 16 Sep 2022 15:02

Instrument :

MSVOA_U

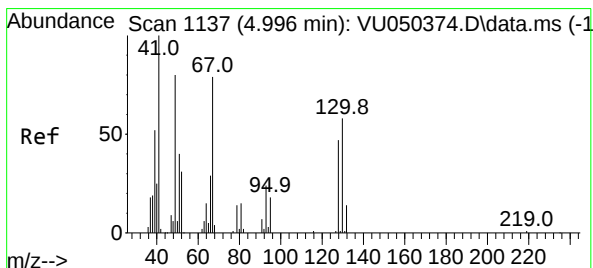
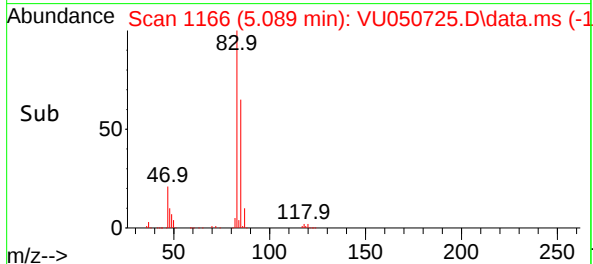
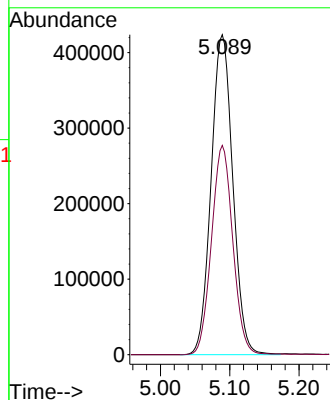
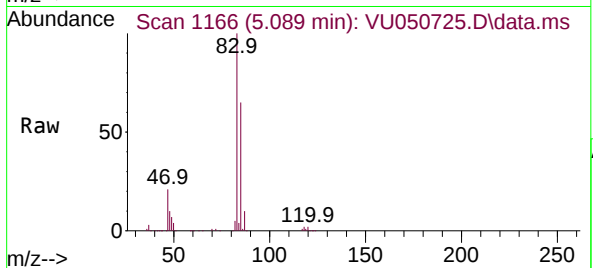
ClientSampleId :

Tgt Ion: 83 Resp: 920843

Ion Ratio Lower Upper

83 100

85 65.4 0.0 133.6



#39

Methacrylonitrile

Concen: 0.570 ug/l

RT: 5.089 min Scan# 1166

Delta R.T. 0.106 min

Lab File: VU050725.D

Acq: 16 Sep 2022 15:02

Tgt Ion: 41 Resp: 3015

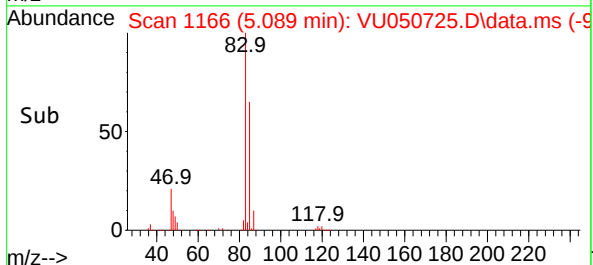
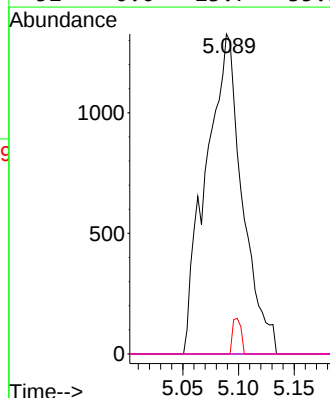
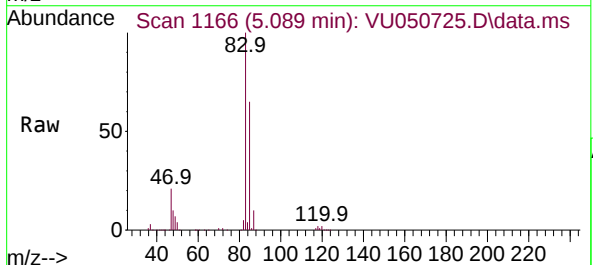
Ion Ratio Lower Upper

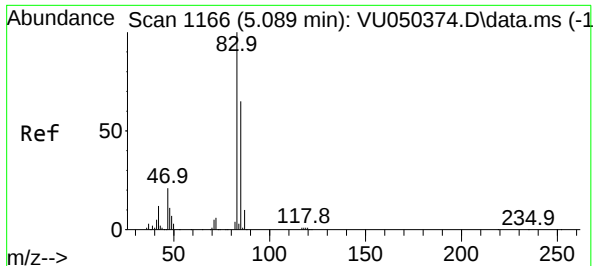
41 100

67 0.0 59.4 89.0#

39 2.6 42.2 63.2#

52 0.0 23.7 35.5#





#41

Tetrahydrofuran

Concen: 0.665 ug/l

RT: 5.089 min Scan# 1166

Delta R.T. 0.023 min

Lab File: VU050725.D

Acq: 16 Sep 2022 15:02

Instrument :

MSVOA_U

ClientSampleId :

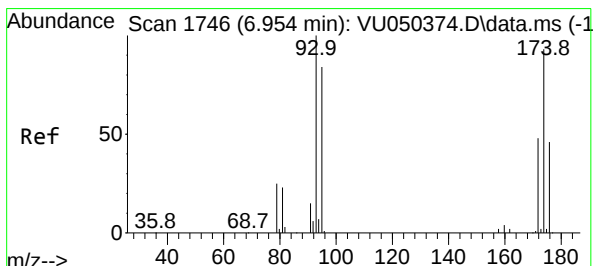
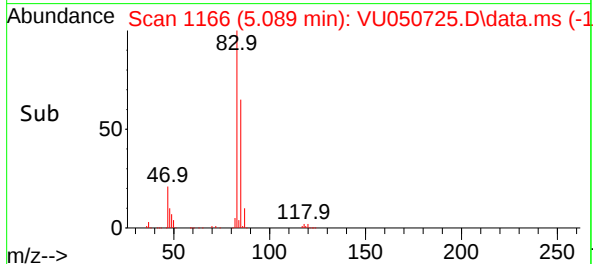
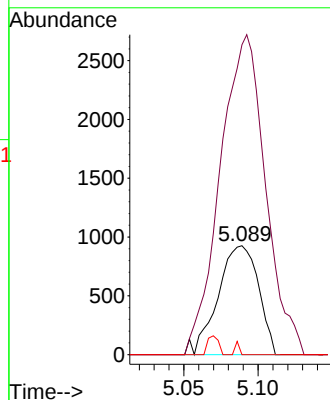
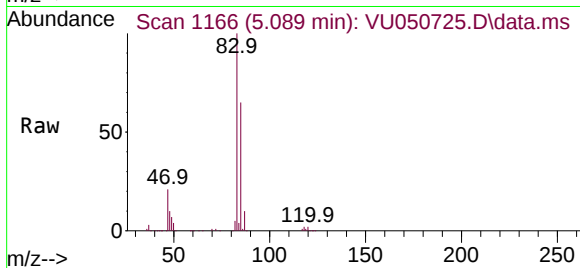
Tgt Ion: 42 Resp: 1761

Ion Ratio Lower Upper

42 100

72 327.5 38.9 58.3#

71 1.2 33.7 50.5#



#43

Dibromomethane

Concen: 0.562 ug/l

RT: 6.919 min Scan# 1735

Delta R.T. 0.000 min

Lab File: VU050725.D

Acq: 16 Sep 2022 15:02

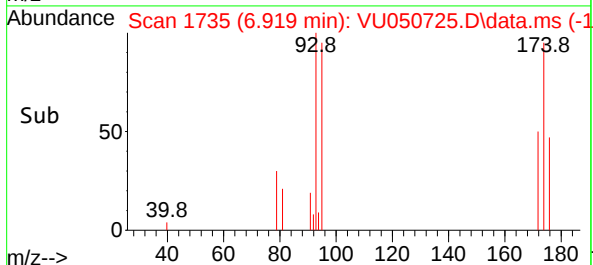
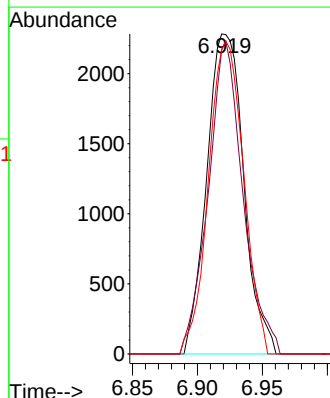
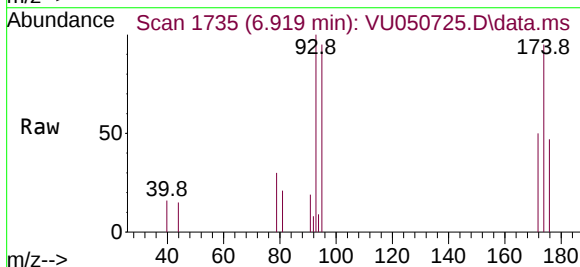
Tgt Ion: 93 Resp: 4511

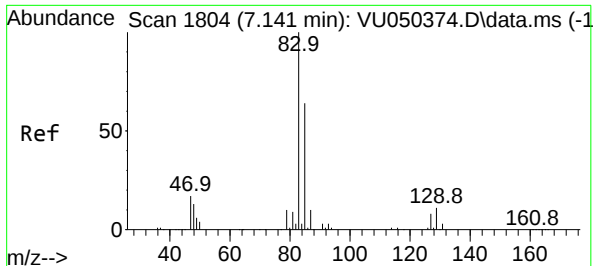
Ion Ratio Lower Upper

93 100

95 91.9 65.0 97.6

174 93.0 76.3 114.5





#44

Bromodichloromethane

Concen: 54.948 ug/l

RT: 7.105 min Scan# 1

Delta R.T. -0.003 min

Lab File: VU050725.D

Acq: 16 Sep 2022 15:02

Instrument :

MSVOA_U

ClientSampleId :

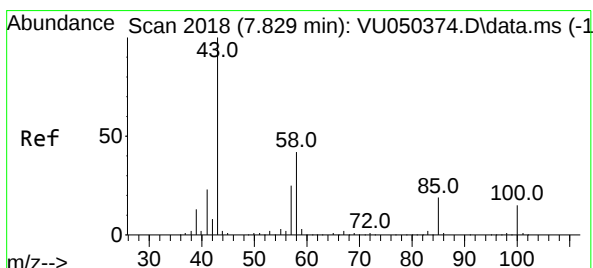
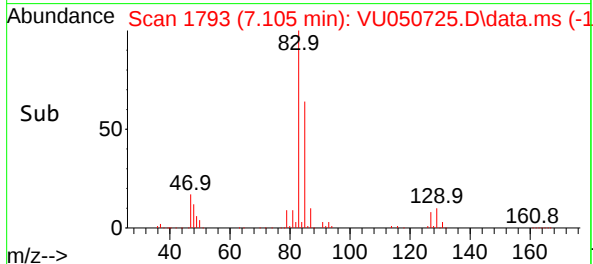
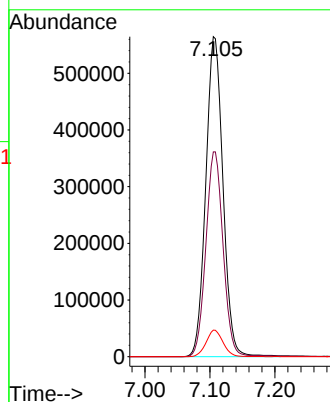
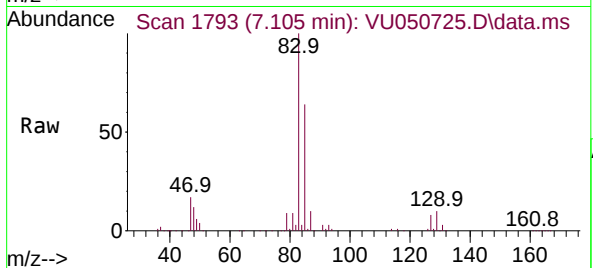
Tgt Ion: 83 Resp: 1040801

Ion Ratio Lower Upper

83 100

85 64.0 49.4 74.0

127 8.3 6.6 10.0



#45

4-Methyl-2-Pentanone

Concen: 0.287 ug/l

RT: 7.796 min Scan# 2008

Delta R.T. 0.000 min

Lab File: VU050725.D

Acq: 16 Sep 2022 15:02

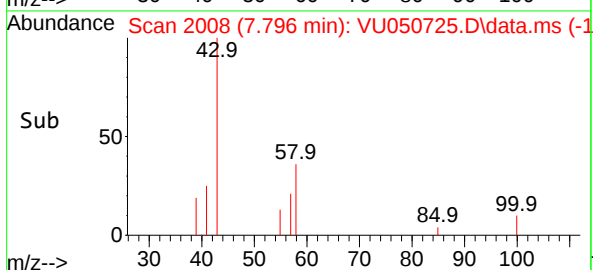
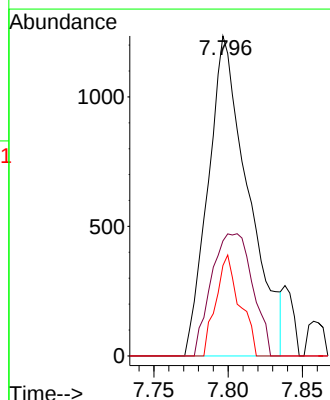
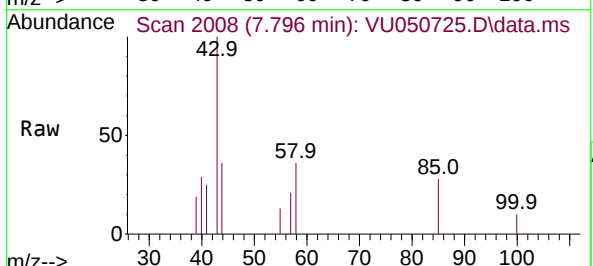
Tgt Ion: 43 Resp: 2313

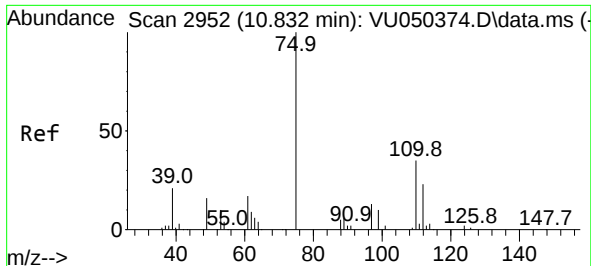
Ion Ratio Lower Upper

43 100

58 39.3 20.3 61.0

85 18.8 14.6 21.8

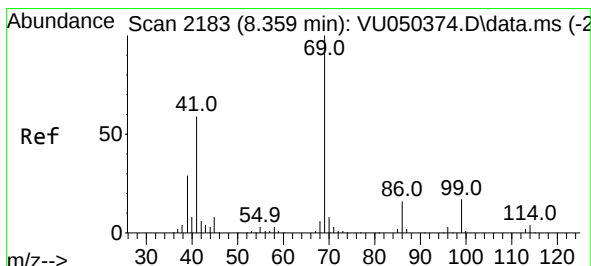
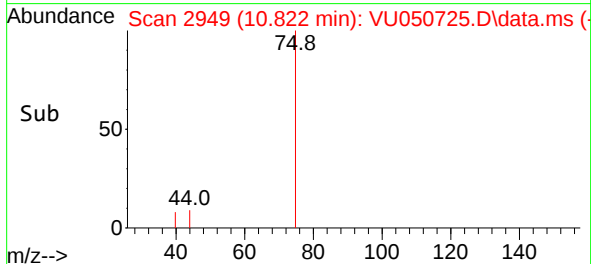
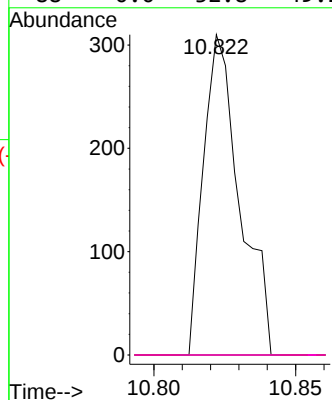
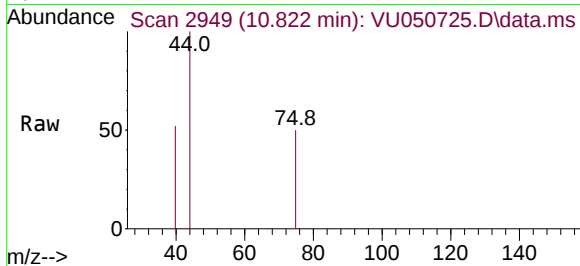




#46
t-1,4-Dichloro-2-butene
Concen: 0.580 ug/l
RT: 10.822 min Scan# 2952
Delta R.T. -0.010 min
Lab File: VU050725.D
Acq: 16 Sep 2022 15:02

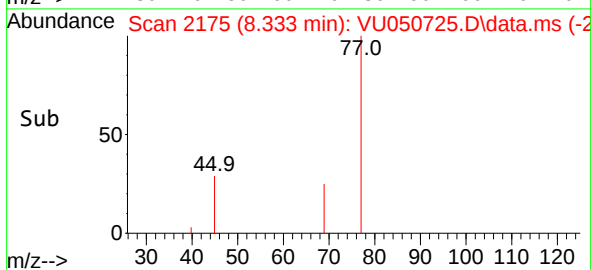
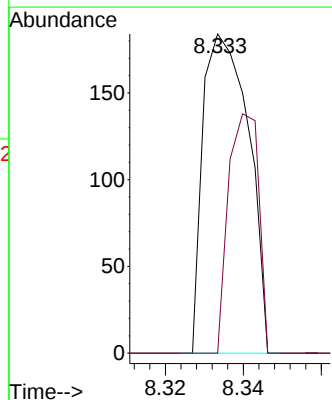
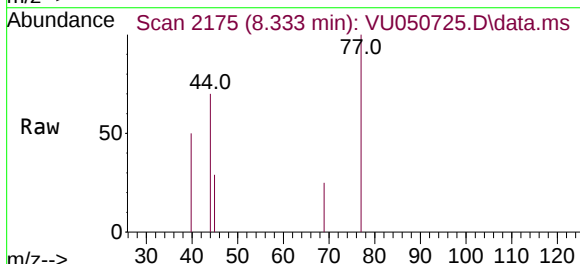
Instrument :
MSVOA_U
ClientSampleId :

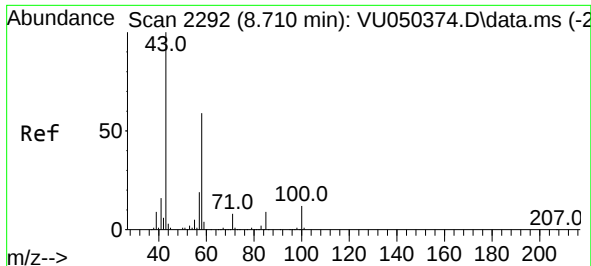
Tgt Ion: 75 Resp: 277
Ion Ratio Lower Upper
75 100
53 0.0 64.4 96.6#
89 15.9 44.2 66.2#
88 0.0 32.8 49.2#



#48
Ethyl methacrylate
Concen: 0.563 ug/l
RT: 8.333 min Scan# 2175
Delta R.T. -0.003 min
Lab File: VU050725.D
Acq: 16 Sep 2022 15:02

Tgt Ion: 69 Resp: 149
Ion Ratio Lower Upper
69 100
41 49.7 32.3 96.9

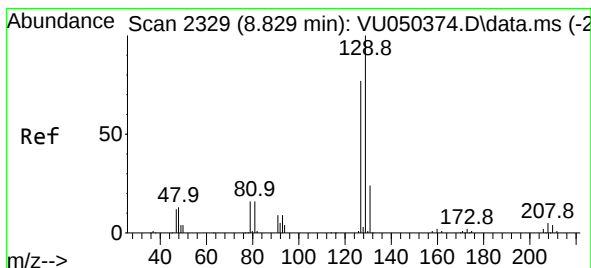
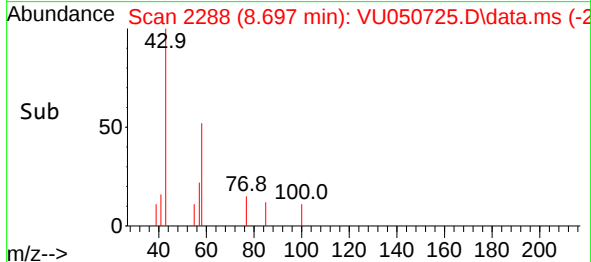
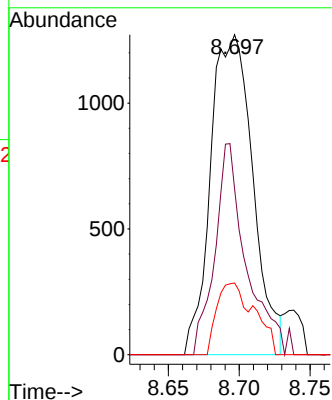
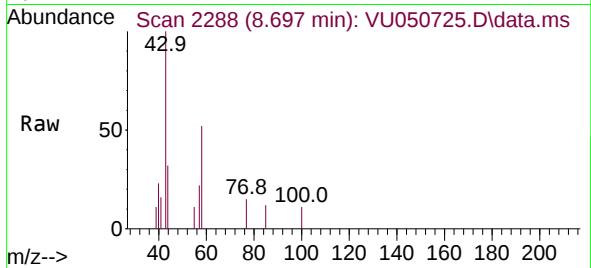




#54
2-Hexanone
Concen: 0.470 ug/l
RT: 8.697 min Scan# 21
Delta R.T. 0.006 min
Lab File: VU050725.D
Acq: 16 Sep 2022 15:02

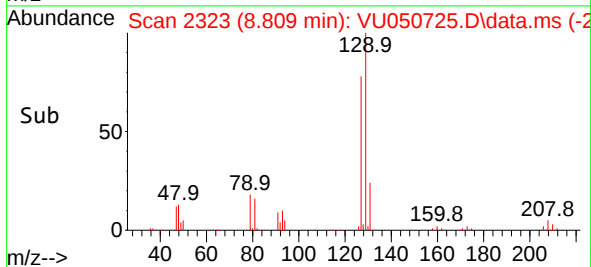
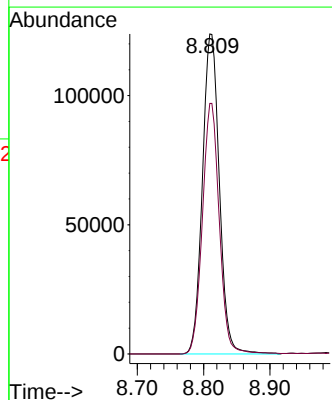
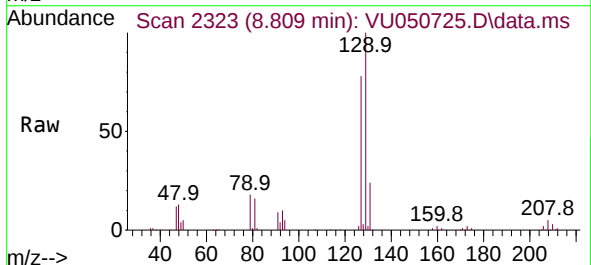
Instrument :
MSVOA_U
ClientSampleId :

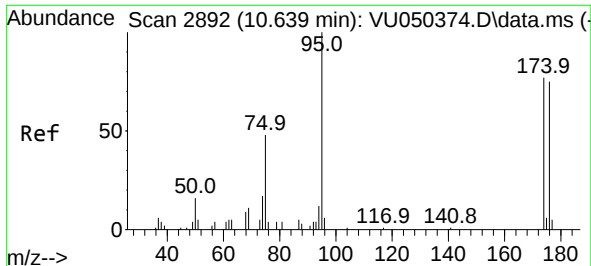
Tgt Ion: 43 Resp: 2638
Ion Ratio Lower Upper
43 100
58 49.5 37.1 77.1
57 19.8 0.0 39.5



#55
Dibromochloromethane
Concen: 16.912 ug/l
RT: 8.809 min Scan# 2323
Delta R.T. -0.003 min
Lab File: VU050725.D
Acq: 16 Sep 2022 15:02

Tgt Ion: 129 Resp: 219477
Ion Ratio Lower Upper
129 100
127 78.1 61.2 91.8





#57

4-Bromofluorobenzene

Concen: 0.813 ug/l

RT: 10.636 min Scan# 21

Delta R.T. 0.003 min

Lab File: VU050725.D

Acq: 16 Sep 2022 15:02

Instrument :

MSVOA_U

ClientSampleId :

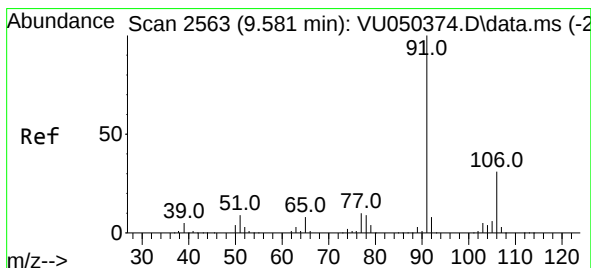
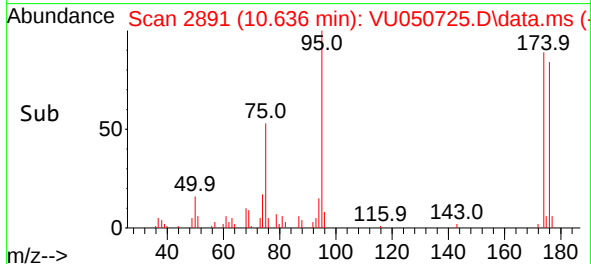
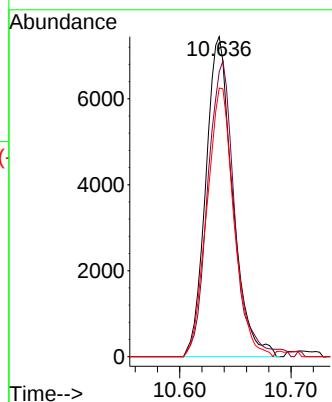
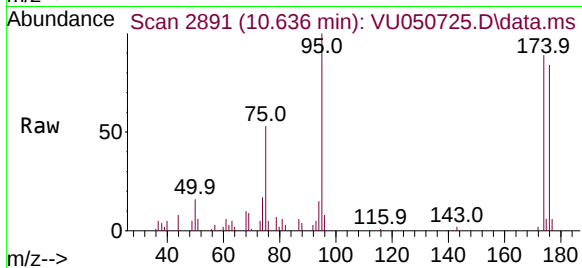
Tgt Ion: 95 Resp: 12446

Ion Ratio Lower Upper

95 100

174 92.3 62.4 93.6

176 84.6 56.2 84.2#



#63

Ethyl Benzene

Concen: 0.580 ug/l

RT: 9.574 min Scan# 2561

Delta R.T. 0.003 min

Lab File: VU050725.D

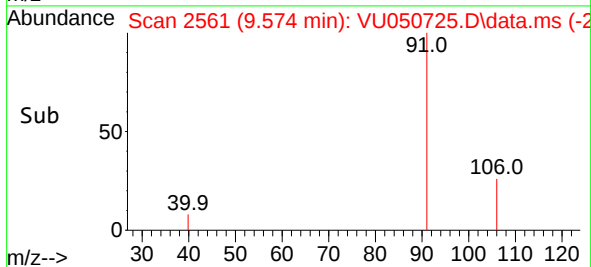
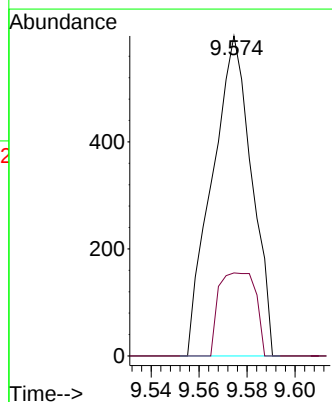
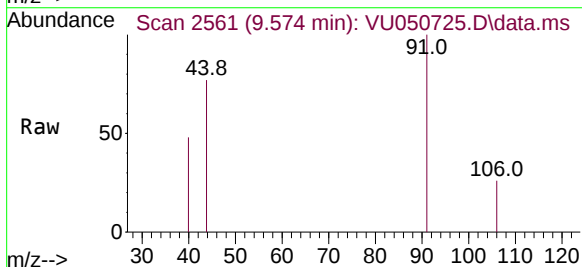
Acq: 16 Sep 2022 15:02

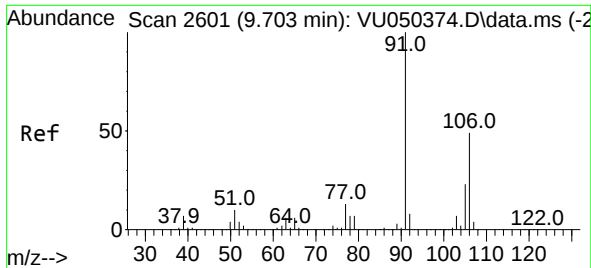
Tgt Ion: 91 Resp: 684

Ion Ratio Lower Upper

91 100

106 25.9 24.4 36.6

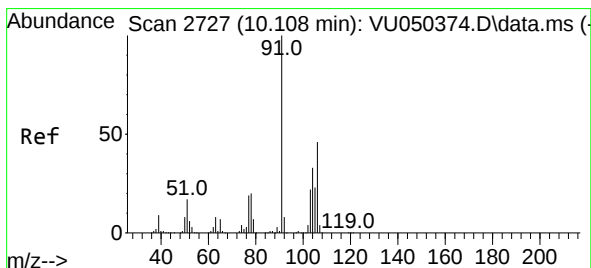
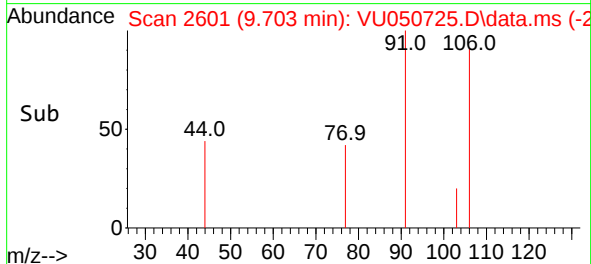
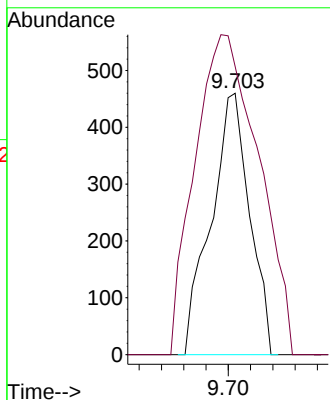
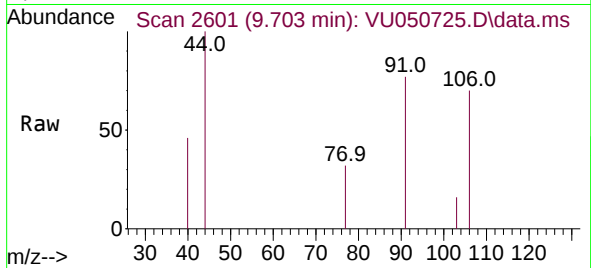




#64
m/p-Xylenes
Concen: 1.105 ug/l
RT: 9.703 min Scan# 2601
Delta R.T. 0.010 min
Lab File: VU050725.D
Acq: 16 Sep 2022 15:02

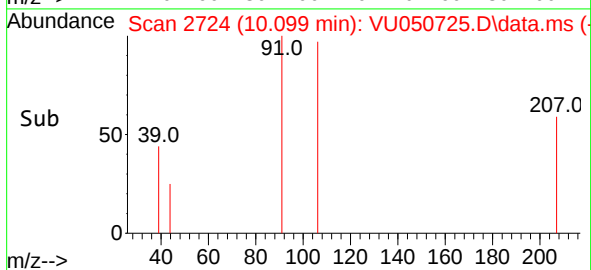
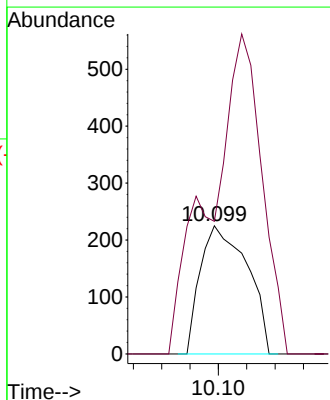
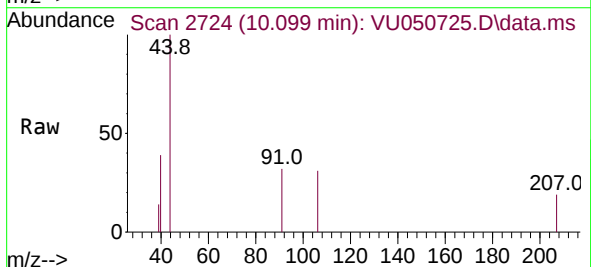
Instrument :
MSVOA_U
ClientSampleId :

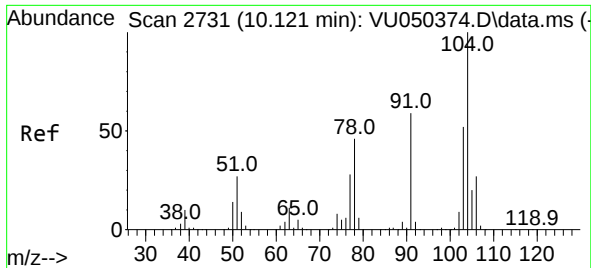
Tgt Ion:106 Resp: 555
Ion Ratio Lower Upper
106 100
91 201.6 167.8 251.6



#65
o-Xylene
Concen: 0.522 ug/l
RT: 10.099 min Scan# 2724
Delta R.T. -0.003 min
Lab File: VU050725.D
Acq: 16 Sep 2022 15:02

Tgt Ion:106 Resp: 259
Ion Ratio Lower Upper
106 100
91 19590.3 111.1 333.2#

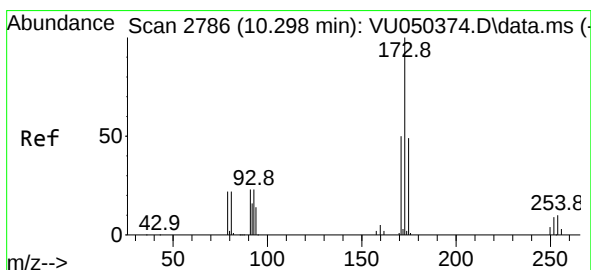
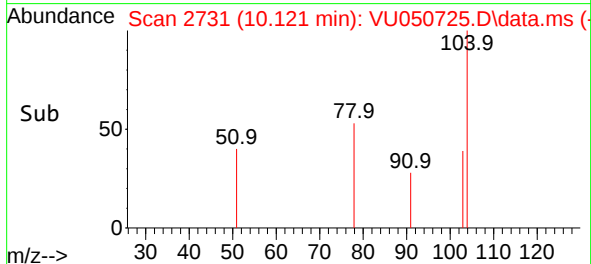
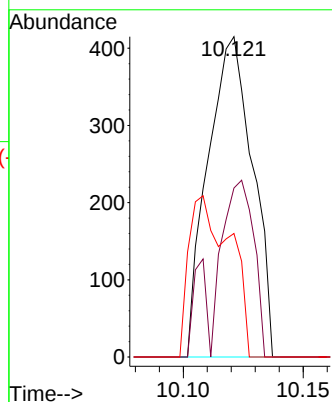
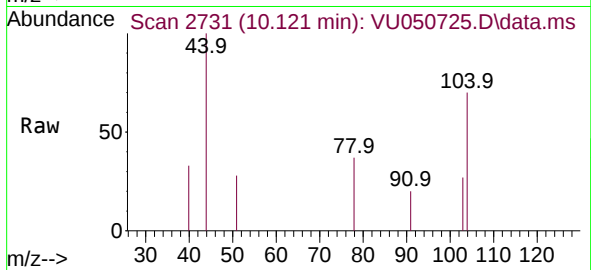




#66
Styrene
Concen: 0.612 ug/l
RT: 10.121 min Scan# 21
Delta R.T. 0.006 min
Lab File: VU050725.D
Acq: 16 Sep 2022 15:02

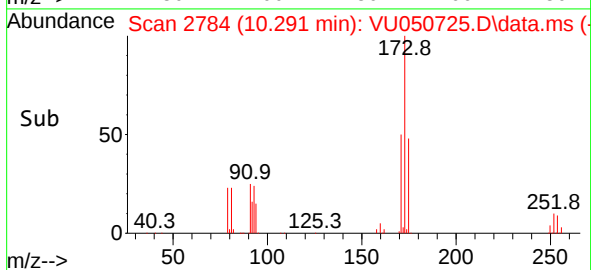
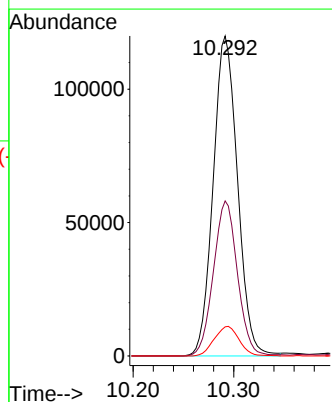
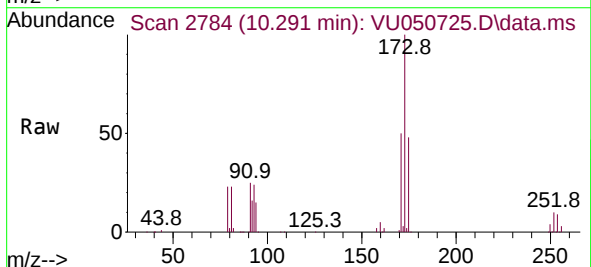
Instrument :
MSVOA_U
ClientSampleId :

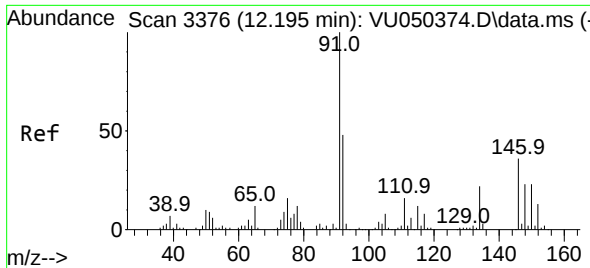
Tgt Ion:104 Resp: 538
Ion Ratio Lower Upper
104 100
78 38.8 42.1 63.1#
103 0.0 44.5 66.7#



#67
Bromoform
Concen: 27.396 ug/l
RT: 10.291 min Scan# 2784
Delta R.T. 0.000 min
Lab File: VU050725.D
Acq: 16 Sep 2022 15:02

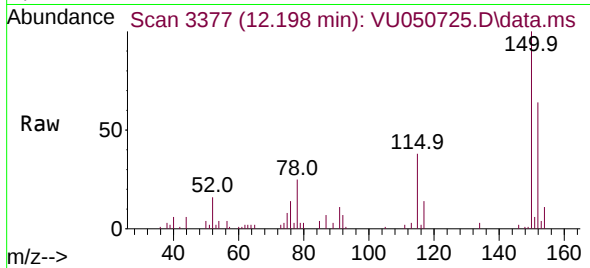
Tgt Ion:173 Resp: 201908
Ion Ratio Lower Upper
173 100
175 47.6 38.4 57.6
254 9.4 7.7 11.5



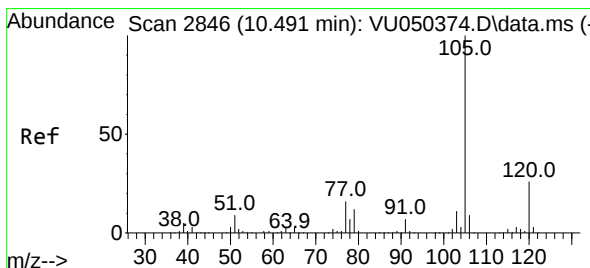
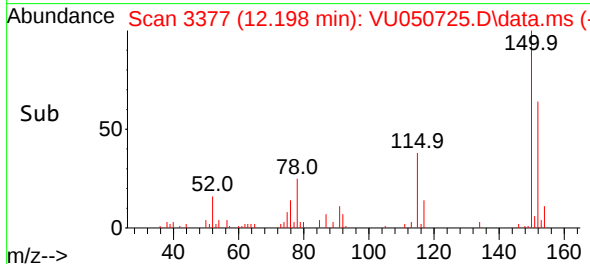
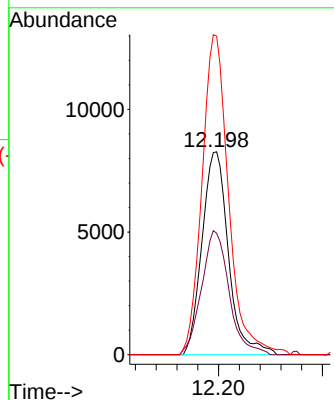


#68
 1,2-Dichlorobenzene-d4
 Concen: 0.808 ug/l
 RT: 12.198 min Scan# 31
 Delta R.T. 0.003 min
 Lab File: VU050725.D
 Acq: 16 Sep 2022 15:02

Instrument :
 MSVOA_U
 ClientSampleId :

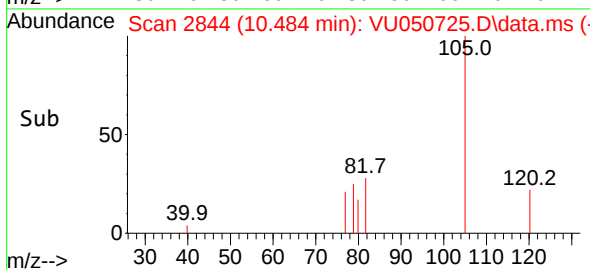
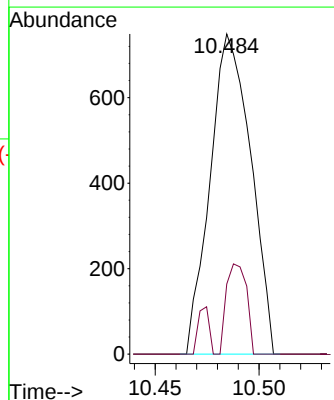
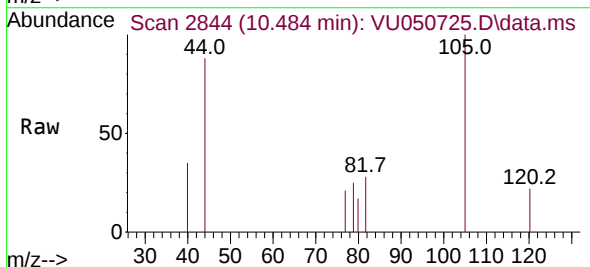


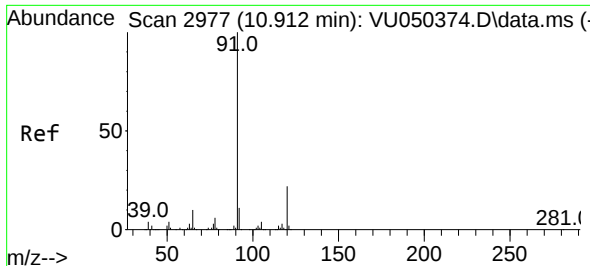
Tgt Ion:152 Resp: 14620
 Ion Ratio Lower Upper
 152 100
 115 63.5 0.0 254.6
 150 158.4 0.0 623.6



#69
 Isopropylbenzene
 Concen: 0.585 ug/l
 RT: 10.484 min Scan# 2844
 Delta R.T. 0.000 min
 Lab File: VU050725.D
 Acq: 16 Sep 2022 15:02

Tgt Ion:105 Resp: 1018
 Ion Ratio Lower Upper
 105 100
 120 13.9 12.6 37.8

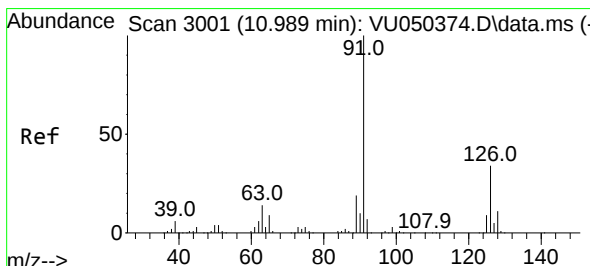
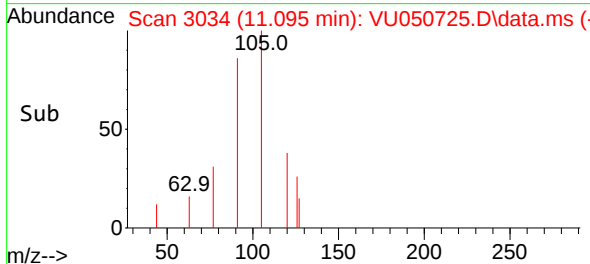
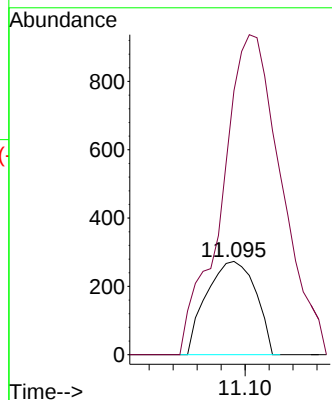
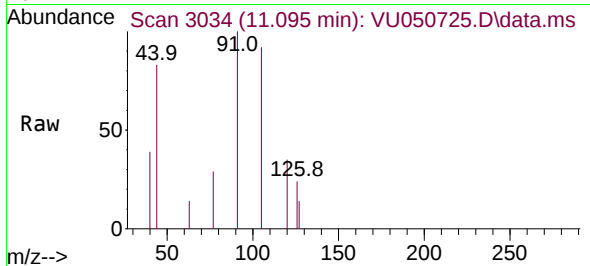




#73
n-propylbenzene
Concen: 0.613 ug/l
RT: 11.095 min Scan# 3034
Delta R.T. 0.190 min
Lab File: VU050725.D
Acq: 16 Sep 2022 15:02

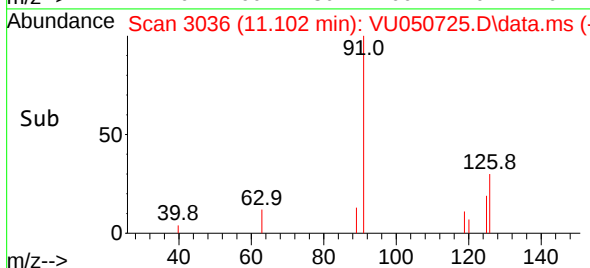
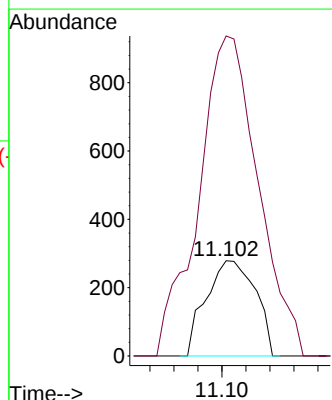
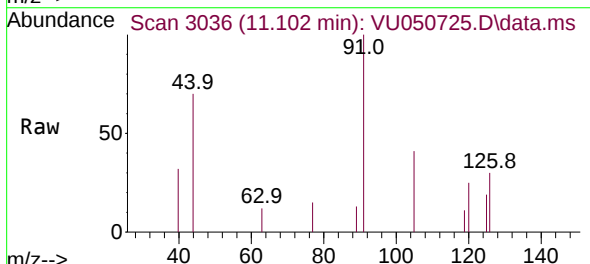
Instrument :
MSVOA_U
ClientSampleId :

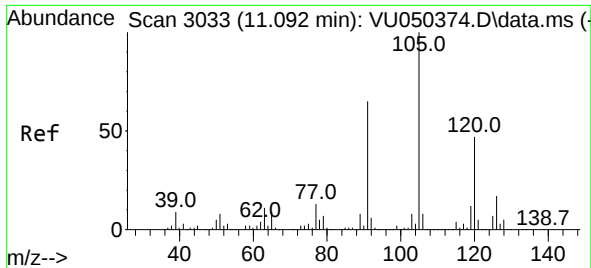
Tgt Ion:120 Resp: 390
Ion Ratio Lower Upper
120 100
91 414.9 367.8 551.6



#74
2-Chlorotoluene
Concen: 0.414 ug/l
RT: 11.102 min Scan# 3036
Delta R.T. 0.116 min
Lab File: VU050725.D
Acq: 16 Sep 2022 15:02

Tgt Ion:126 Resp: 398
Ion Ratio Lower Upper
126 100
91 406.5 0.0 620.6

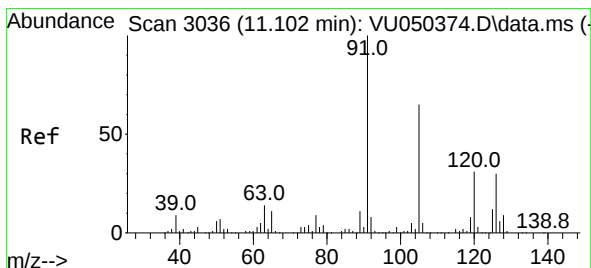
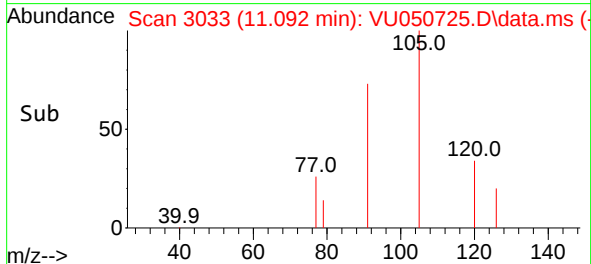
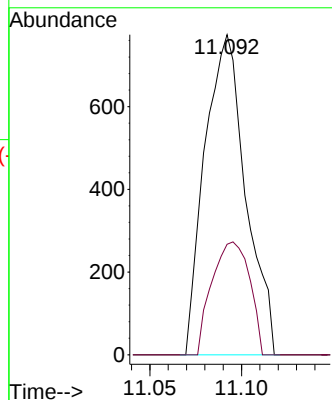
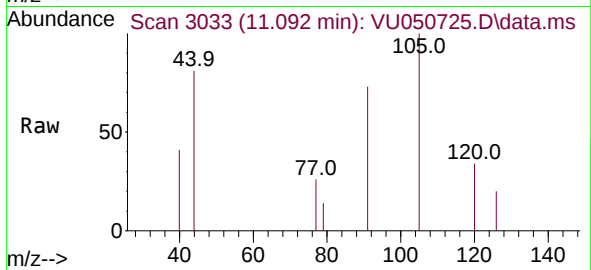




#75
1,3,5-Trimethylbenzene
Concen: 0.544 ug/l
RT: 11.092 min Scan# 3033
Delta R.T. 0.003 min
Lab File: VU050725.D
Acq: 16 Sep 2022 15:02

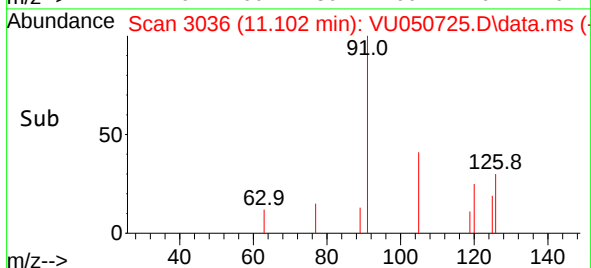
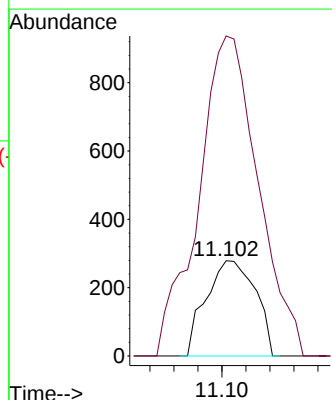
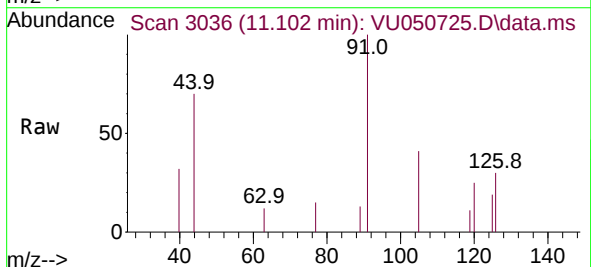
Instrument :
MSVOA_U
ClientSampleId :

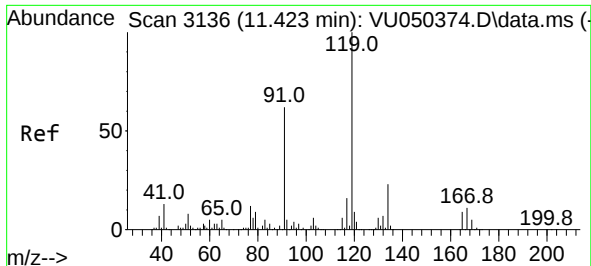
Tgt Ion:105 Resp: 1200
Ion Ratio Lower Upper
105 100
120 32.5 37.6 56.4#



#76
4-Chlorotoluene
Concen: 0.424 ug/l
RT: 11.102 min Scan# 3036
Delta R.T. 0.003 min
Lab File: VU050725.D
Acq: 16 Sep 2022 15:02

Tgt Ion:126 Resp: 398
Ion Ratio Lower Upper
126 100
91 406.5 0.0 738.8





#77

tert-Butylbenzene

Concen: 0.522 ug/l

RT: 11.420 min Scan# 3135

Delta R.T. 0.000 min

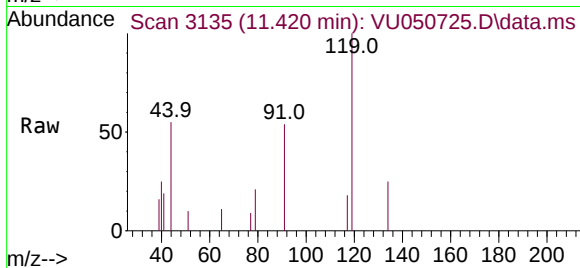
Lab File: VU050725.D

Acq: 16 Sep 2022 15:02

Instrument :

MSVOA_U

ClientSampleId :



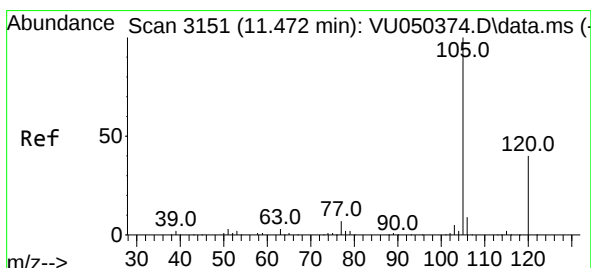
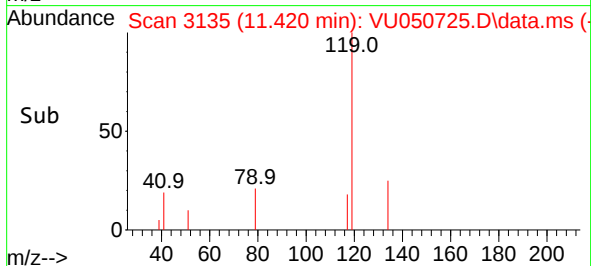
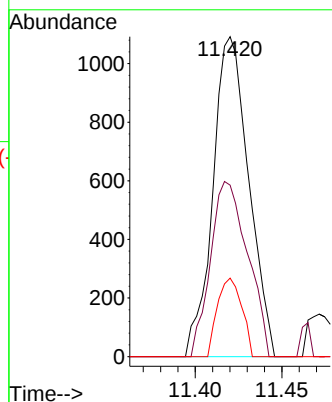
Tgt Ion:119 Resp: 1571

Ion Ratio Lower Upper

119 100

91 56.7 30.4 91.3

134 16.6 17.8 26.6#



#78

1,2,4-Trimethylbenzene

Concen: 0.589 ug/l

RT: 11.472 min Scan# 3151

Delta R.T. 0.003 min

Lab File: VU050725.D

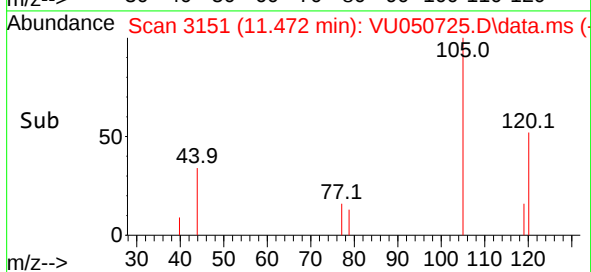
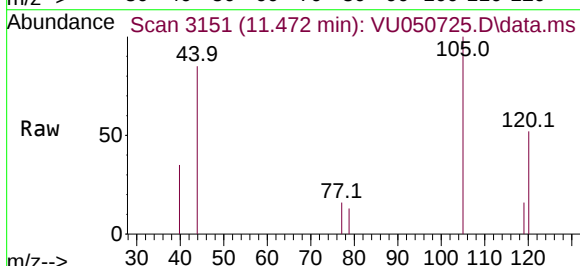
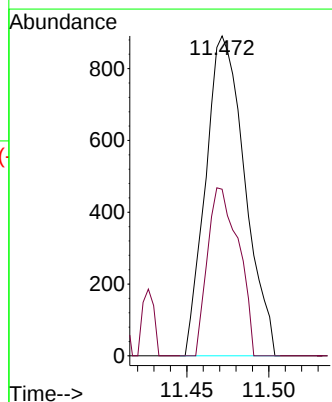
Acq: 16 Sep 2022 15:02

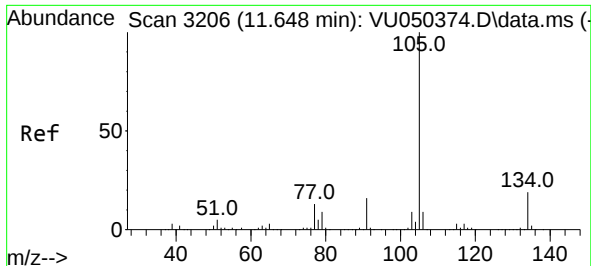
Tgt Ion:105 Resp: 1477

Ion Ratio Lower Upper

105 100

120 41.6 21.6 65.0

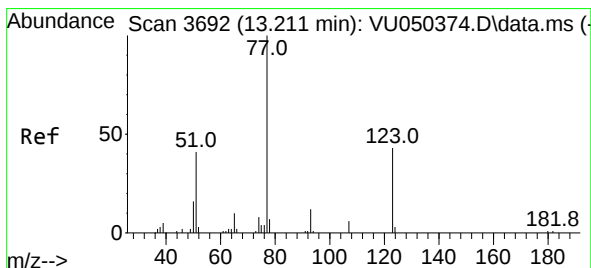
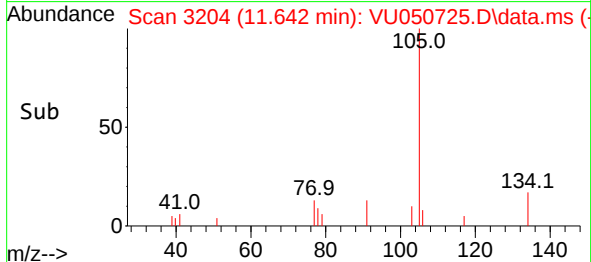
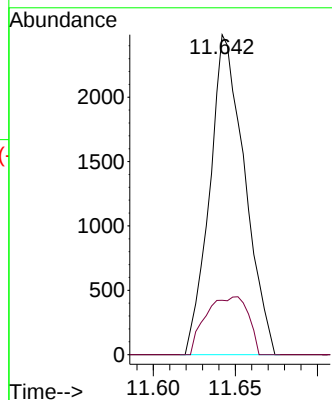
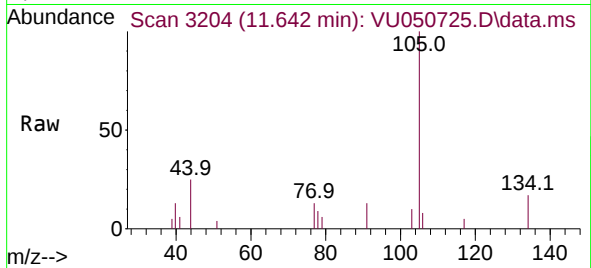




#79
 sec-Butylbenzene
 Concen: 0.596 ug/l
 RT: 11.642 min Scan# 31
 Delta R.T. -0.003 min
 Lab File: VU050725.D
 Acq: 16 Sep 2022 15:02

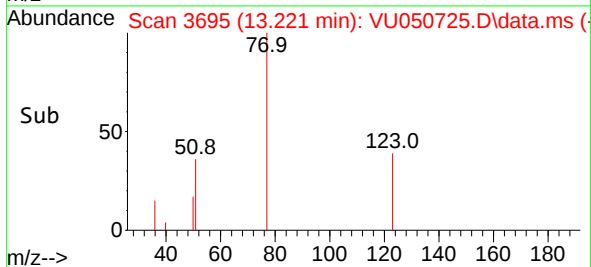
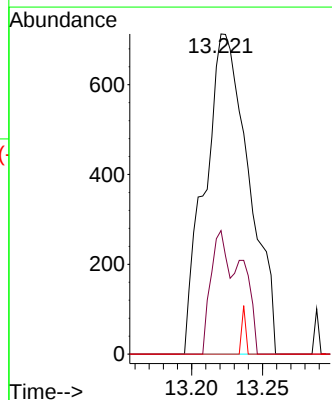
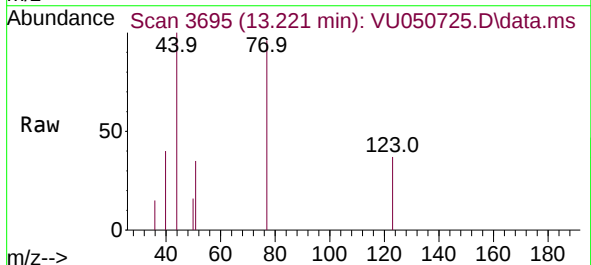
Instrument :
 MSVOA_U
 ClientSampleId :

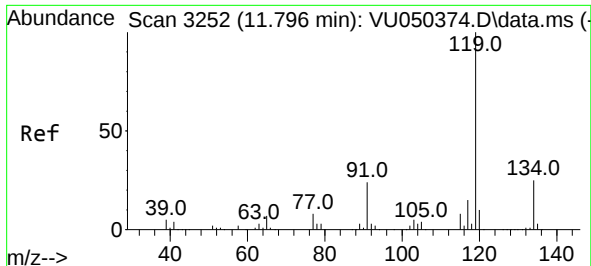
Tgt Ion:105 Resp: 3672
 Ion Ratio Lower Upper
 105 100
 134 21.9 15.4 23.0



#80
 Nitrobenzene
 Concen: 1.748 ug/l
 RT: 13.221 min Scan# 3695
 Delta R.T. 0.013 min
 Lab File: VU050725.D
 Acq: 16 Sep 2022 15:02

Tgt Ion: 77 Resp: 1540
 Ion Ratio Lower Upper
 77 100
 123 15.3 18.1 64.3#
 65 1.4 10.8 13.8#

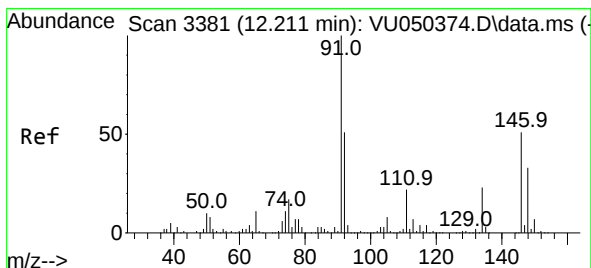
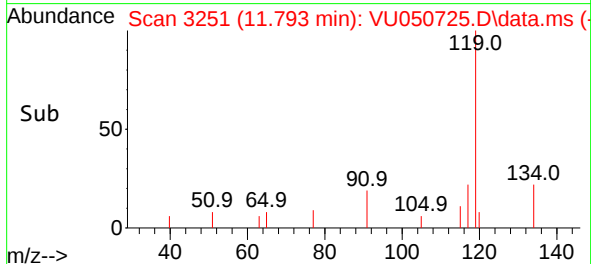
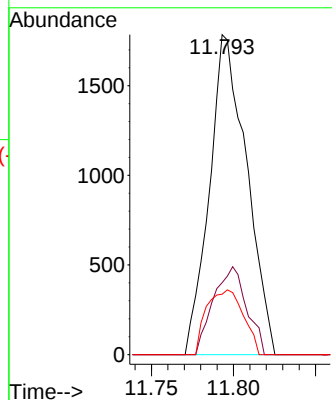
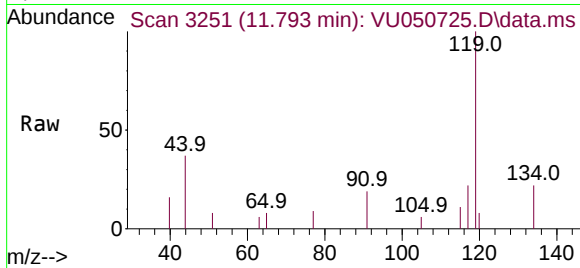




#81
p-Isopropyltoluene
Concen: 0.649 ug/l
RT: 11.793 min Scan# 31
Delta R.T. 0.000 min
Lab File: VU050725.D
Acq: 16 Sep 2022 15:02

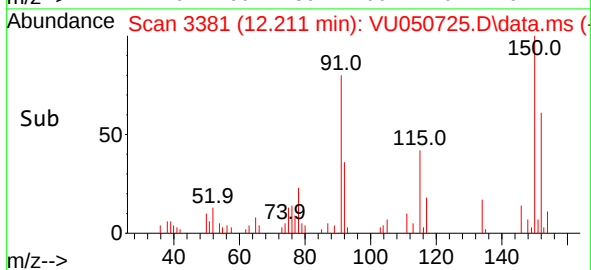
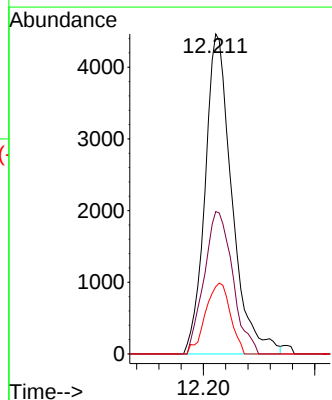
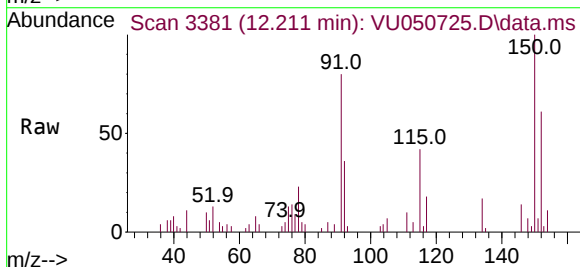
Instrument :
MSVOA_U
ClientSampleId :

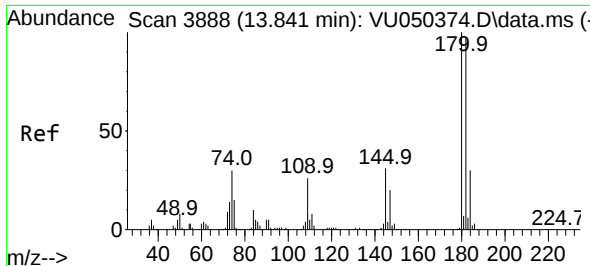
Tgt Ion	Ratio	Lower	Upper
119	100		
134	24.6	20.5	30.7
91	20.0	19.8	29.6



#84
n-Butylbenzene
Concen: 0.715 ug/l
RT: 12.211 min Scan# 3381
Delta R.T. 0.000 min
Lab File: VU050725.D
Acq: 16 Sep 2022 15:02

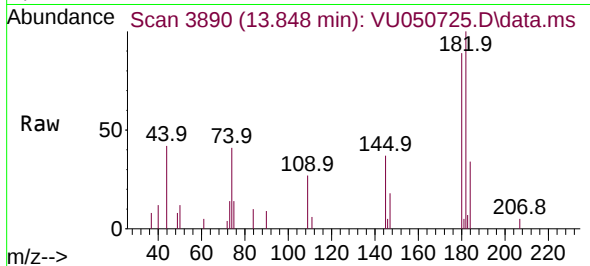
Tgt Ion	Ratio	Lower	Upper
91	100		
92	47.1	42.3	63.5
134	20.4	19.6	29.4



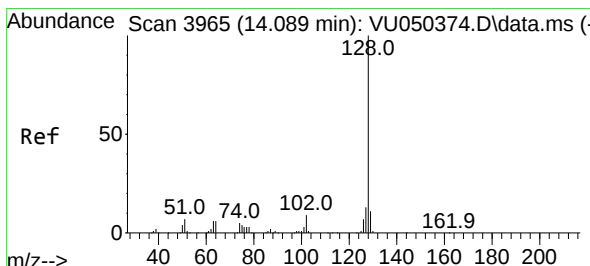
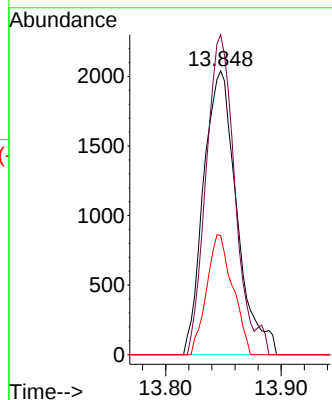
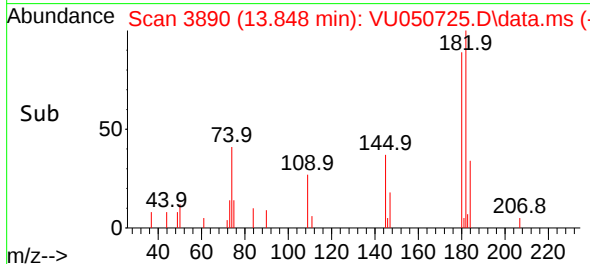


#87
1,2,4-Trichlorobenzene
Concen: 0.254 ug/l
RT: 13.848 min Scan# 3888
Delta R.T. 0.006 min
Lab File: VU050725.D
Acq: 16 Sep 2022 15:02

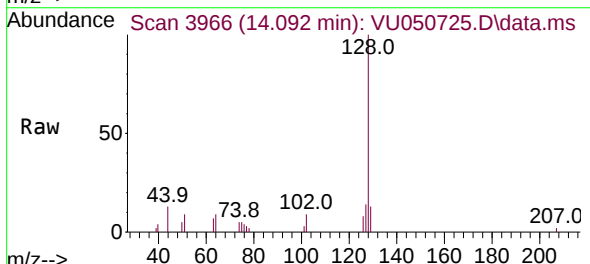
Instrument :
MSVOA_U
ClientSampleId :



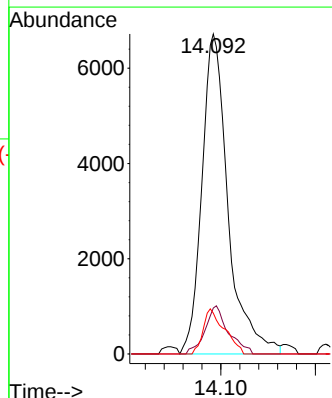
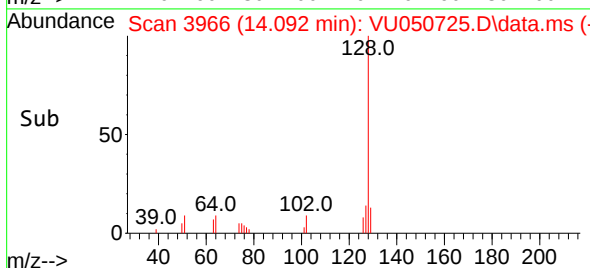
Tgt Ion:180 Resp: 4075
Ion Ratio Lower Upper
180 100
182 98.1 77.0 115.6
145 33.1 25.7 38.5

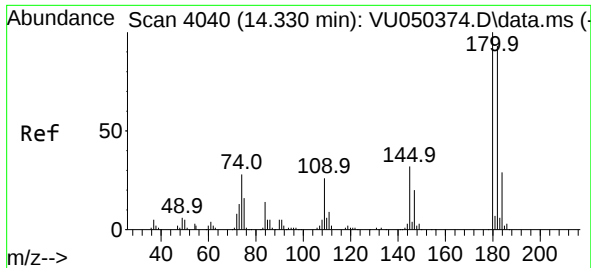


#89
Naphthalene
Concen: 1.229 ug/l
RT: 14.092 min Scan# 3966
Delta R.T. 0.003 min
Lab File: VU050725.D
Acq: 16 Sep 2022 15:02



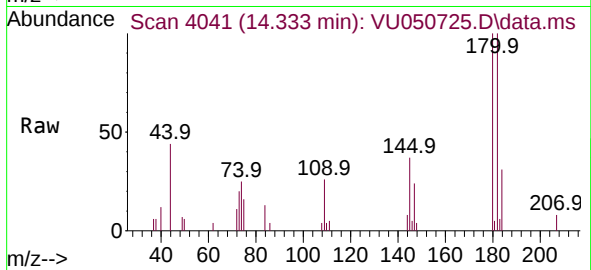
Tgt Ion:128 Resp: 12914
Ion Ratio Lower Upper
128 100
127 13.3 10.1 15.1
129 11.4 8.6 12.8





#90
 1,2,3-Trichlorobenzene
 Concen: 0.697 ug/l
 RT: 14.333 min Scan# 4041
 Delta R.T. 0.003 min
 Lab File: VU050725.D
 Acq: 16 Sep 2022 15:02

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion:	180	Resp:	4466
Ion	Ratio	Lower	Upper
180	100		
182	105.3	76.6	114.8
145	37.2	27.3	40.9

