

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU080724\
 Data File : VU060337.D
 Acq On : 07 Aug 2024 15:13
 Operator : MD/SY
 Sample : P3204-10
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Aug 08 05:58:29 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U080524DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Tue Aug 06 11:07:28 2024
 Response via : Initial Calibration

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

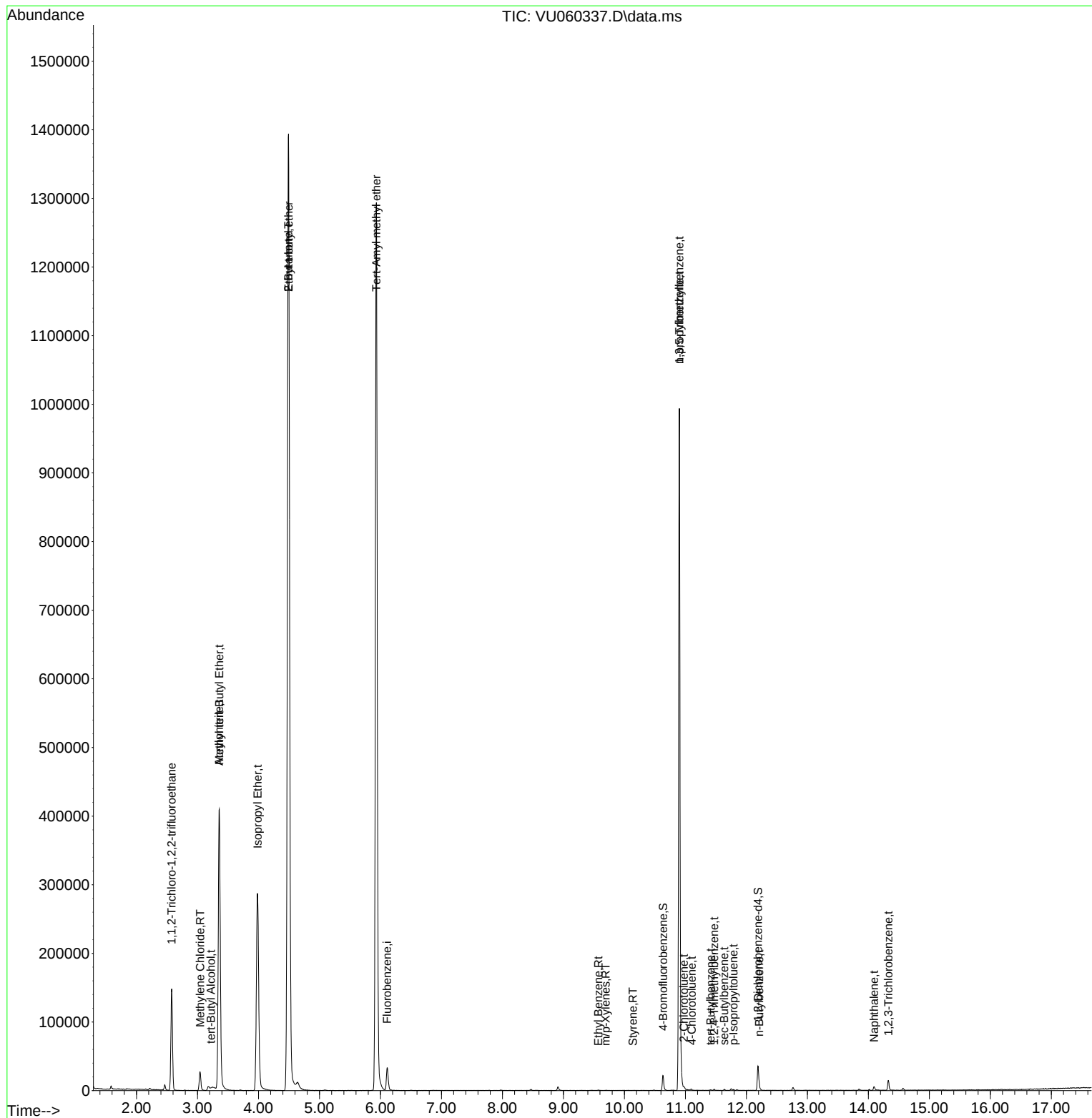
Internal Standards						
1) Fluorobenzene	6.110	96	32563	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.634	95	8650	0.780	ug/l	0.00
Spiked Amount 1.000			Recovery	=	78.000%	
68) 1,2-Dichlorobenzene-d4	12.190	152	11044	0.916	ug/l	0.00
Spiked Amount 1.000			Recovery	=	92.000%	
Target Compounds						
					Qvalue	
8) 1,1,2-Trichloro-1,2,2-...	2.576	101	60522	6.440	ug/l	95
12) Acrylonitrile	3.354	53	5683	2.234	ug/l #	27
15) Methylene Chloride	3.042	84	14765	1.212	ug/l	94
18) 2-Butanone	4.489	43	123865	34.705	ug/l #	1
24) tert-Butyl Alcohol	3.219	59	379	0.384	ug/l #	83
25) Methyl tert-Butyl Ether	3.357	73	480994	20.126	ug/l	97
31) Isopropyl Ether	3.984	45	300196	10.240	ug/l	98
32) Ethyl-t-butyl ether	4.492	59	1498798	52.895	ug/l	97
33) Tert-Amyl methyl ether	5.933	73	1125215	55.943	ug/l	98
63) Ethyl Benzene	9.573	91	897	0.517	ug/l	95
64) m/p-Xylenes	9.692	106	20	0.899	ug/l	85
66) Styrene	10.139	104	181	0.476	ug/l #	25
73) n-propylbenzene	10.901	120	172358	13.023	ug/l	99
74) 2-Chlorotoluene	10.975	126	429	0.351	ug/l #	1
75) 1,3,5-Trimethylbenzene	10.901	105	27551	1.104	ug/l #	1
76) 4-Chlorotoluene	11.103	126	324	0.363	ug/l #	1
77) tert-Butylbenzene	11.415	119	764	0.464	ug/l #	31
78) 1,2,4-Trimethylbenzene	11.473	105	1245	0.525	ug/l	91
79) sec-Butylbenzene	11.637	105	1273	0.475	ug/l	96
81) p-Isopropyltoluene	11.788	119	933	0.540	ug/l #	81
84) n-Butylbenzene	12.209	91	2515	0.567	ug/l #	83
89) Naphthalene	14.093	128	6266	0.309	ug/l	95
90) 1,2,3-Trichlorobenzene	14.328	180	5870	0.525	ug/l	98

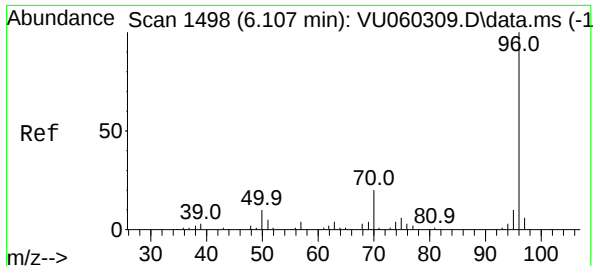
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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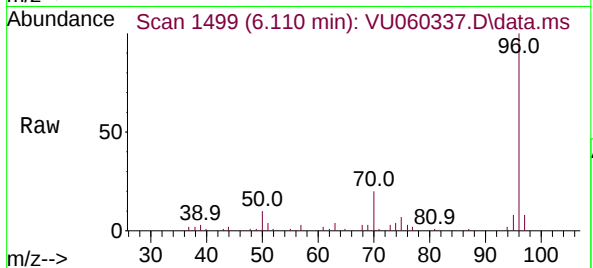
Quant Time: Aug 08 05:58:29 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U080524DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Tue Aug 06 11:07:28 2024
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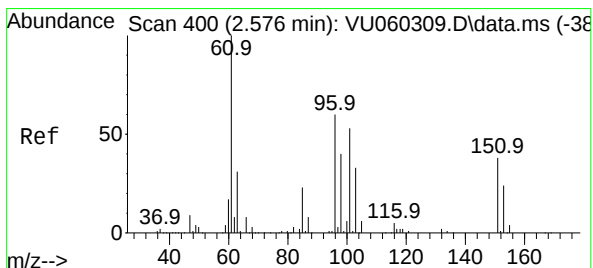
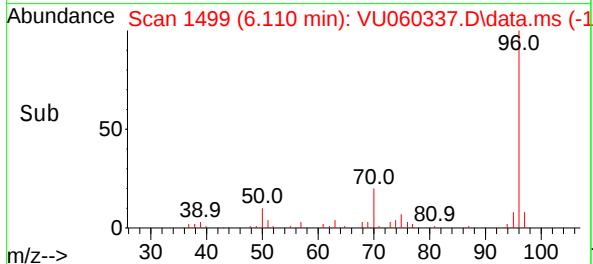
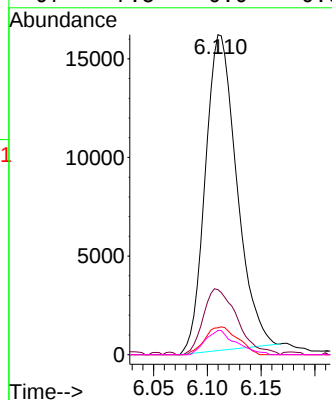


#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.110 min Scan# 1498
Delta R.T. 0.003 min
Lab File: VU060337.D
Acq: 07 Aug 2024 15:13

Instrument :
MSVOA_U
ClientSampleId :

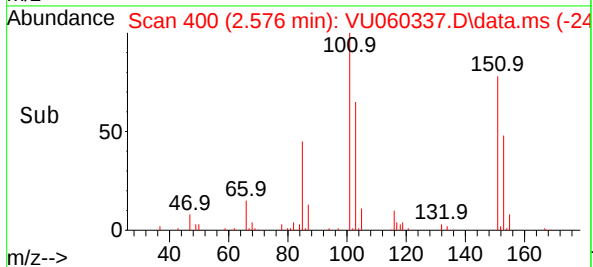
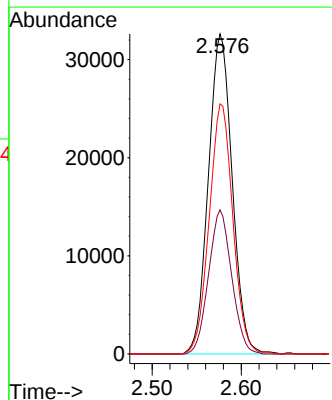
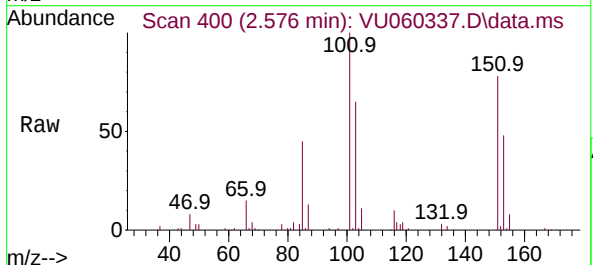


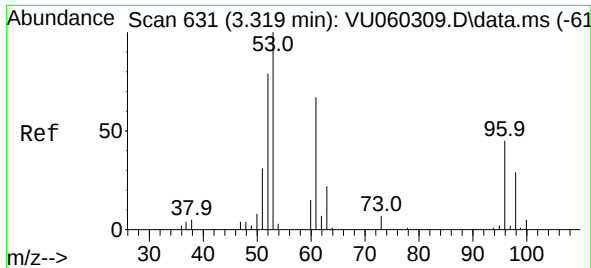
Tgt Ion: 96 Resp: 32563
Ion Ratio Lower Upper
96 100
70 22.5 17.2 25.8
95 9.2 7.9 11.9
97 7.5 0.0 0.0#



#8
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 6.440 ug/l
RT: 2.576 min Scan# 400
Delta R.T. -0.000 min
Lab File: VU060337.D
Acq: 07 Aug 2024 15:13

Tgt Ion:101 Resp: 60522
Ion Ratio Lower Upper
101 100
85 43.6 34.9 52.3
151 77.7 57.2 85.8





#12

Acrylonitrile

Concen: 2.234 ug/l

RT: 3.354 min Scan# 642

Delta R.T. 0.035 min

Lab File: VU060337.D

Acq: 07 Aug 2024 15:13

Instrument :

MSVOA_U

ClientSampleId :

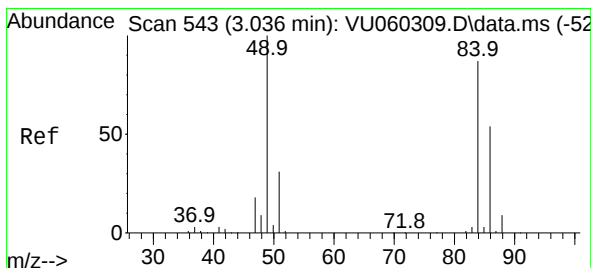
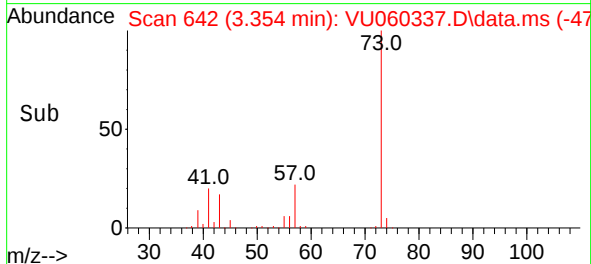
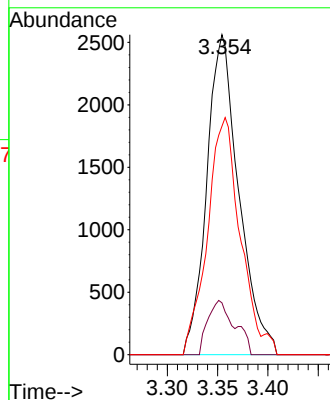
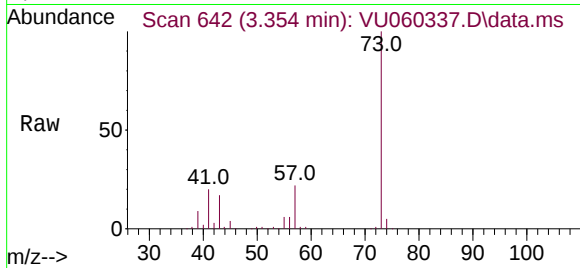
Tgt Ion: 53 Resp: 5683

Ion Ratio Lower Upper

53 100

52 14.1 63.7 95.5#

51 76.0 28.2 42.4#



#15

Methylene Chloride

Concen: 1.212 ug/l

RT: 3.042 min Scan# 545

Delta R.T. 0.006 min

Lab File: VU060337.D

Acq: 07 Aug 2024 15:13

Tgt Ion: 84 Resp: 14765

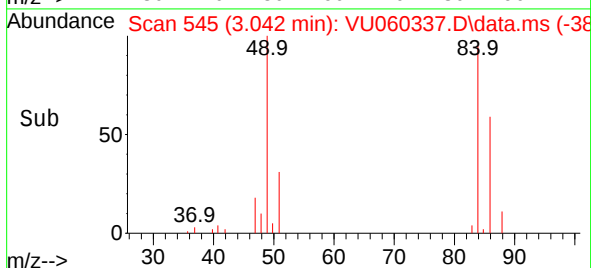
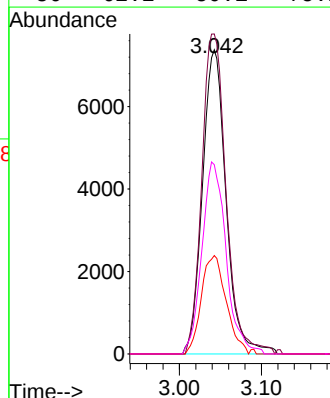
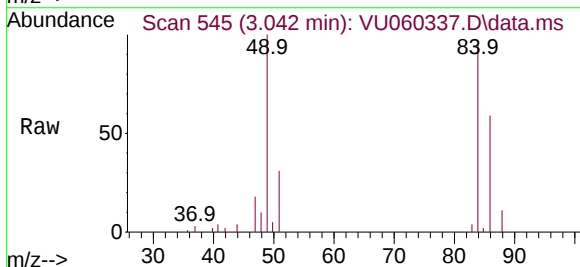
Ion Ratio Lower Upper

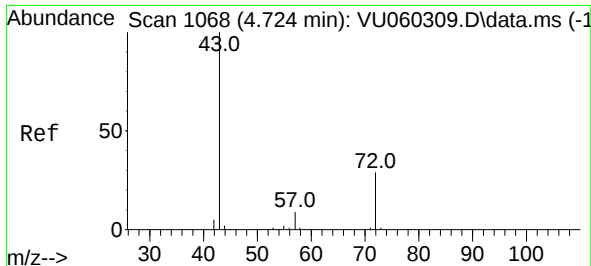
84 100

49 105.2 92.1 138.1

51 32.4 0.0 72.4

86 62.2 50.1 75.1

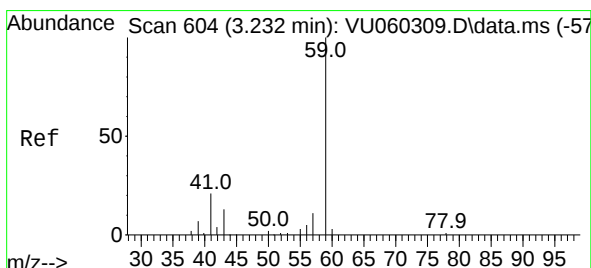
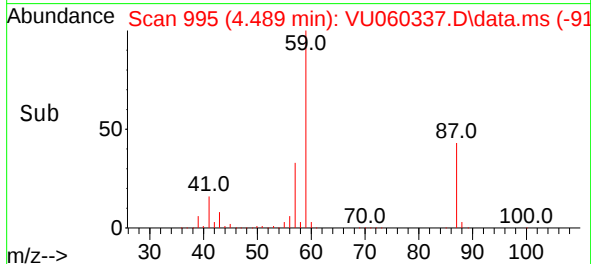
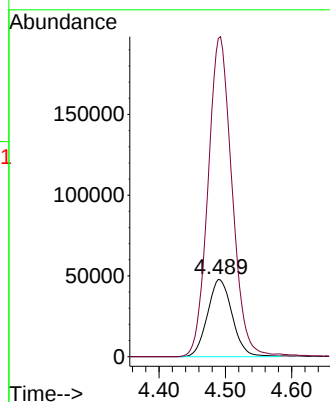
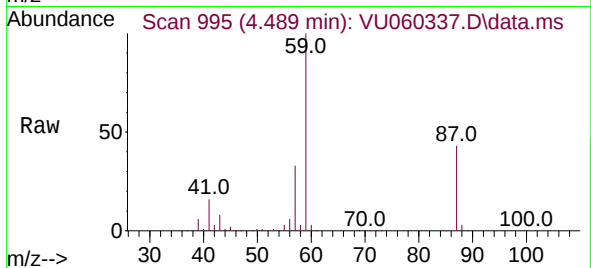




#18
2-Butanone
Concen: 34.705 ug/l
RT: 4.489 min Scan# 91
Delta R.T. -0.235 min
Lab File: VU060337.D
Acq: 07 Aug 2024 15:13

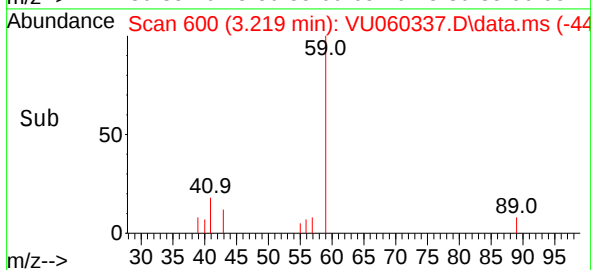
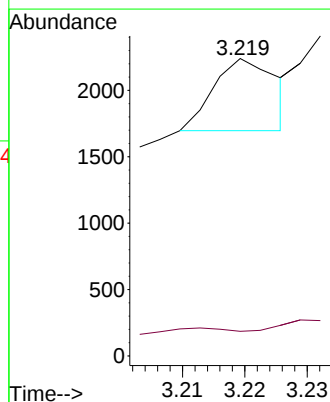
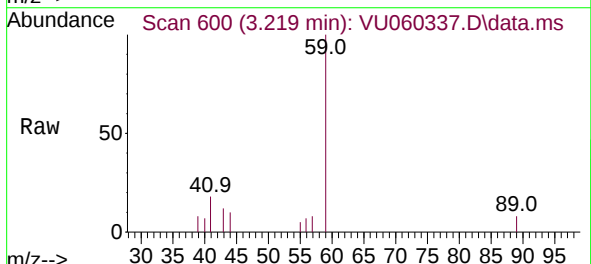
Instrument :
MSVOA_U
ClientSampleId :

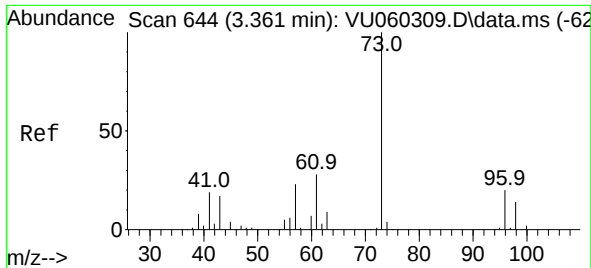
Tgt Ion: 43 Resp: 123865
Ion Ratio Lower Upper
43 100
57 411.1 0.0 18.4#



#24
tert-Butyl Alcohol
Concen: 0.384 ug/l
RT: 3.219 min Scan# 600
Delta R.T. -0.013 min
Lab File: VU060337.D
Acq: 07 Aug 2024 15:13

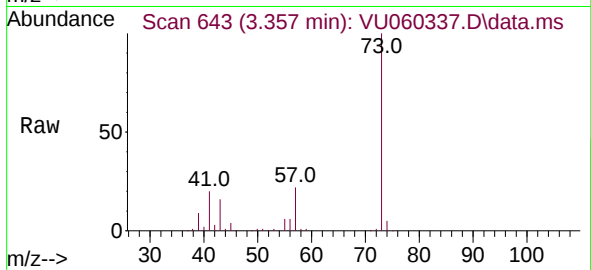
Tgt Ion: 59 Resp: 379
Ion Ratio Lower Upper
59 100
57 0.0 4.5 6.7#



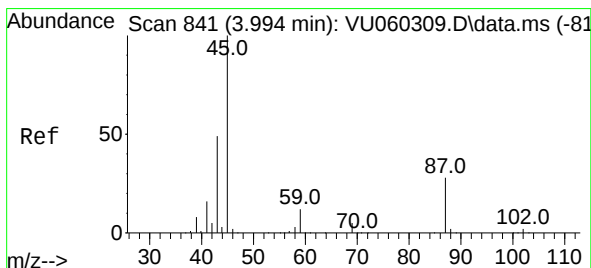
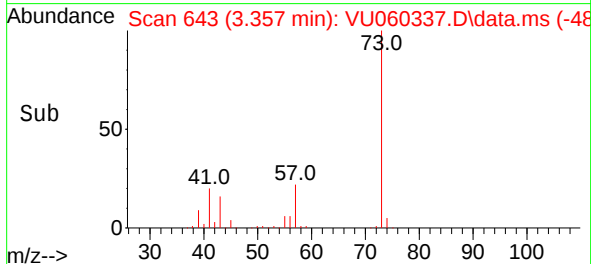
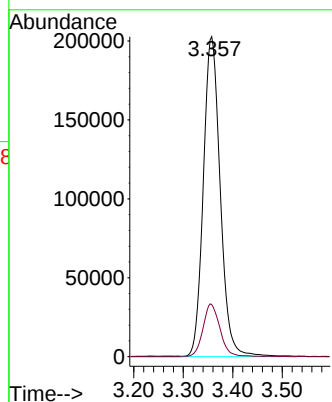


#25
Methyl tert-Butyl Ether
Concen: 20.126 ug/l
RT: 3.357 min Scan# 644
Delta R.T. -0.003 min
Lab File: VU060337.D
Acq: 07 Aug 2024 15:13

Instrument :
MSVOA_U
ClientSampleId :

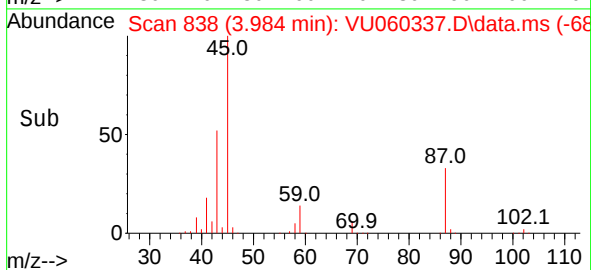
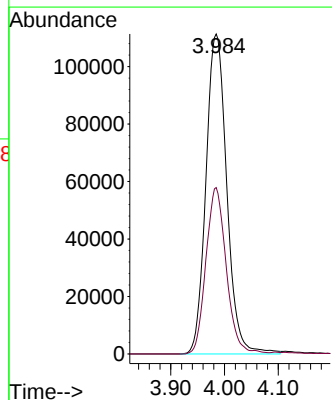
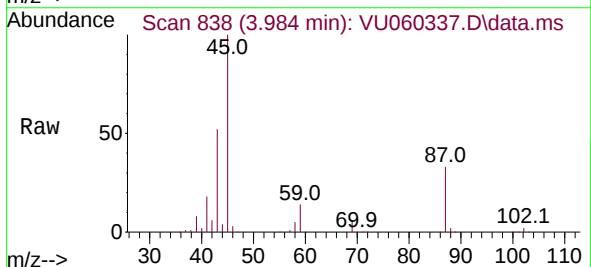


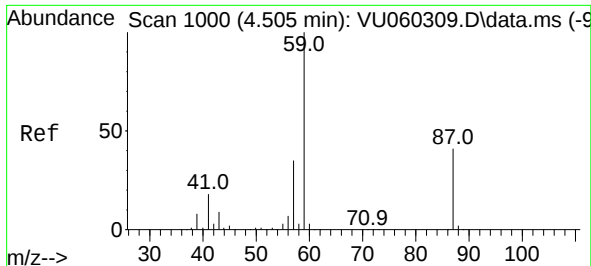
Tgt Ion: 73 Resp: 480994
Ion Ratio Lower Upper
73 100
43 16.2 14.1 21.1



#31
Isopropyl Ether
Concen: 10.240 ug/l
RT: 3.984 min Scan# 838
Delta R.T. -0.010 min
Lab File: VU060337.D
Acq: 07 Aug 2024 15:13

Tgt Ion: 45 Resp: 300196
Ion Ratio Lower Upper
45 100
43 50.8 24.7 74.1





#32

Ethyl-t-butyl ether

Concen: 52.895 ug/l

RT: 4.492 min Scan# 90

Delta R.T. -0.013 min MSVOA_U

Lab File: VU060337.D

Acq: 07 Aug 2024 15:13

Instrument :

MSVOA_U

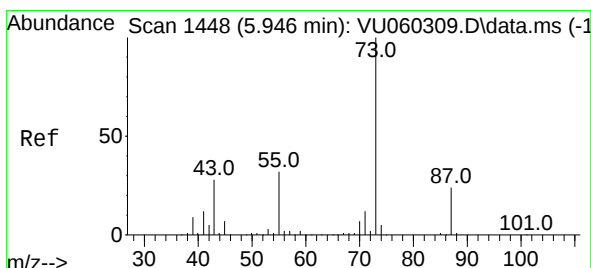
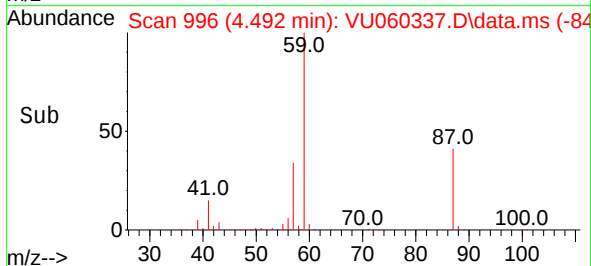
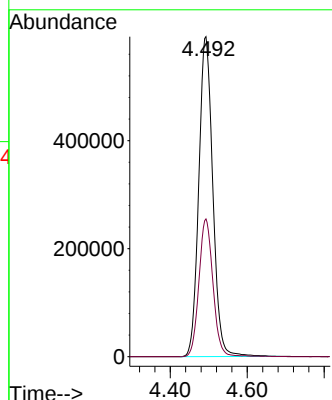
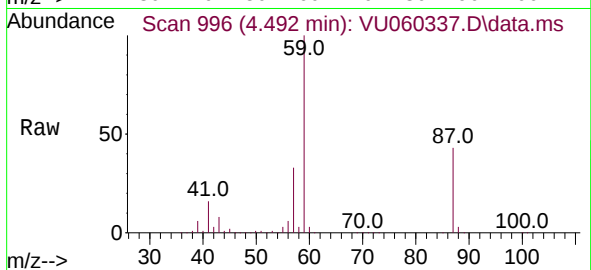
ClientSampleId :

Tgt Ion: 59 Resp: 1498798

Ion Ratio Lower Upper

59 100

87 42.4 32.6 49.0



#33

Tert-Amyl methyl ether

Concen: 55.943 ug/l

RT: 5.933 min Scan# 1444

Delta R.T. -0.013 min

Lab File: VU060337.D

Acq: 07 Aug 2024 15:13

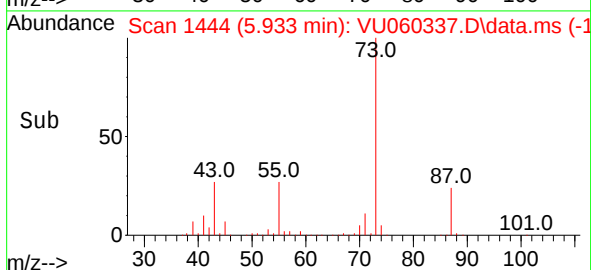
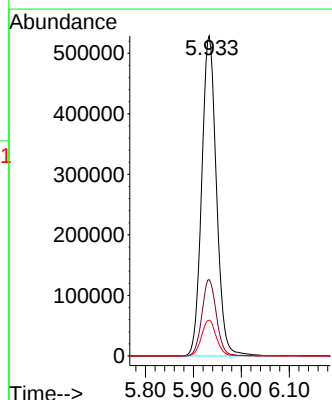
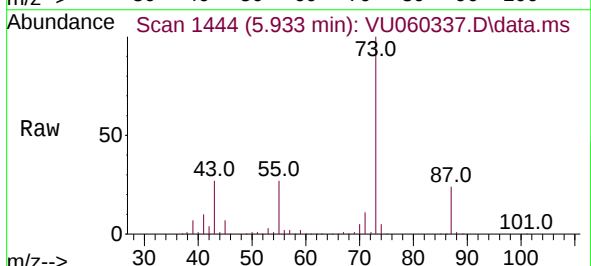
Tgt Ion: 73 Resp: 1125215

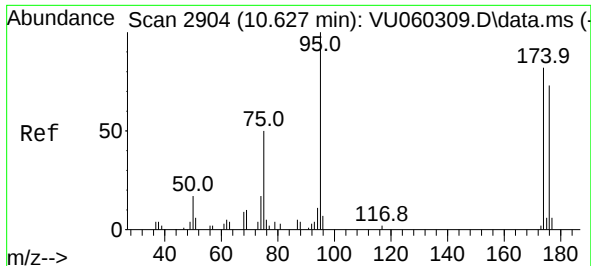
Ion Ratio Lower Upper

73 100

87 23.7 19.6 29.4

71 11.4 9.5 14.3





#57

4-Bromofluorobenzene

Concen: 0.780 ug/l

RT: 10.634 min Scan# 2906

Delta R.T. 0.006 min

Lab File: VU060337.D

Acq: 07 Aug 2024 15:13

Instrument :

MSVOA_U

ClientSampleId :

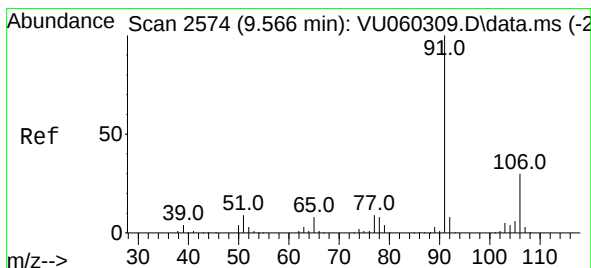
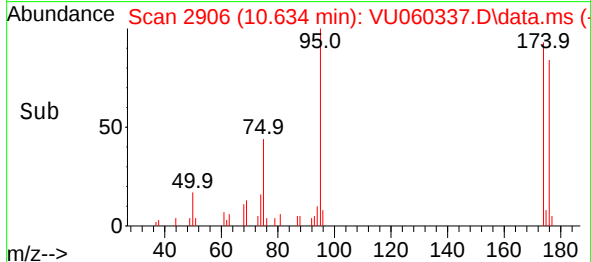
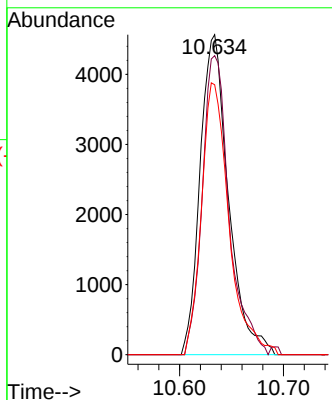
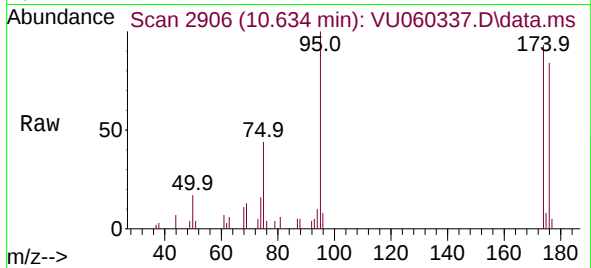
Tgt Ion: 95 Resp: 8650

Ion Ratio Lower Upper

95 100

174 88.6 65.6 98.4

176 82.4 60.4 90.6



#63

Ethyl Benzene

Concen: 0.517 ug/l

RT: 9.573 min Scan# 2576

Delta R.T. 0.007 min

Lab File: VU060337.D

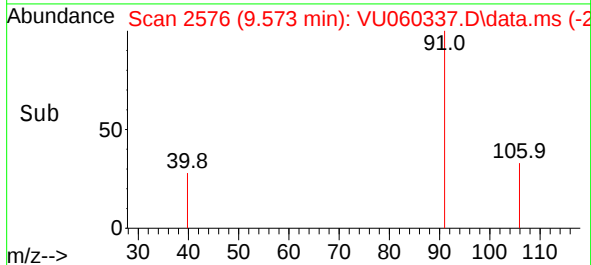
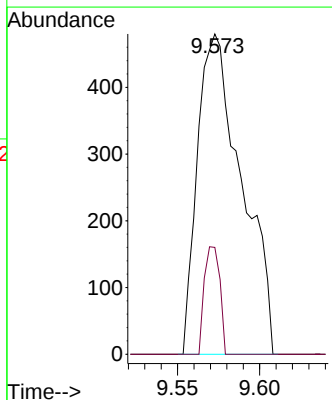
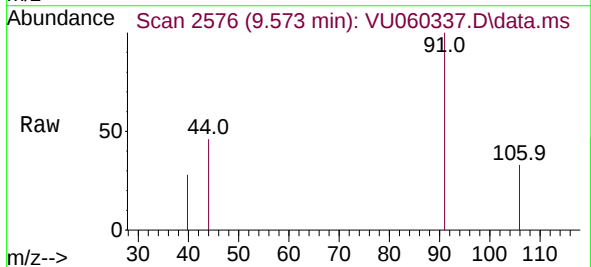
Acq: 07 Aug 2024 15:13

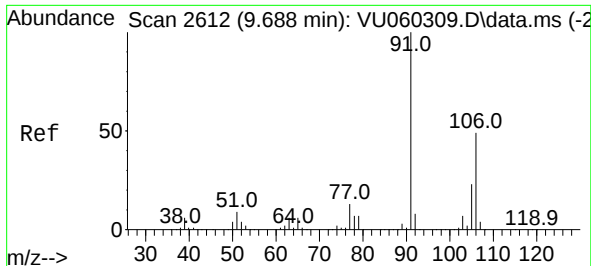
Tgt Ion: 91 Resp: 897

Ion Ratio Lower Upper

91 100

106 33.3 24.4 36.6





#64

m/p-Xylenes

Concen: 0.899 ug/l

RT: 9.692 min Scan# 2

Delta R.T. 0.004 min

Lab File: VU060337.D

Acq: 07 Aug 2024 15:13

Instrument :

MSVOA_U

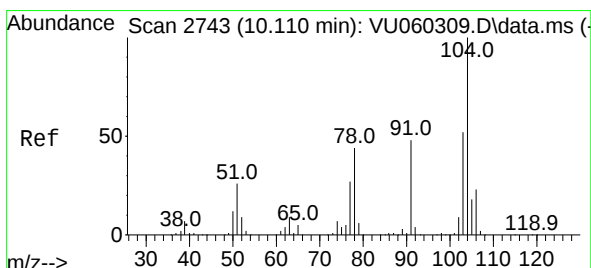
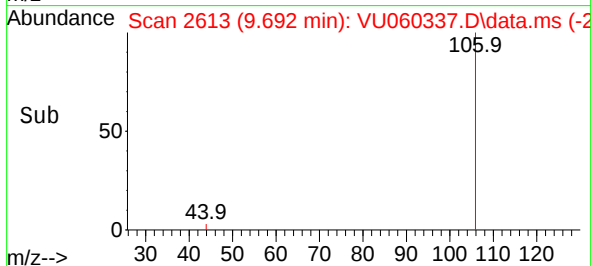
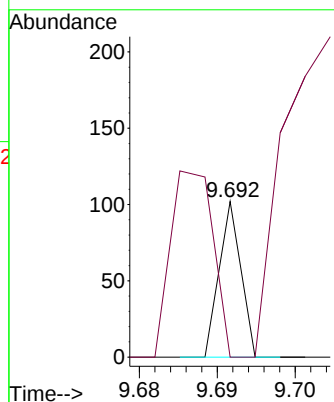
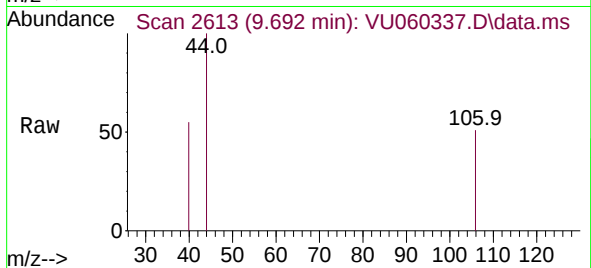
ClientSampleId :

Tgt Ion:106 Resp: 20

Ion Ratio Lower Upper

106 100

91 230.0 165.0 247.4



#66

Styrene

Concen: 0.476 ug/l

RT: 10.139 min Scan# 2752

Delta R.T. 0.029 min

Lab File: VU060337.D

Acq: 07 Aug 2024 15:13

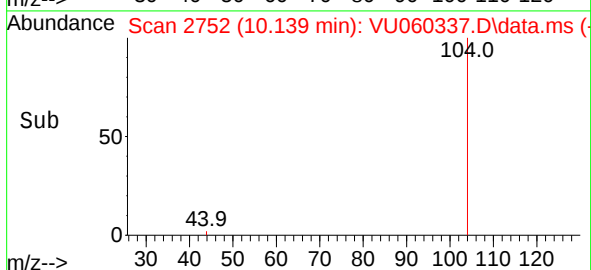
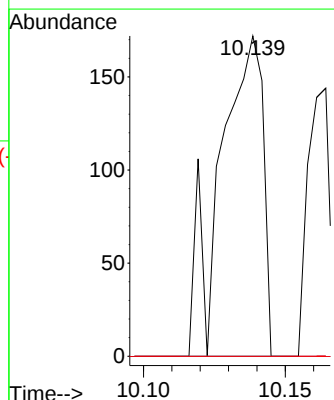
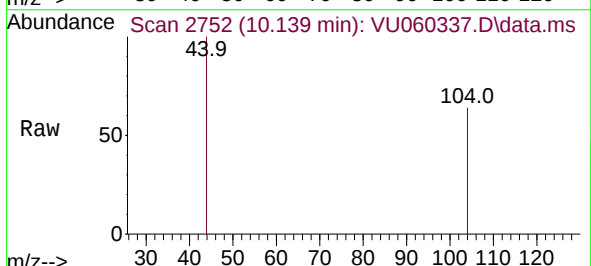
Tgt Ion:104 Resp: 181

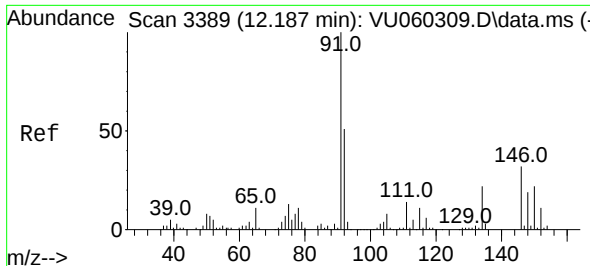
Ion Ratio Lower Upper

104 100

78 0.0 39.0 58.6#

103 0.0 45.0 67.6#





#68

1,2-Dichlorobenzene-d4

Concen: 0.916 ug/l

RT: 12.190 min Scan# 3389

Delta R.T. 0.003 min

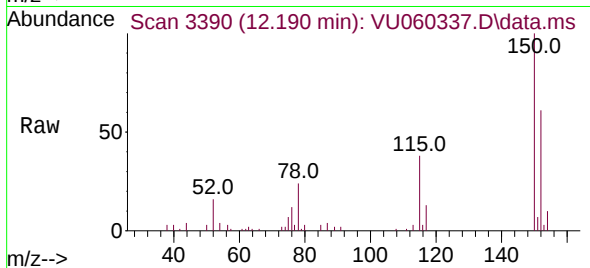
Lab File: VU060337.D

Acq: 07 Aug 2024 15:13

Instrument :

MSVOA_U

ClientSampleId :



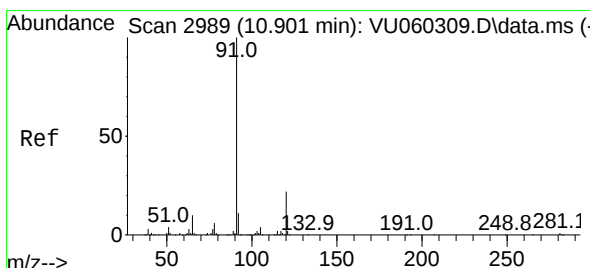
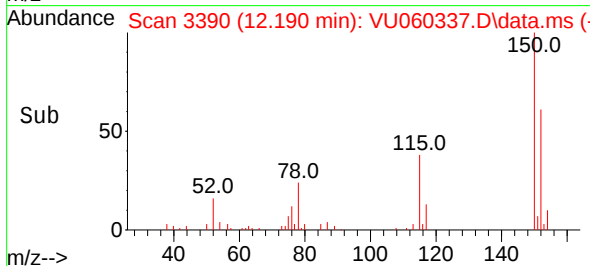
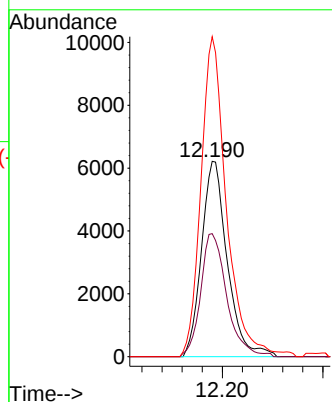
Tgt Ion:152 Resp: 11044

Ion Ratio Lower Upper

152 100

115 63.7 0.0 325.2

150 162.3 0.0 684.2



#73

n-propylbenzene

Concen: 13.023 ug/l

RT: 10.901 min Scan# 2989

Delta R.T. -0.000 min

Lab File: VU060337.D

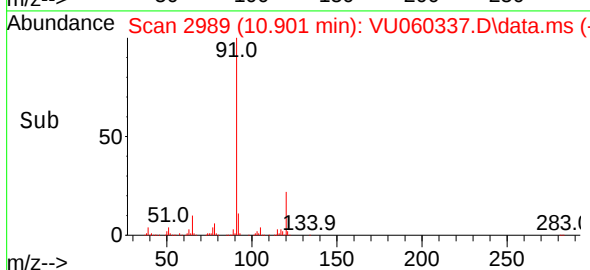
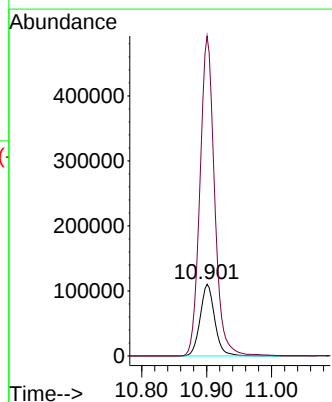
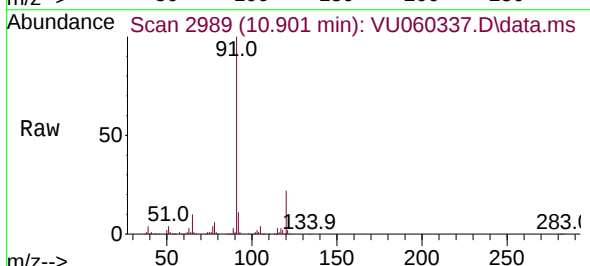
Acq: 07 Aug 2024 15:13

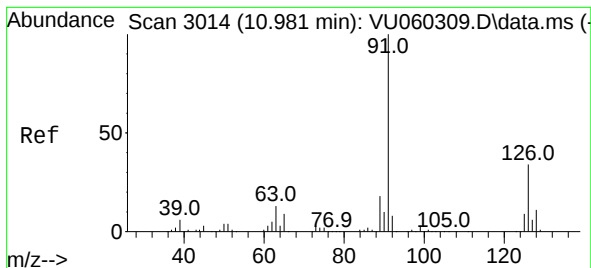
Tgt Ion:120 Resp: 172358

Ion Ratio Lower Upper

120 100

91 449.8 362.2 543.2





#74

2-Chlorotoluene

Concen: 0.351 ug/l

RT: 10.975 min Scan# 3014

Delta R.T. -0.006 min

Lab File: VU060337.D

Acq: 07 Aug 2024 15:13

Instrument :

MSVOA_U

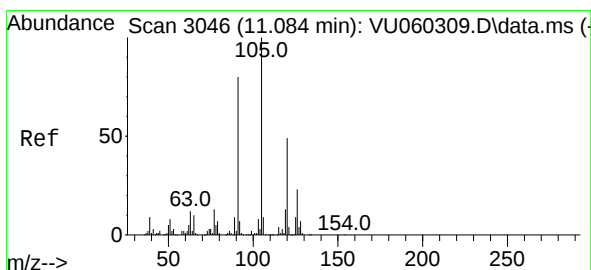
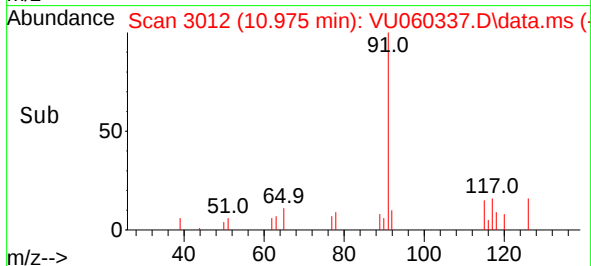
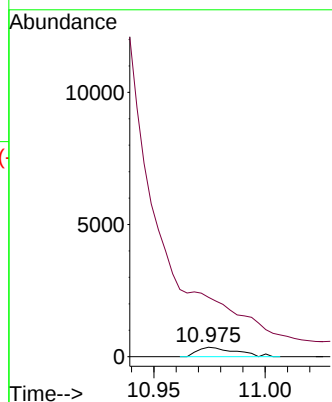
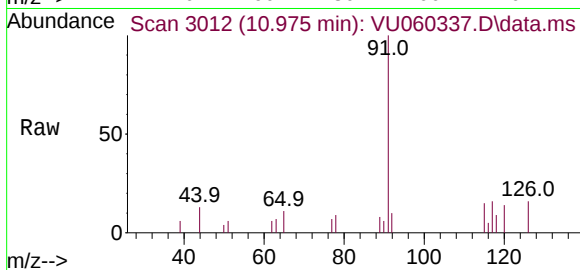
ClientSampleId :

Tgt Ion:126 Resp: 429

Ion Ratio Lower Upper

126 100

91 180716.8 0.0 585.6#



#75

1,3,5-Trimethylbenzene

Concen: 1.104 ug/l

RT: 10.901 min Scan# 2989

Delta R.T. -0.183 min

Lab File: VU060337.D

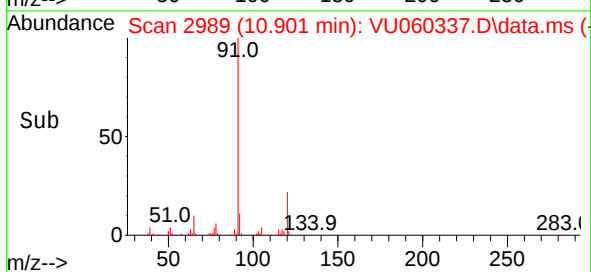
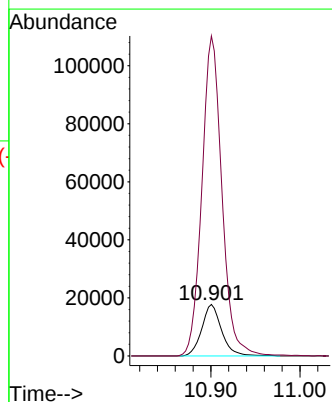
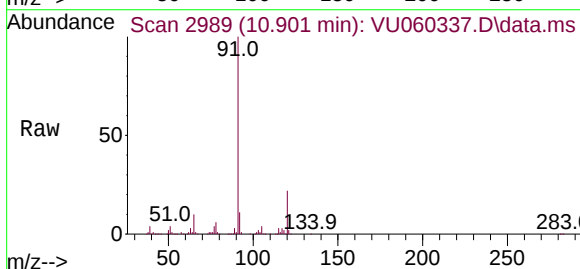
Acq: 07 Aug 2024 15:13

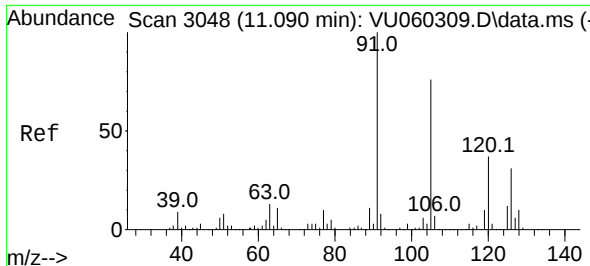
Tgt Ion:105 Resp: 27551

Ion Ratio Lower Upper

105 100

120 625.6 38.6 57.8#

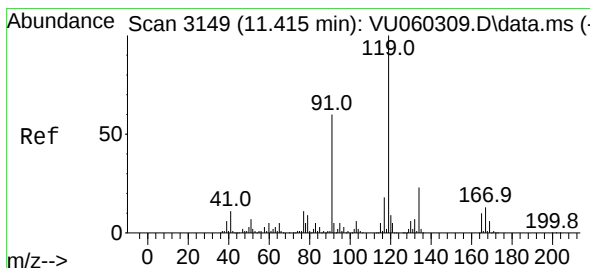
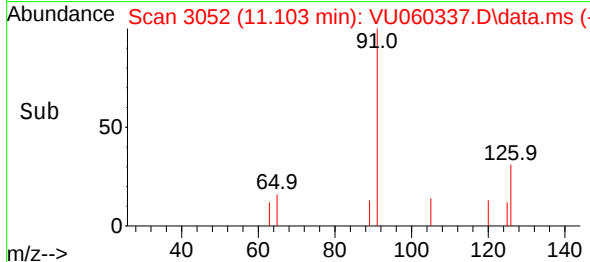
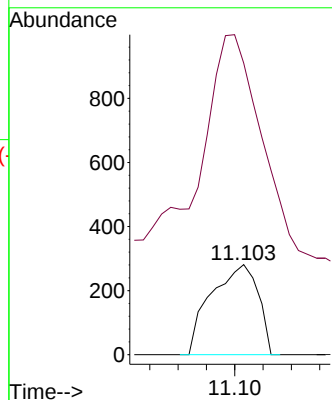
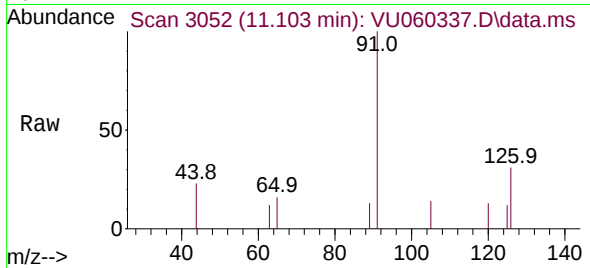




#76
4-Chlorotoluene
Concen: 0.363 ug/l
RT: 11.103 min Scan# 3048
Delta R.T. 0.013 min
Lab File: VU060337.D
Acq: 07 Aug 2024 15:13

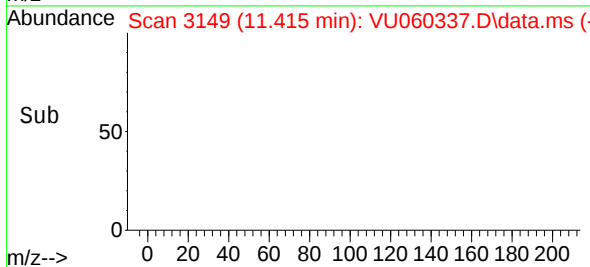
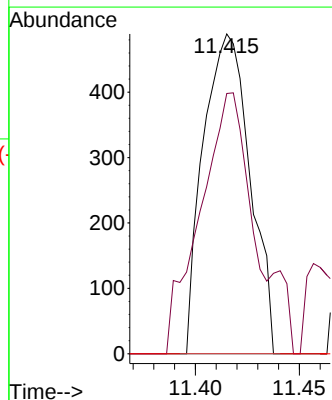
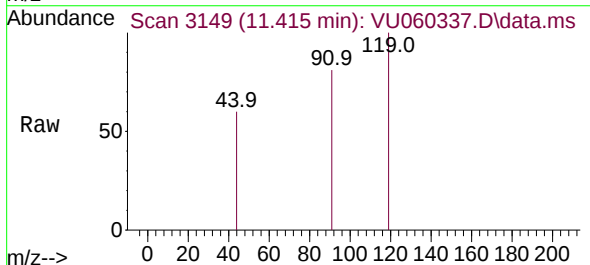
Instrument :
MSVOA_U
ClientSampleId :

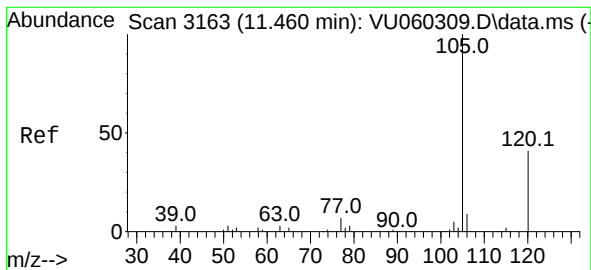
Tgt Ion:126 Resp: 324
Ion Ratio Lower Upper
126 100
91 0.0 0.0 669.4



#77
tert-Butylbenzene
Concen: 0.464 ug/l
RT: 11.415 min Scan# 3149
Delta R.T. 0.000 min
Lab File: VU060337.D
Acq: 07 Aug 2024 15:13

Tgt Ion:119 Resp: 764
Ion Ratio Lower Upper
119 100
91 0.0 29.0 87.1#
134 0.0 17.8 26.8#





#78

1,2,4-Trimethylbenzene

Concen: 0.525 ug/l

RT: 11.473 min Scan# 3167

Delta R.T. 0.013 min

Lab File: VU060337.D

Acq: 07 Aug 2024 15:13

Instrument :

MSVOA_U

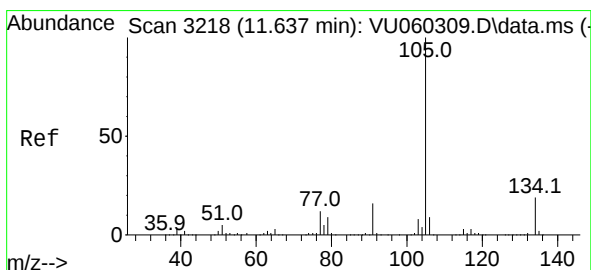
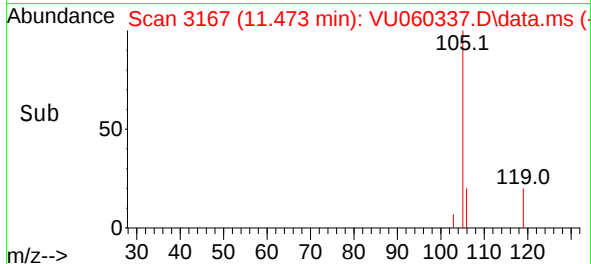
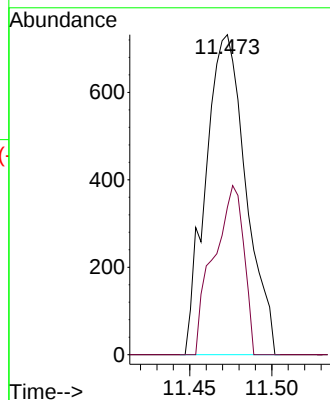
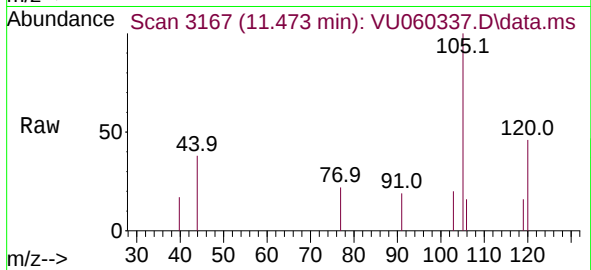
ClientSampleId :

Tgt Ion:105 Resp: 1245

Ion Ratio Lower Upper

105 100

120 39.5 22.6 67.7



#79

sec-Butylbenzene

Concen: 0.475 ug/l

RT: 11.637 min Scan# 3218

Delta R.T. -0.000 min

Lab File: VU060337.D

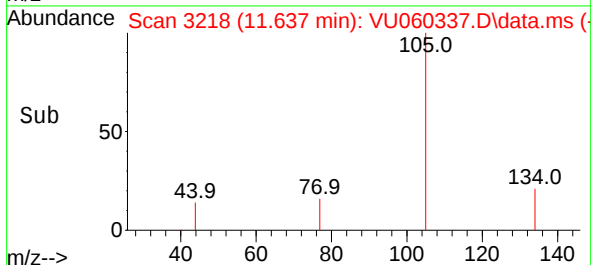
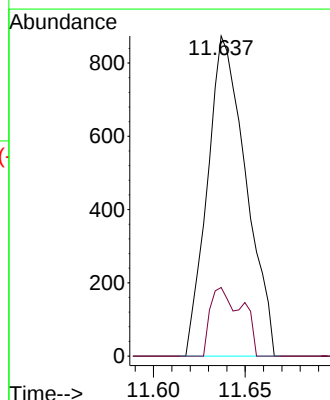
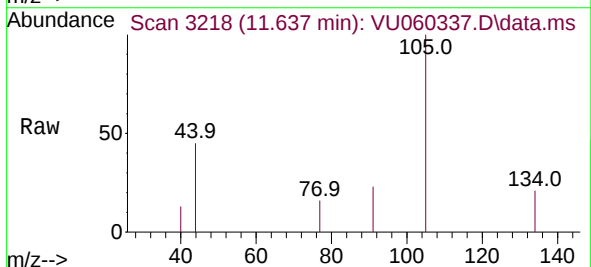
Acq: 07 Aug 2024 15:13

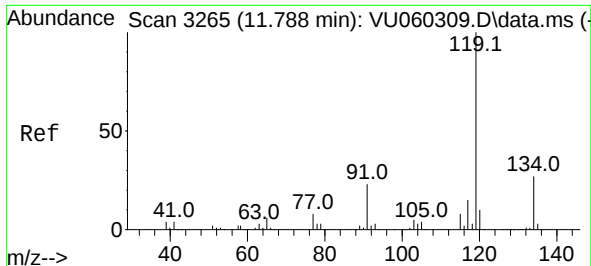
Tgt Ion:105 Resp: 1273

Ion Ratio Lower Upper

105 100

134 17.7 15.5 23.3

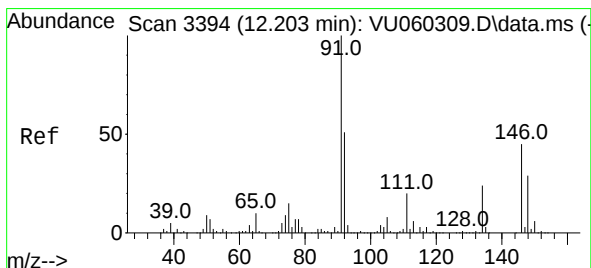
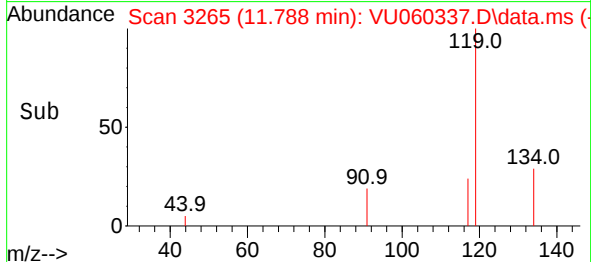
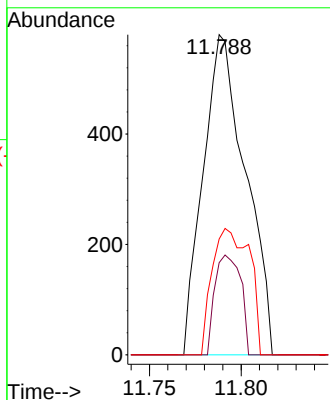
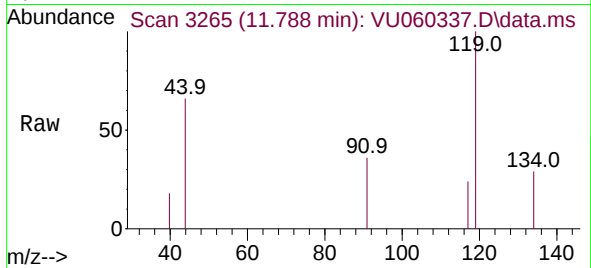




#81
 p-Isopropyltoluene
 Concen: 0.540 ug/l
 RT: 11.788 min Scan# 31
 Delta R.T. 0.000 min
 Lab File: VU060337.D
 Acq: 07 Aug 2024 15:13

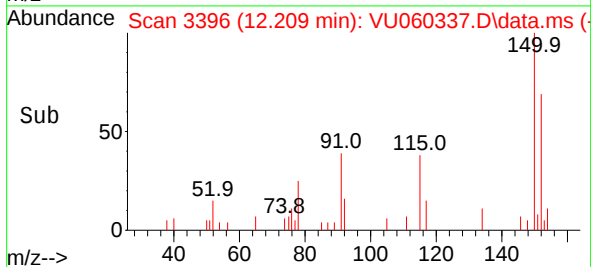
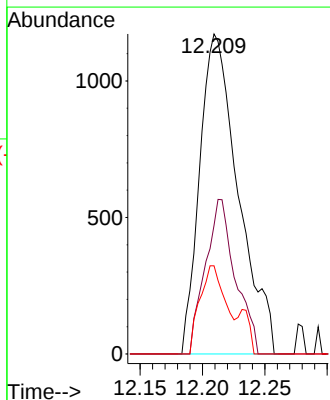
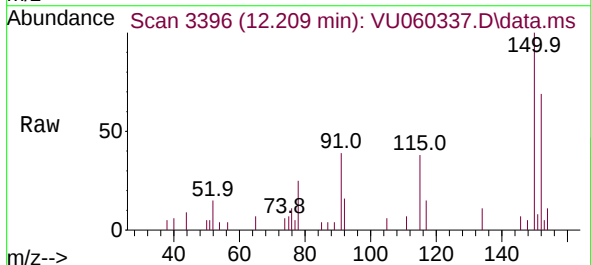
Instrument :
 MSVOA_U
 ClientSampleId :

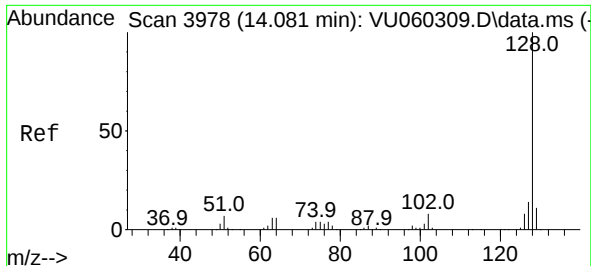
Tgt Ion:119 Resp: 933
 Ion Ratio Lower Upper
 119 100
 134 18.9 21.2 31.8#
 91 34.7 18.9 28.3#



#84
 n-Butylbenzene
 Concen: 0.567 ug/l
 RT: 12.209 min Scan# 3396
 Delta R.T. 0.006 min
 Lab File: VU060337.D
 Acq: 07 Aug 2024 15:13

Tgt Ion: 91 Resp: 2515
 Ion Ratio Lower Upper
 91 100
 92 37.7 41.0 61.6#
 134 18.4 19.4 29.2#





#89

Naphthalene

Concen: 0.309 ug/l

RT: 14.093 min Scan# 3982

Delta R.T. 0.012 min

Lab File: VU060337.D

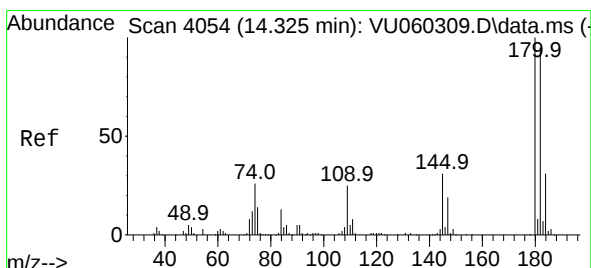
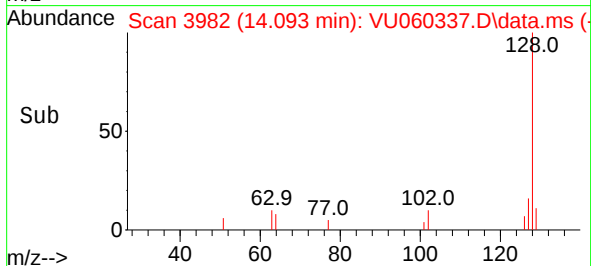
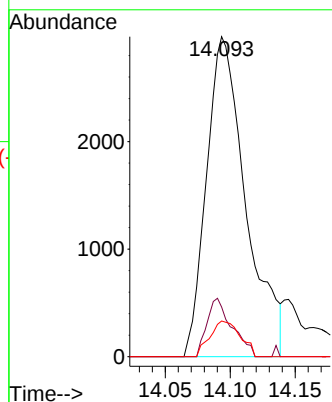
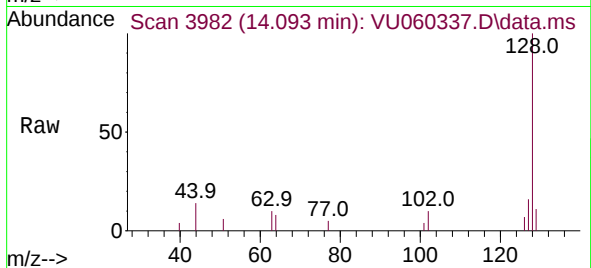
Acq: 07 Aug 2024 15:13

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:128	Resp:	6266
Ion Ratio	Lower	Upper
128	100	
127	11.7	11.0 16.4
129	8.6	8.6 12.8



#90

1,2,3-Trichlorobenzene

Concen: 0.525 ug/l

RT: 14.328 min Scan# 4055

Delta R.T. 0.003 min

Lab File: VU060337.D

Acq: 07 Aug 2024 15:13

Tgt Ion:180	Resp:	5870
Ion Ratio	Lower	Upper
180	100	
182	96.1	76.1 114.1
145	27.5	25.0 37.6

