

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU101521\
 Data File : VU045317.D
 Acq On : 15 Oct 2021 12:41
 Operator : SY/MD
 Sample : VU1015WBL01
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1015WBL01

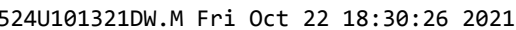
Quant Time: Oct 16 01:09:28 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U101321DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Thu Oct 14 05:46:27 2021
 Response via : Initial Calibration

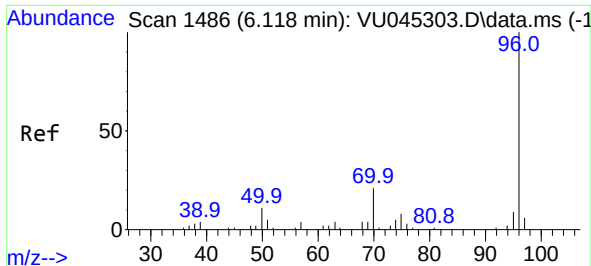
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	6.118	96	39414	1.00	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.639	95	11652	0.81	ug/l	0.00
Spiked Amount 1.000			Recovery	=	81.00%	
68) 1,2-Dichlorobenzene-d4	12.198	152	10989	0.81	ug/l	0.00
Spiked Amount 1.000			Recovery	=	81.00%	
Target Compounds						
						Qvalue
3) Chloromethane	1.520	50	1443	0.09	ug/l	90
4) Vinyl Chloride	1.607	62	40	0.00	ug/l #	42
5) Bromomethane	1.851	94	608	0.07	ug/l	97
10) Iodomethane	2.726	142	330	0.03	ug/l #	77
11) Allyl Chloride	2.925	41	19	0.00	ug/l #	10
14) Carbon Disulfide	2.800	76	1037	0.03	ug/l #	75
16) trans-1,2-Dichloroethene	3.356	96	39	0.00	ug/l #	50
18) 2-Butanone	4.739	43	82	0.02	ug/l	77
33) Tert-Amyl methyl ether	6.118	73	435	0.01	ug/l #	52
35) Benzene	5.780	78	335	0.01	ug/l #	51
41) Tetrahydrofuran	5.089	42	44	0.02	ug/l #	28
45) 4-Methyl-2-Pentanone	7.800	43	921	0.11	ug/l #	65
48) Ethyl methacrylate	8.343	69	87	0.01	ug/l #	17
49) Toluene	7.973	92	410	0.01	ug/l #	51
54) 2-Hexanone	8.697	43	1125	0.18	ug/l	92
59) Chlorobenzene	9.446	112	121	0.00	ug/l #	43
63) Ethyl Benzene	9.578	91	317	0.01	ug/l #	44
64) m/p-Xylenes	9.700	106	212	0.01	ug/l #	42
66) Styrene	10.128	104	222	0.01	ug/l #	57
69) Isopropylbenzene	10.484	105	302	0.01	ug/l #	49
73) n-propylbenzene	11.092	120	45	0.00	ug/l #	1
75) 1,3,5-Trimethylbenzene	11.095	105	259	0.01	ug/l #	54
77) tert-Butylbenzene	11.423	119	219	0.01	ug/l #	56
78) 1,2,4-Trimethylbenzene	11.472	105	541	0.01	ug/l #	66
79) sec-Butylbenzene	11.655	105	575	0.01	ug/l #	73
81) p-Isopropyltoluene	11.800	119	553	0.01	ug/l #	70
82) 1,3-Dichlorobenzene	11.755	146	371	0.02	ug/l #	82
83) 1,4-Dichlorobenzene	11.848	146	423	0.02	ug/l #	92
84) n-Butylbenzene	12.211	91	924	0.02	ug/l #	84
85) 1,2-Dichlorobenzene	12.214	146	484	0.02	ug/l	91
87) 1,2,4-Trichlorobenzene	13.851	180	819	0.06	ug/l	93
88) Hexachlorobutadiene	14.025	225	121	0.02	ug/l #	73
89) Naphthalene	14.095	128	3007	0.12	ug/l #	95
90) 1,2,3-Trichlorobenzene	14.336	180	995	0.08	ug/l #	85

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

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QLast Update : Thu Oct 14 05:46:27 2021
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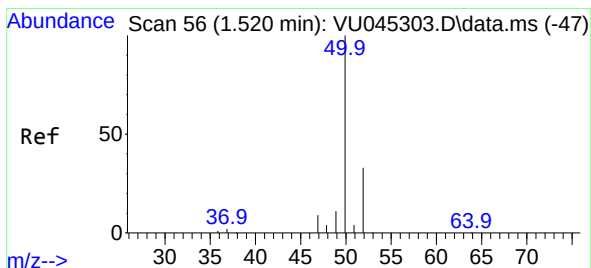
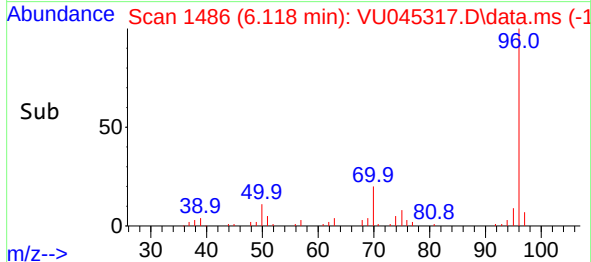
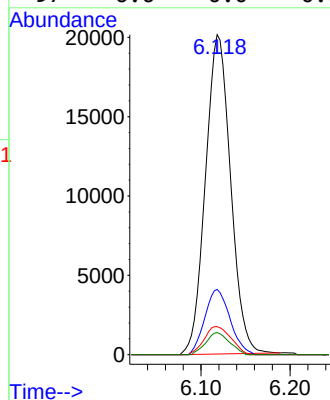
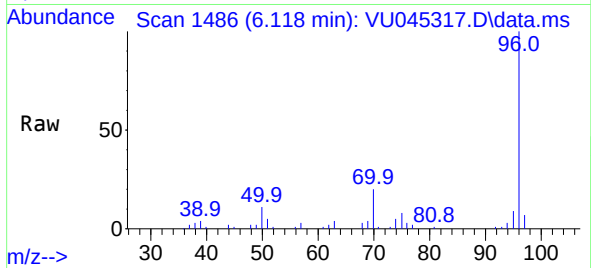




#1
Fluorobenzene
Concen: 1.00 ug/l
RT: 6.118 min Scan# 1486
Delta R.T. 0.000 min
Lab File: VU045317.D
Acq: 15 Oct 2021 12:41

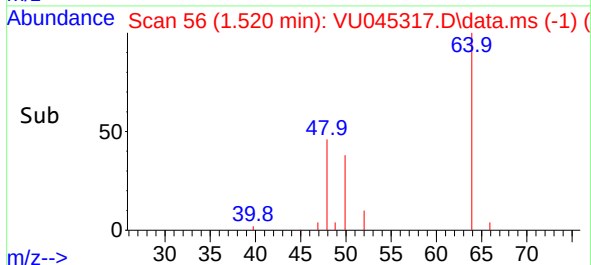
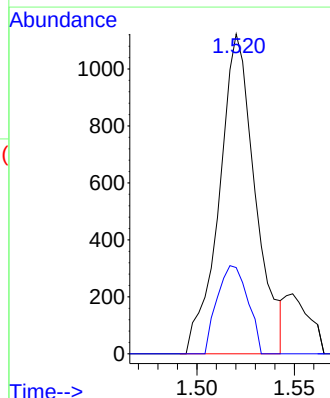
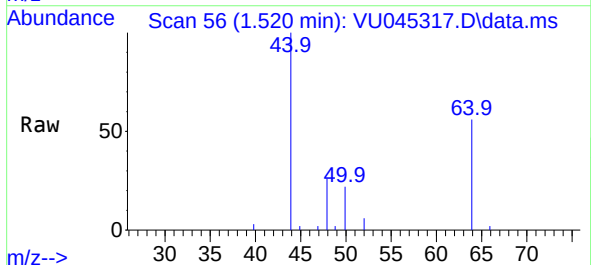
Instrument :
MSVOA_U
ClientSampleId :
VU1015WBL01

Tgt Ion: 96	Resp: 39414
Ion Ratio	Lower Upper
96 100	
70 20.5	16.8 25.2
95 9.3	7.3 10.9
97 6.6	0.0 0.0#

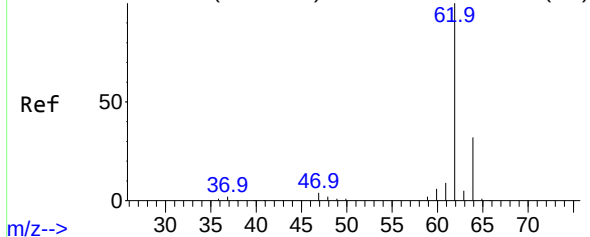


#3
Chloromethane
Concen: 0.09 ug/l
RT: 1.520 min Scan# 56
Delta R.T. 0.000 min
Lab File: VU045317.D
Acq: 15 Oct 2021 12:41

Tgt Ion: 50	Resp: 1443
Ion Ratio	Lower Upper
50 100	
52 27.0	26.2 39.4



Abundance Scan 82 (1.604 min): VU045303.D\data.ms (-73)



#4

Vinyl Chloride

Concen: 0.00 ug/l

RT: 1.607 min Scan# 83

Delta R.T. 0.003 min

Lab File: VU045317.D

Acq: 15 Oct 2021 12:41

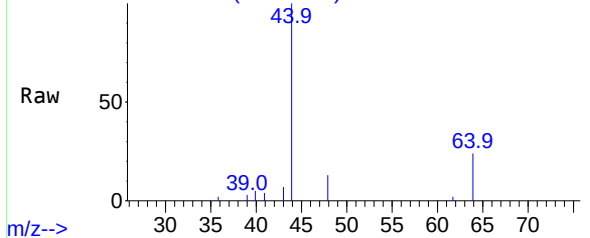
Tgt Ion: 62 Resp: 40

Ion Ratio Lower Upper

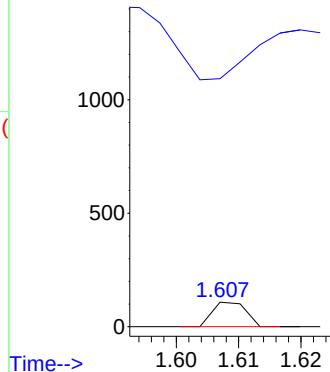
62 100

64 0.0 26.0 39.0#

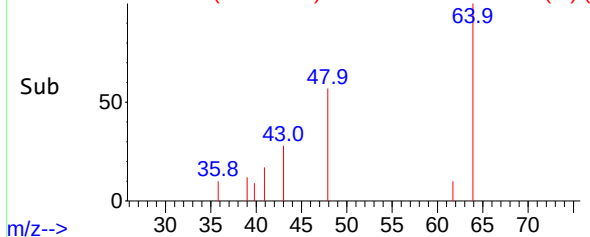
Abundance Scan 83 (1.607 min): VU045317.D\data.ms



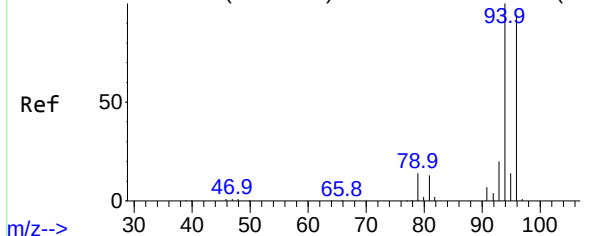
Abundance



Abundance Scan 83 (1.607 min): VU045317.D\data.ms (-1)



Abundance Scan 161 (1.858 min): VU045303.D\data.ms (-15)



#5

Bromomethane

Concen: 0.07 ug/l

RT: 1.851 min Scan# 159

Delta R.T. -0.006 min

Lab File: VU045317.D

Acq: 15 Oct 2021 12:41

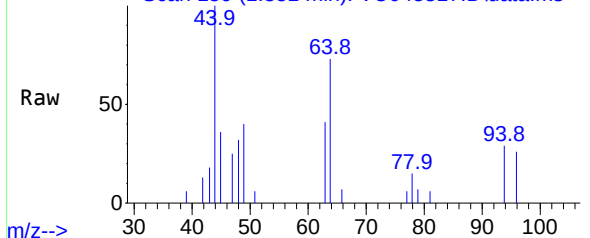
Tgt Ion: 94 Resp: 608

Ion Ratio Lower Upper

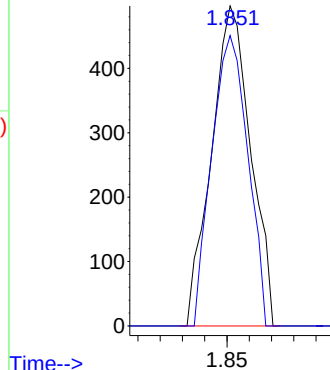
94 100

96 90.7 75.0 112.4

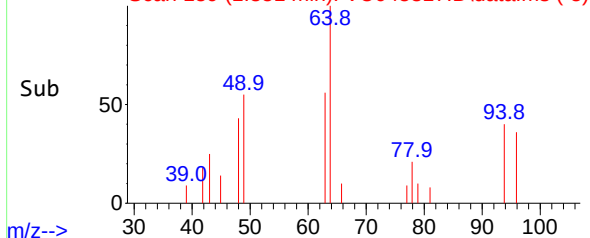
Abundance Scan 159 (1.851 min): VU045317.D\data.ms

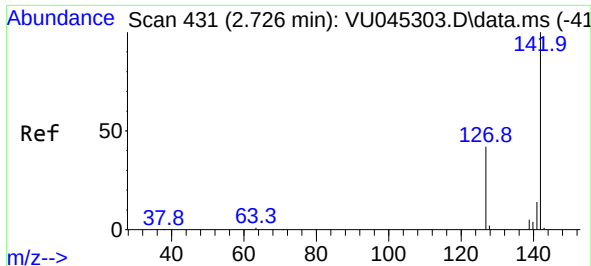


Abundance



Abundance Scan 159 (1.851 min): VU045317.D\data.ms (-5)

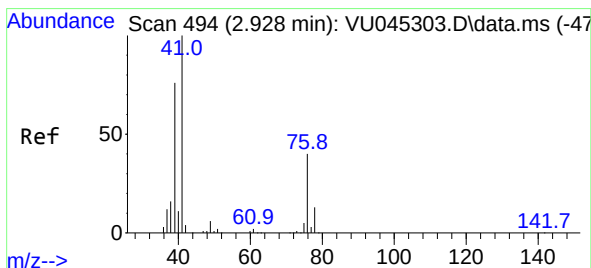
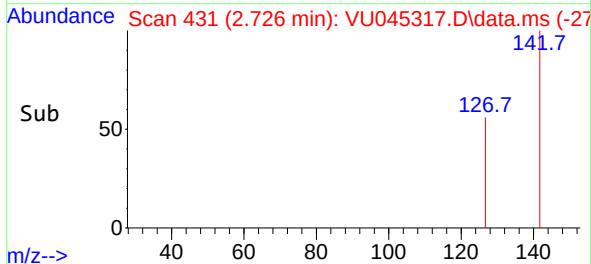
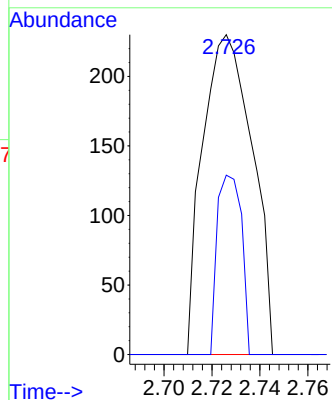
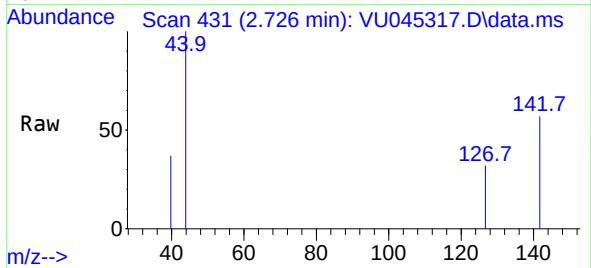




#10
Iodomethane
Concen: 0.03 ug/l
RT: 2.726 min Scan# 431
Delta R.T. -0.000 min
Lab File: VU045317.D
Acq: 15 Oct 2021 12:41

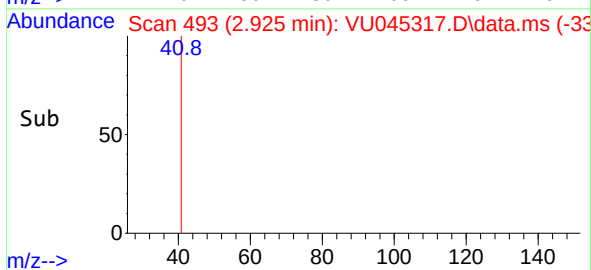
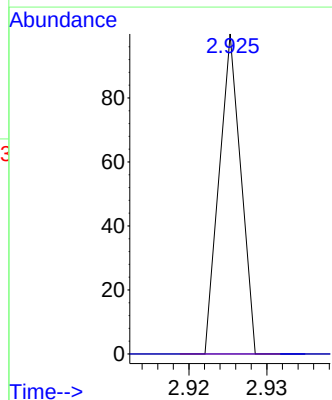
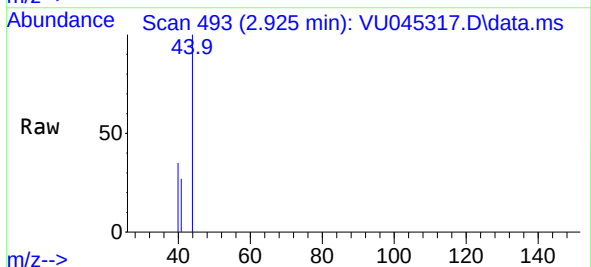
Instrument :
MSVOA_U
ClientSampleId :
VU1015WBL01

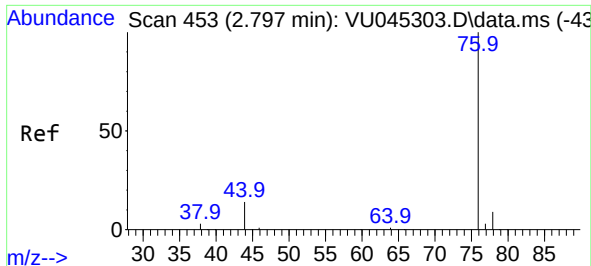
Tgt Ion:142 Resp: 330
Ion Ratio Lower Upper
142 100
127 27.3 33.2 49.8#



#11
Allyl Chloride
Concen: 0.00 ug/l
RT: 2.925 min Scan# 493
Delta R.T. -0.003 min
Lab File: VU045317.D
Acq: 15 Oct 2021 12:41

Tgt Ion: 41 Resp: 19
Ion Ratio Lower Upper
41 100
39 0.0 62.4 93.6#

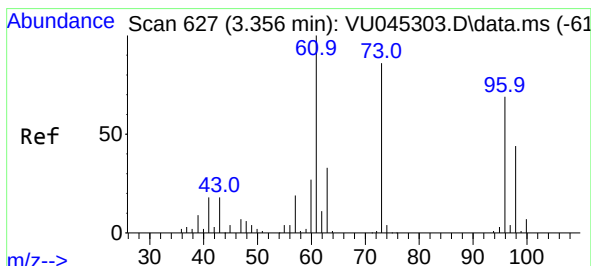
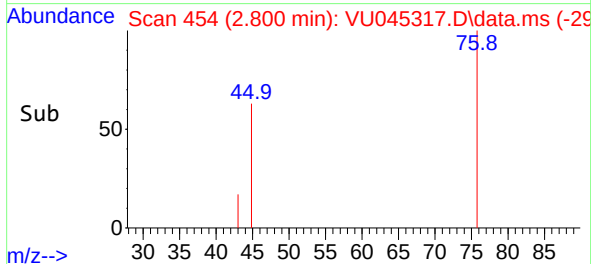
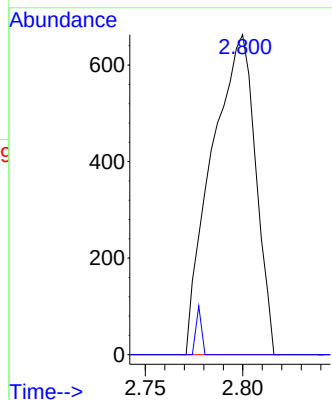
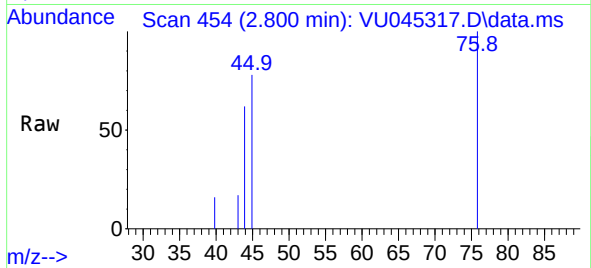




#14
Carbon Disulfide
Concen: 0.03 ug/l
RT: 2.800 min Scan# 454
Delta R.T. 0.003 min
Lab File: VU045317.D
Acq: 15 Oct 2021 12:41

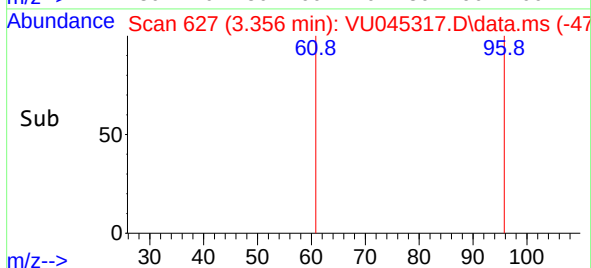
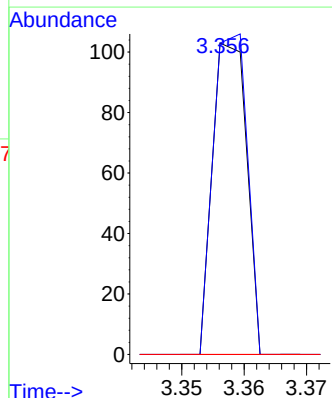
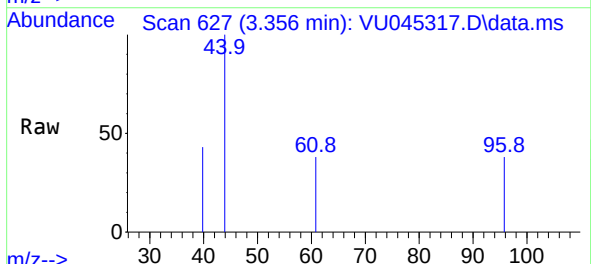
Instrument :
MSVOA_U
ClientSampleId :
VU1015WBL01

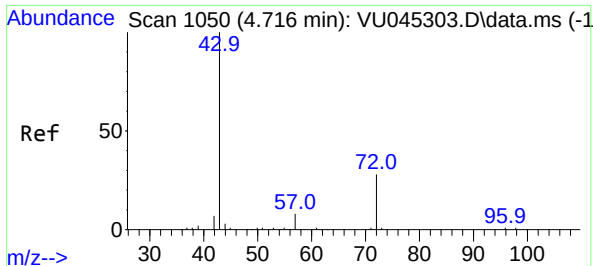
Tgt Ion: 76 Resp: 1037
Ion Ratio Lower Upper
76 100
78 0.0 7.1 10.7#



#16
trans-1,2-Dichloroethene
Concen: 0.00 ug/l
RT: 3.356 min Scan# 627
Delta R.T. 0.000 min
Lab File: VU045317.D
Acq: 15 Oct 2021 12:41

Tgt Ion: 96 Resp: 39
Ion Ratio Lower Upper
96 100
61 100.0 115.8 173.6#
98 0.0 51.1 76.7#

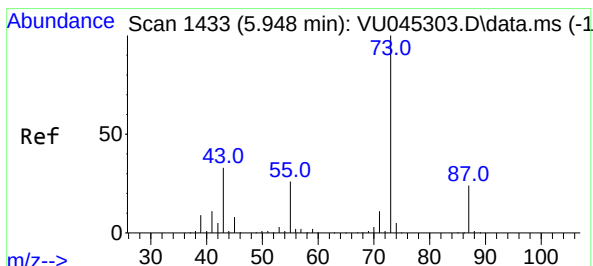
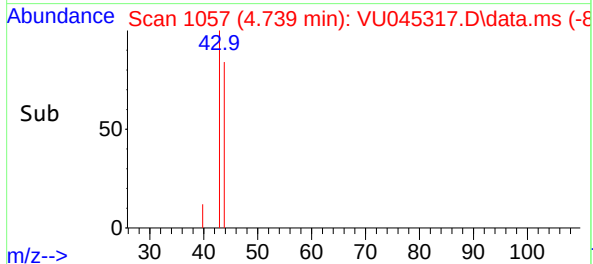
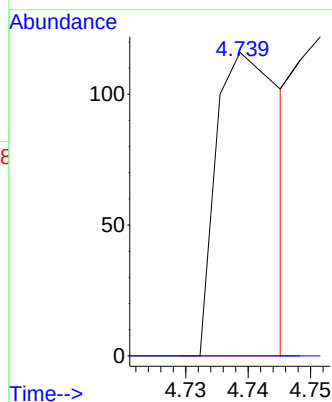
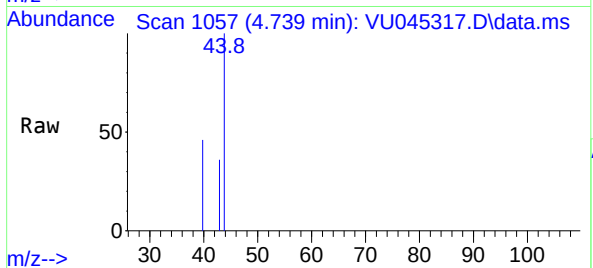




#18
2-Butanone
Concen: 0.02 ug/l
RT: 4.739 min Scan# 1057
Delta R.T. 0.023 min
Lab File: VU045317.D
Acq: 15 Oct 2021 12:41

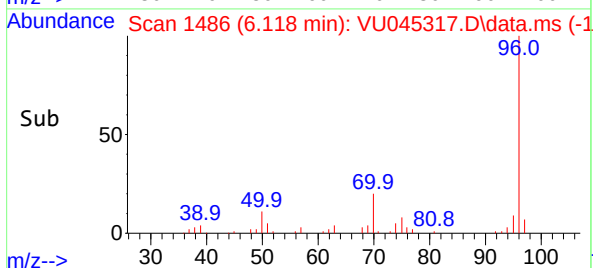
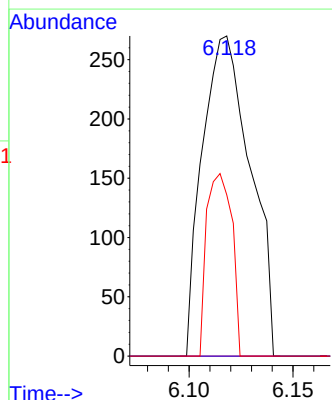
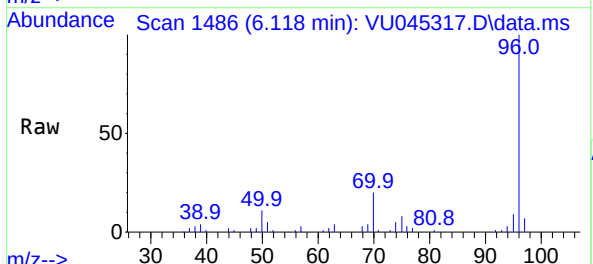
Instrument :
MSVOA_U
ClientSampleId :
VU1015WBL01

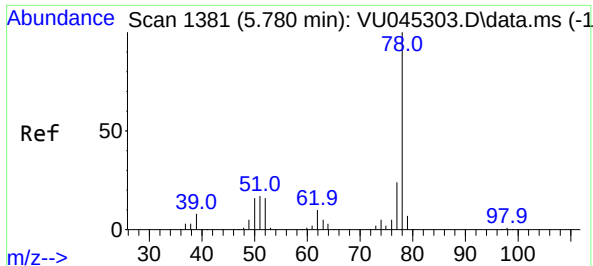
Tgt Ion: 43 Resp: 82
Ion Ratio Lower Upper
43 100
57 0.0 0.0 16.6



#33
Tert-Amyl methyl ether
Concen: 0.01 ug/l
RT: 6.118 min Scan# 1486
Delta R.T. 0.171 min
Lab File: VU045317.D
Acq: 15 Oct 2021 12:41

Tgt Ion: 73 Resp: 435
Ion Ratio Lower Upper
73 100
87 0.0 18.6 28.0#
71 29.9 9.0 13.6#

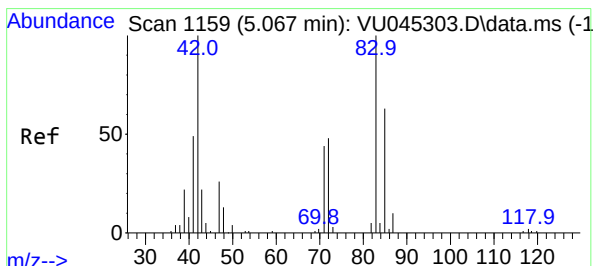
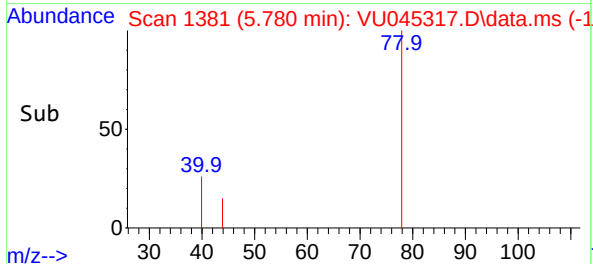
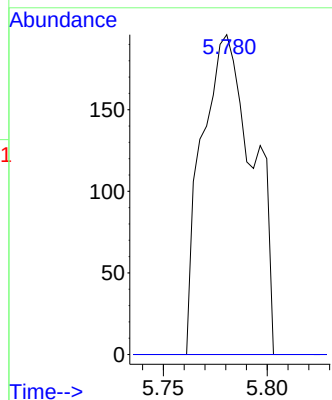
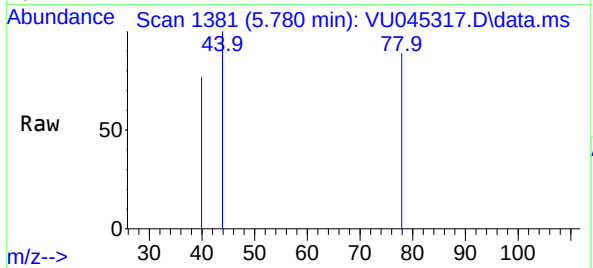




#35
Benzene
Concen: 0.01 ug/l
RT: 5.780 min Scan# 1381
Delta R.T. 0.000 min
Lab File: VU045317.D
Acq: 15 Oct 2021 12:41

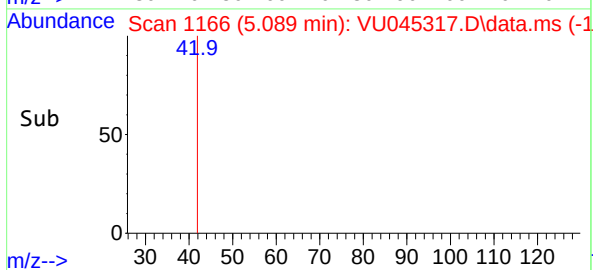
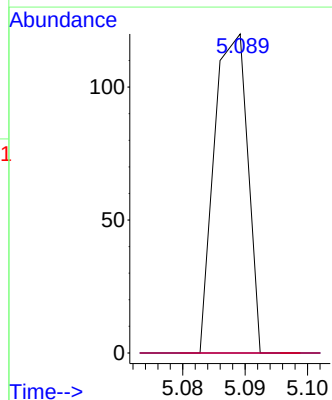
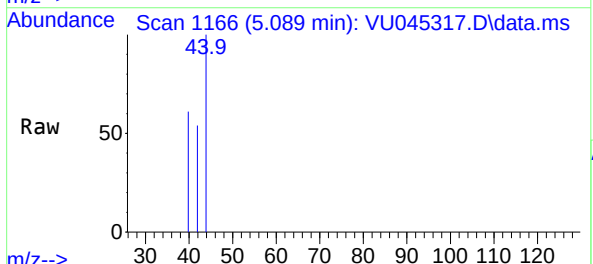
Instrument :
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VU1015WBL01

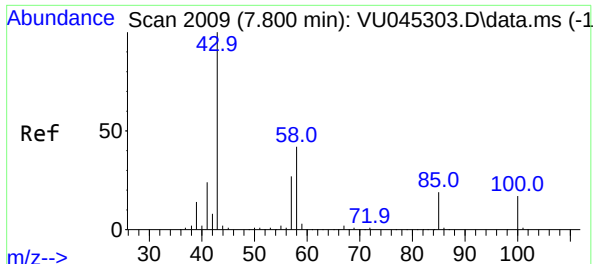
Tgt Ion: 78 Resp: 335
Ion Ratio Lower Upper
78 100
77 0.0 19.1 28.7#



#41
Tetrahydrofuran
Concen: 0.02 ug/l
RT: 5.089 min Scan# 1166
Delta R.T. 0.023 min
Lab File: VU045317.D
Acq: 15 Oct 2021 12:41

Tgt Ion: 42 Resp: 44
Ion Ratio Lower Upper
42 100
72 0.0 42.4 63.6#
71 0.0 36.4 54.6#

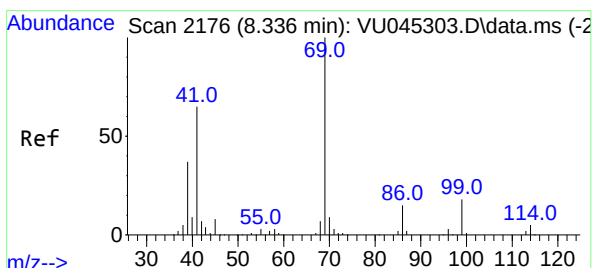
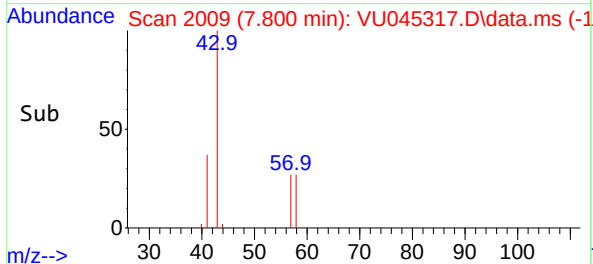
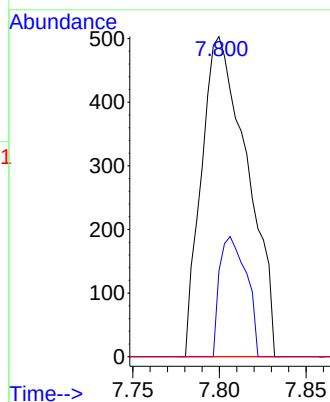
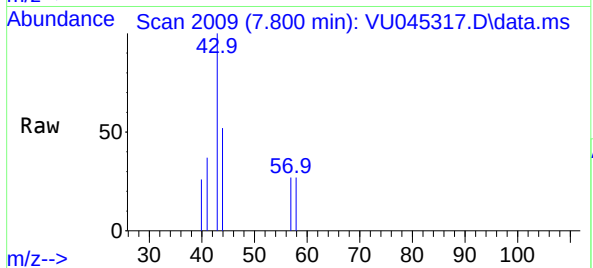




#45
4-Methyl-2-Pentanone
Concen: 0.11 ug/l
RT: 7.800 min Scan# 2009
Delta R.T. 0.000 min
Lab File: VU045317.D
Acq: 15 Oct 2021 12:41

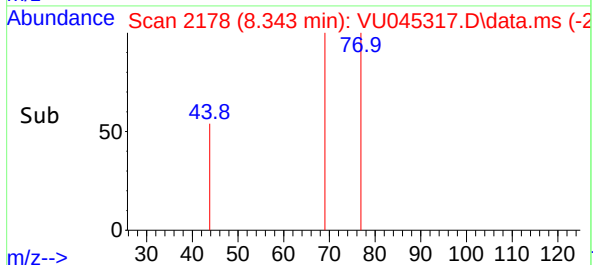
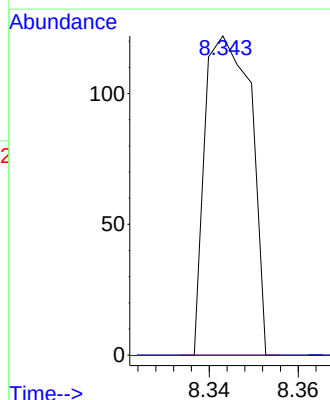
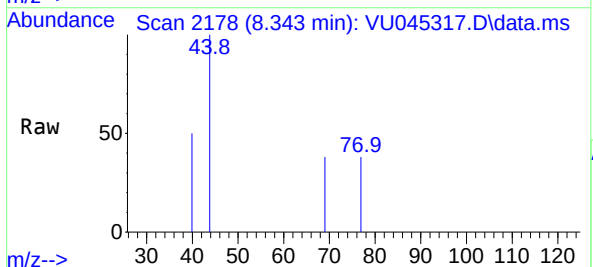
Instrument :
MSVOA_U
ClientSampleId :
VU1015WBL01

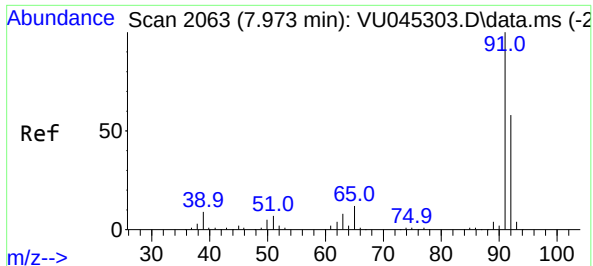
Tgt Ion:	43	Resp:	921
Ion	Ratio	Lower	Upper
43	100		
58	22.0	21.0	63.0
85	0.0	14.8	22.2#



#48
Ethyl methacrylate
Concen: 0.01 ug/l
RT: 8.343 min Scan# 2178
Delta R.T. 0.007 min
Lab File: VU045317.D
Acq: 15 Oct 2021 12:41

Tgt Ion:	69	Resp:	87
Ion	Ratio	Lower	Upper
69	100		
41	0.0	32.6	98.0#





#49

Toluene

Concen: 0.01 ug/l

RT: 7.973 min Scan# 2063

Delta R.T. 0.000 min

Lab File: VU045317.D

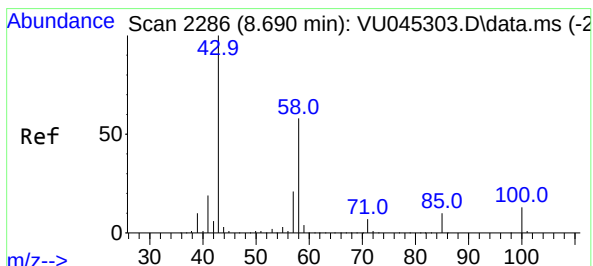
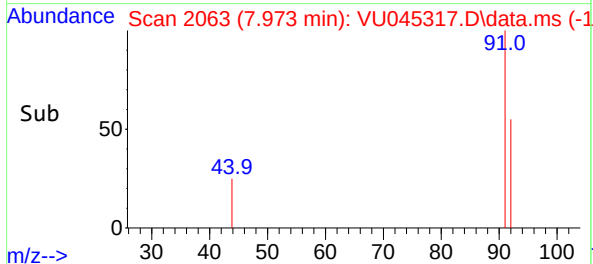
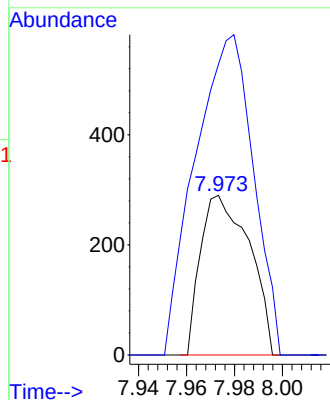
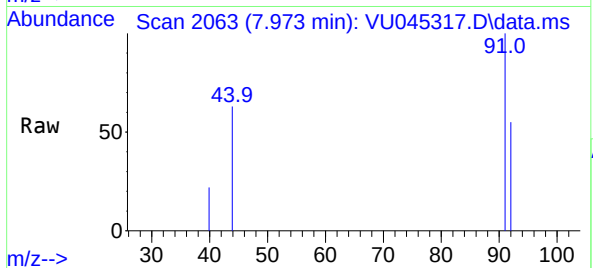
Acq: 15 Oct 2021 12:41

Tgt Ion: 92 Resp: 410

Ion Ratio Lower Upper

92 100

91 238.8 136.8 205.2#



#54

2-Hexanone

Concen: 0.18 ug/l

RT: 8.697 min Scan# 2288

Delta R.T. 0.007 min

Lab File: VU045317.D

Acq: 15 Oct 2021 12:41

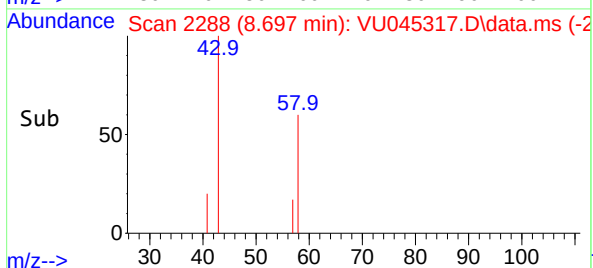
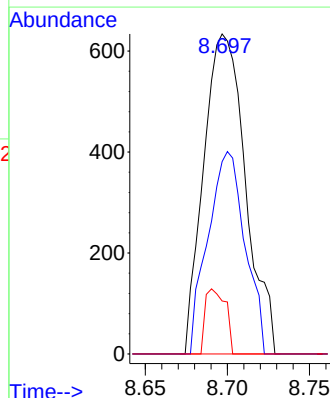
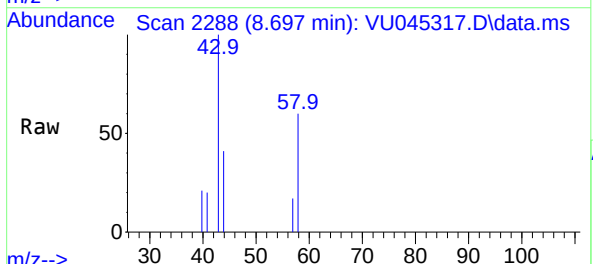
Tgt Ion: 43 Resp: 1125

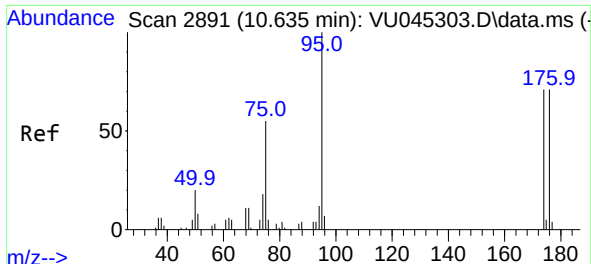
Ion Ratio Lower Upper

43 100

58 56.0 37.7 77.7

57 9.9 0.5 40.5

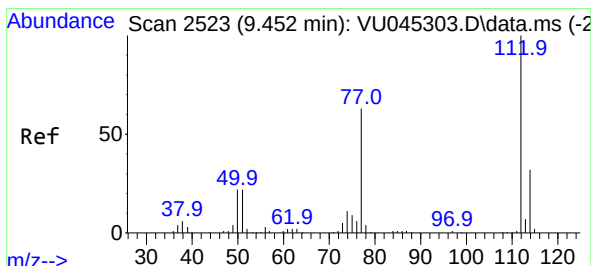
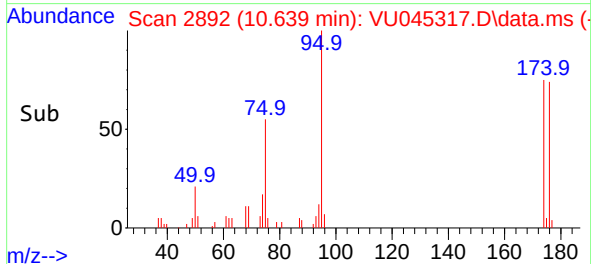
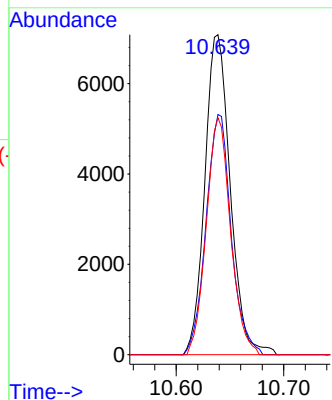
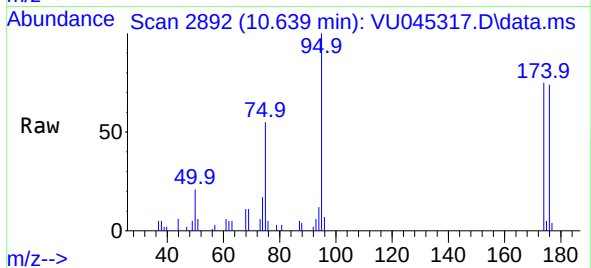




#57
4-Bromofluorobenzene
Concen: 0.81 ug/l
RT: 10.639 min Scan# 2892
Delta R.T. 0.003 min
Lab File: VU045317.D
Acq: 15 Oct 2021 12:41

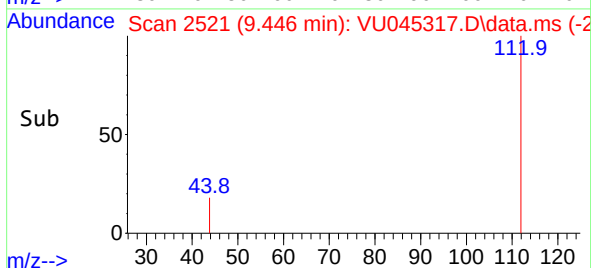
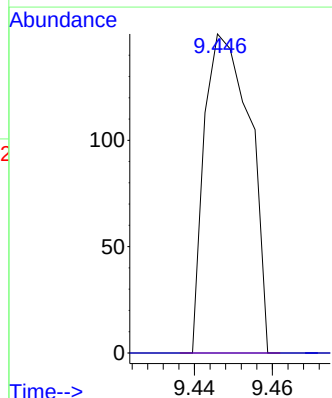
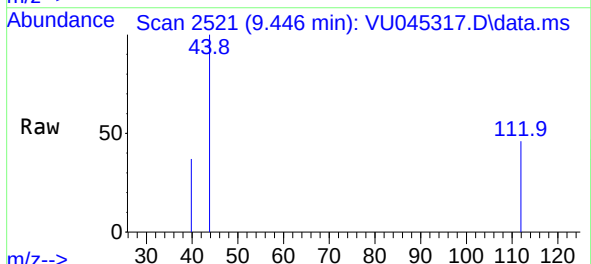
Instrument :
MSVOA_U
ClientSampleId :
VU1015WBL01

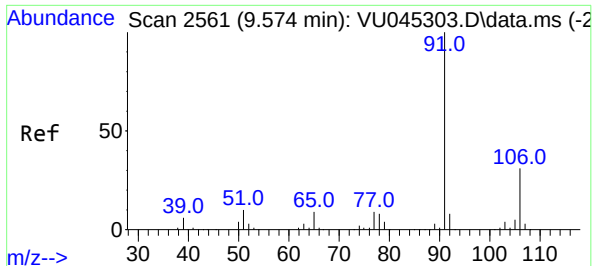
Tgt Ion: 95 Resp: 11652
Ion Ratio Lower Upper
95 100
174 74.2 56.6 84.8
176 70.5 54.3 81.5



#59
Chlorobenzene
Concen: 0.00 ug/l
RT: 9.446 min Scan# 2521
Delta R.T. -0.006 min
Lab File: VU045317.D
Acq: 15 Oct 2021 12:41

Tgt Ion: 112 Resp: 121
Ion Ratio Lower Upper
112 100
114 0.0 25.4 38.0#

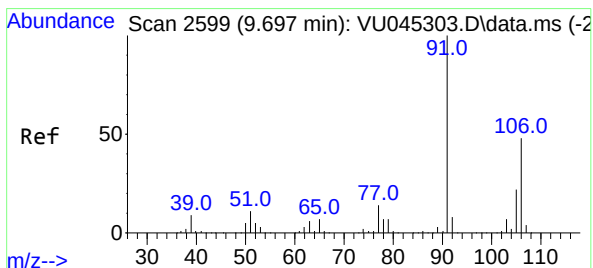
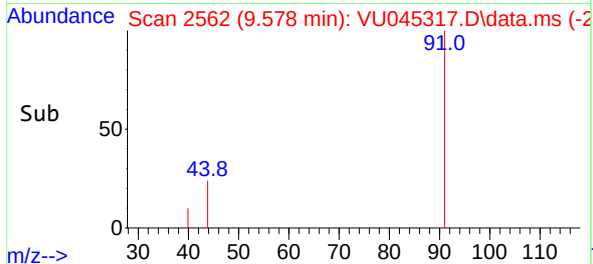
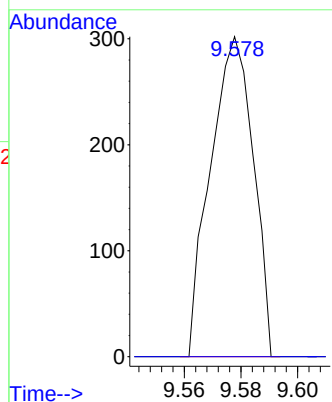
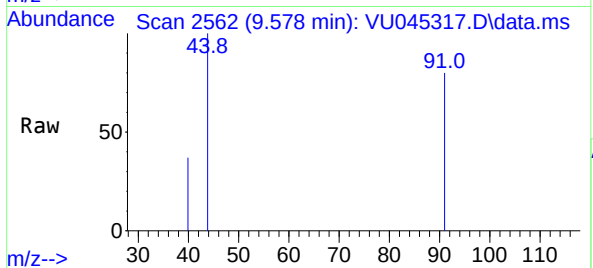




#63
Ethyl Benzene
Concen: 0.01 ug/l
RT: 9.578 min Scan# 2562
Delta R.T. 0.003 min
Lab File: VU045317.D
Acq: 15 Oct 2021 12:41

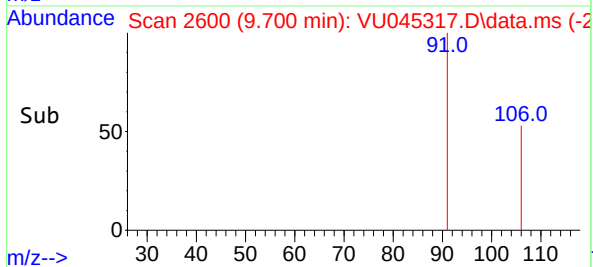
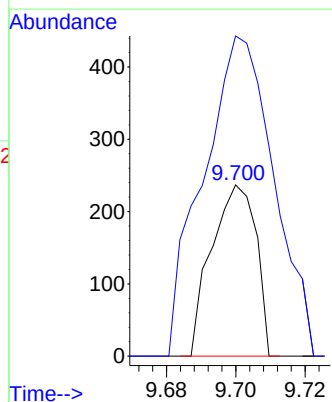
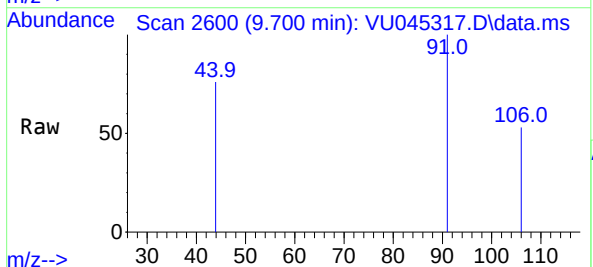
Instrument :
MSVOA_U
ClientSampleId :
VU1015WBL01

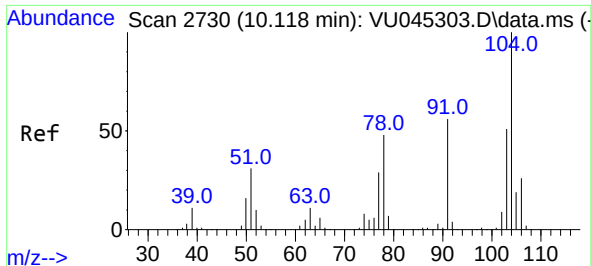
Tgt Ion: 91 Resp: 317
Ion Ratio Lower Upper
91 100
106 0.0 24.4 36.6#



#64
m/p-Xylenes
Concen: 0.01 ug/l
RT: 9.700 min Scan# 2600
Delta R.T. 0.003 min
Lab File: VU045317.D
Acq: 15 Oct 2021 12:41

Tgt Ion: 106 Resp: 212
Ion Ratio Lower Upper
106 100
91 296.2 165.5 248.3#

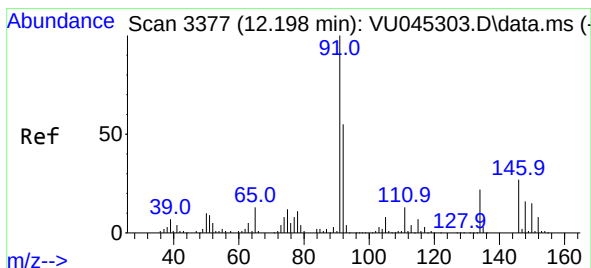
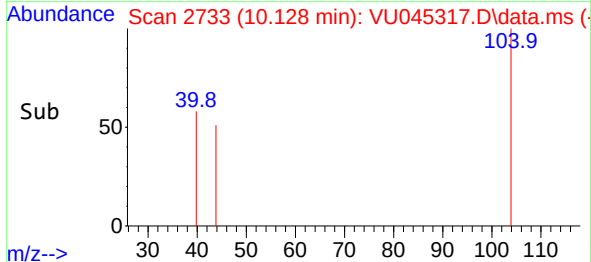
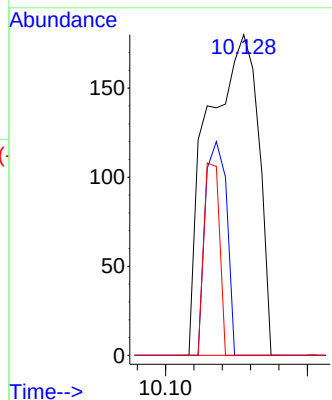
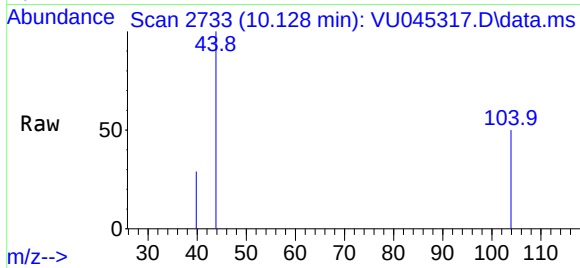




#66
Styrene
Concen: 0.01 ug/l
RT: 10.128 min Scan# 2733
Delta R.T. 0.010 min
Lab File: VU045317.D
Acq: 15 Oct 2021 12:41

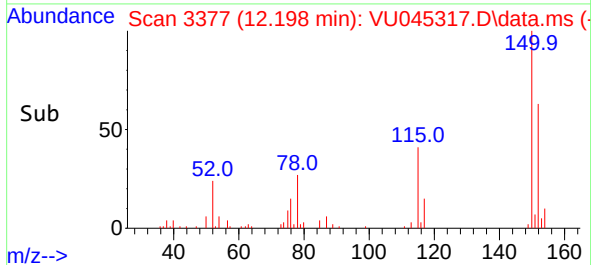
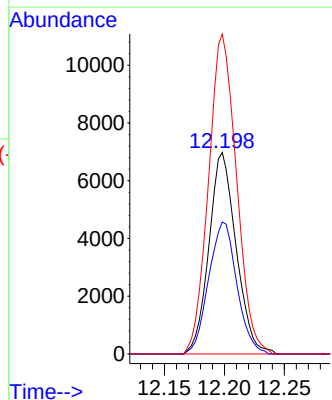
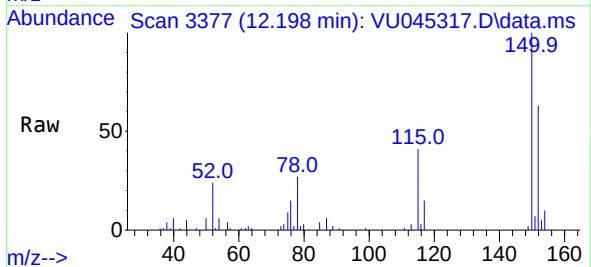
Instrument :
MSVOA_U
ClientSampleId :
VU1015WBL01

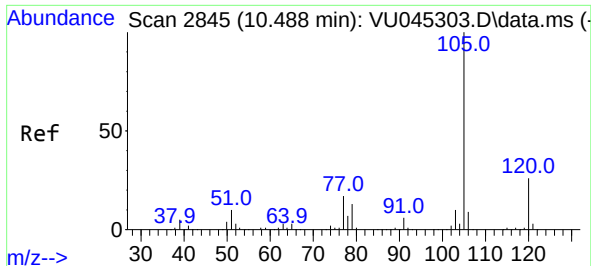
Tgt Ion:	104	Resp:	222
Ion	Ratio	Lower	Upper
104	100		
78	28.4	42.4	63.6#
103	18.5	44.2	66.4#



#68
1,2-Dichlorobenzene-d4
Concen: 0.81 ug/l
RT: 12.198 min Scan# 3377
Delta R.T. 0.000 min
Lab File: VU045317.D
Acq: 15 Oct 2021 12:41

Tgt Ion:	152	Resp:	10989
Ion	Ratio	Lower	Upper
152	100		
115	67.8	0.0	251.0
150	163.5	0.0	613.8

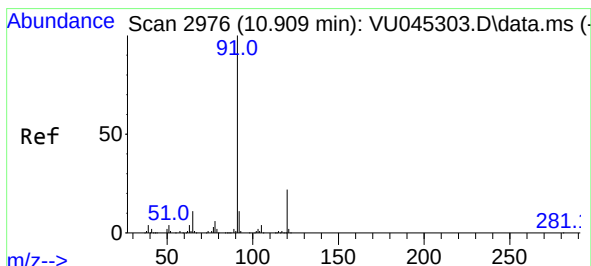
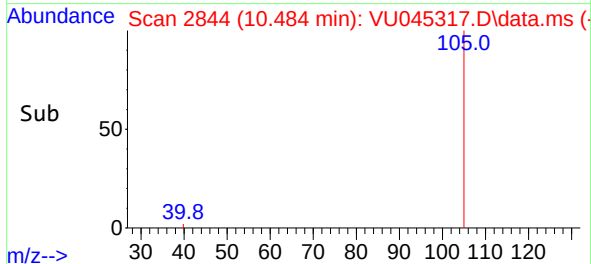
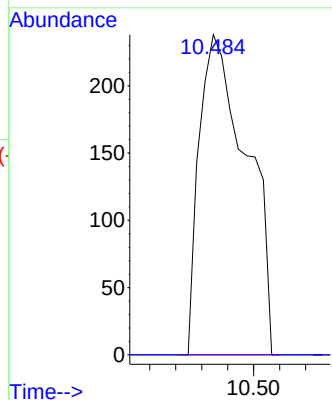
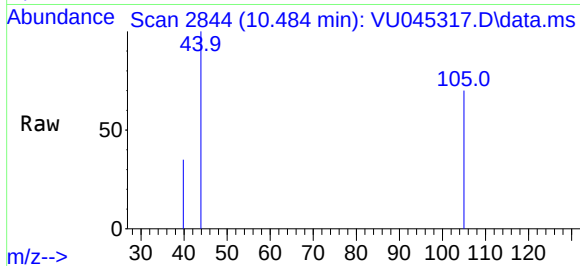




#69
Isopropylbenzene
Concen: 0.01 ug/l
RT: 10.484 min Scan# 2844
Delta R.T. -0.003 min
Lab File: VU045317.D
Acq: 15 Oct 2021 12:41

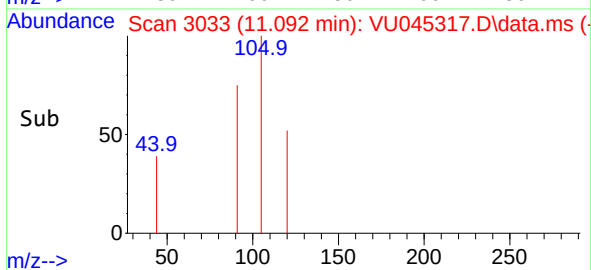
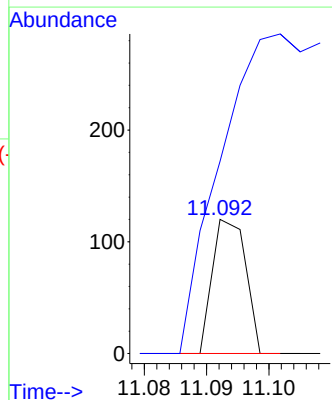
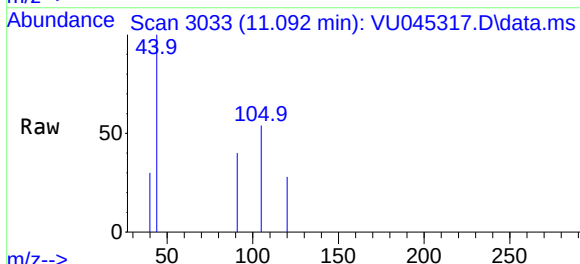
Instrument :
MSVOA_U
ClientSampleId :
VU1015WBL01

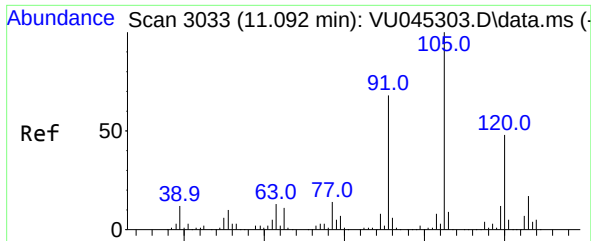
Tgt Ion:105 Resp: 302
Ion Ratio Lower Upper
105 100
120 0.0 12.8 38.4#



#73
n-propylbenzene
Concen: 0.00 ug/l
RT: 11.092 min Scan# 3033
Delta R.T. 0.183 min
Lab File: VU045317.D
Acq: 15 Oct 2021 12:41

Tgt Ion:120 Resp: 45
Ion Ratio Lower Upper
120 100
91 1188.9 370.7 556.1#

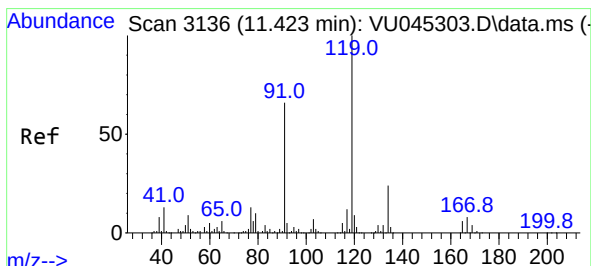
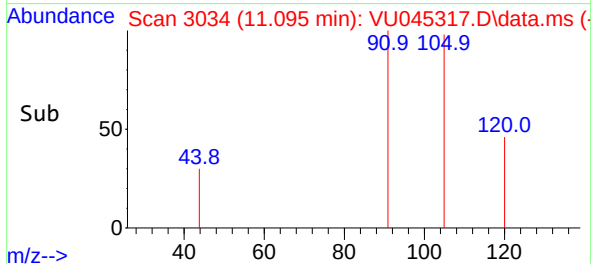
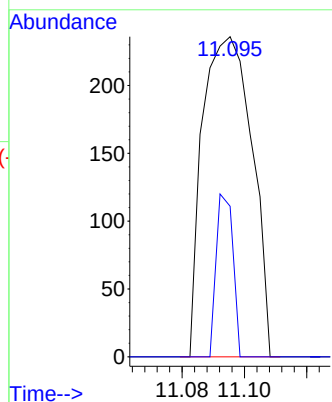
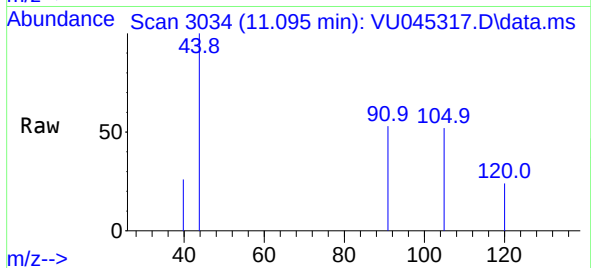




#75
1,3,5-Trimethylbenzene
Concen: 0.01 ug/l
RT: 11.095 min Scan# 3034
Delta R.T. 0.003 min
Lab File: VU045317.D
Acq: 15 Oct 2021 12:41

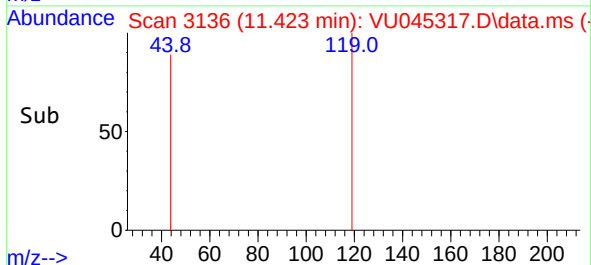
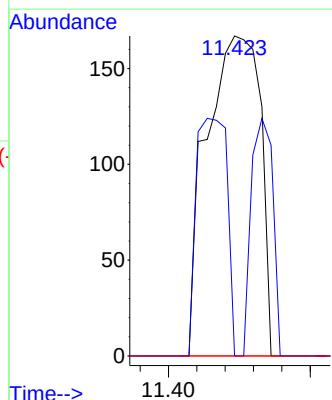
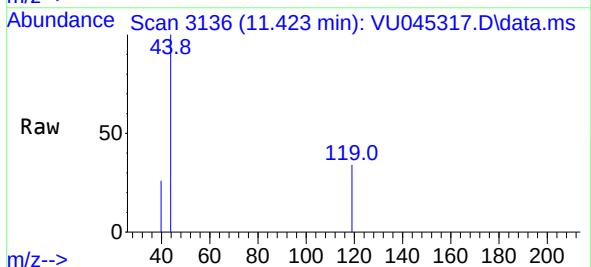
Instrument :
MSVOA_U
ClientSampleId :
VU1015WBL01

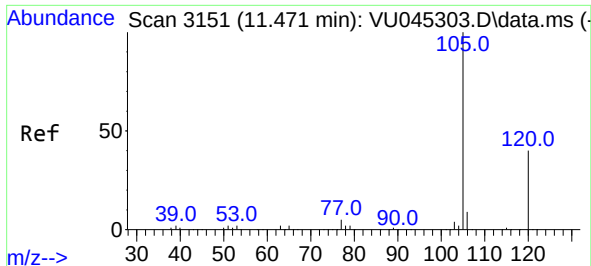
Tgt Ion:105 Resp: 259
Ion Ratio Lower Upper
105 100
120 17.4 38.6 58.0#



#77
tert-Butylbenzene
Concen: 0.01 ug/l
RT: 11.423 min Scan# 3136
Delta R.T. 0.000 min
Lab File: VU045317.D
Acq: 15 Oct 2021 12:41

Tgt Ion:119 Resp: 219
Ion Ratio Lower Upper
119 100
91 29.7 31.4 94.3#
134 0.0 18.5 27.7#

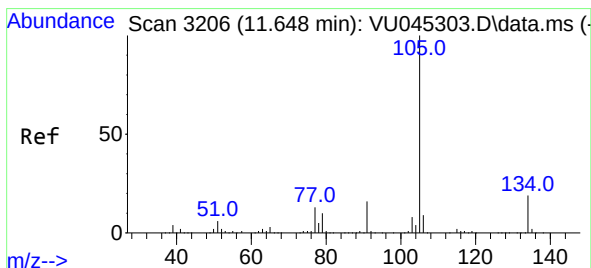
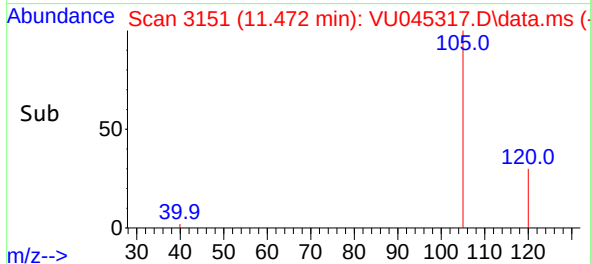
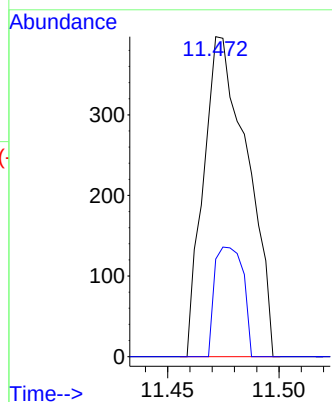
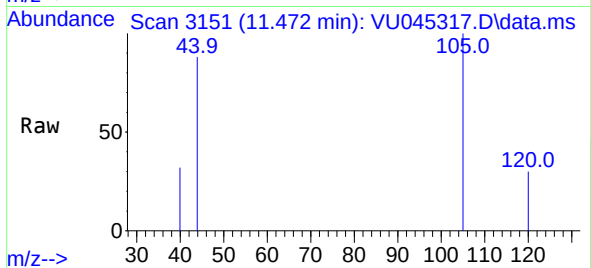




#78
1,2,4-Trimethylbenzene
Concen: 0.01 ug/l
RT: 11.472 min Scan# 3151
Delta R.T. 0.000 min
Lab File: VU045317.D
Acq: 15 Oct 2021 12:41

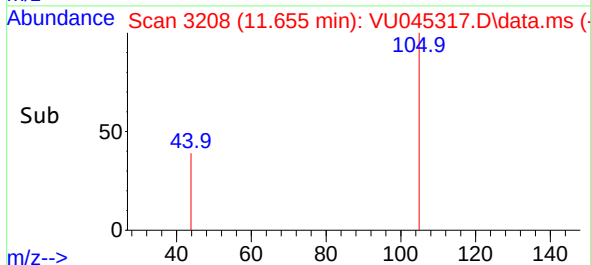
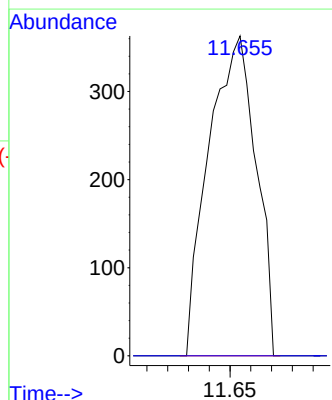
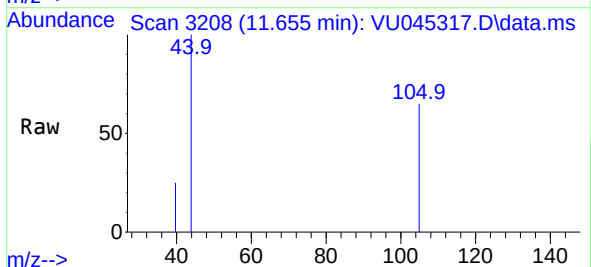
Instrument :
MSVOA_U
ClientSampleId :
VU1015WBL01

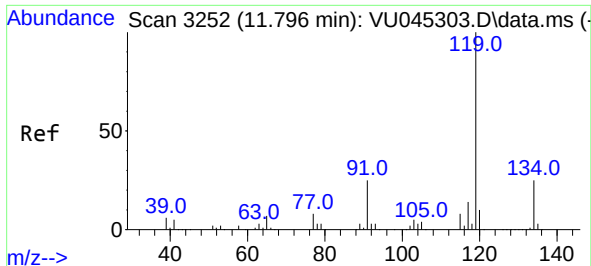
Tgt Ion:105 Resp: 541
Ion Ratio Lower Upper
105 100
120 22.2 22.3 66.8#



#79
sec-Butylbenzene
Concen: 0.01 ug/l
RT: 11.655 min Scan# 3208
Delta R.T. 0.007 min
Lab File: VU045317.D
Acq: 15 Oct 2021 12:41

Tgt Ion:105 Resp: 575
Ion Ratio Lower Upper
105 100
134 7.1 15.4 23.0#

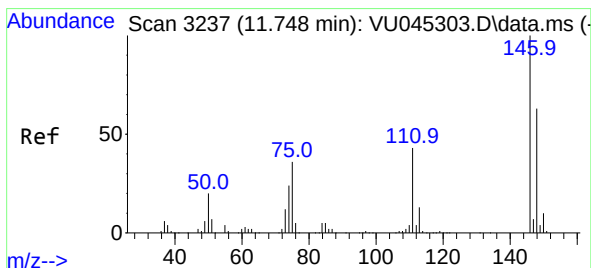
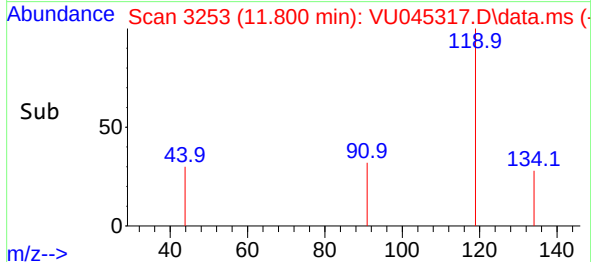
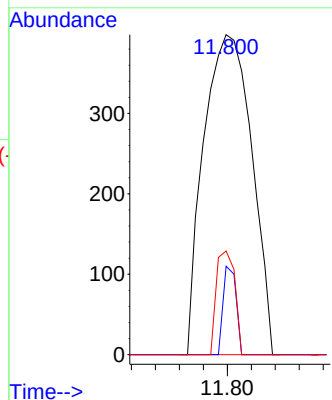
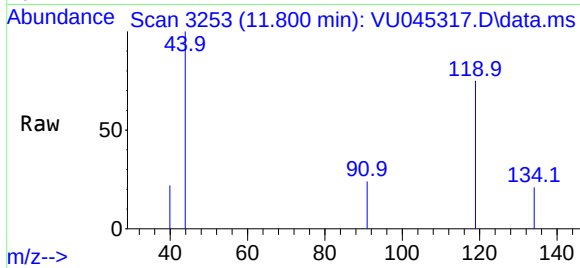




#81
p-Isopropyltoluene
Concen: 0.01 ug/l
RT: 11.800 min Scan# 3253
Delta R.T. 0.003 min
Lab File: VU045317.D
Acq: 15 Oct 2021 12:41

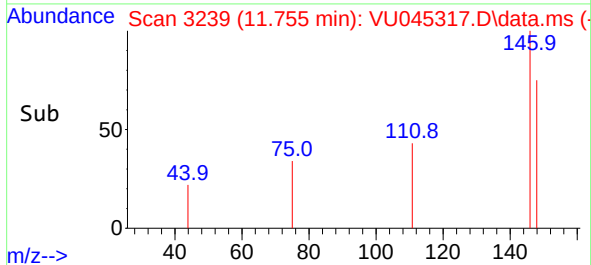
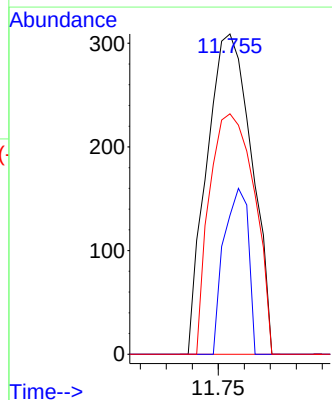
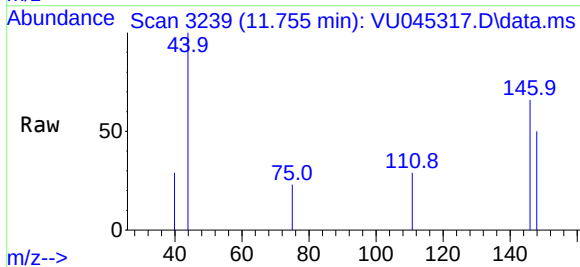
Instrument :
MSVOA_U
ClientSampleId :
VU1015WBL01

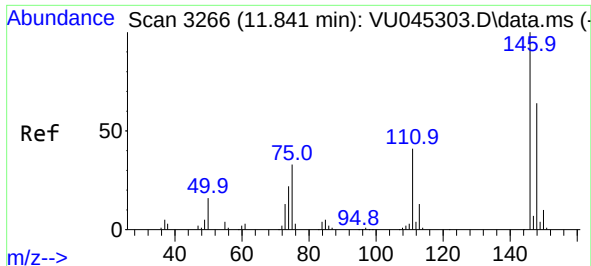
Tgt Ion:119 Resp: 553
Ion Ratio Lower Upper
119 100
134 7.4 20.2 30.4#
91 12.5 19.9 29.9#



#82
1,3-Dichlorobenzene
Concen: 0.02 ug/l
RT: 11.755 min Scan# 3239
Delta R.T. 0.007 min
Lab File: VU045317.D
Acq: 15 Oct 2021 12:41

Tgt Ion:146 Resp: 371
Ion Ratio Lower Upper
146 100
111 28.3 33.9 50.9#
148 74.9 50.9 76.3

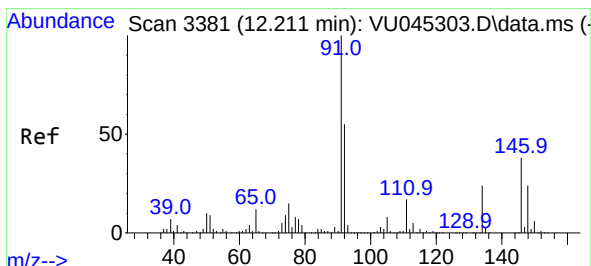
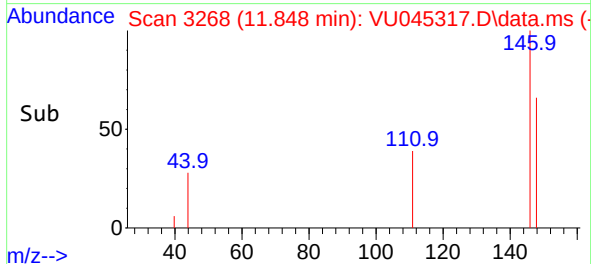
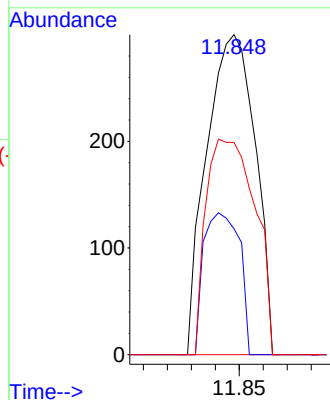
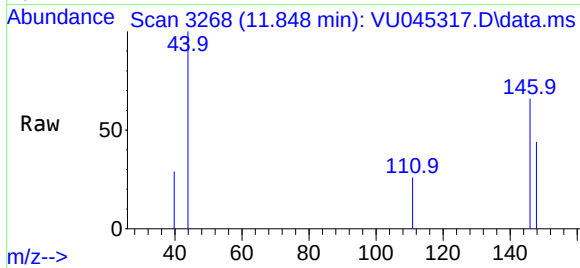




#83
1,4-Dichlorobenzene
Concen: 0.02 ug/l
RT: 11.848 min Scan# 3268
Delta R.T. 0.007 min
Lab File: VU045317.D
Acq: 15 Oct 2021 12:41

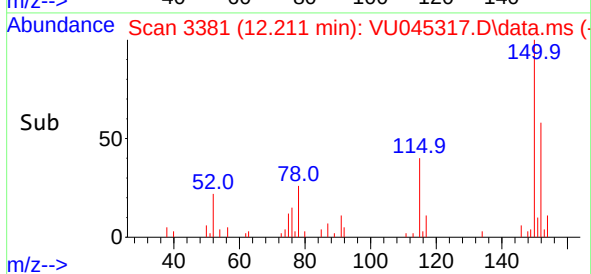
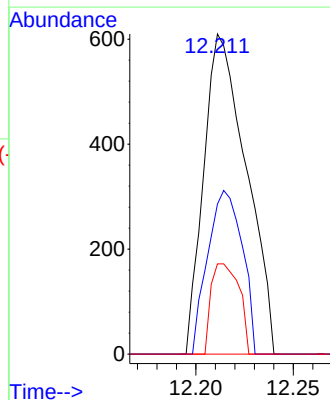
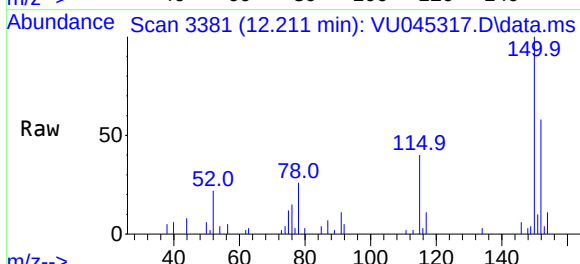
Instrument :
MSVOA_U
ClientSampleId :
VU1015WBL01

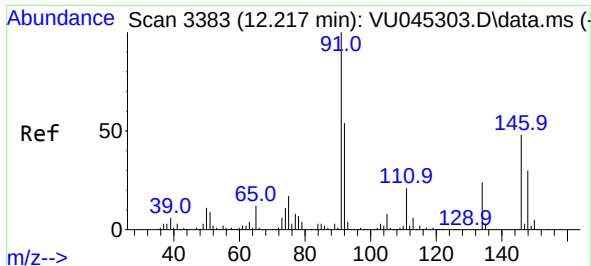
Tgt Ion:146 Resp: 423
Ion Ratio Lower Upper
146 100
111 32.6 32.7 49.1#
148 67.8 51.4 77.0



#84
n-Butylbenzene
Concen: 0.02 ug/l
RT: 12.211 min Scan# 3381
Delta R.T. 0.000 min
Lab File: VU045317.D
Acq: 15 Oct 2021 12:41

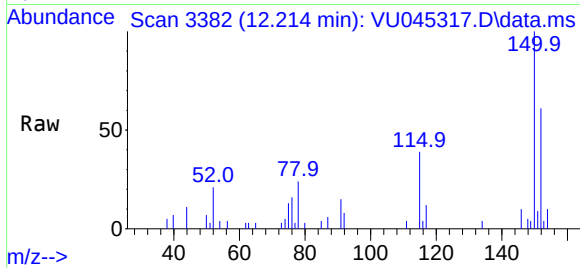
Tgt Ion: 91 Resp: 924
Ion Ratio Lower Upper
91 100
92 41.6 43.5 65.3#
134 18.5 19.0 28.4#





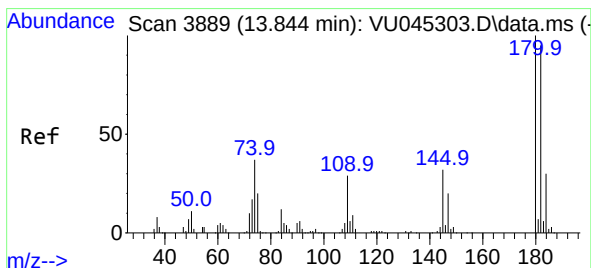
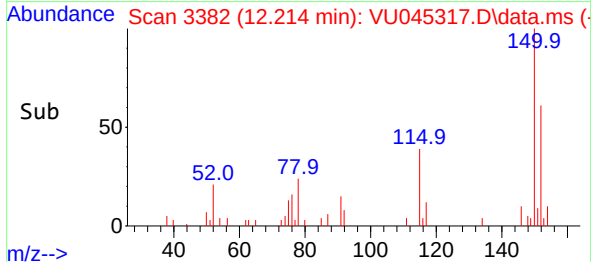
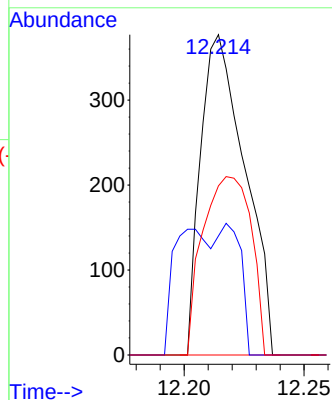
#85
 1,2-Dichlorobenzene
 Concen: 0.02 ug/l
 RT: 12.214 min Scan# 3382
 Delta R.T. -0.003 min
 Lab File: VU045317.D
 Acq: 15 Oct 2021 12:41

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1015WBL01

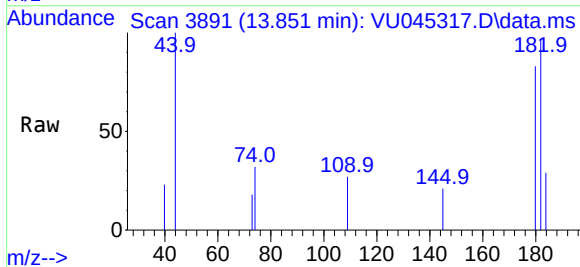


Tgt Ion:146 Resp: 484

Ion	Ratio	Lower	Upper
146	100		
111	32.6	22.1	66.1
148	60.7	31.6	94.7

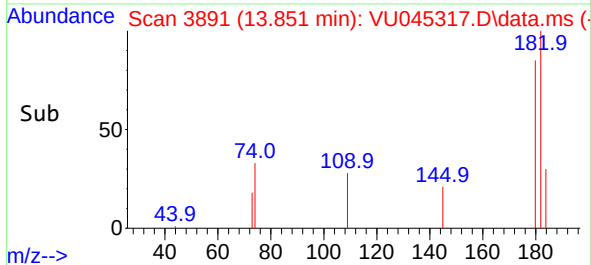
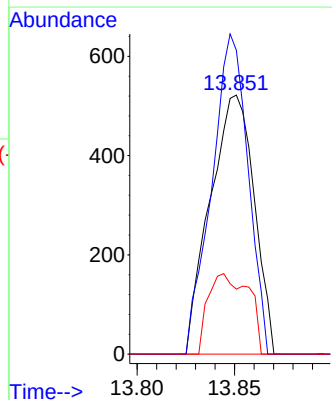


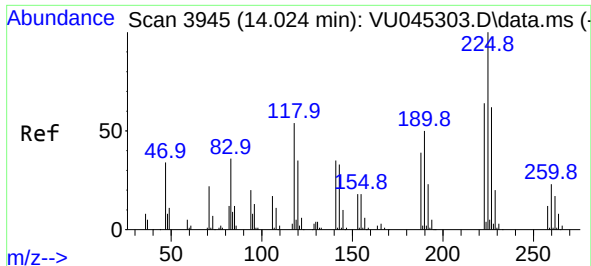
#87
 1,2,4-Trichlorobenzene
 Concen: 0.06 ug/l
 RT: 13.851 min Scan# 3891
 Delta R.T. 0.007 min
 Lab File: VU045317.D
 Acq: 15 Oct 2021 12:41



Tgt Ion:180 Resp: 819

Ion	Ratio	Lower	Upper
180	100		
182	102.0	75.8	113.8
145	28.6	25.3	37.9

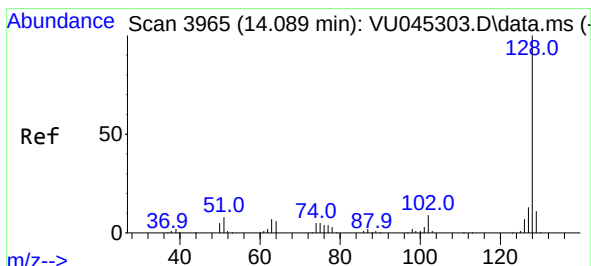
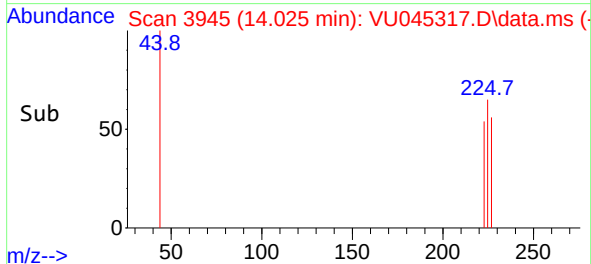
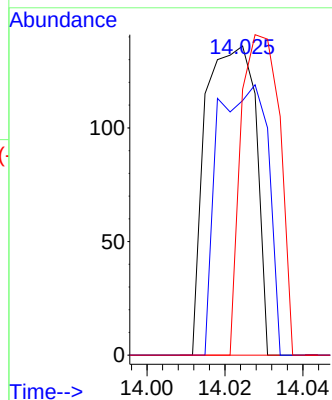
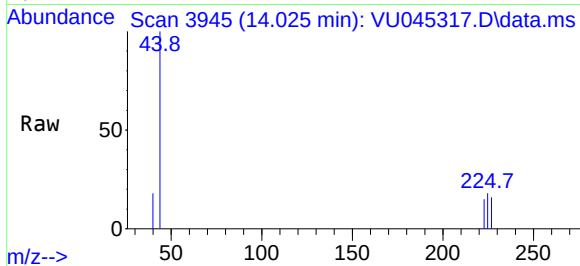




#88
Hexachlorobutadiene
Concen: 0.02 ug/l
RT: 14.025 min Scan# 3945
Delta R.T. 0.001 min
Lab File: VU045317.D
Acq: 15 Oct 2021 12:41

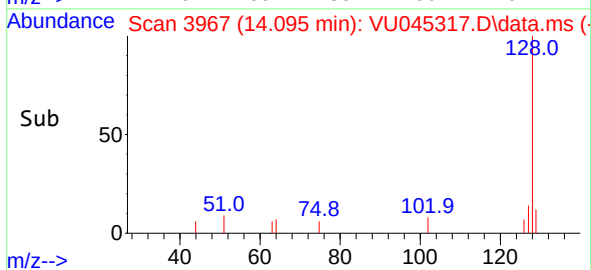
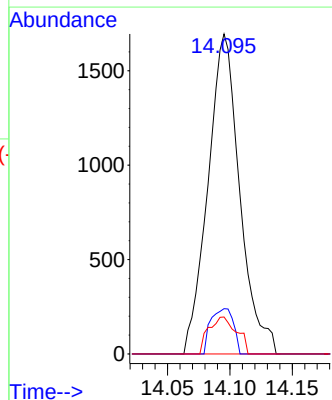
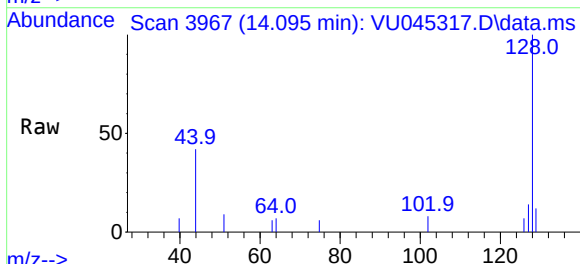
Instrument :
MSVOA_U
ClientSampleId :
VU1015WBL01

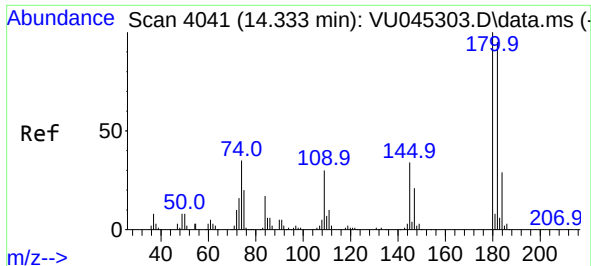
Tgt Ion:225 Resp: 121
Ion Ratio Lower Upper
225 100
223 87.6 51.1 76.7#
227 80.2 49.9 74.9#



#89
Naphthalene
Concen: 0.12 ug/l
RT: 14.095 min Scan# 3967
Delta R.T. 0.006 min
Lab File: VU045317.D
Acq: 15 Oct 2021 12:41

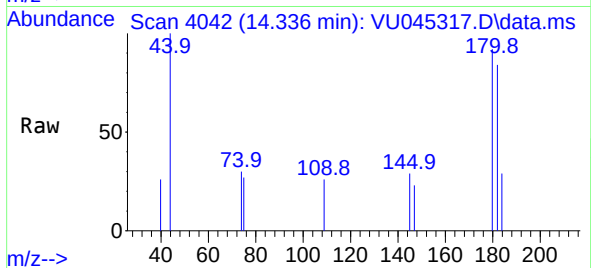
Tgt Ion:128 Resp: 3007
Ion Ratio Lower Upper
128 100
127 10.1 10.6 16.0#
129 10.1 8.6 13.0





#90
 1,2,3-Trichlorobenzene
 Concen: 0.08 ug/l
 RT: 14.336 min Scan# 4042
 Delta R.T. 0.003 min
 Lab File: VU045317.D
 Acq: 15 Oct 2021 12:41

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1015WBL01



Tgt Ion:180 Resp: 995
 Ion Ratio Lower Upper
 180 100
 182 84.6 75.4 113.0
 145 18.1 27.0 40.4#

