

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092921\
 Data File : VU045005.D
 Acq On : 29 Sep 2021 20:00
 Operator : SY/MD
 Sample : M3926-02 20X
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 22 Sample Multiplier: 1

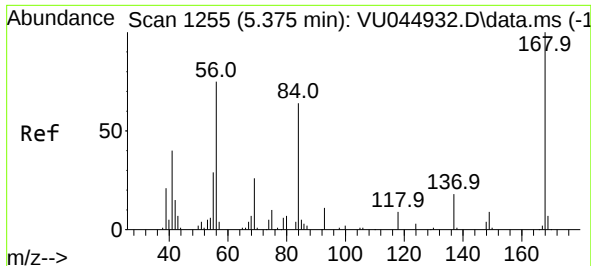
Instrument :
 MSVOA_U
 ClientSampleId :
 EP-1-MW-2-0921DL

Quant Time: Sep 30 04:33:56 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092821W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 28 12:32:13 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.379	168	204716	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.253	114	364347	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.420	117	342944	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.816	152	162382	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.707	65	161758	47.468	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	94.940%		
35) Dibromofluoromethane	5.295	113	112617	48.998	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	98.000%		
50) Toluene-d8	7.903	98	460298	50.686	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	101.380%		
62) 4-Bromofluorobenzene	10.636	95	168756	45.010	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	90.020%		
Target Compounds						Qvalue
4) Vinyl Chloride	1.475	62	821	0.250	ug/l #	1
5) Bromomethane	1.845	94	550	0.428	ug/l	96
11) Tert butyl alcohol	3.189	59	1993	2.038	ug/l #	72
16) Acetone	2.629	43	1066	0.527	ug/l	90
20) Methylene Chloride	3.051	84	837	0.275	ug/l	88
31) Cyclohexane	5.375	56	5449	1.053	ug/l #	1
36) 1,1-Dichloropropene	5.375	75	19185	5.035	ug/l #	49
38) Carbon Tetrachloride	5.379	117	20989	6.366	ug/l #	16
51) 4-Methyl-2-Pentanone	7.899	43	2043	0.370	ug/l #	1
56) Ethyl methacrylate	8.240	69	162	1.848	ug/l #	1
60) Dibromochloromethane	8.555	129	103	2.208	ug/l #	10
67) Ethyl Benzene	9.575	91	66220	5.005	ug/l	100
68) m/p-Xylenes	9.700	106	22541	4.385	ug/l	100
73) Isopropylbenzene	10.488	105	102924	8.511	ug/l	100
76) 1,2,3-Trichloropropane	10.636	75	92755	19.584	ug/l #	41
78) n-propylbenzene	10.909	91	203660	13.820	ug/l	100
79) 2-Chlorotoluene	11.002	91	6311	0.683	ug/l #	43
80) 1,3,5-Trimethylbenzene	11.092	105	47669	4.500	ug/l	99
81) trans-1,4-Dichloro-2-b...	10.636	75	92755	54.348	ug/l #	9
82) 4-Chlorotoluene	11.002	91	6311	0.604	ug/l #	47
83) tert-Butylbenzene	11.423	119	8476	0.823	ug/l	87
84) 1,2,4-Trimethylbenzene	11.472	105	828482	79.051	ug/l	99
85) sec-Butylbenzene	11.648	105	44038	3.319	ug/l	98
86) p-Isopropyltoluene	11.796	119	10760	1.008	ug/l	94
89) n-Butylbenzene	12.211	91	23366	2.377	ug/l #	69
90) Hexachloroethane	12.468	117	2971	1.541	ug/l #	15
95) Naphthalene	14.089	128	36399	3.038	ug/l	99

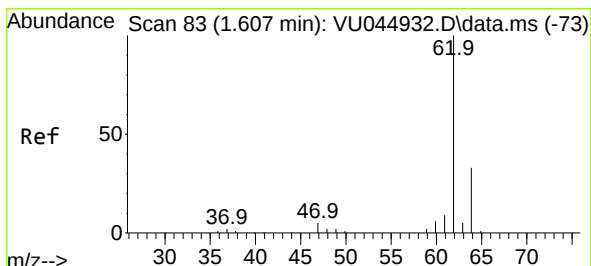
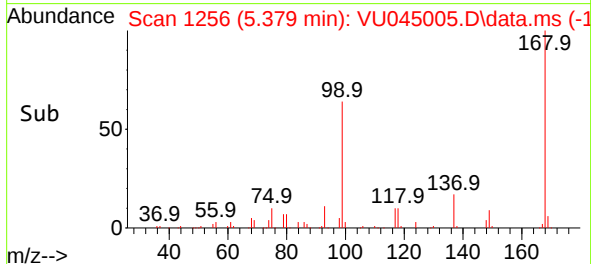
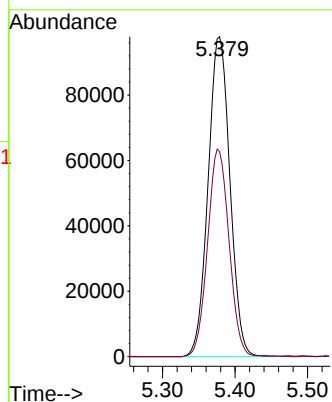
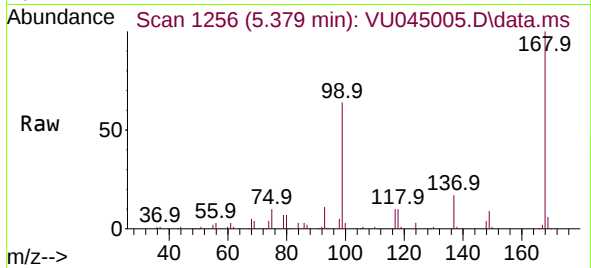
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.379 min Scan# 1256
Delta R.T. 0.004 min
Lab File: VU045005.D
Acq: 29 Sep 2021 20:00

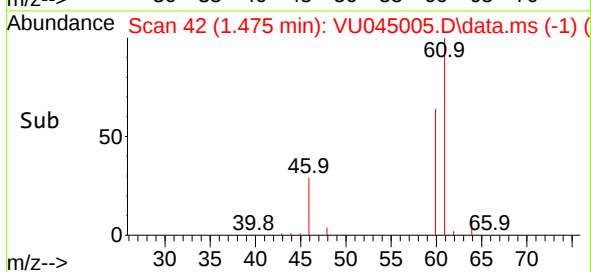
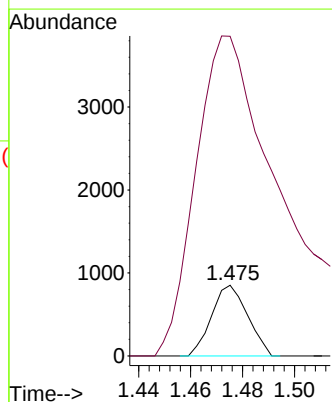
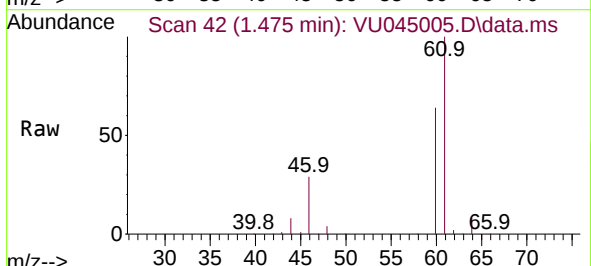
Instrument :
MSVOA_U
ClientSampleId :
EP-1-MW-2-0921DL

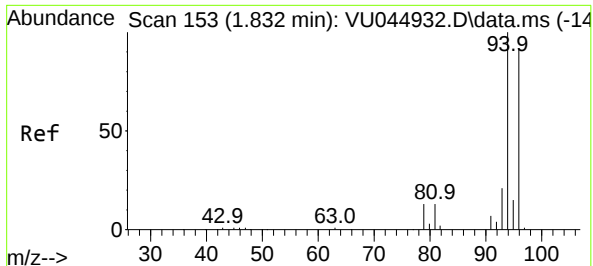
Tgt Ion:168 Resp: 204716
Ion Ratio Lower Upper
168 100
99 64.1 51.4 77.0



#4
Vinyl Chloride
Concen: 0.250 ug/l
RT: 1.475 min Scan# 42
Delta R.T. -0.132 min
Lab File: VU045005.D
Acq: 29 Sep 2021 20:00

Tgt Ion: 62 Resp: 821
Ion Ratio Lower Upper
62 100
64 347.4 25.6 38.4#

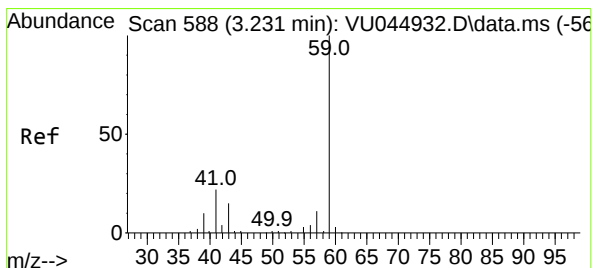
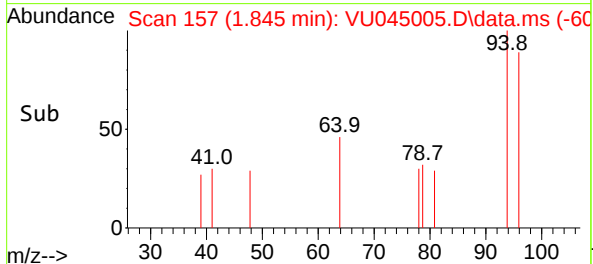
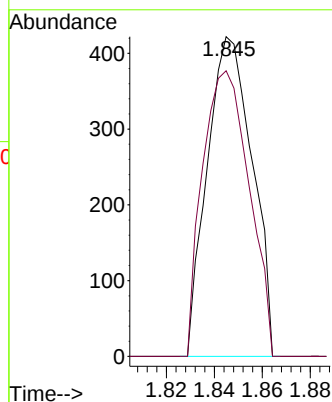
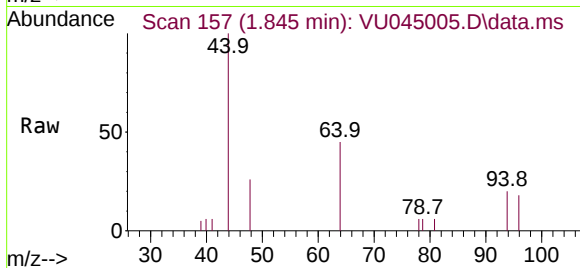




#5
Bromomethane
Concen: 0.428 ug/l
RT: 1.845 min Scan# 157
Delta R.T. 0.013 min
Lab File: VU045005.D
Acq: 29 Sep 2021 20:00

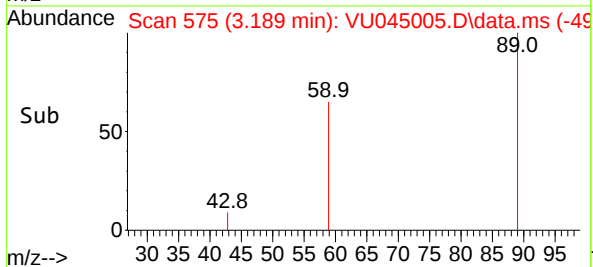
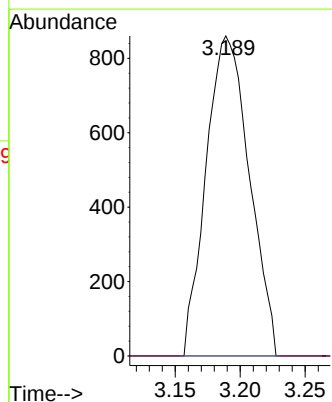
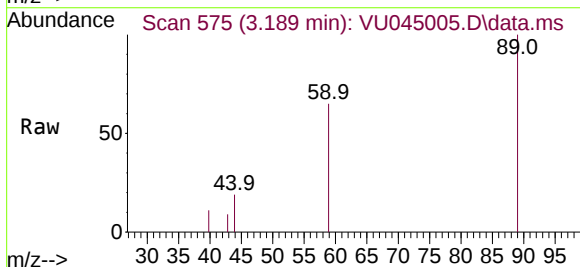
Instrument :
MSVOA_U
ClientSampleId :
EP-1-MW-2-0921DL

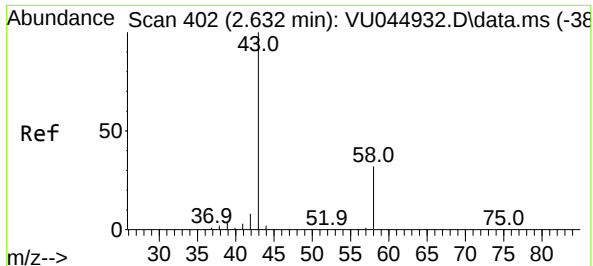
Tgt Ion: 94 Resp: 550
Ion Ratio Lower Upper
94 100
96 89.3 74.5 111.7



#11
Tert butyl alcohol
Concen: 2.038 ug/l
RT: 3.189 min Scan# 575
Delta R.T. -0.042 min
Lab File: VU045005.D
Acq: 29 Sep 2021 20:00

Tgt Ion: 59 Resp: 1993
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

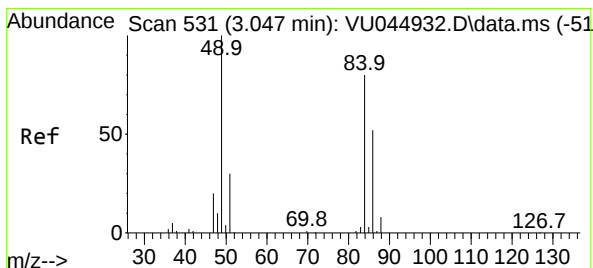
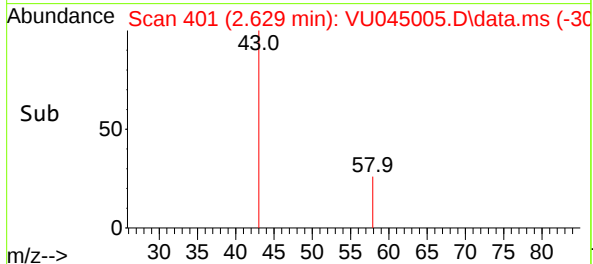
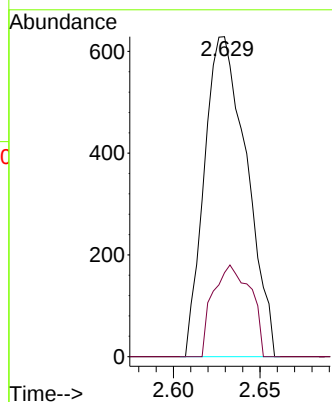
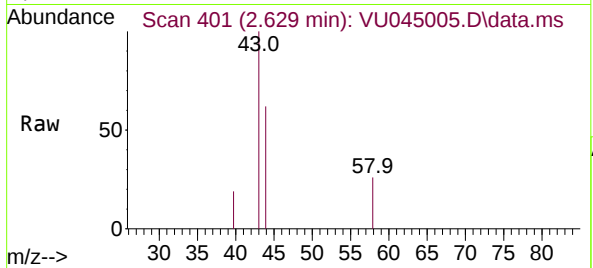




#16
Acetone
Concen: 0.527 ug/l
RT: 2.629 min Scan# 401
Delta R.T. -0.003 min
Lab File: VU045005.D
Acq: 29 Sep 2021 20:00

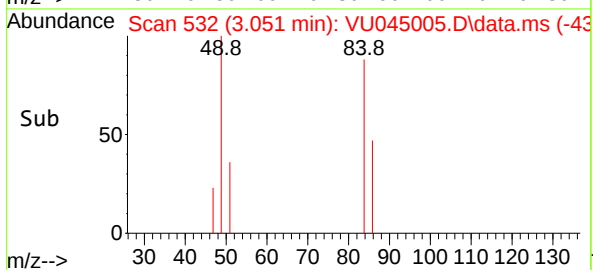
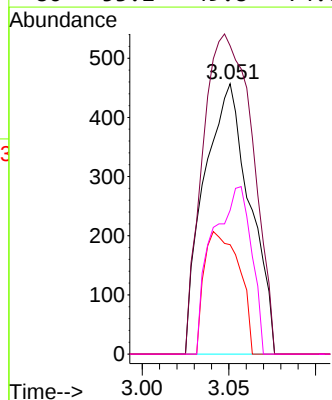
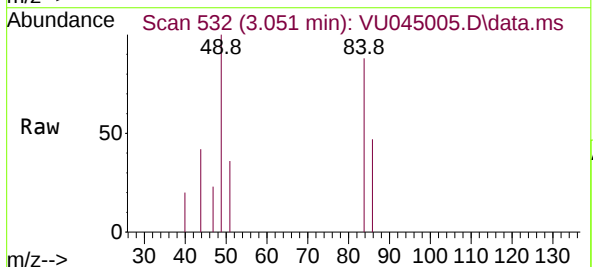
Instrument :
MSVOA_U
ClientSampleId :
EP-1-MW-2-0921DL

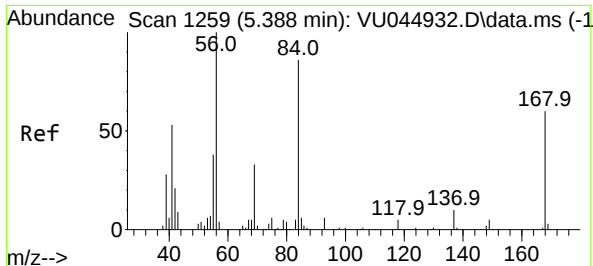
Tgt Ion: 43 Resp: 1066
Ion Ratio Lower Upper
43 100
58 26.2 25.2 37.8



#20
Methylene Chloride
Concen: 0.275 ug/l
RT: 3.051 min Scan# 532
Delta R.T. 0.004 min
Lab File: VU045005.D
Acq: 29 Sep 2021 20:00

Tgt Ion: 84 Resp: 837
Ion Ratio Lower Upper
84 100
49 114.0 104.9 157.3
51 40.5 31.8 47.8
86 53.2 49.8 74.6





#31

Cyclohexane

Concen: 1.053 ug/l

RT: 5.375 min Scan# 1255

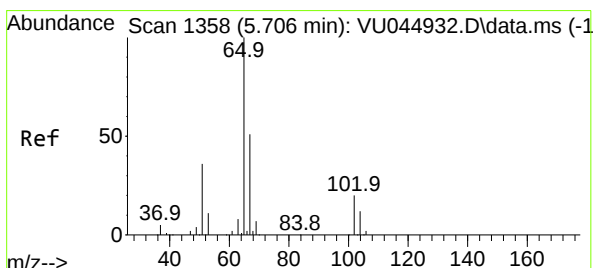
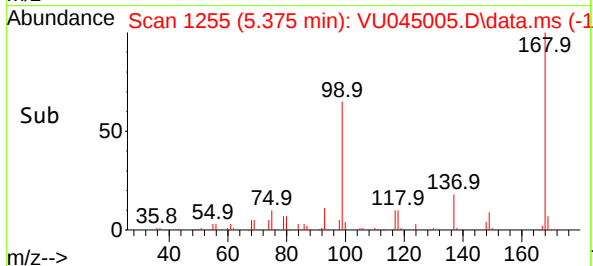
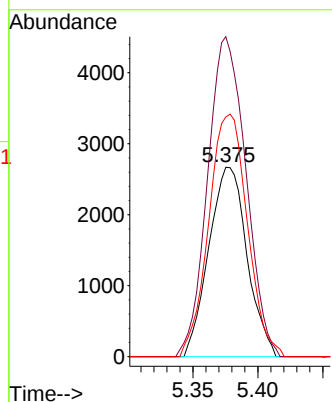
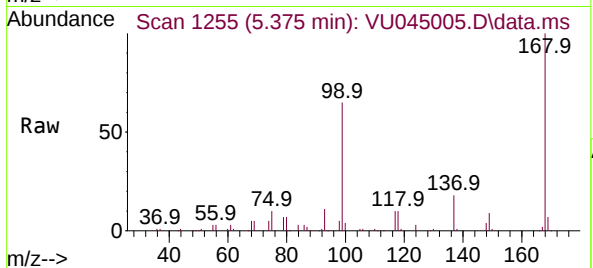
Delta R.T. -0.013 min

Lab File: VU045005.D

Acq: 29 Sep 2021 20:00

Tgt Ion:	56	Resp:	5449
Ion	Ratio	Lower	Upper
56	100		
69	169.0	25.2	37.8#
84	126.6	66.4	99.6#

Instrument :
MSVOA_U
ClientSampleId :
EP-1-MW-2-0921DL



#33

1,2-Dichloroethane-d4

Concen: 47.468 ug/l

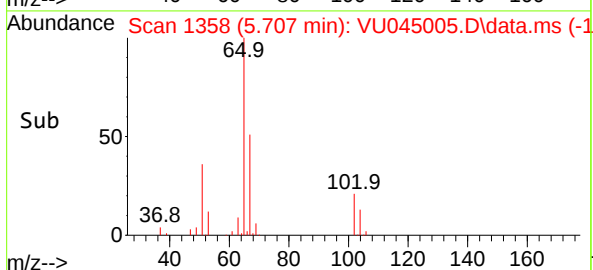
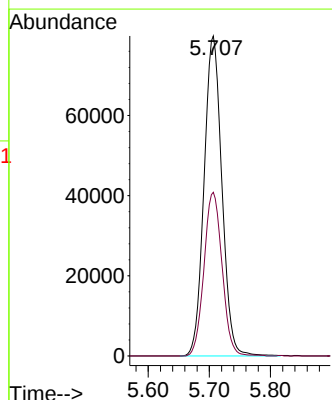
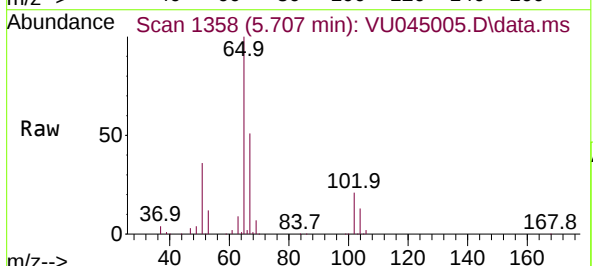
RT: 5.707 min Scan# 1358

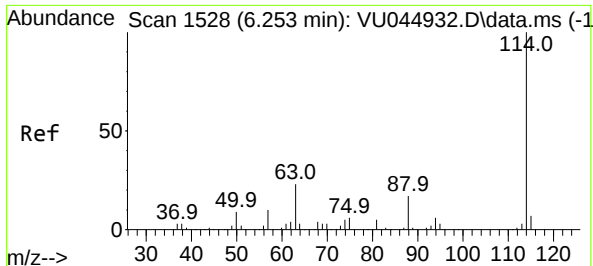
Delta R.T. 0.000 min

Lab File: VU045005.D

Acq: 29 Sep 2021 20:00

Tgt Ion:	65	Resp:	161758
Ion	Ratio	Lower	Upper
65	100		
67	51.8	0.0	104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.253 min Scan# 1528

Delta R.T. 0.000 min

Lab File: VU045005.D

Acq: 29 Sep 2021 20:00

Tgt Ion:114 Resp: 364347

Ion Ratio Lower Upper

114 100

63 22.8 0.0 47.8

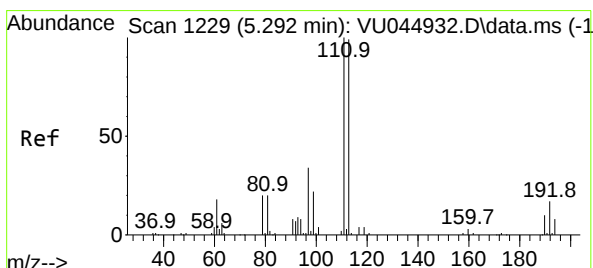
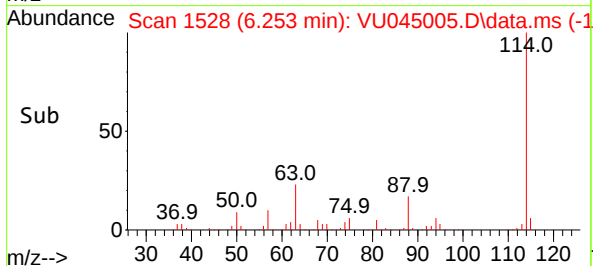
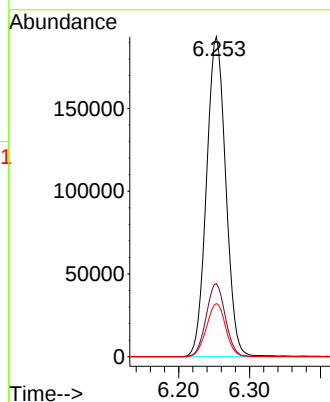
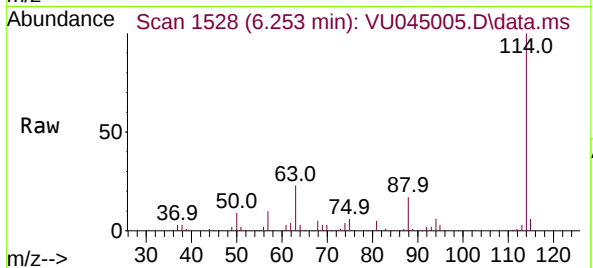
88 16.6 0.0 32.8

Instrument :

MSVOA_U

ClientSampleId :

EP-1-MW-2-0921DL



#35

Dibromofluoromethane

Concen: 48.998 ug/l

RT: 5.295 min Scan# 1230

Delta R.T. 0.003 min

Lab File: VU045005.D

Acq: 29 Sep 2021 20:00

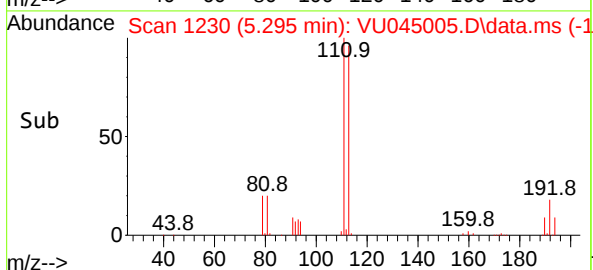
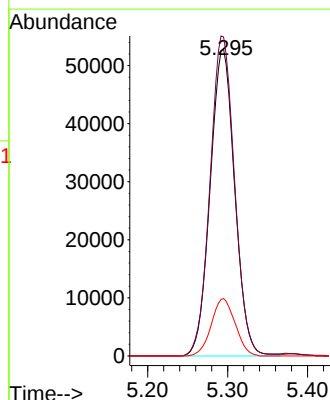
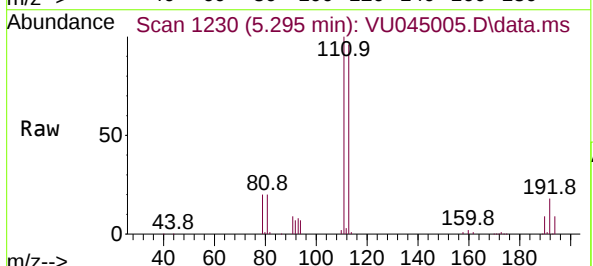
Tgt Ion:113 Resp: 112617

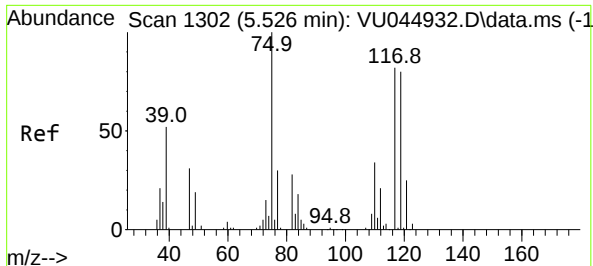
Ion Ratio Lower Upper

113 100

111 103.9 84.1 126.1

192 18.2 14.8 22.2





#36

1,1-Dichloropropene

Concen: 5.035 ug/l

RT: 5.375 min Scan# 1255

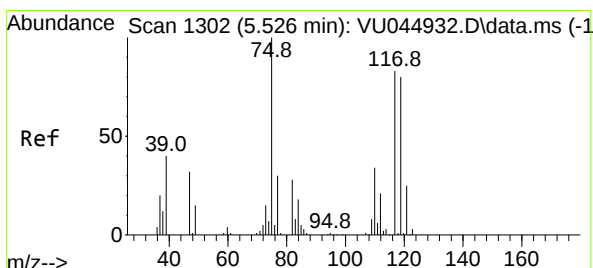
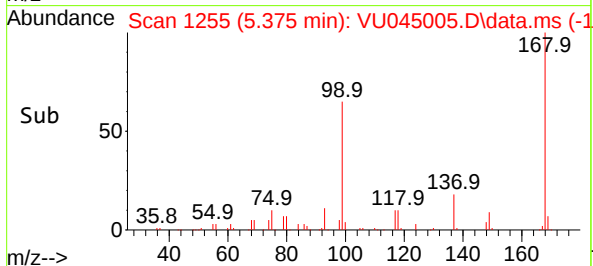
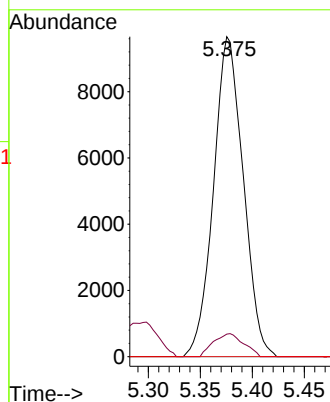
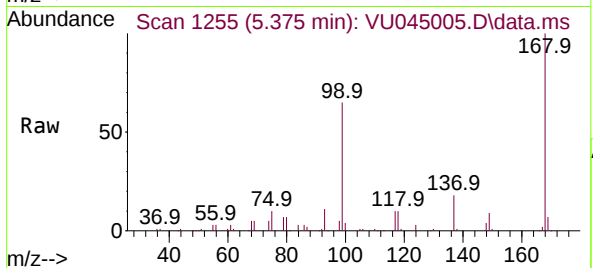
Delta R.T. -0.151 min

Lab File: VU045005.D

Acq: 29 Sep 2021 20:00

Tgt Ion:	75	Resp:	19185
Ion	Ratio	Lower	Upper
75	100		
110	7.3	16.3	48.9#
77	0.0	25.0	37.4#

Instrument :
MSVOA_U
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#38

Carbon Tetrachloride

Concen: 6.366 ug/l

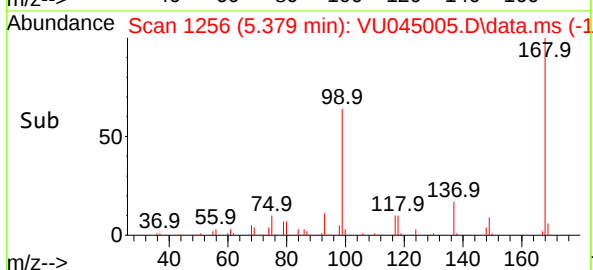
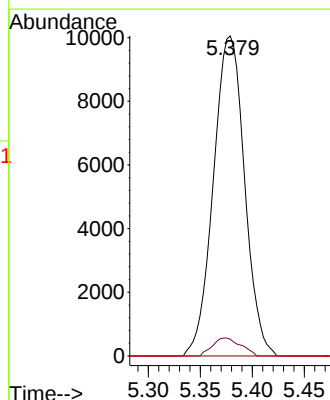
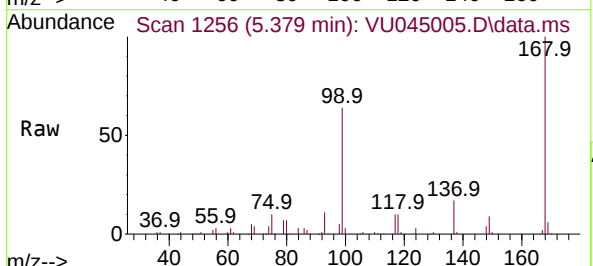
RT: 5.379 min Scan# 1256

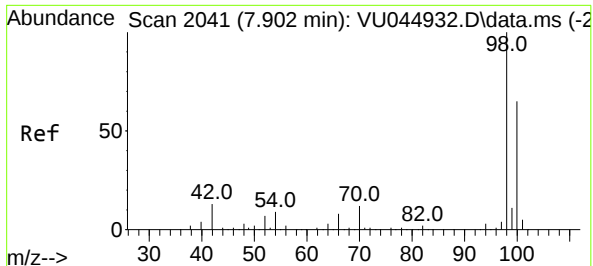
Delta R.T. -0.147 min

Lab File: VU045005.D

Acq: 29 Sep 2021 20:00

Tgt Ion:	117	Resp:	20989
Ion	Ratio	Lower	Upper
117	100		
119	5.2	77.4	116.2#
121	0.0	24.5	36.7#





#50

Toluene-d8

Concen: 50.686 ug/l

RT: 7.903 min Scan# 2041

Delta R.T. 0.001 min

Lab File: VU045005.D

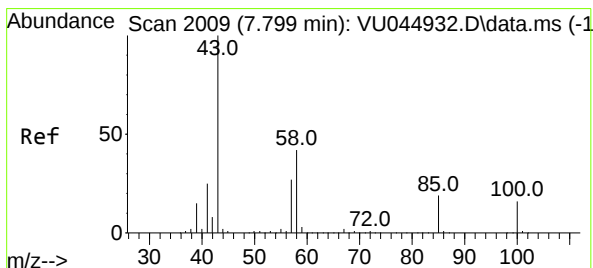
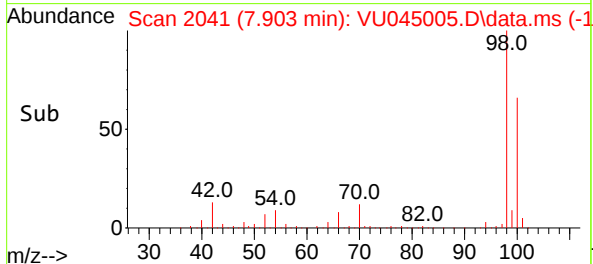
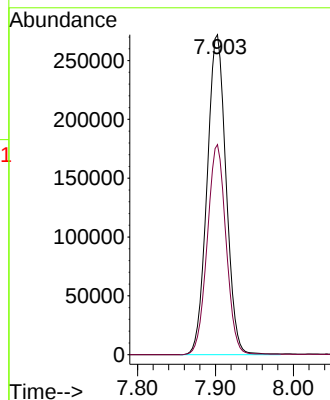
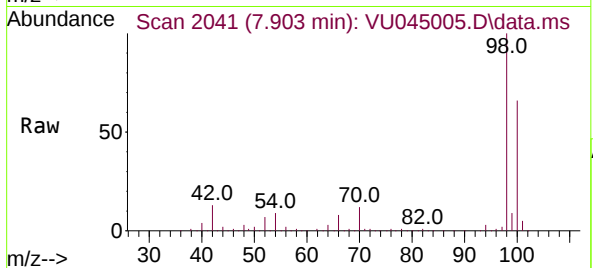
Acq: 29 Sep 2021 20:00

Tgt Ion: 98 Resp: 460298

Ion Ratio Lower Upper

98 100

100 65.0 52.5 78.7



#51

4-Methyl-2-Pentanone

Concen: 0.370 ug/l

RT: 7.899 min Scan# 2040

Delta R.T. 0.100 min

Lab File: VU045005.D

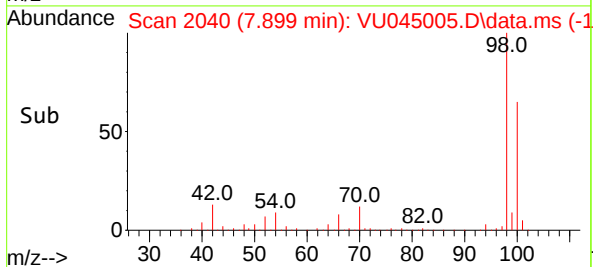
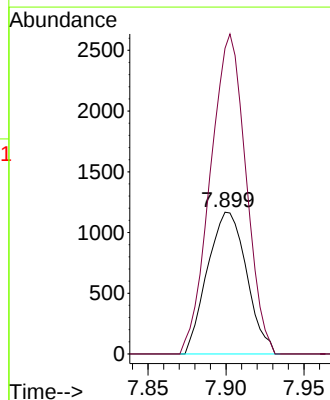
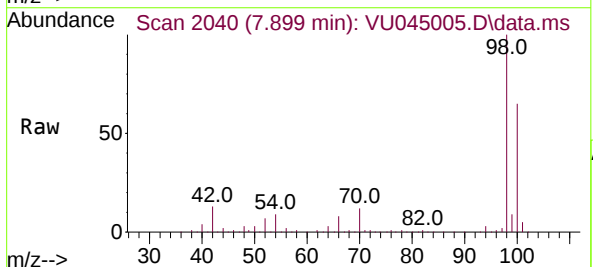
Acq: 29 Sep 2021 20:00

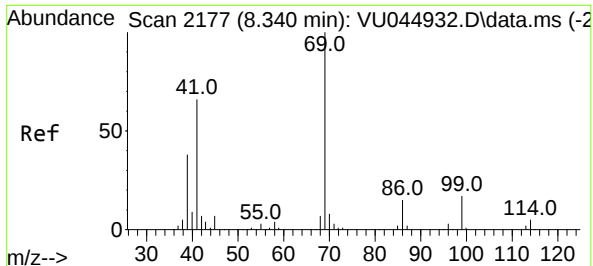
Tgt Ion: 43 Resp: 2043

Ion Ratio Lower Upper

43 100

58 205.0 32.4 48.6#

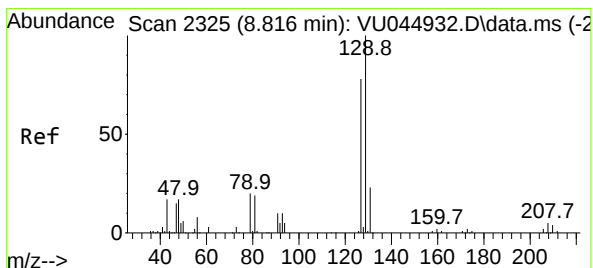
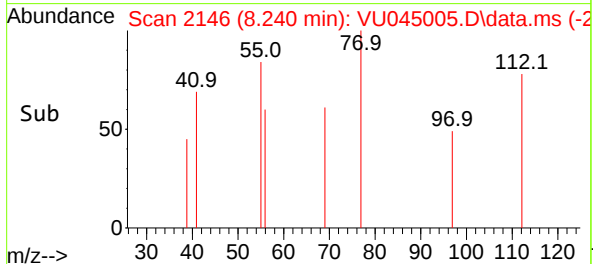
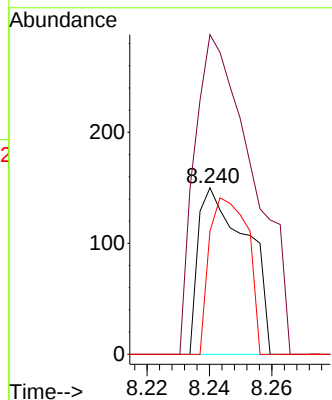
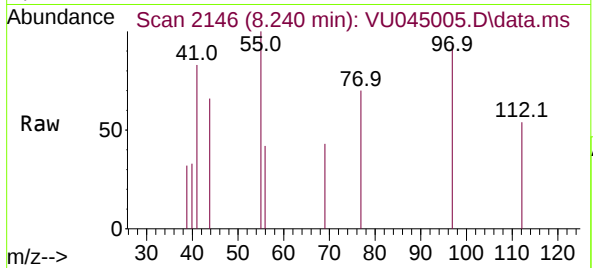




#56
Ethyl methacrylate
Concen: 1.848 ug/l
RT: 8.240 min Scan# 2146
Delta R.T. -0.100 min
Lab File: VU045005.D
Acq: 29 Sep 2021 20:00

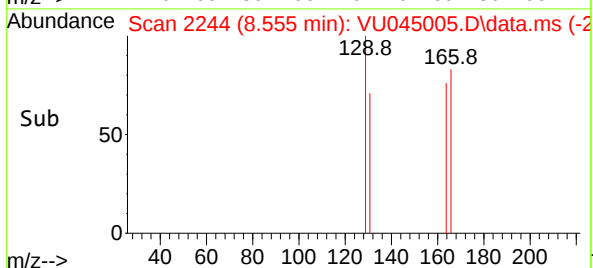
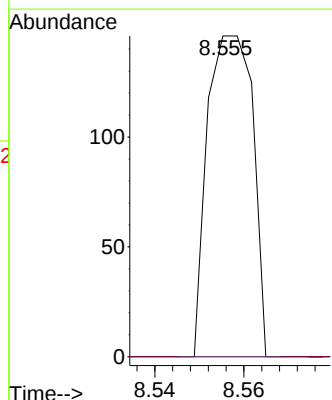
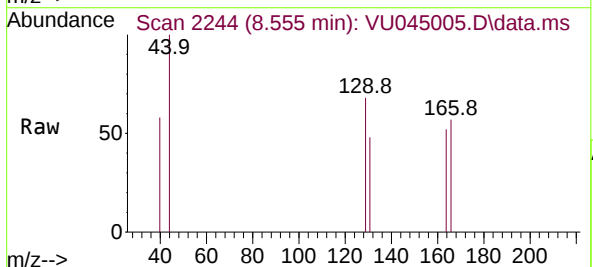
Instrument :
MSVOA_U
ClientSampleId :
EP-1-MW-2-0921DL

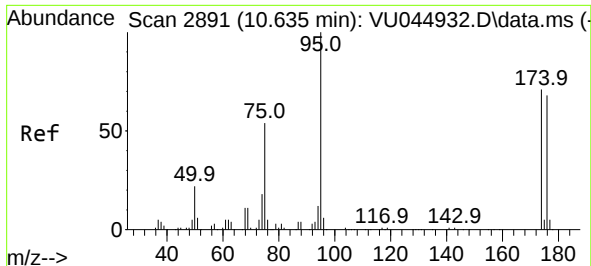
Tgt Ion: 69 Resp: 162
Ion Ratio Lower Upper
69 100
41 230.2 53.5 80.3#
39 74.7 31.1 46.7#



#60
Dibromochloromethane
Concen: 2.208 ug/l
RT: 8.555 min Scan# 2244
Delta R.T. -0.261 min
Lab File: VU045005.D
Acq: 29 Sep 2021 20:00

Tgt Ion: 129 Resp: 103
Ion Ratio Lower Upper
129 100
127 0.0 39.0 117.0#

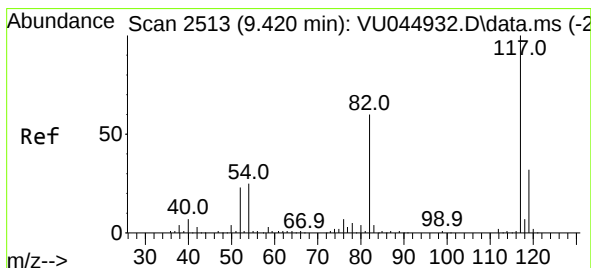
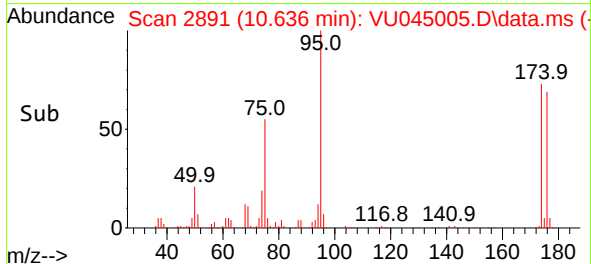
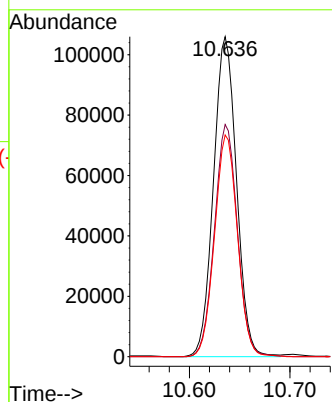
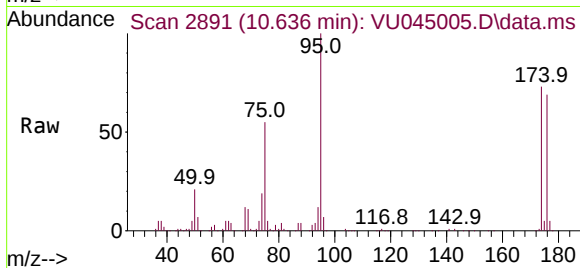




#62
4-Bromofluorobenzene
Concen: 45.010 ug/l
RT: 10.636 min Scan# 2891
Delta R.T. 0.001 min
Lab File: VU045005.D
Acq: 29 Sep 2021 20:00

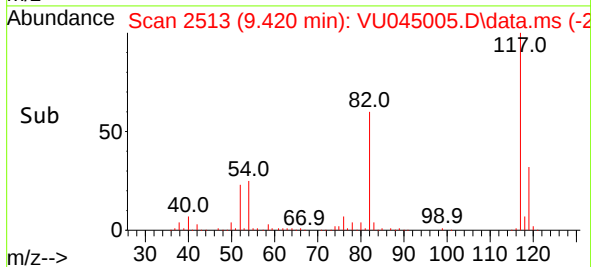
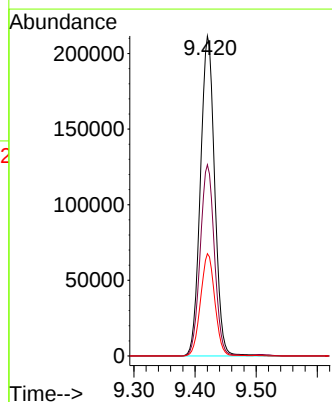
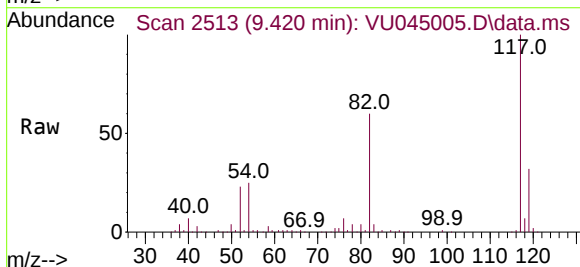
Instrument :
MSVOA_U
ClientSampleId :
EP-1-MW-2-0921DL

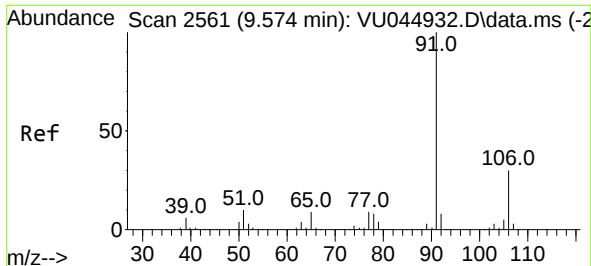
Tgt Ion: 95 Resp: 168756
Ion Ratio Lower Upper
95 100
174 72.3 0.0 146.6
176 69.0 0.0 141.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.420 min Scan# 2513
Delta R.T. 0.000 min
Lab File: VU045005.D
Acq: 29 Sep 2021 20:00

Tgt Ion: 117 Resp: 342944
Ion Ratio Lower Upper
117 100
82 59.8 47.8 71.8
119 32.0 25.8 38.6





#67

Ethyl Benzene

Concen: 5.005 ug/l

RT: 9.575 min Scan# 2561

Delta R.T. 0.001 min

Lab File: VU045005.D

Acq: 29 Sep 2021 20:00

Tgt Ion: 91 Resp: 66220

Ion Ratio Lower Upper

91 100

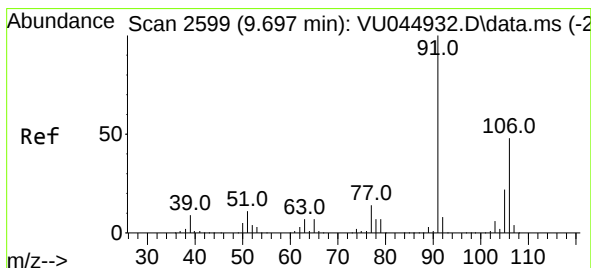
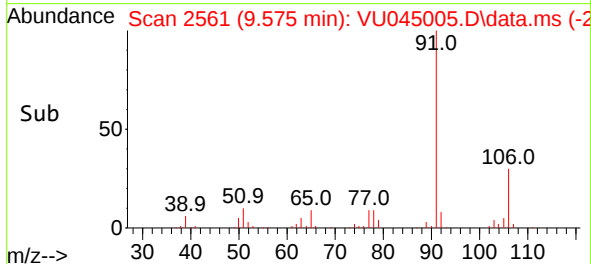
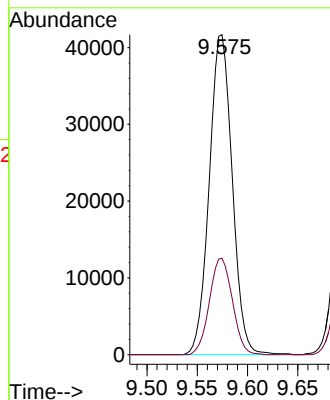
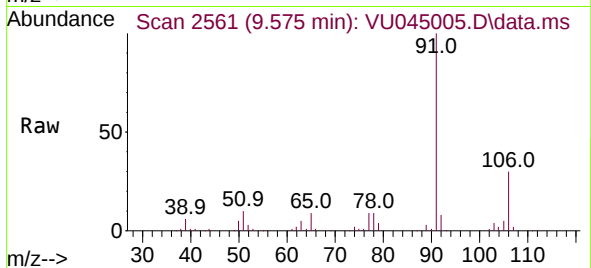
106 30.1 24.3 36.5

Instrument :

MSVOA_U

ClientSampleId :

EP-1-MW-2-0921DL



#68

m/p-Xylenes

Concen: 4.385 ug/l

RT: 9.700 min Scan# 2600

Delta R.T. 0.003 min

Lab File: VU045005.D

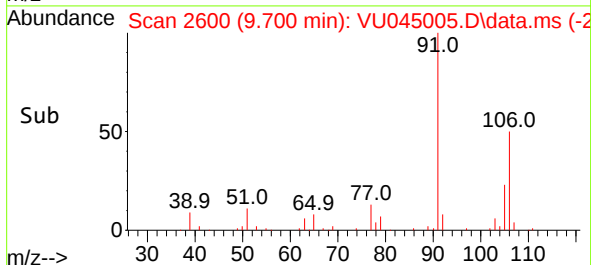
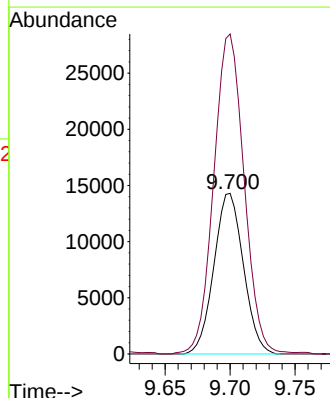
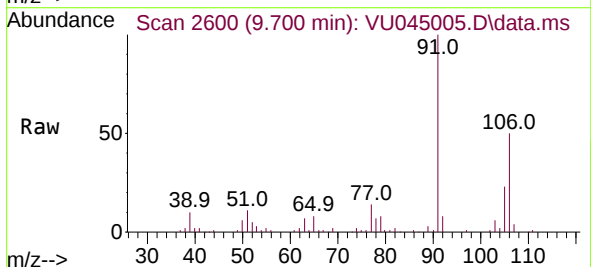
Acq: 29 Sep 2021 20:00

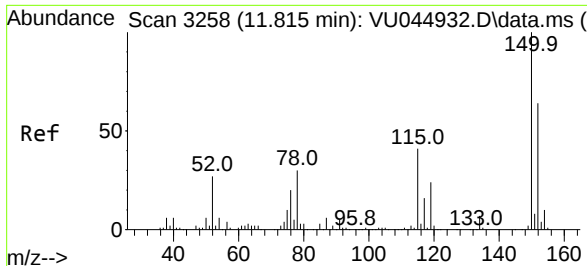
Tgt Ion:106 Resp: 22541

Ion Ratio Lower Upper

106 100

91 205.0 164.2 246.2

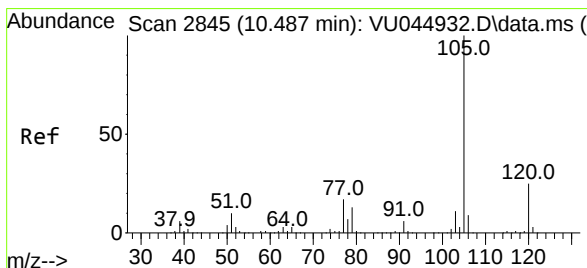
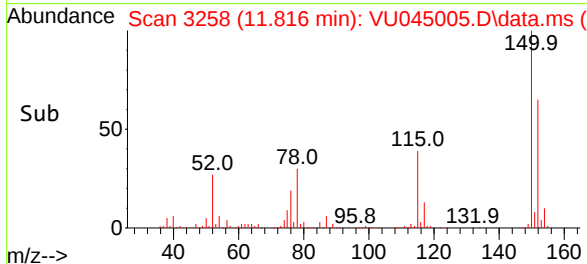
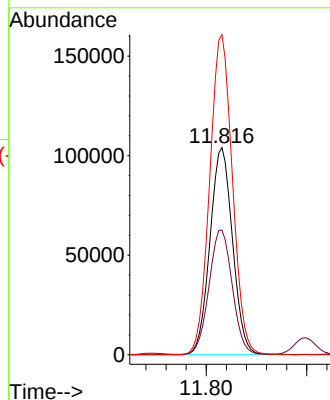
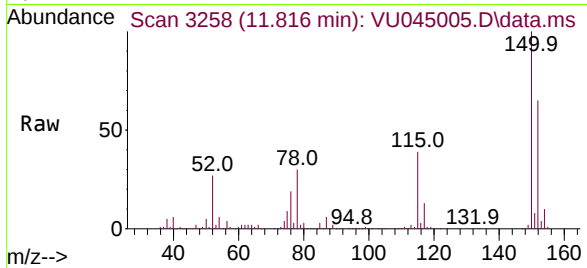




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.816 min Scan# 3258
 Delta R.T. 0.001 min
 Lab File: VU045005.D
 Acq: 29 Sep 2021 20:00

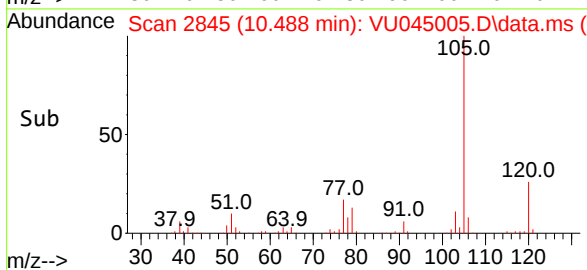
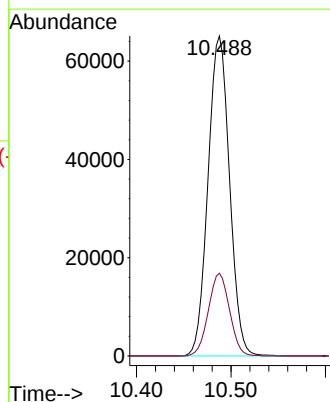
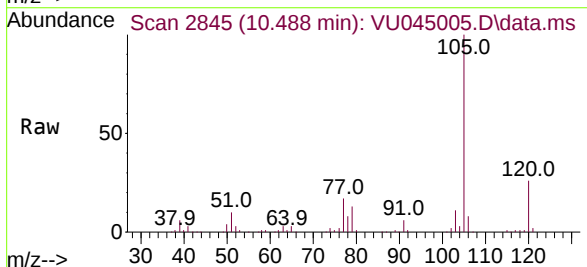
Instrument :
 MSVOA_U
 ClientSampleId :
 EP-1-MW-2-0921DL

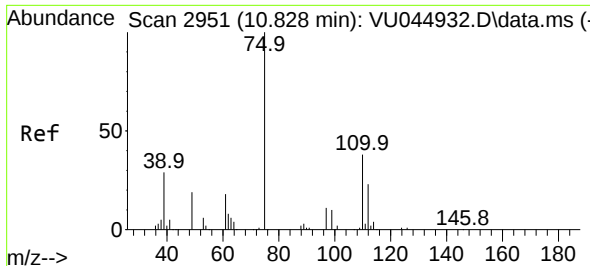
Tgt Ion:152 Resp: 162382
 Ion Ratio Lower Upper
 152 100
 115 61.6 43.5 130.7
 150 155.3 0.0 350.0



#73
 Isopropylbenzene
 Concen: 8.511 ug/l
 RT: 10.488 min Scan# 2845
 Delta R.T. 0.001 min
 Lab File: VU045005.D
 Acq: 29 Sep 2021 20:00

Tgt Ion:105 Resp: 102924
 Ion Ratio Lower Upper
 105 100
 120 25.4 12.8 38.3

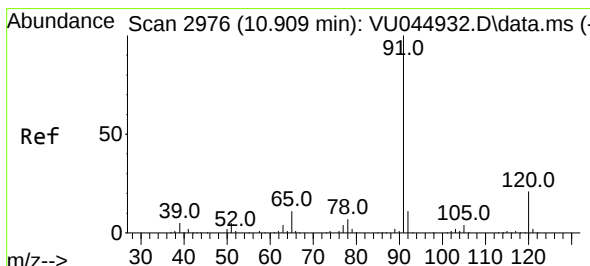
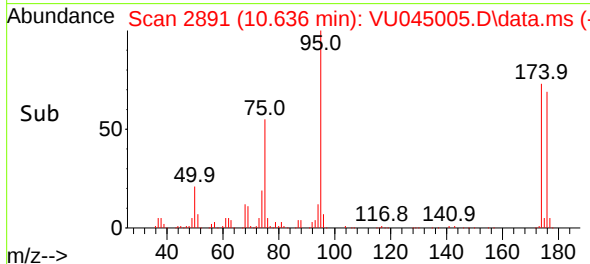
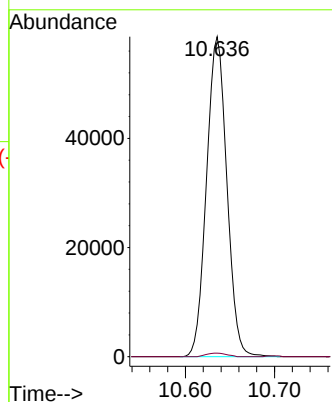
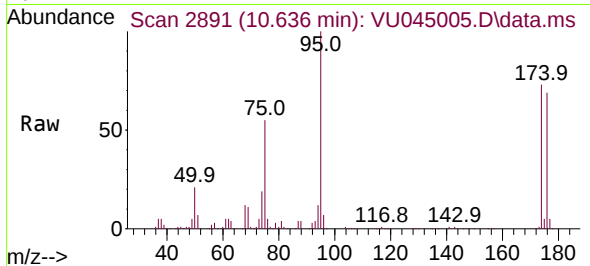




#76
1,2,3-Trichloropropane
Concen: 19.584 ug/l
RT: 10.636 min Scan# 2891
Delta R.T. -0.192 min
Lab File: VU045005.D
Acq: 29 Sep 2021 20:00

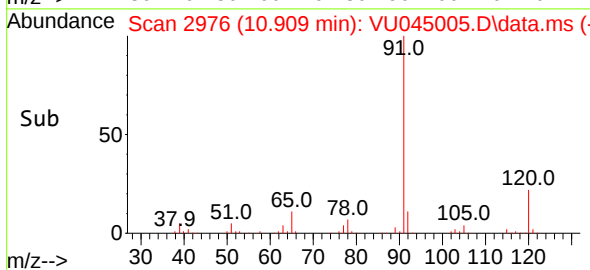
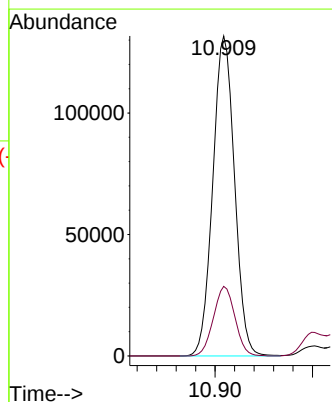
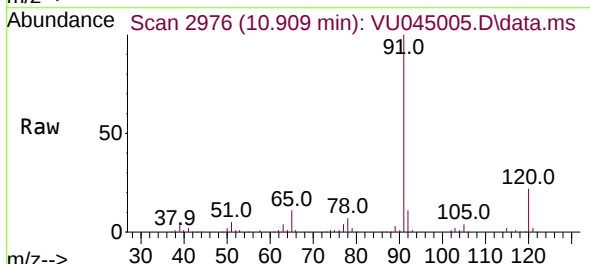
Instrument :
MSVOA_U
ClientSampleId :
EP-1-MW-2-0921DL

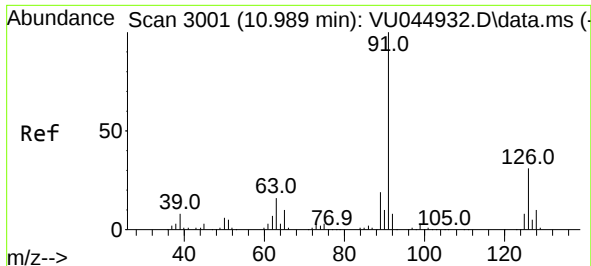
Tgt Ion: 75 Resp: 92755
Ion Ratio Lower Upper
75 100
77 1.1 17.9 53.7#



#78
n-propylbenzene
Concen: 13.820 ug/l
RT: 10.909 min Scan# 2976
Delta R.T. -0.000 min
Lab File: VU045005.D
Acq: 29 Sep 2021 20:00

Tgt Ion: 91 Resp: 203660
Ion Ratio Lower Upper
91 100
120 21.5 10.8 32.4

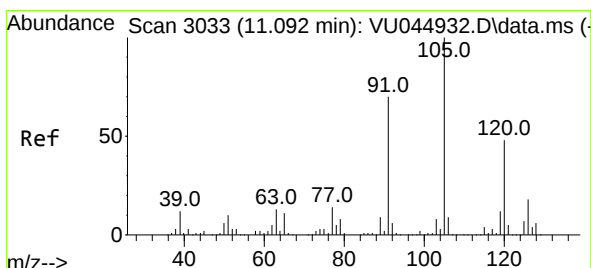
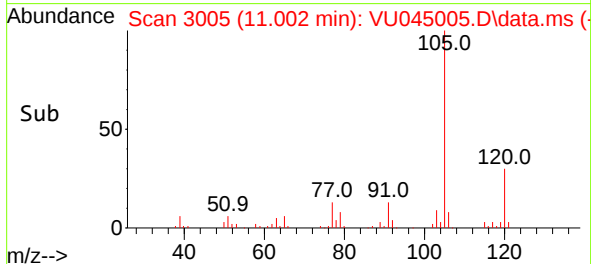
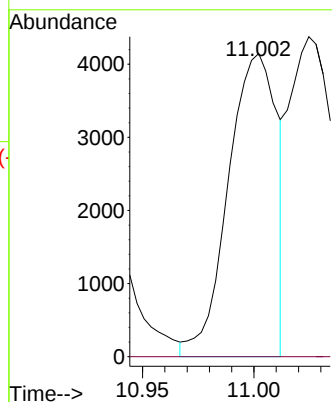
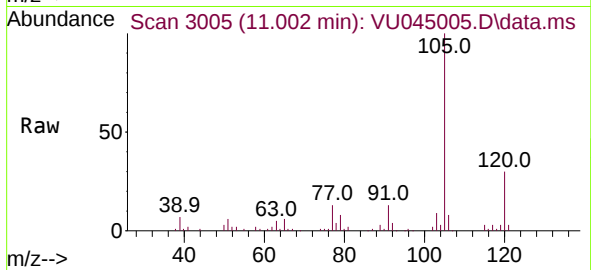




#79
2-Chlorotoluene
Concen: 0.683 ug/l
RT: 11.002 min Scan# 3005
Delta R.T. 0.013 min
Lab File: VU045005.D
Acq: 29 Sep 2021 20:00

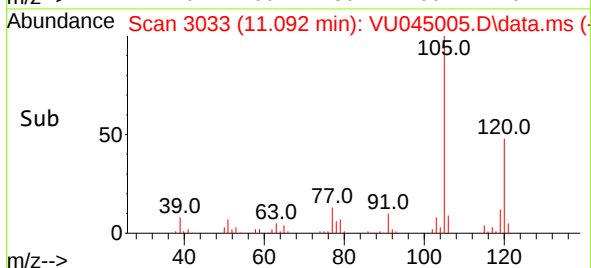
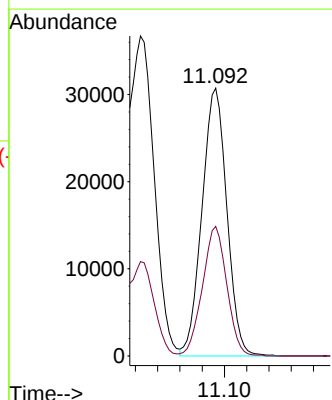
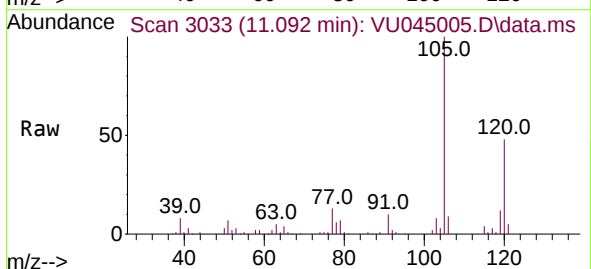
Instrument :
MSVOA_U
ClientSampleId :
EP-1-MW-2-0921DL

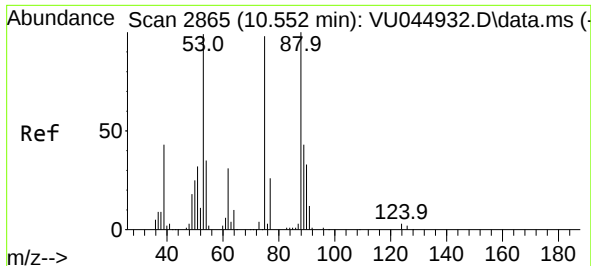
Tgt Ion: 91 Resp: 6311
Ion Ratio Lower Upper
91 100
126 0.0 15.7 47.0#



#80
1,3,5-Trimethylbenzene
Concen: 4.500 ug/l
RT: 11.092 min Scan# 3033
Delta R.T. 0.000 min
Lab File: VU045005.D
Acq: 29 Sep 2021 20:00

Tgt Ion: 105 Resp: 47669
Ion Ratio Lower Upper
105 100
120 47.5 24.1 72.2

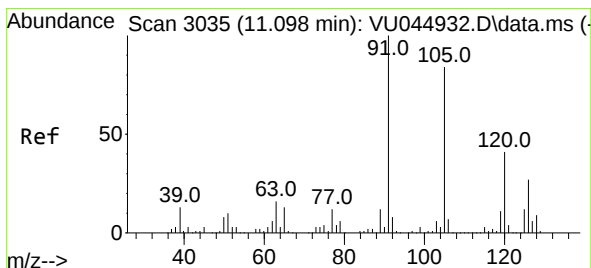
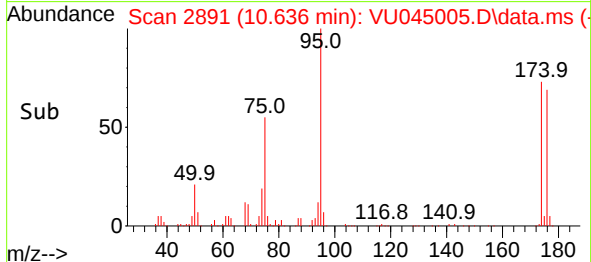
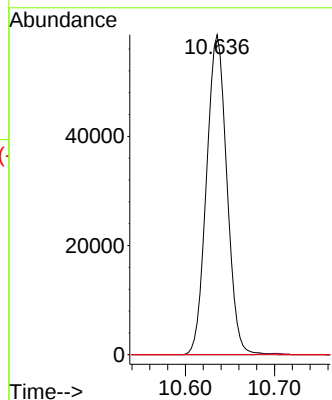
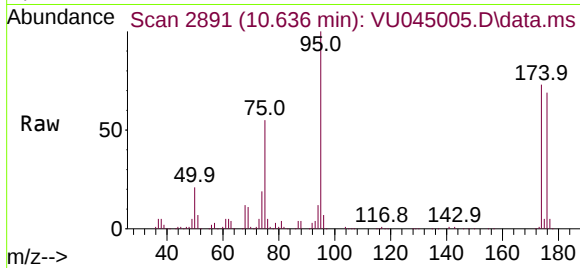




#81
trans-1,4-Dichloro-2-butene
Concen: 54.348 ug/l
RT: 10.636 min Scan# 2891
Delta R.T. 0.084 min
Lab File: VU045005.D
Acq: 29 Sep 2021 20:00

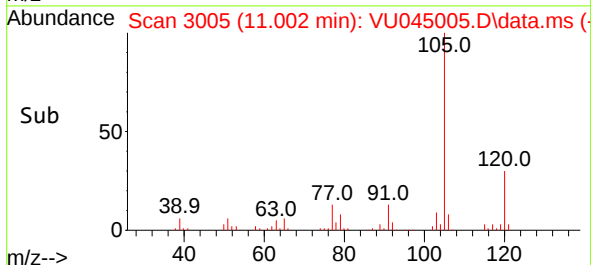
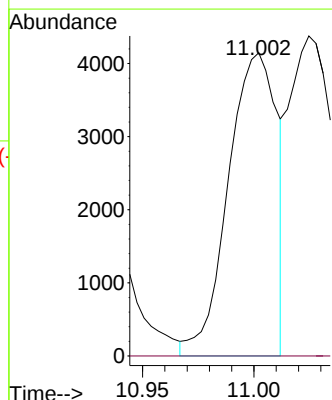
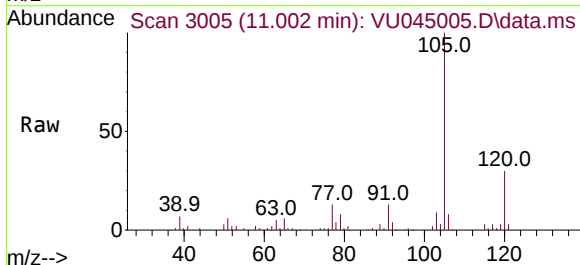
Instrument :
MSVOA_U
ClientSampleId :
EP-1-MW-2-0921DL

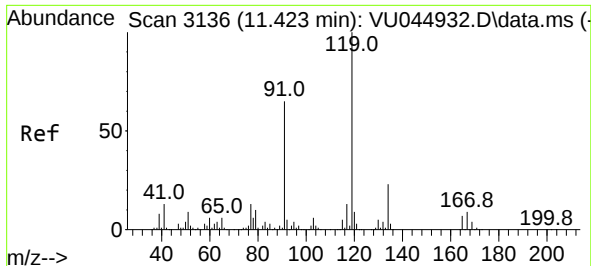
Tgt Ion: 75 Resp: 92755
Ion Ratio Lower Upper
75 100
53 0.0 82.0 123.0#
89 0.0 34.2 51.4#



#82
4-Chlorotoluene
Concen: 0.604 ug/l
RT: 11.002 min Scan# 3005
Delta R.T. -0.096 min
Lab File: VU045005.D
Acq: 29 Sep 2021 20:00

Tgt Ion: 91 Resp: 6311
Ion Ratio Lower Upper
91 100
126 0.0 13.8 41.4#

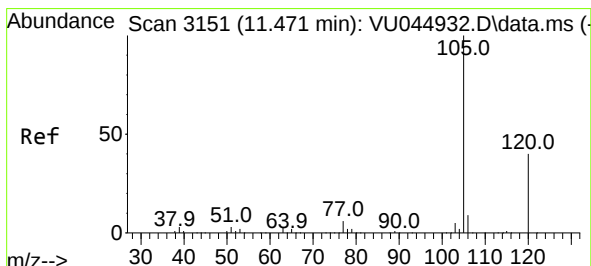
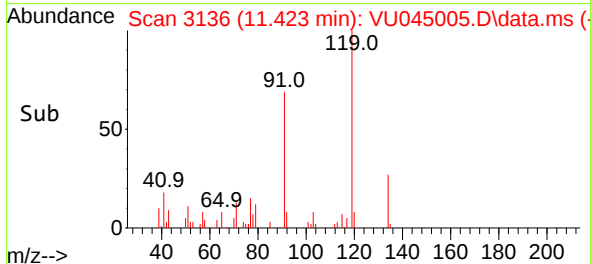
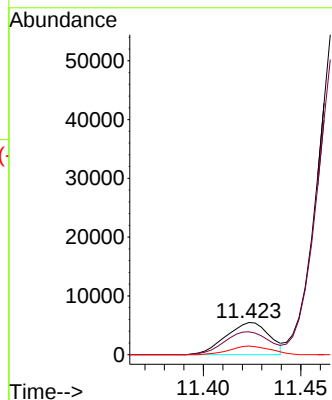
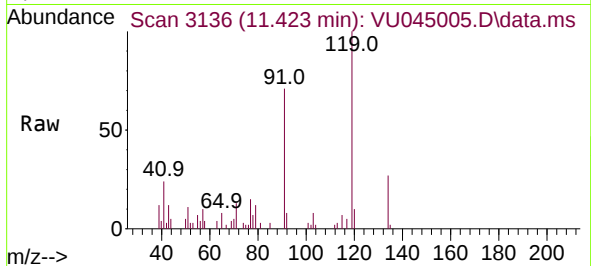




#83
tert-Butylbenzene
Concen: 0.823 ug/l
RT: 11.423 min Scan# 3136
Delta R.T. 0.000 min
Lab File: VU045005.D
Acq: 29 Sep 2021 20:00

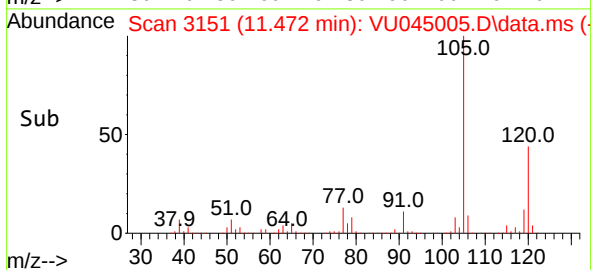
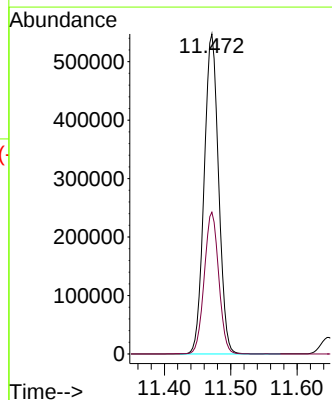
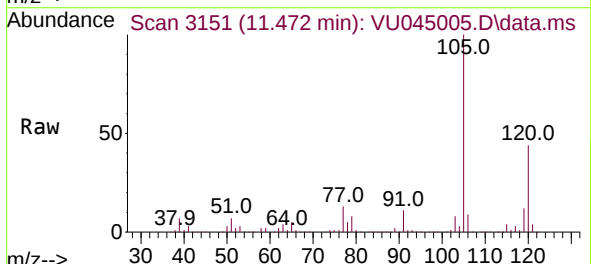
Instrument :
MSVOA_U
ClientSampleId :
EP-1-MW-2-0921DL

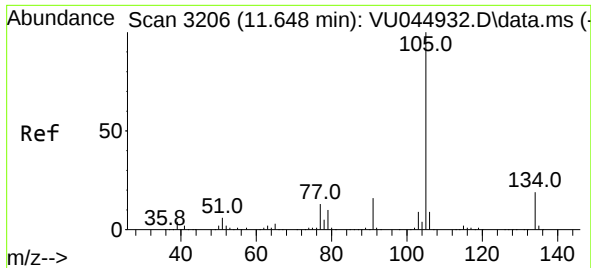
Tgt Ion:119 Resp: 8476
Ion Ratio Lower Upper
119 100
91 73.0 30.4 91.2
134 25.0 11.5 34.5



#84
1,2,4-Trimethylbenzene
Concen: 79.051 ug/l
RT: 11.472 min Scan# 3151
Delta R.T. 0.001 min
Lab File: VU045005.D
Acq: 29 Sep 2021 20:00

Tgt Ion:105 Resp: 828482
Ion Ratio Lower Upper
105 100
120 44.5 22.4 67.3

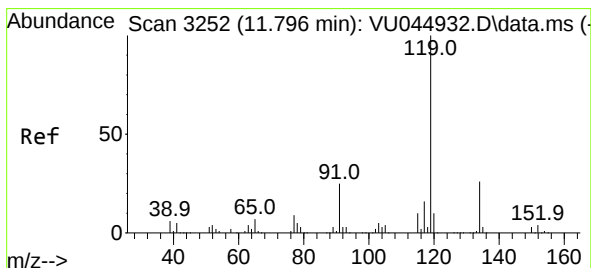
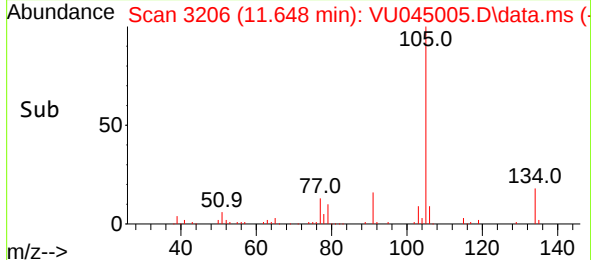
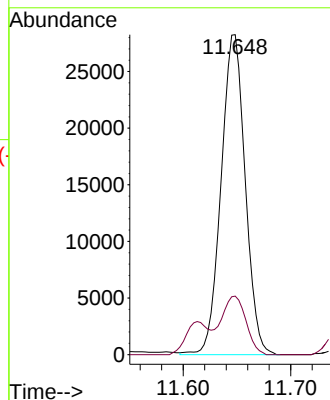
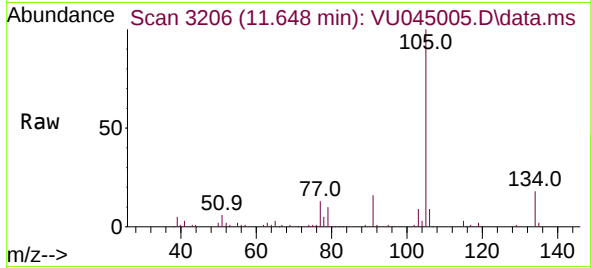




#85
 sec-Butylbenzene
 Concen: 3.319 ug/l
 RT: 11.648 min Scan# 3206
 Delta R.T. 0.000 min
 Lab File: VU045005.D
 Acq: 29 Sep 2021 20:00

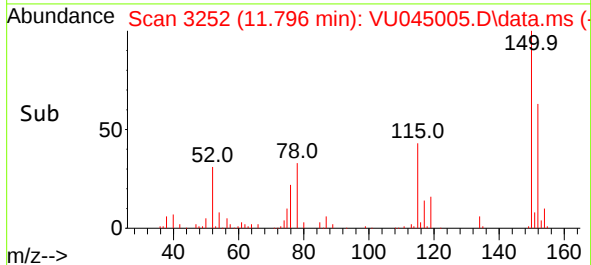
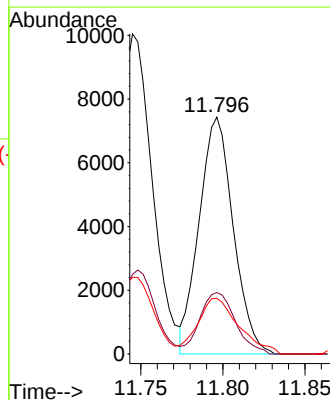
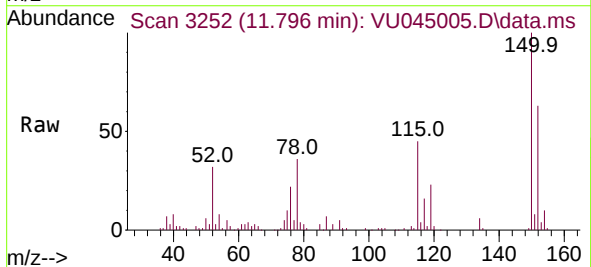
Instrument :
 MSVOA_U
 ClientSampleId :
 EP-1-MW-2-0921DL

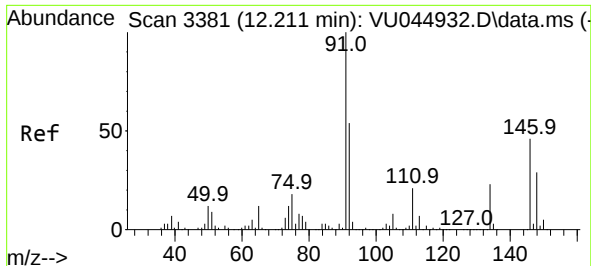
Tgt Ion:105 Resp: 44038
 Ion Ratio Lower Upper
 105 100
 134 18.0 9.3 28.0



#86
 p-Isopropyltoluene
 Concen: 1.008 ug/l
 RT: 11.796 min Scan# 3252
 Delta R.T. 0.000 min
 Lab File: VU045005.D
 Acq: 29 Sep 2021 20:00

Tgt Ion:119 Resp: 10760
 Ion Ratio Lower Upper
 119 100
 134 27.0 12.8 38.3
 91 28.6 12.2 36.6

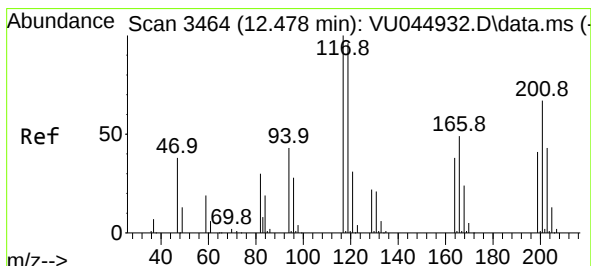
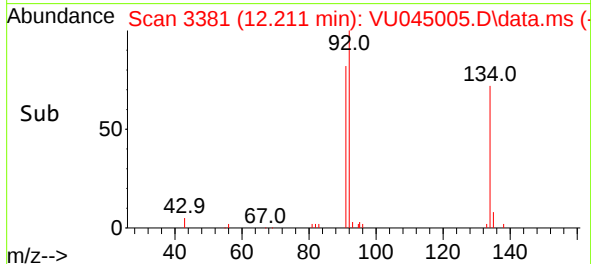
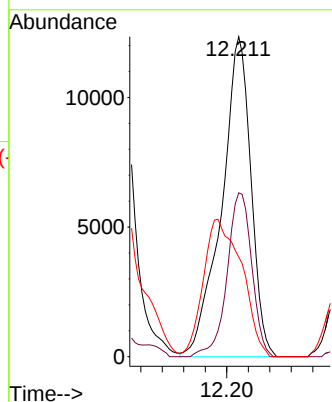
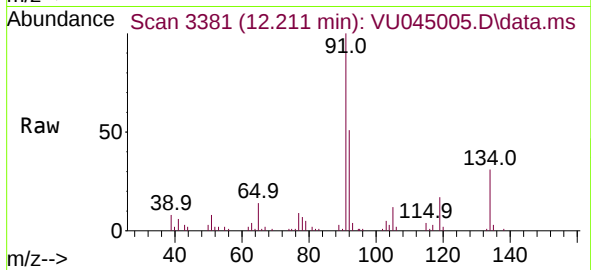




#89
n-Butylbenzene
Concen: 2.377 ug/l
RT: 12.211 min Scan# 3381
Delta R.T. 0.000 min
Lab File: VU045005.D
Acq: 29 Sep 2021 20:00

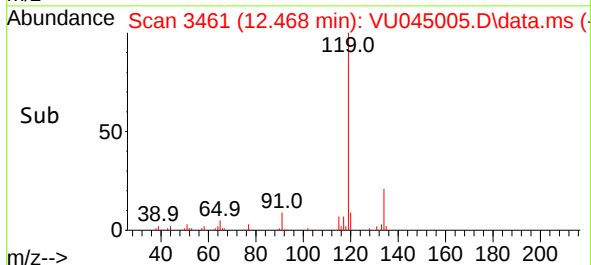
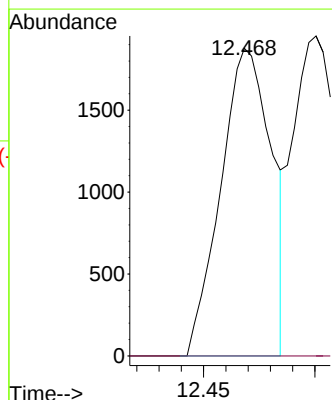
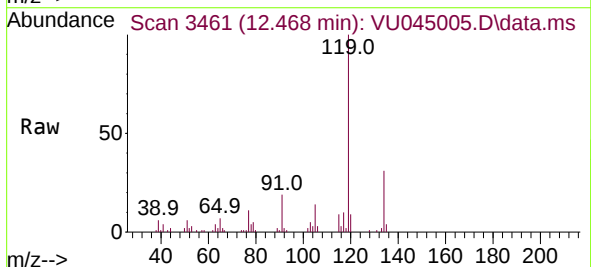
Instrument :
MSVOA_U
ClientSampleId :
EP-1-MW-2-0921DL

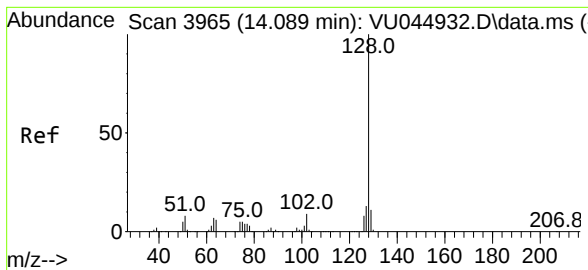
Tgt Ion:	91	Resp:	23366
Ion	Ratio	Lower	Upper
91	100		
92	43.1	26.8	80.4
134	56.2	11.8	35.4#



#90
Hexachloroethane
Concen: 1.541 ug/l
RT: 12.468 min Scan# 3461
Delta R.T. -0.010 min
Lab File: VU045005.D
Acq: 29 Sep 2021 20:00

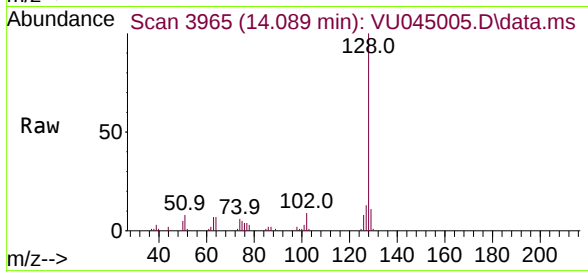
Tgt Ion:	117	Resp:	2971
Ion	Ratio	Lower	Upper
117	100		
201	0.0	34.8	104.3#





#95
 Naphthalene
 Concen: 3.038 ug/l
 RT: 14.089 min Scan# 3965
 Delta R.T. -0.000 min
 Lab File: VU045005.D
 Acq: 29 Sep 2021 20:00

Instrument :
 MSVOA_U
 ClientSampleId :
 EP-1-MW-2-0921DL



Tgt Ion:	128	Resp:	36399
Ion Ratio	Lower	Upper	
128	100		
127	12.7	10.4	15.6
129	10.9	8.6	13.0

