

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU112221\
 Data File : VU045926.D
 Acq On : 22 Nov 2021 19:47
 Operator : SY/MD
 Sample : M4770-04
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 23 05:19:17 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U110521W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 05 13:35:16 2021
 Response via : Initial Calibration

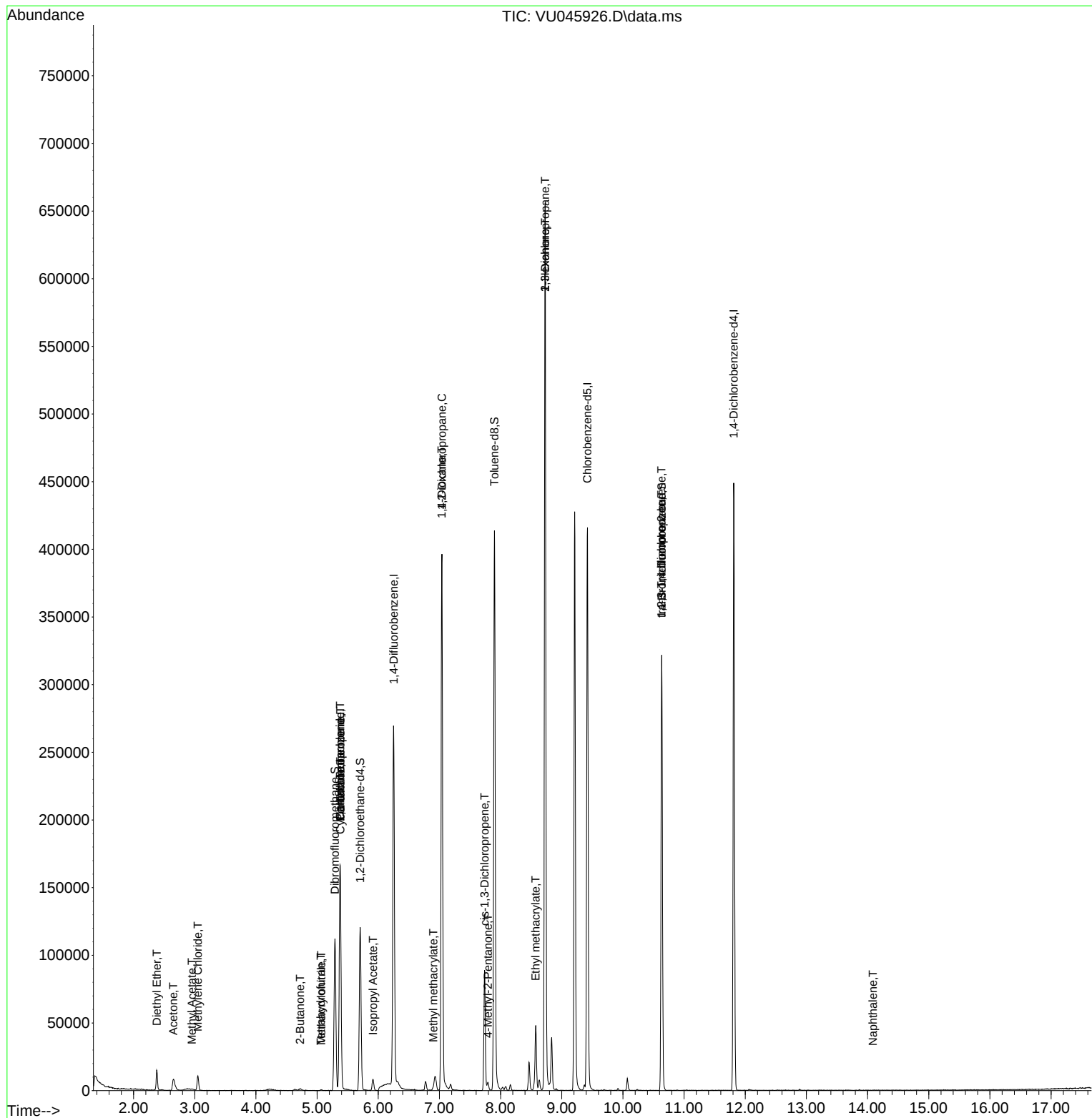
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.378	168	112539	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.253	114	211720	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.420	117	231005	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.812	152	113916	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.703	65	90165	53.498	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 107.000%	
35) Dibromofluoromethane	5.292	113	71934	50.889	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 101.780%	
50) Toluene-d8	7.899	98	282756	53.794	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 107.580%	
62) 4-Bromofluorobenzene	10.635	95	108151	51.312	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 102.620%	
Target Compounds						Qvalue
8) Diethyl Ether	2.379	74	5127	6.023	ug/l	94
16) Acetone	2.649	43	16425	19.144	ug/l	94
18) Methyl Acetate	2.954	43	1404	0.480	ug/l #	53
20) Methylene Chloride	3.051	84	5291	3.549	ug/l	98
25) 2-Butanone	4.723	43	2955	2.483	ug/l #	83
29) Tetrahydrofuran	5.063	42	558	0.767	ug/l #	30
31) Cyclohexane	5.382	56	2325	0.945	ug/l #	1
36) 1,1-Dichloropropene	5.378	75	9444	4.575	ug/l #	50
38) Carbon Tetrachloride	5.375	117	12300	5.910	ug/l #	16
41) Methacrylonitrile	5.070	41	290	0.231	ug/l #	22
43) Isopropyl Acetate	5.915	43	8771	2.418	ug/l	98
45) 1,2-Dichloropropane	7.041	63	368	0.228	ug/l #	43
48) Methyl methacrylate	6.899	41	3827	2.292	ug/l #	13
49) 1,4-Dioxane	7.038	88	20	0.466	ug/l #	1
51) 4-Methyl-2-Pentanone	7.793	43	3846	1.607	ug/l	88
54) cis-1,3-Dichloropropene	7.738	75	16491	6.354	ug/l #	60
56) Ethyl methacrylate	8.574	69	484	2.590	ug/l #	1
57) 1,3-Dichloropropane	8.729	76	7262	2.600	ug/l #	42
59) 2-Hexanone	8.729	43	85832	47.519	ug/l #	50
76) 1,2,3-Trichloropropane	10.632	75	56878	16.464	ug/l #	42
81) trans-1,4-Dichloro-2-b...	10.632	75	56878	53.701	ug/l #	12
95) Naphthalene	14.089	128	119	1.041	ug/l #	69

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

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Response via : Initial Calibration

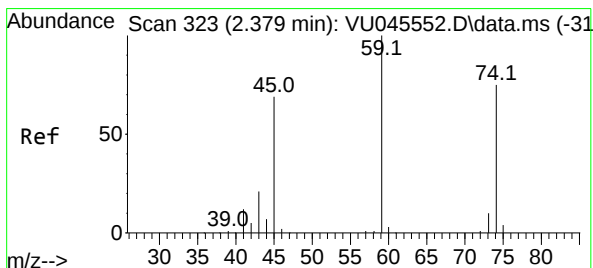
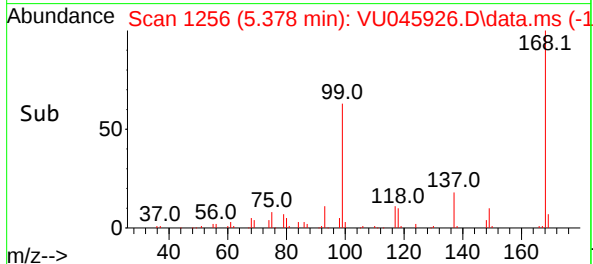
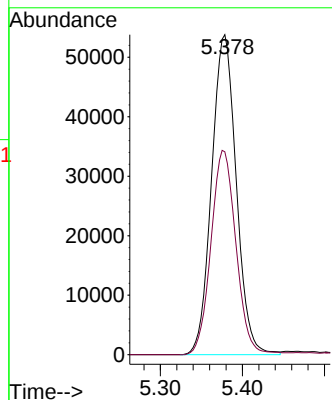
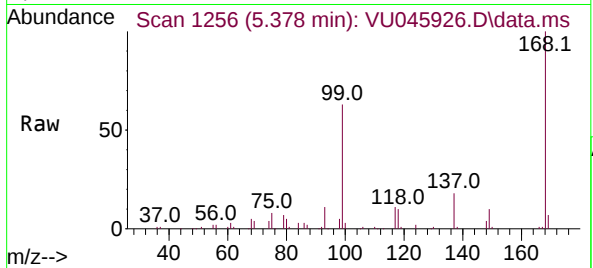




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.378 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU045926.D
Acq: 22 Nov 2021 19:47

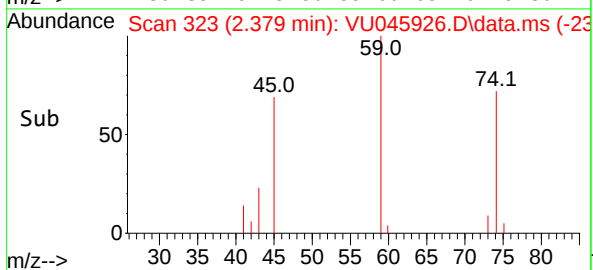
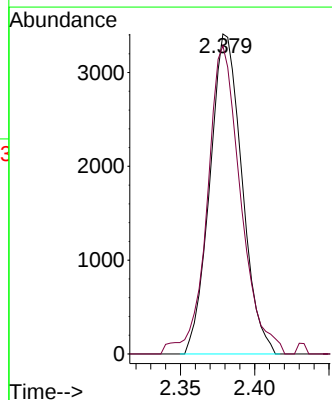
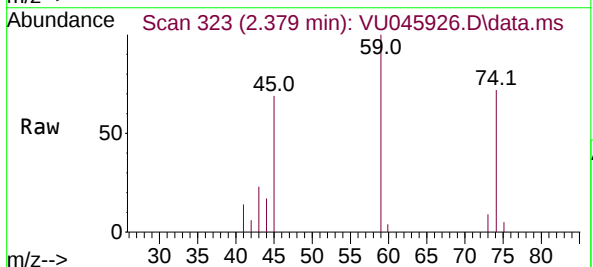
Instrument :
MSVOA_U
ClientSampleId :

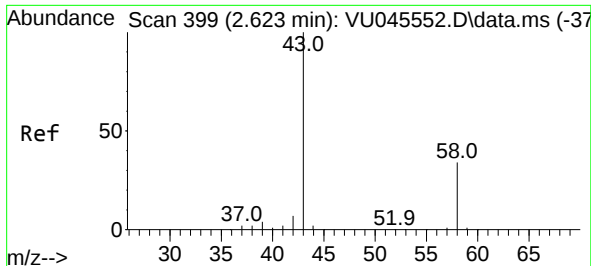
Tgt Ion:168 Resp: 112539
Ion Ratio Lower Upper
168 100
99 63.4 51.0 76.6



#8
Diethyl Ether
Concen: 6.023 ug/l
RT: 2.379 min Scan# 323
Delta R.T. -0.000 min
Lab File: VU045926.D
Acq: 22 Nov 2021 19:47

Tgt Ion: 74 Resp: 5127
Ion Ratio Lower Upper
74 100
45 99.9 47.3 141.8





#16

Acetone

Concen: 19.144 ug/l

RT: 2.649 min Scan# 407

Delta R.T. 0.026 min

Lab File: VU045926.D

Acq: 22 Nov 2021 19:47

Instrument :

MSVOA_U

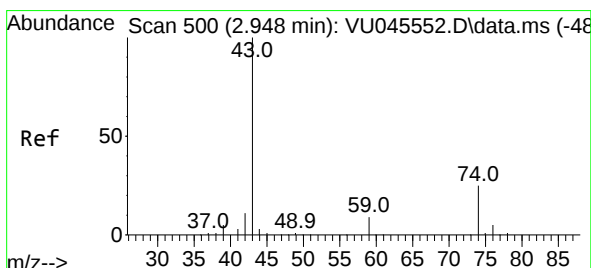
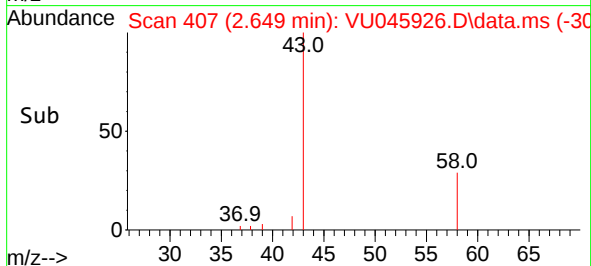
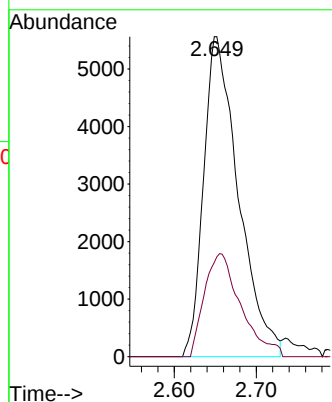
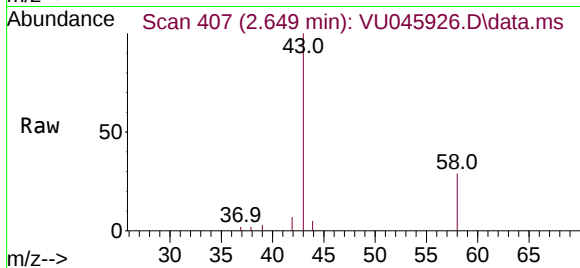
ClientSampleId :

Tgt Ion: 43 Resp: 16425

Ion Ratio Lower Upper

43 100

58 29.5 26.2 39.2



#18

Methyl Acetate

Concen: 0.480 ug/l

RT: 2.954 min Scan# 502

Delta R.T. 0.006 min

Lab File: VU045926.D

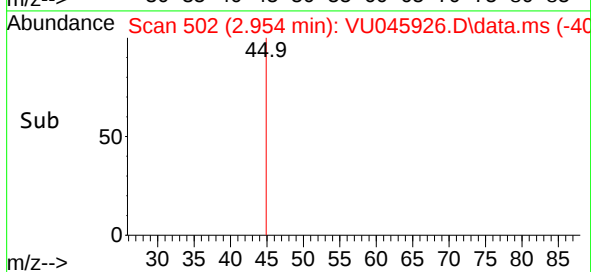
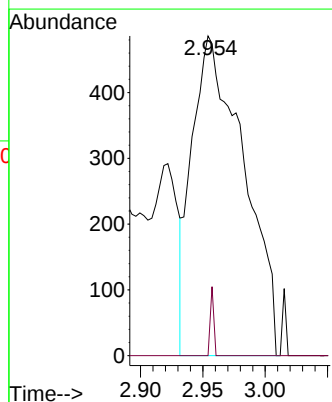
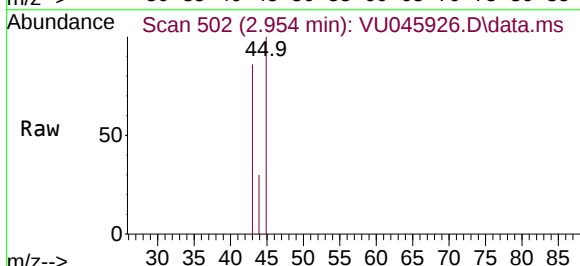
Acq: 22 Nov 2021 19:47

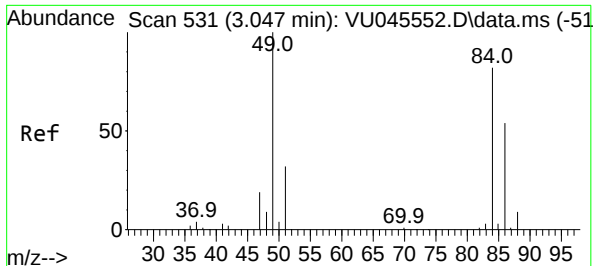
Tgt Ion: 43 Resp: 1404

Ion Ratio Lower Upper

43 100

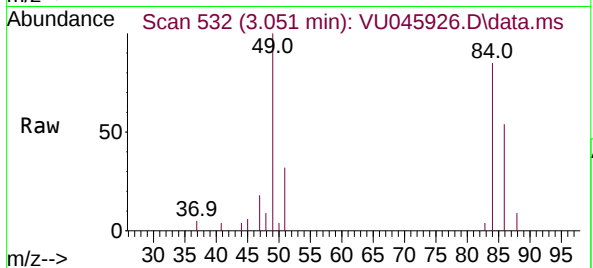
74 1.4 20.2 30.2#



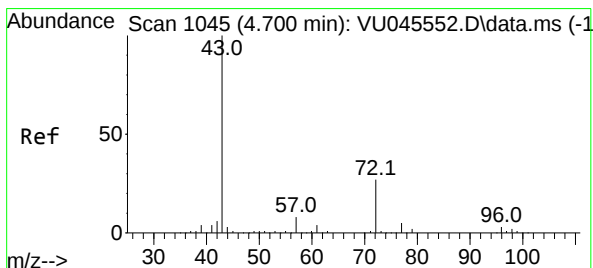
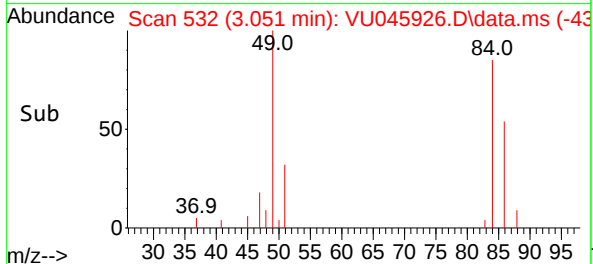
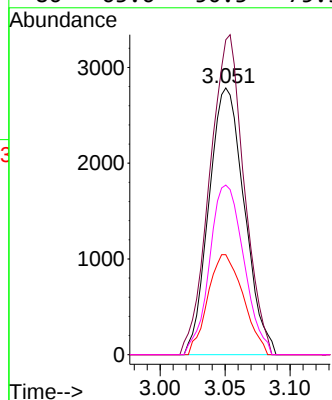


#20
Methylene Chloride
Concen: 3.549 ug/l
RT: 3.051 min Scan# 51
Delta R.T. 0.003 min
Lab File: VU045926.D
Acq: 22 Nov 2021 19:47

Instrument :
MSVOA_U
ClientSampleId :

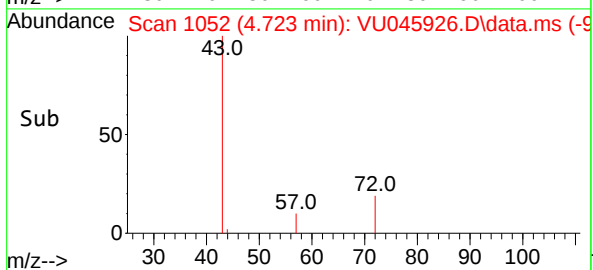
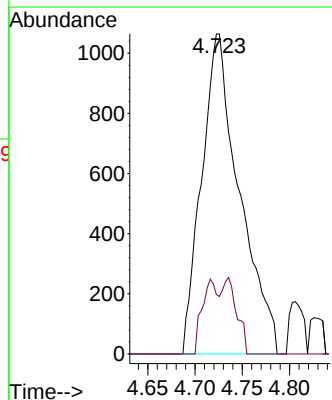
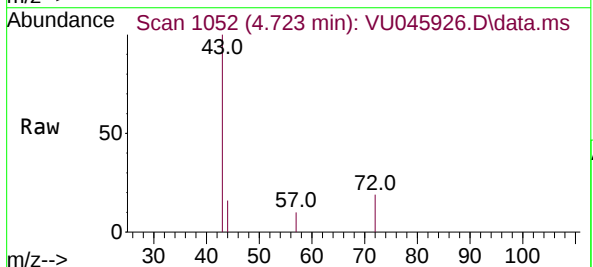


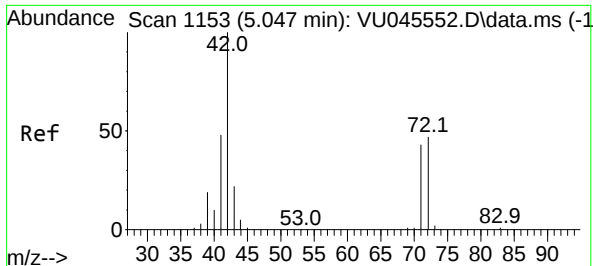
Tgt Ion:	84	Resp:	5291
Ion	Ratio	Lower	Upper
84	100		
49	118.1	96.4	144.6
51	37.5	30.5	45.7
86	63.6	50.3	75.5



#25
2-Butanone
Concen: 2.483 ug/l
RT: 4.723 min Scan# 1052
Delta R.T. 0.022 min
Lab File: VU045926.D
Acq: 22 Nov 2021 19:47

Tgt Ion:	43	Resp:	2955
Ion	Ratio	Lower	Upper
43	100		
72	18.6	22.0	33.0#





#29

Tetrahydrofuran

Concen: 0.767 ug/l

RT: 5.063 min Scan# 1158

Delta R.T. 0.016 min

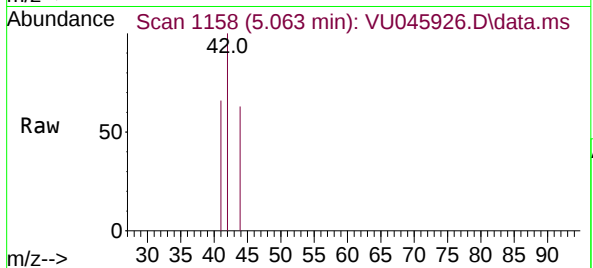
Lab File: VU045926.D

Acq: 22 Nov 2021 19:47

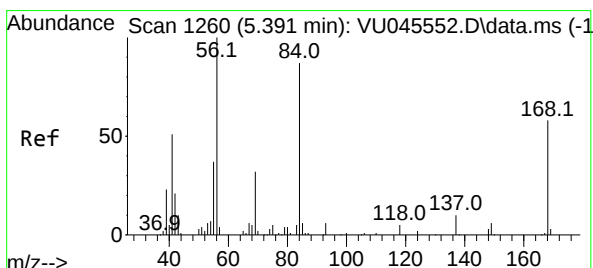
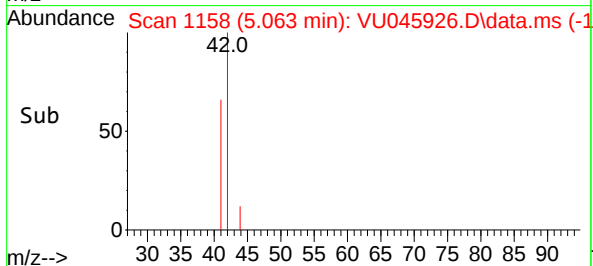
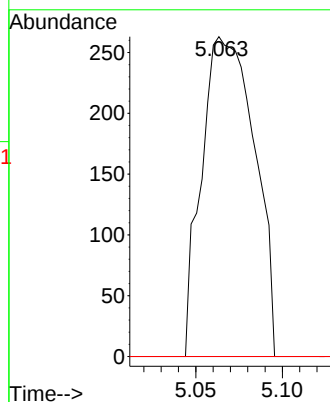
Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:	42	Resp:	558
Ion	Ratio	Lower	Upper
42	100		
72	0.0	38.2	57.4#
71	0.0	35.4	53.2#



#31

Cyclohexane

Concen: 0.945 ug/l

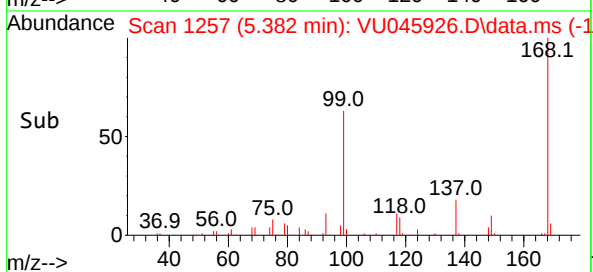
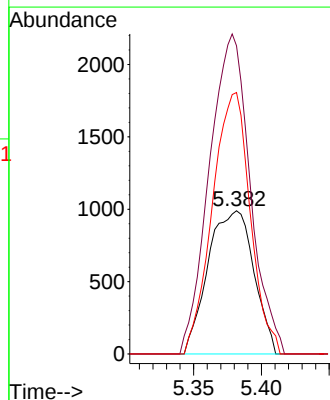
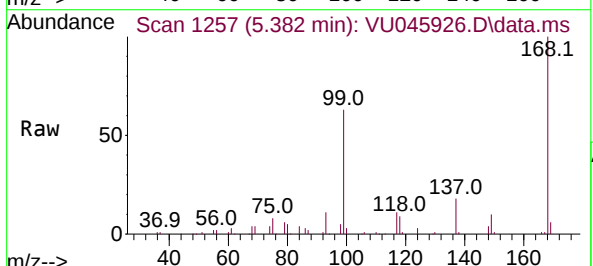
RT: 5.382 min Scan# 1257

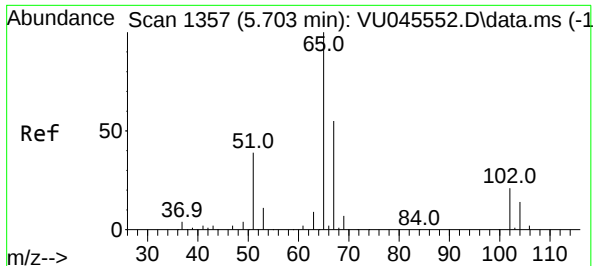
Delta R.T. -0.010 min

Lab File: VU045926.D

Acq: 22 Nov 2021 19:47

Tgt Ion:	56	Resp:	2325
Ion	Ratio	Lower	Upper
56	100		
69	215.1	26.4	39.6#
84	182.5	68.4	102.6#





#33

1,2-Dichloroethane-d4

Concen: 53.498 ug/l

RT: 5.703 min Scan# 1

Delta R.T. -0.000 min

Lab File: VU045926.D

Acq: 22 Nov 2021 19:47

Instrument :

MSVOA_U

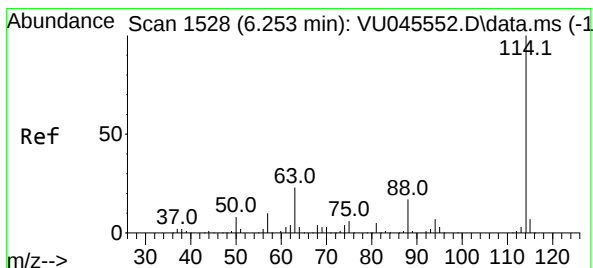
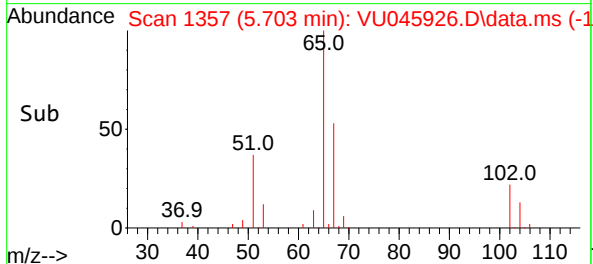
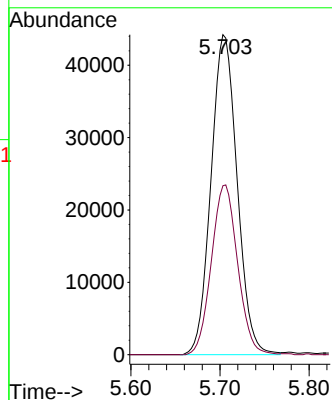
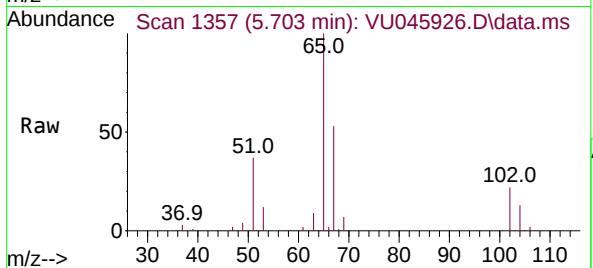
ClientSampleId :

Tgt Ion: 65 Resp: 90165

Ion Ratio Lower Upper

65 100

67 53.2 0.0 105.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.253 min Scan# 1528

Delta R.T. 0.000 min

Lab File: VU045926.D

Acq: 22 Nov 2021 19:47

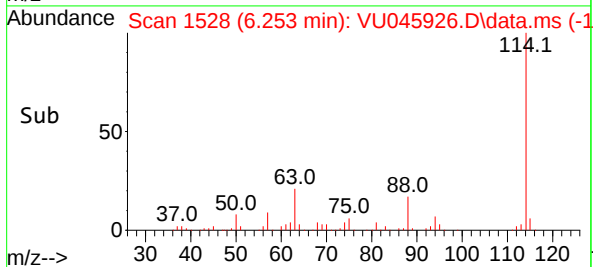
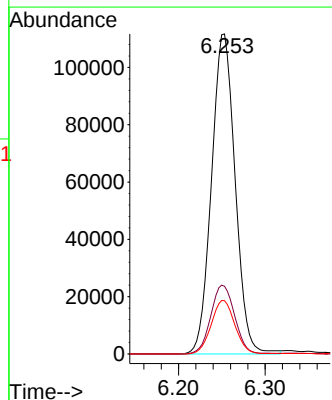
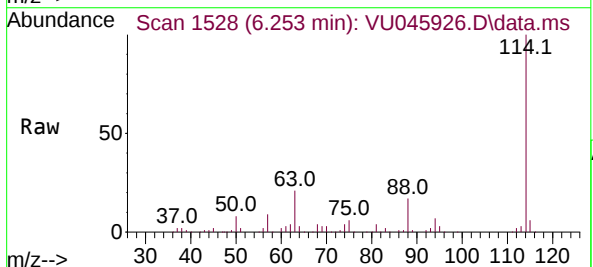
Tgt Ion: 114 Resp: 211720

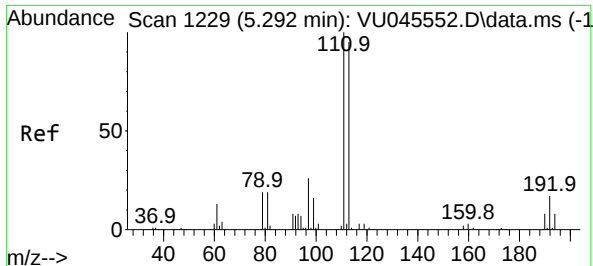
Ion Ratio Lower Upper

114 100

63 21.1 0.0 45.6

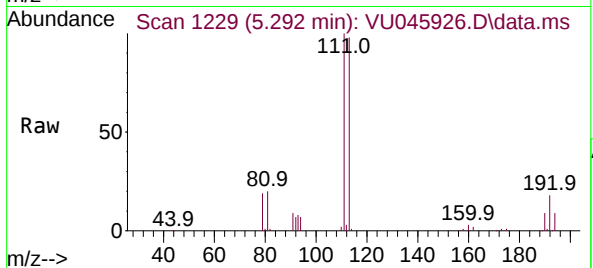
88 16.6 0.0 33.8



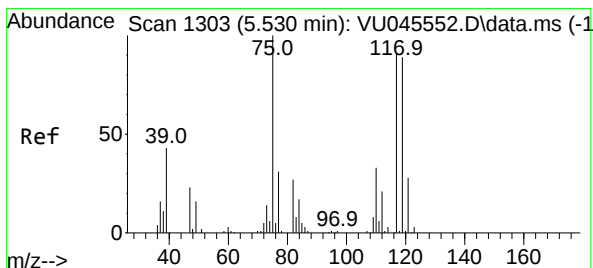
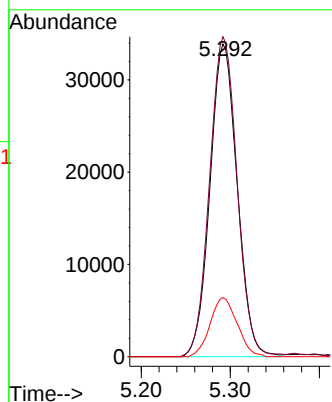
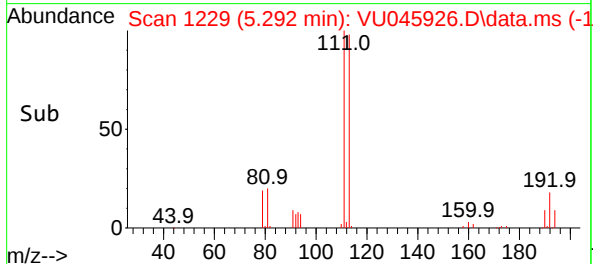


#35
Dibromofluoromethane
Concen: 50.889 ug/l
RT: 5.292 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU045926.D
Acq: 22 Nov 2021 19:47

Instrument :
MSVOA_U
ClientSampleId :

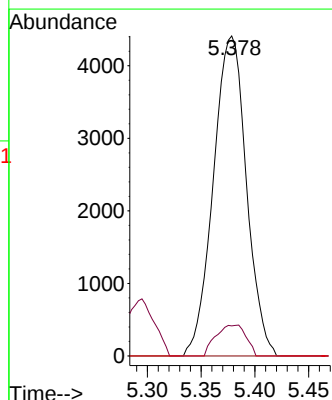
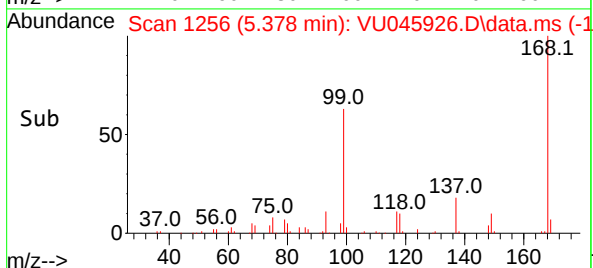
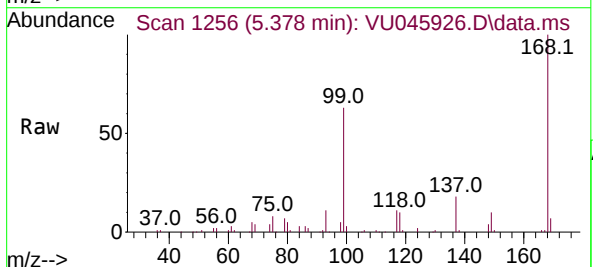


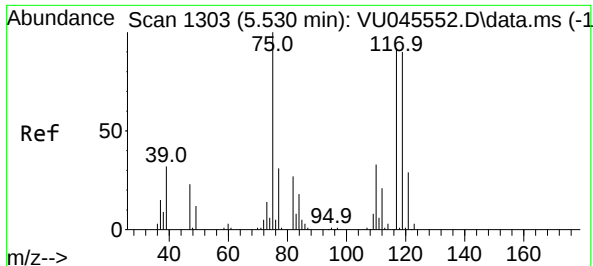
Tgt Ion:113 Resp: 71934
Ion Ratio Lower Upper
113 100
111 103.4 82.8 124.2
192 18.8 14.8 22.2



#36
1,1-Dichloropropene
Concen: 4.575 ug/l
RT: 5.378 min Scan# 1256
Delta R.T. -0.151 min
Lab File: VU045926.D
Acq: 22 Nov 2021 19:47

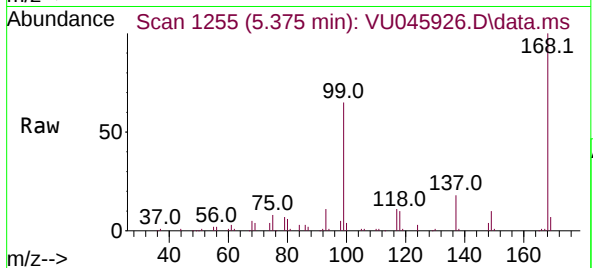
Tgt Ion: 75 Resp: 9444
Ion Ratio Lower Upper
75 100
110 8.8 16.7 50.0#
77 0.0 25.0 37.4#



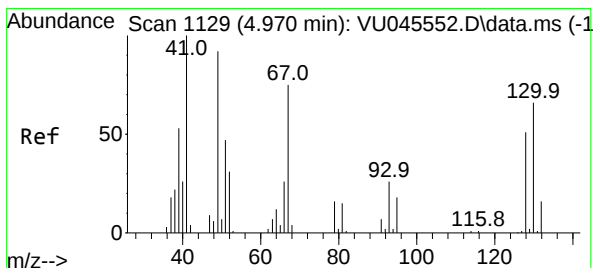
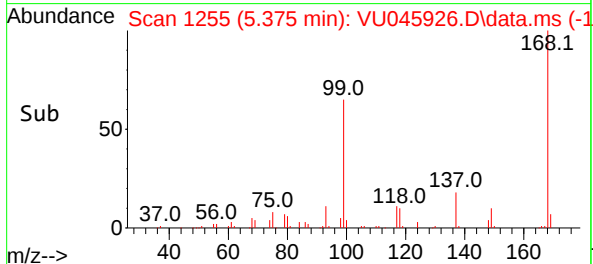
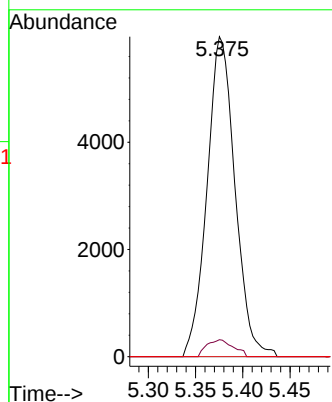


#38
Carbon Tetrachloride
Concen: 5.910 ug/l
RT: 5.375 min Scan# 1160
Delta R.T. -0.154 min
Lab File: VU045926.D
Acq: 22 Nov 2021 19:47

Instrument :
MSVOA_U
ClientSampleId :

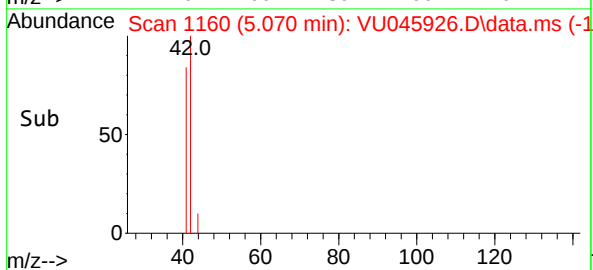
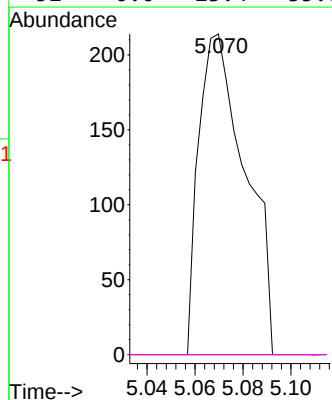
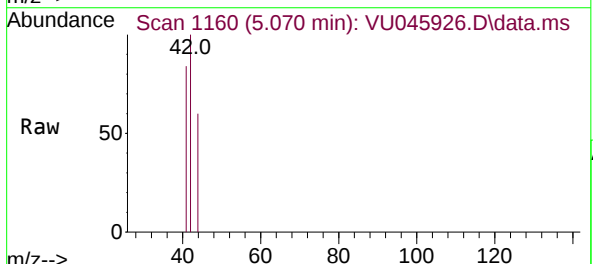


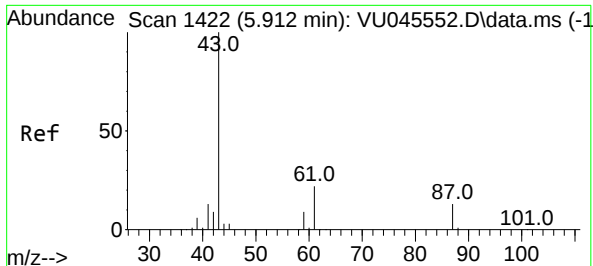
Tgt Ion:117 Resp: 12300
Ion Ratio Lower Upper
117 100
119 5.3 77.4 116.0#
121 0.0 24.8 37.2#



#41
Methacrylonitrile
Concen: 0.231 ug/l
RT: 5.070 min Scan# 1160
Delta R.T. 0.100 min
Lab File: VU045926.D
Acq: 22 Nov 2021 19:47

Tgt Ion: 41 Resp: 290
Ion Ratio Lower Upper
41 100
39 0.0 43.4 65.0#
67 0.0 61.0 91.4#
52 0.0 23.4 35.0#





#43

Isopropyl Acetate

Concen: 2.418 ug/l

RT: 5.915 min Scan# 1422

Delta R.T. 0.003 min

Lab File: VU045926.D

Acq: 22 Nov 2021 19:47

Instrument :

MSVOA_U

ClientSampleId :

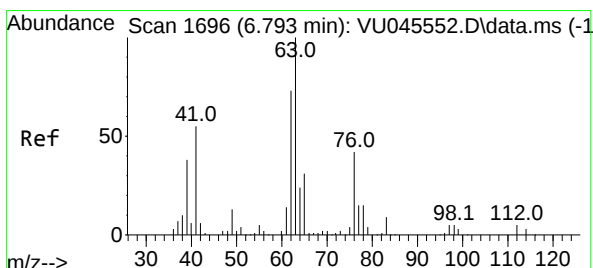
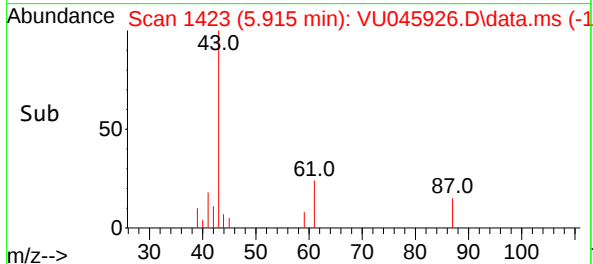
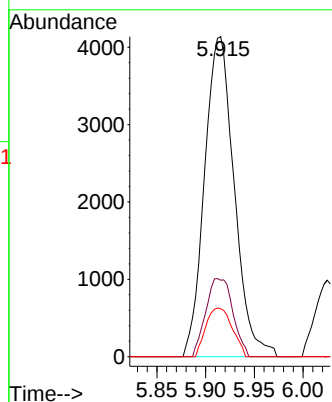
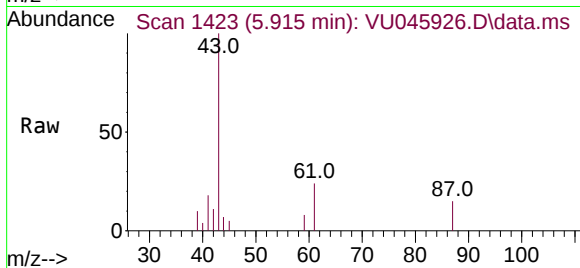
Tgt Ion: 43 Resp: 8771

Ion Ratio Lower Upper

43 100

61 22.2 16.9 25.3

87 13.4 11.0 16.4



#45

1,2-Dichloropropane

Concen: 0.228 ug/l

RT: 7.041 min Scan# 1773

Delta R.T. 0.248 min

Lab File: VU045926.D

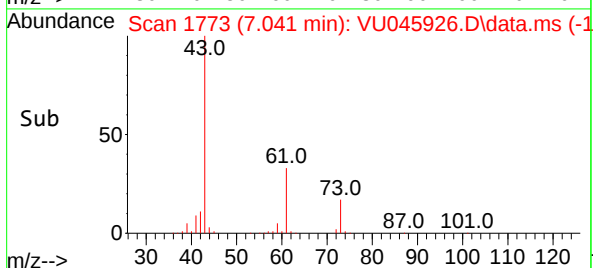
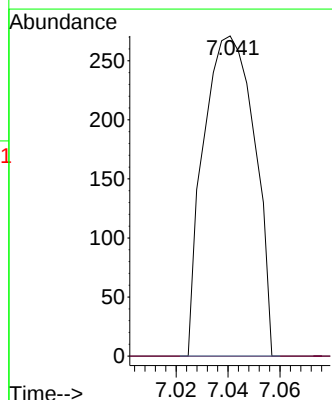
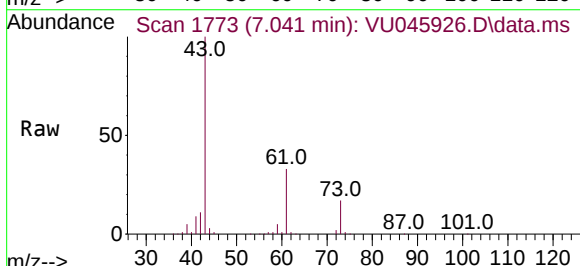
Acq: 22 Nov 2021 19:47

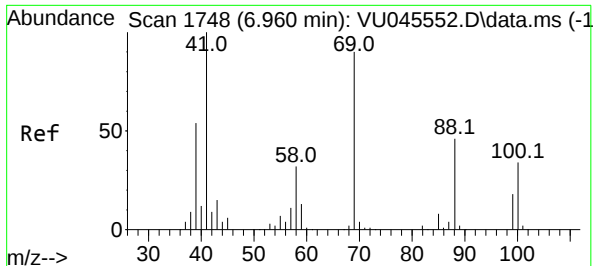
Tgt Ion: 63 Resp: 368

Ion Ratio Lower Upper

63 100

65 0.0 25.7 38.5#

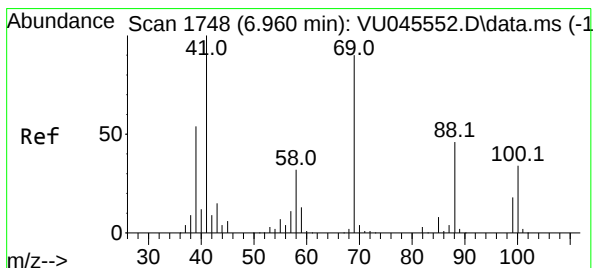
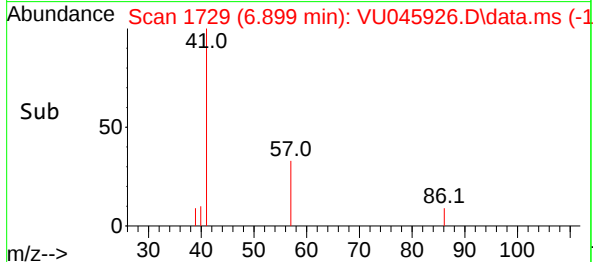
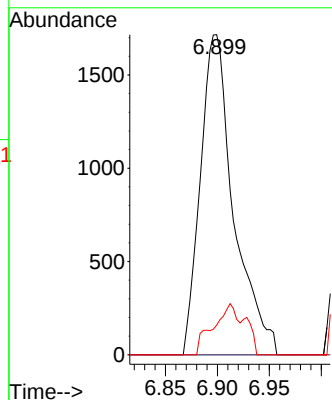
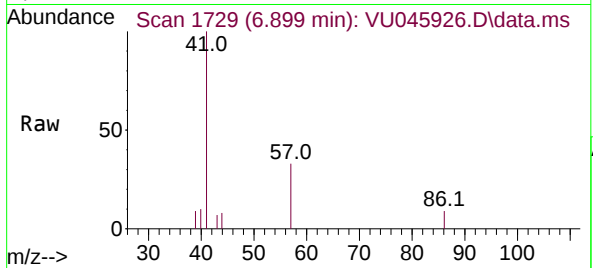




#48
Methyl methacrylate
Concen: 2.292 ug/l
RT: 6.899 min Scan# 1
Delta R.T. -0.061 min
Lab File: VU045926.D
Acq: 22 Nov 2021 19:47

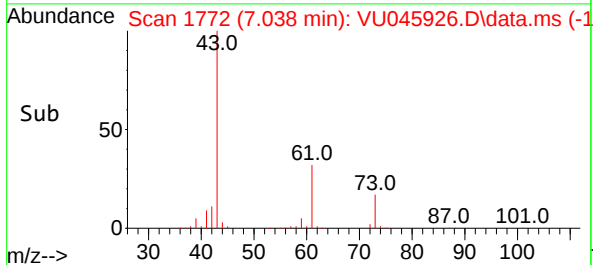
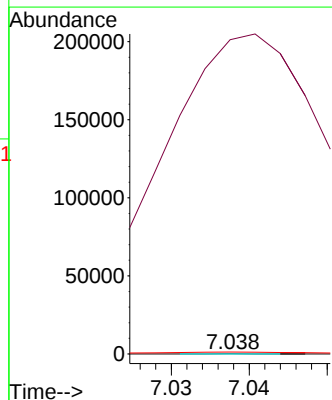
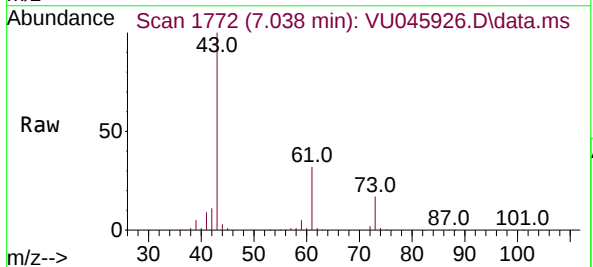
Instrument :
MSVOA_U
ClientSampleId :

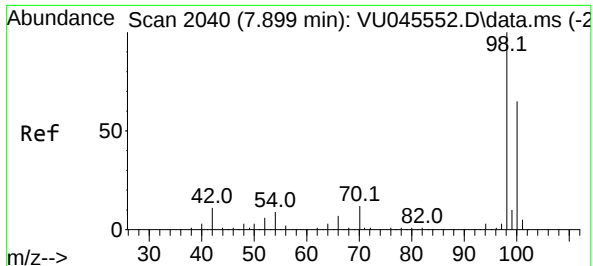
Tgt Ion: 41 Resp: 3827
Ion Ratio Lower Upper
41 100
69 0.0 70.2 105.2#
39 0.0 43.9 65.9#



#49
1,4-Dioxane
Concen: 0.466 ug/l
RT: 7.038 min Scan# 1772
Delta R.T. 0.077 min
Lab File: VU045926.D
Acq: 22 Nov 2021 19:47

Tgt Ion: 88 Resp: 20
Ion Ratio Lower Upper
88 100
43 1796215.0 0.0 0.0#
58 10390.0 58.7 88.1#

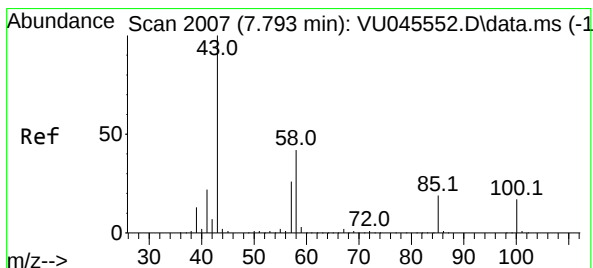
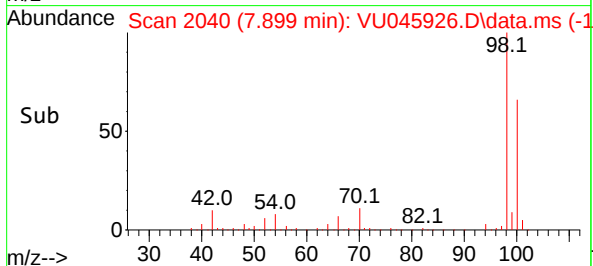
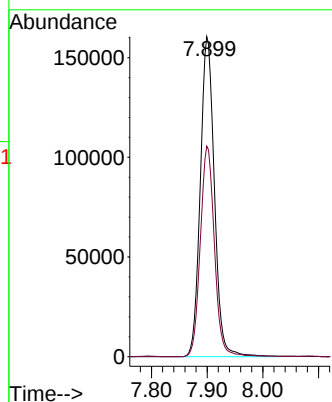
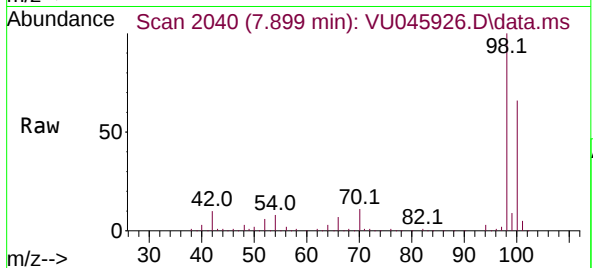




#50
Toluene-d8
Concen: 53.794 ug/l
RT: 7.899 min Scan# 2040
Delta R.T. -0.000 min
Lab File: VU045926.D
Acq: 22 Nov 2021 19:47

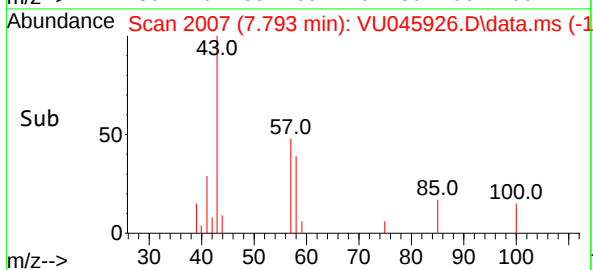
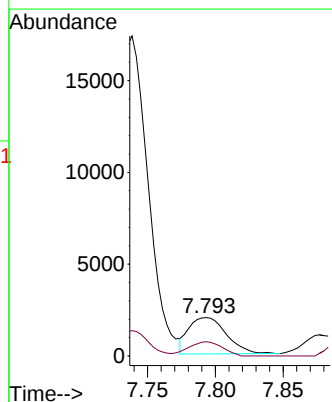
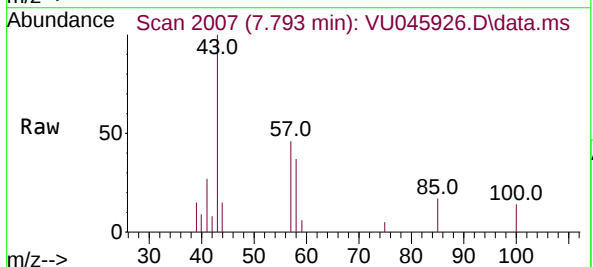
Instrument :
MSVOA_U
ClientSampleId :

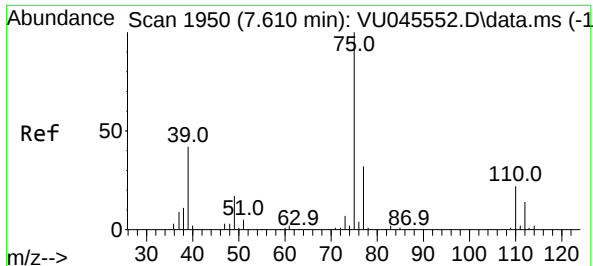
Tgt Ion: 98 Resp: 282756
Ion Ratio Lower Upper
98 100
100 65.9 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 1.607 ug/l
RT: 7.793 min Scan# 2007
Delta R.T. -0.000 min
Lab File: VU045926.D
Acq: 22 Nov 2021 19:47

Tgt Ion: 43 Resp: 3846
Ion Ratio Lower Upper
43 100
58 34.9 33.8 50.8





#54

cis-1,3-Dichloropropene

Concen: 6.354 ug/l

RT: 7.738 min Scan# 1950

Delta R.T. 0.129 min

Lab File: VU045926.D

Acq: 22 Nov 2021 19:47

Instrument :

MSVOA_U

ClientSampleId :

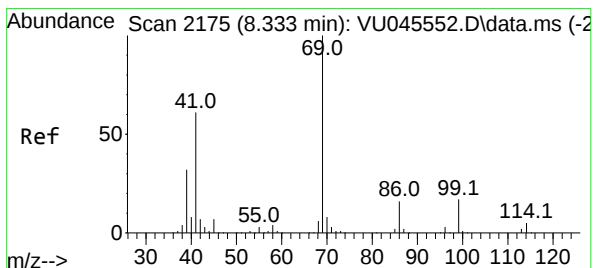
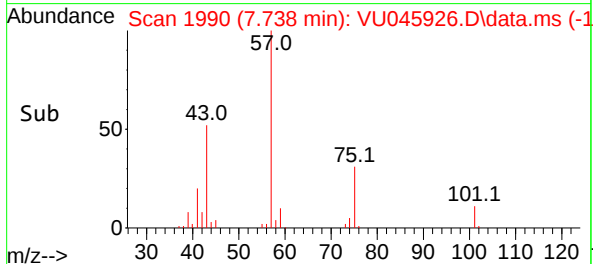
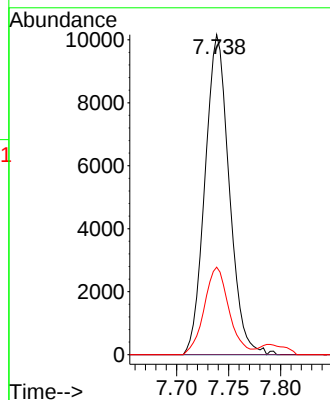
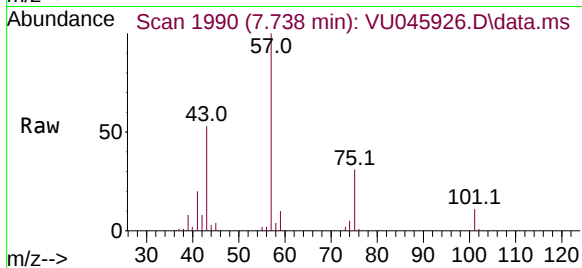
Tgt Ion: 75 Resp: 16491

Ion Ratio Lower Upper

75 100

77 0.0 24.6 37.0#

39 27.3 37.1 55.7#



#56

Ethyl methacrylate

Concen: 2.590 ug/l

RT: 8.574 min Scan# 2250

Delta R.T. 0.241 min

Lab File: VU045926.D

Acq: 22 Nov 2021 19:47

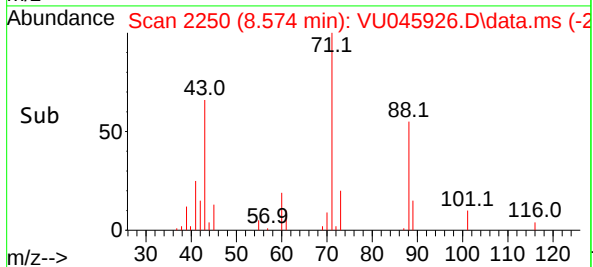
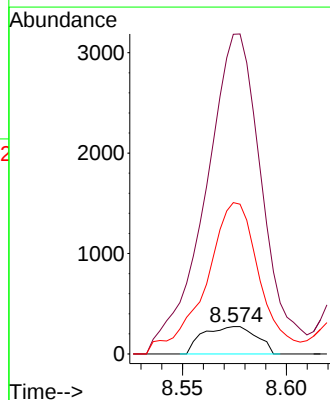
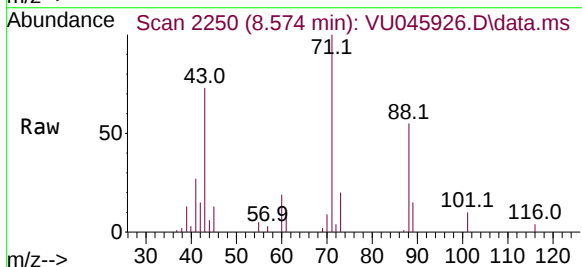
Tgt Ion: 69 Resp: 484

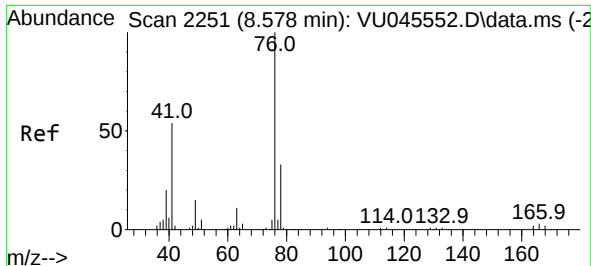
Ion Ratio Lower Upper

69 100

41 1240.7 51.0 76.4#

39 559.9 26.6 39.8#





#57

1,3-Dichloropropane

Concen: 2.600 ug/l

RT: 8.729 min Scan# 21

Delta R.T. 0.151 min

Lab File: VU045926.D

Acq: 22 Nov 2021 19:47

Instrument :

MSVOA_U

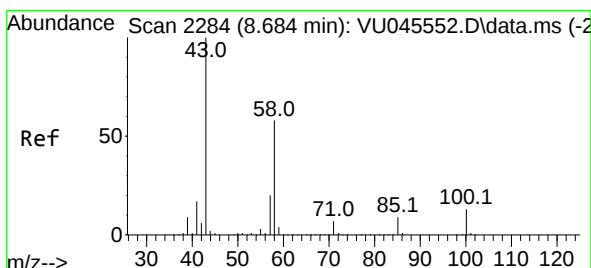
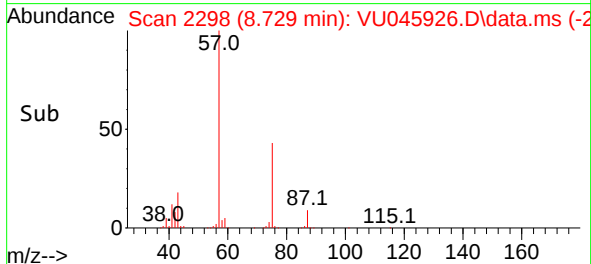
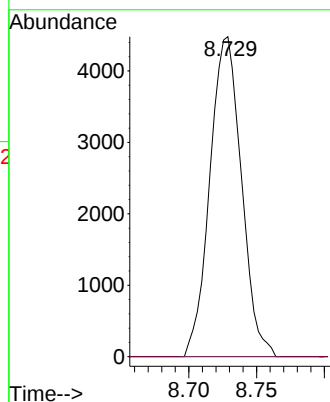
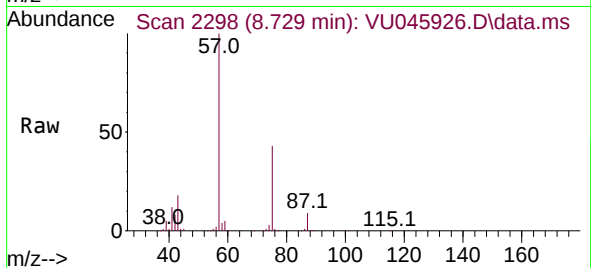
ClientSampleId :

Tgt Ion: 76 Resp: 7262

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



#59

2-Hexanone

Concen: 47.519 ug/l

RT: 8.729 min Scan# 2298

Delta R.T. 0.045 min

Lab File: VU045926.D

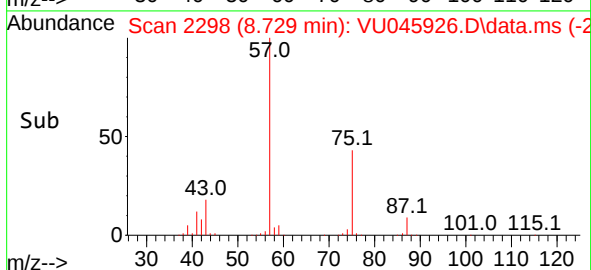
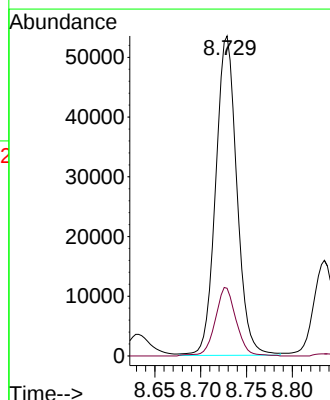
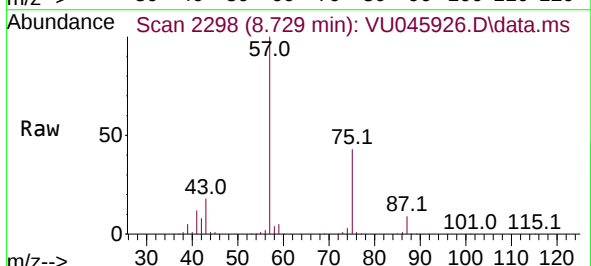
Acq: 22 Nov 2021 19:47

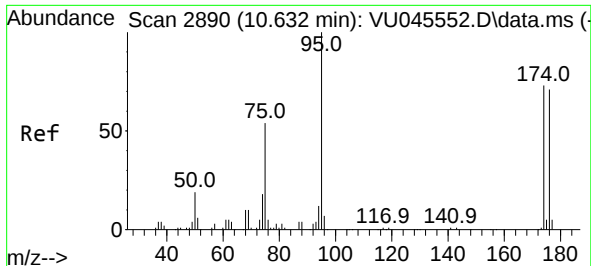
Tgt Ion: 43 Resp: 85832

Ion Ratio Lower Upper

43 100

58 21.3 29.5 88.6#

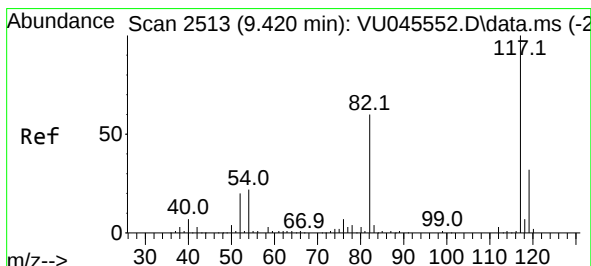
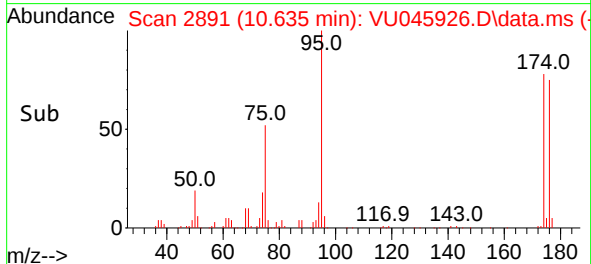
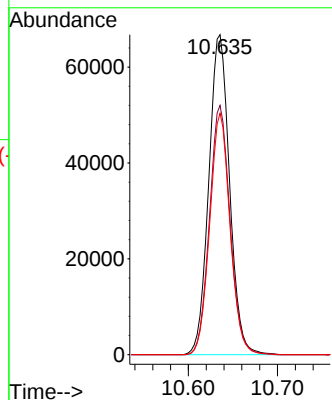
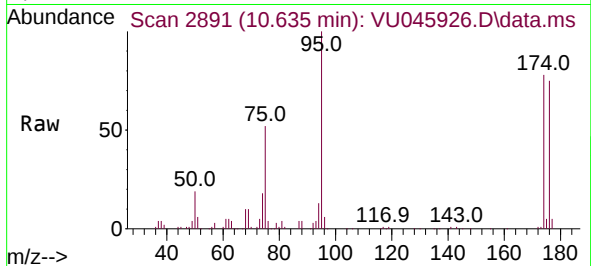




#62
4-Bromofluorobenzene
Concen: 51.312 ug/l
RT: 10.635 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU045926.D
Acq: 22 Nov 2021 19:47

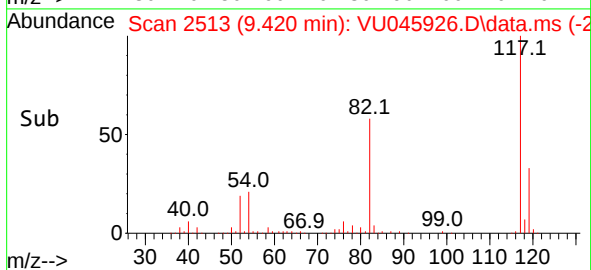
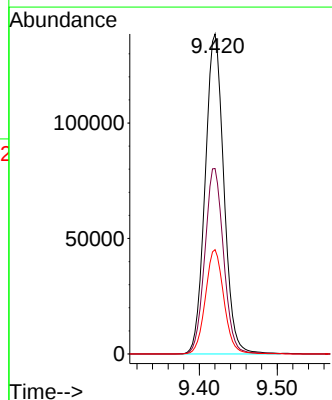
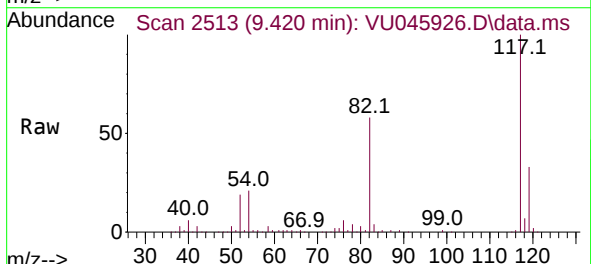
Instrument :
MSVOA_U
ClientSampleId :

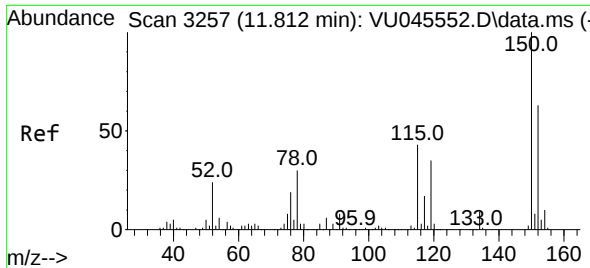
Tgt Ion: 95 Resp: 108151
Ion Ratio Lower Upper
95 100
174 77.3 0.0 141.8
176 73.6 0.0 138.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.420 min Scan# 2513
Delta R.T. 0.000 min
Lab File: VU045926.D
Acq: 22 Nov 2021 19:47

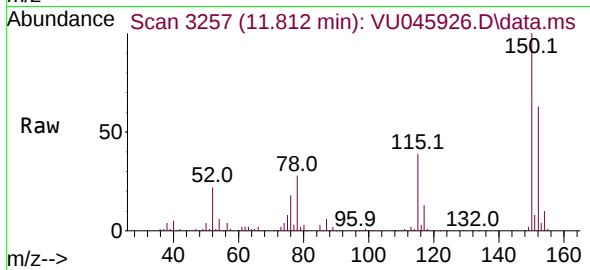
Tgt Ion: 117 Resp: 231005
Ion Ratio Lower Upper
117 100
82 57.9 47.8 71.8
119 32.6 25.8 38.8



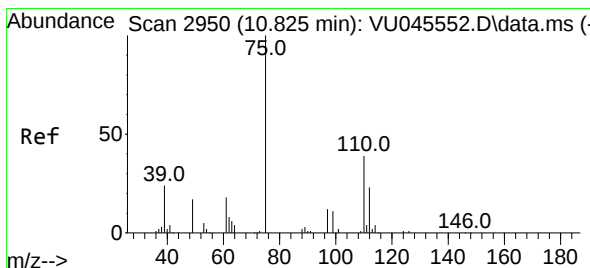
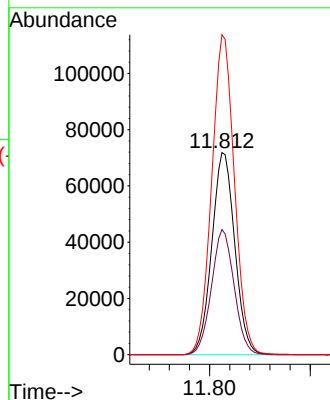
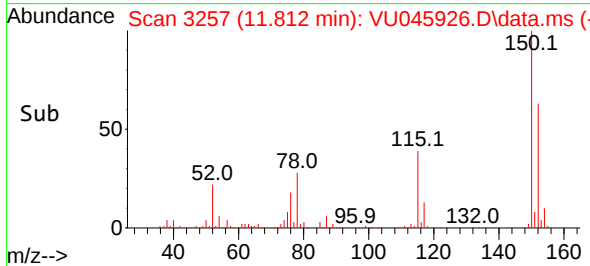


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.812 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: VU045926.D
 Acq: 22 Nov 2021 19:47

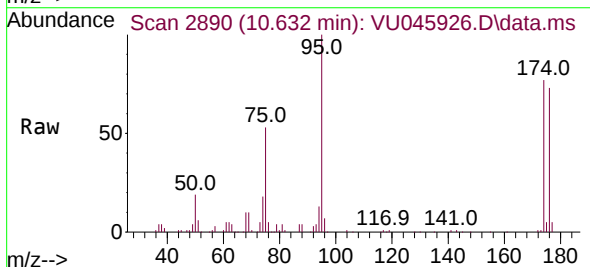
Instrument :
 MSVOA_U
 ClientSampleId :



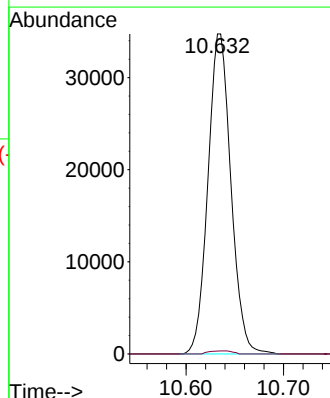
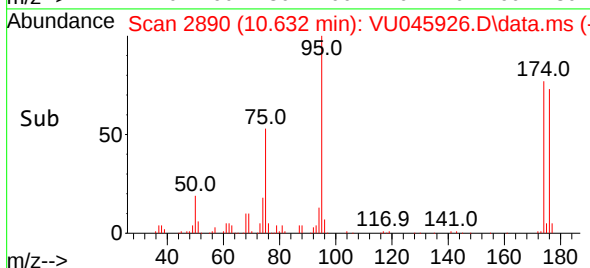
Tgt Ion:152 Resp: 113916
 Ion Ratio Lower Upper
 152 100
 115 61.0 42.7 128.1
 150 156.6 0.0 346.8

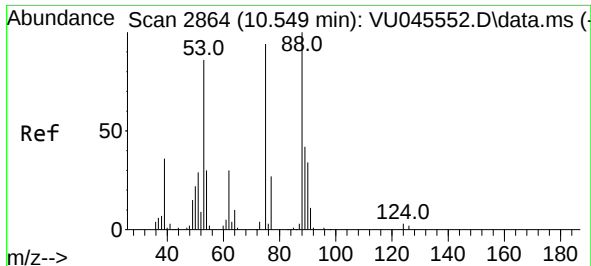


#76
 1,2,3-Trichloropropane
 Concen: 16.464 ug/l
 RT: 10.632 min Scan# 2890
 Delta R.T. -0.193 min
 Lab File: VU045926.D
 Acq: 22 Nov 2021 19:47



Tgt Ion: 75 Resp: 56878
 Ion Ratio Lower Upper
 75 100
 77 1.0 17.1 51.3#

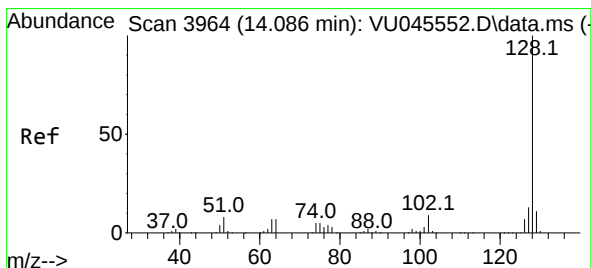
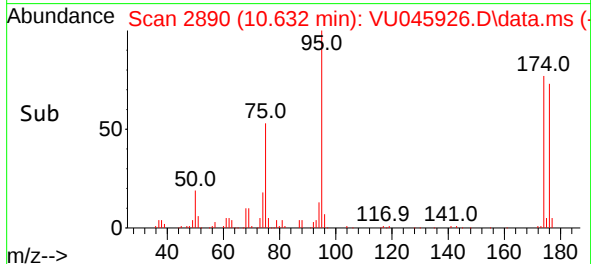
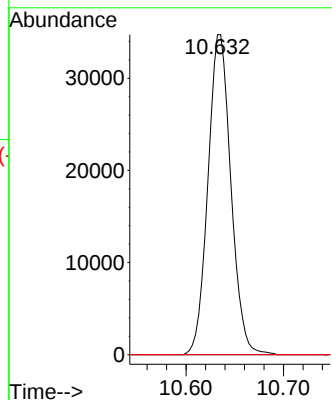
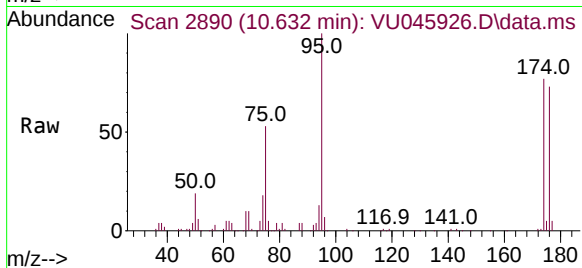




#81
trans-1,4-Dichloro-2-butene
Concen: 53.701 ug/l
RT: 10.632 min Scan# 21
Delta R.T. 0.083 min
Lab File: VU045926.D
Acq: 22 Nov 2021 19:47

Instrument :
MSVOA_U
ClientSampleId :

Tgt Ion: 75 Resp: 56878
Ion Ratio Lower Upper
75 100
53 0.0 76.2 114.4#
89 0.0 34.0 51.0#



#95
Naphthalene
Concen: 1.041 ug/l
RT: 14.089 min Scan# 3965
Delta R.T. 0.003 min
Lab File: VU045926.D
Acq: 22 Nov 2021 19:47

Tgt Ion: 128 Resp: 119
Ion Ratio Lower Upper
128 100
127 0.0 10.6 15.8#
129 0.0 8.6 13.0#

