

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120822\
 Data File : VX033333.D
 Acq On : 08 Dec 2022 18:59
 Operator : JC/MD
 Sample : N5906-13
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-23R

Quant Time: Dec 09 00:53:49 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120722W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 07 12:43:54 2022
 Response via : Initial Calibration

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

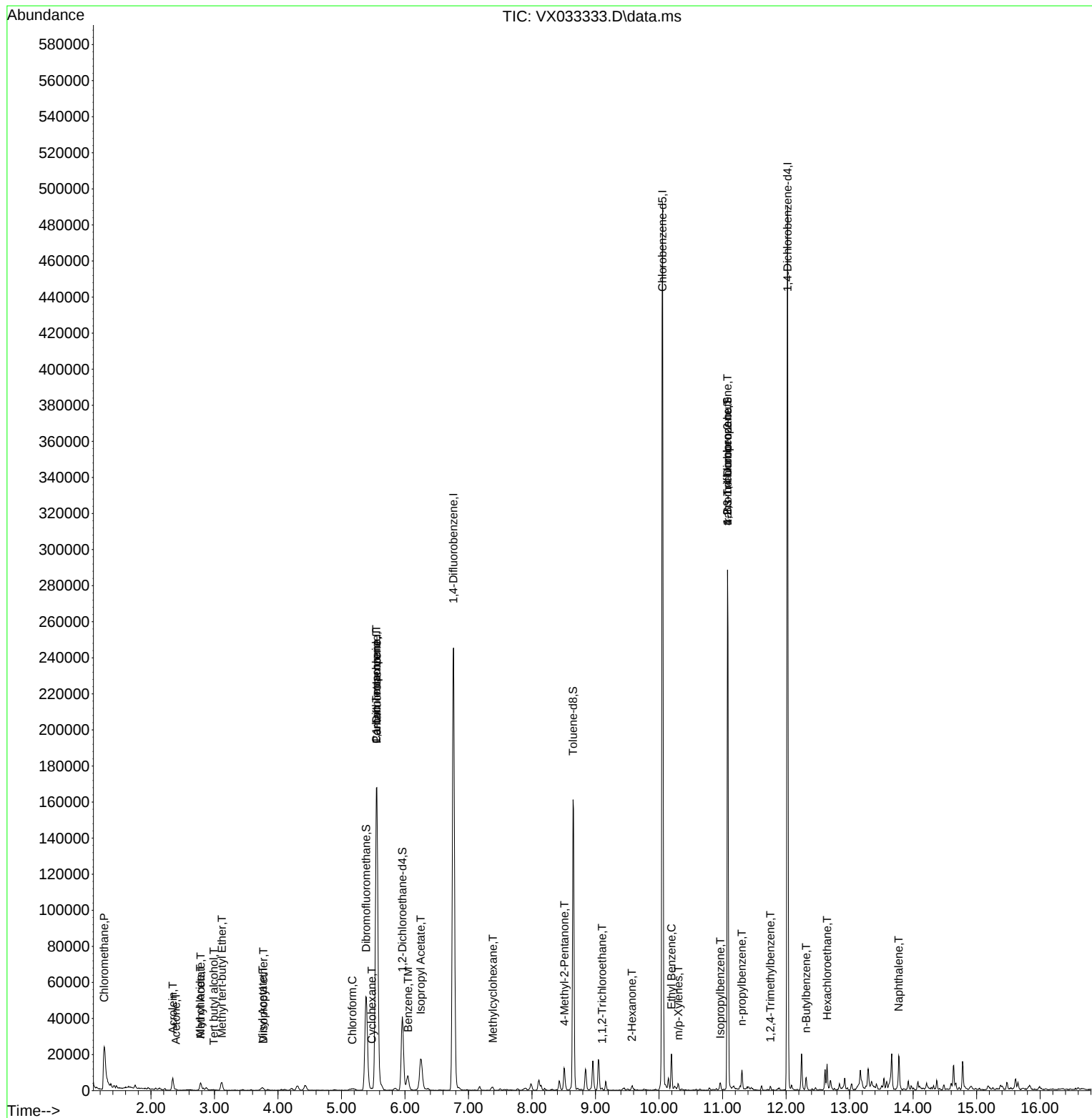
Internal Standards						
1) Pentafluorobenzene	5.556	168	164802	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	260568	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	230086	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	105791	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	40907	38.691	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	77.380%#		
35) Dibromofluoromethane	5.385	113	46791	39.925	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	79.840%		
50) Toluene-d8	8.647	98	101196	41.275	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	82.560%#		
62) 4-Bromofluorobenzene	11.079	95	76062	40.574	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	81.140%#		
Target Compounds						
					Qvalue	
3) Chloromethane	1.264	50	1123	0.844	ug/l #	43
11) Tert butyl alcohol	2.989	59	958	2.964	ug/l #	72
13) Acrolein	2.343	56	898	2.562	ug/l	90
14) Allyl chloride	2.776	41	1288	0.540	ug/l #	55
16) Acetone	2.392	43	646	0.826	ug/l #	75
18) Methyl Acetate	2.782	43	3036	1.341	ug/l #	51
19) Methyl tert-butyl Ether	3.117	73	4476	0.865	ug/l #	61
22) Diisopropyl ether	3.770	45	1260	0.246	ug/l #	82
23) Vinyl Acetate	3.757	43	813	0.205	ug/l #	72
30) Chloroform	5.172	83	671	0.201	ug/l #	18
31) Cyclohexane	5.477	56	576	0.229	ug/l #	74
36) 1,1-Dichloropropene	5.550	75	11931	5.222	ug/l #	46
38) Carbon Tetrachloride	5.550	117	17146	6.697	ug/l #	16
39) Methylcyclohexane	7.385	83	784	0.307	ug/l	86
40) Benzene	6.050	78	9850	1.478	ug/l	97
43) Isopropyl Acetate	6.245	43	4652	1.339	ug/l #	61
51) 4-Methyl-2-Pentanone	8.513	43	1310	0.596	ug/l #	46
55) 1,1,2-Trichloroethane	9.104	97	375	0.207	ug/l #	15
59) 2-Hexanone	9.573	43	528	0.326	ug/l	91
67) Ethyl Benzene	10.195	91	12010	1.480	ug/l	98
68) m/p-Xylenes	10.305	106	858	0.272	ug/l	92
73) Isopropylbenzene	10.963	105	2324	0.303	ug/l	98
76) 1,2,3-Trichloropropane	11.079	75	38506	17.890	ug/l #	37
78) n-propylbenzene	11.305	91	6757	0.789	ug/l	97
81) trans-1,4-Dichloro-2-b...	11.079	75	38506	55.651	ug/l #	6
84) 1,2,4-Trimethylbenzene	11.756	105	1276	0.200	ug/l	100
89) n-Butylbenzene	12.317	91	1144	0.218	ug/l #	30
90) Hexachloroethane	12.646	117	4707	4.325	ug/l #	12
95) Naphthalene	13.774	128	14023	1.985	ug/l #	96

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

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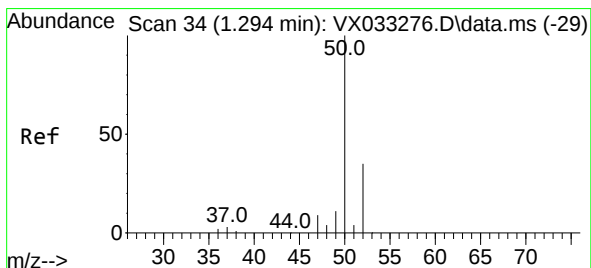
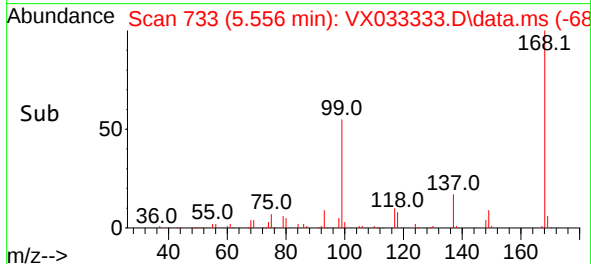
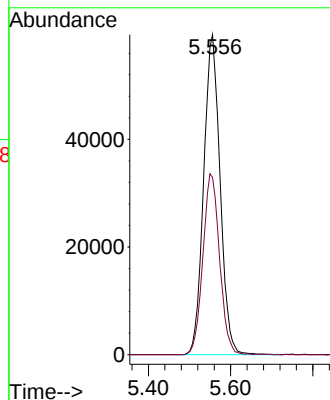
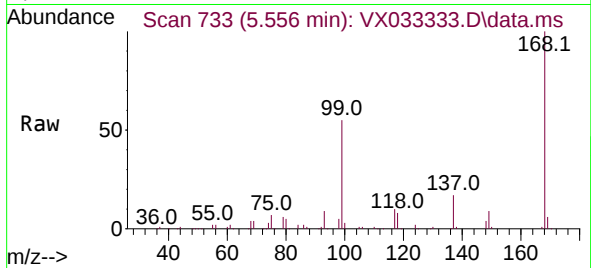




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX033333.D
Acq: 08 Dec 2022 18:59

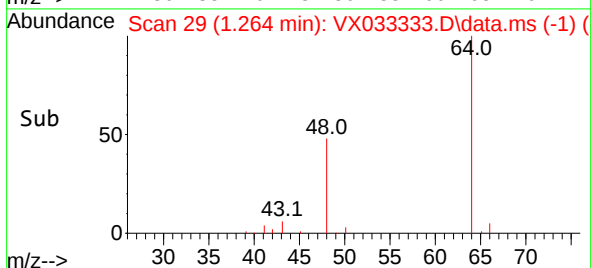
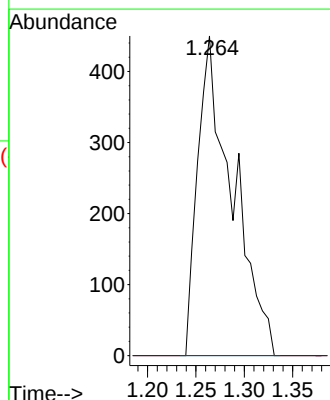
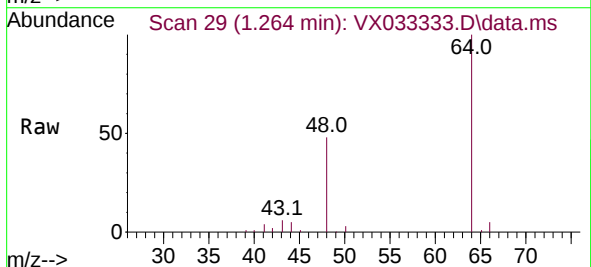
Instrument :
MSVOA_X
ClientSampleId :
MW-23R

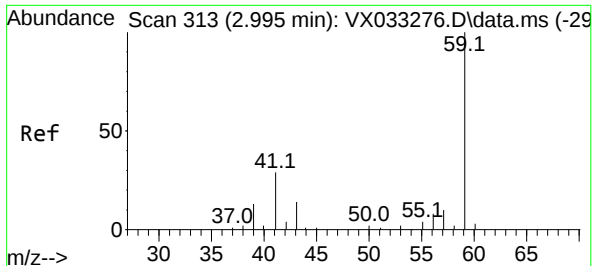
Tgt Ion:168 Resp: 164802
Ion Ratio Lower Upper
168 100
99 55.4 46.1 69.1



#3
Chloromethane
Concen: 0.844 ug/l
RT: 1.264 min Scan# 29
Delta R.T. -0.030 min
Lab File: VX033333.D
Acq: 08 Dec 2022 18:59

Tgt Ion: 50 Resp: 1123
Ion Ratio Lower Upper
50 100
52 0.0 25.4 38.2#





#11

Tert butyl alcohol

Concen: 2.964 ug/l

RT: 2.989 min Scan# 31

Delta R.T. -0.006 min

Lab File: VX033333.D

Acq: 08 Dec 2022 18:59

Instrument :

MSVOA_X

ClientSampleId :

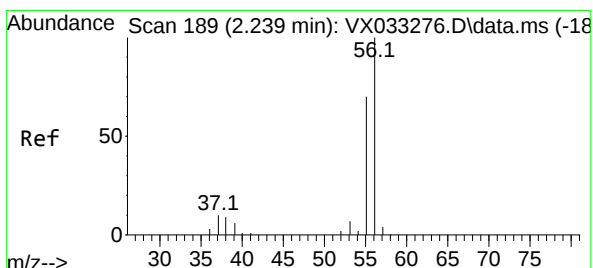
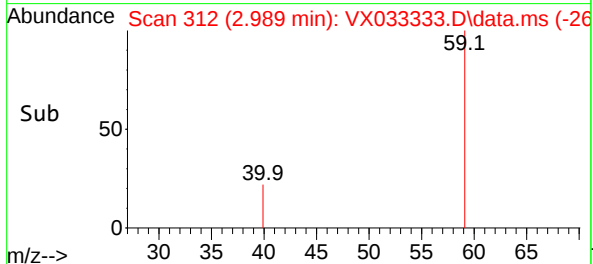
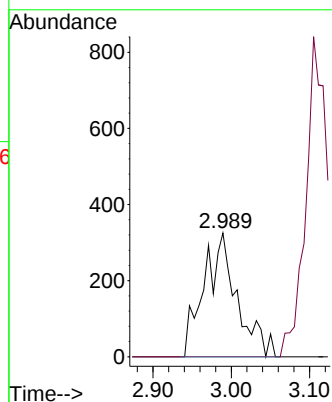
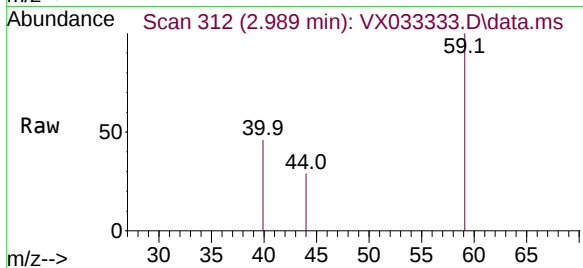
MW-23R

Tgt Ion: 59 Resp: 958

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



#13

Acrolein

Concen: 2.562 ug/l

RT: 2.343 min Scan# 206

Delta R.T. 0.104 min

Lab File: VX033333.D

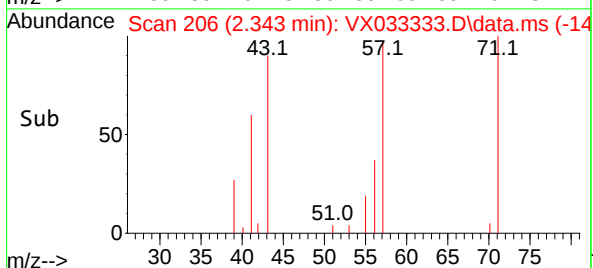
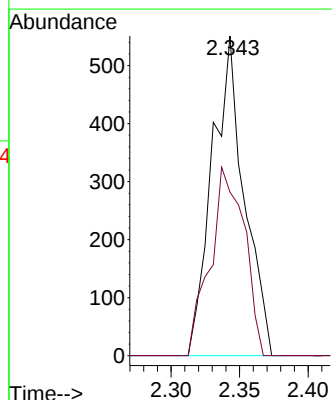
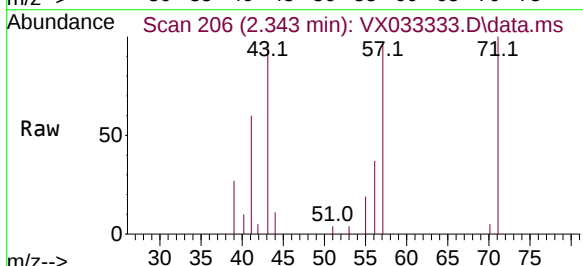
Acq: 08 Dec 2022 18:59

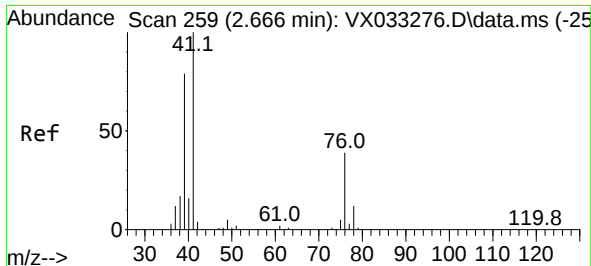
Tgt Ion: 56 Resp: 898

Ion Ratio Lower Upper

56 100

55 62.7 56.9 85.3

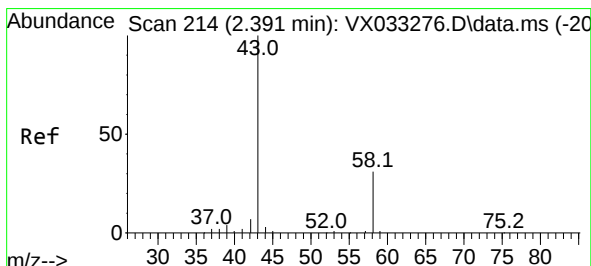
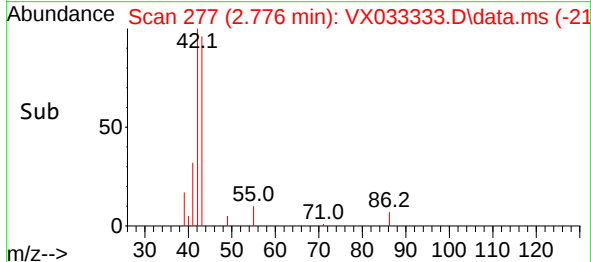
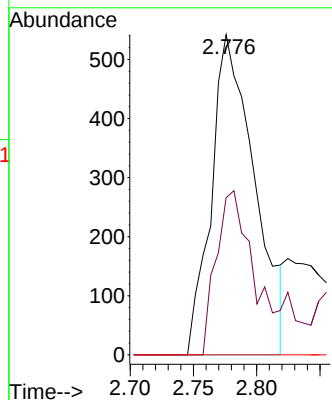
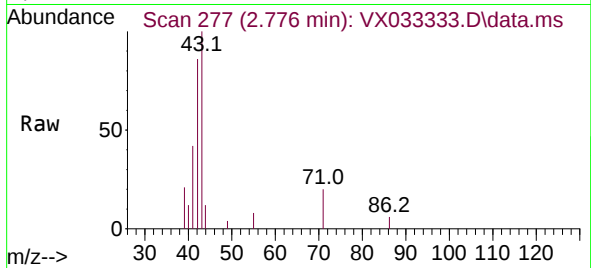




#14
 Allyl chloride
 Concen: 0.540 ug/l
 RT: 2.776 min Scan# 21
 Delta R.T. 0.110 min
 Lab File: VX033333.D
 Acq: 08 Dec 2022 18:59

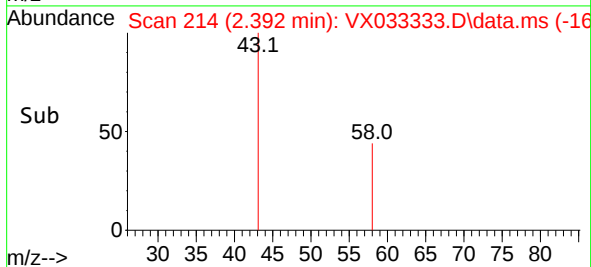
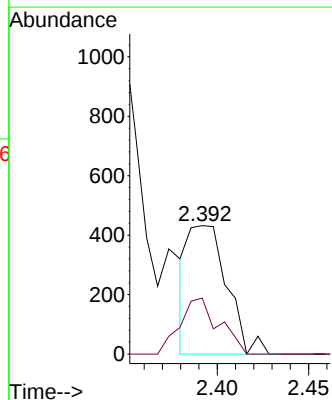
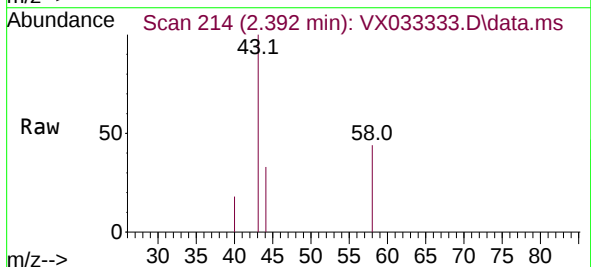
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-23R

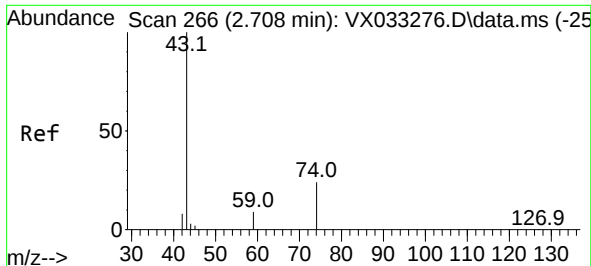
Tgt Ion: 41 Resp: 1288
 Ion Ratio Lower Upper
 41 100
 39 45.3 61.4 92.2#
 76 0.0 29.2 43.8#



#16
 Acetone
 Concen: 0.826 ug/l
 RT: 2.392 min Scan# 214
 Delta R.T. 0.000 min
 Lab File: VX033333.D
 Acq: 08 Dec 2022 18:59

Tgt Ion: 43 Resp: 646
 Ion Ratio Lower Upper
 43 100
 58 43.5 23.8 35.8#

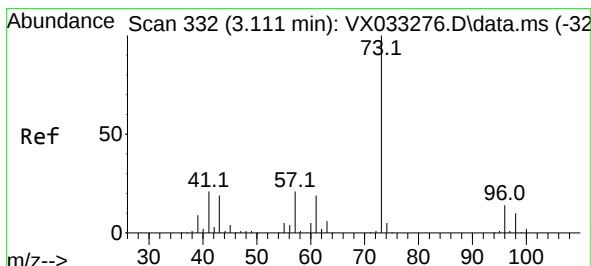
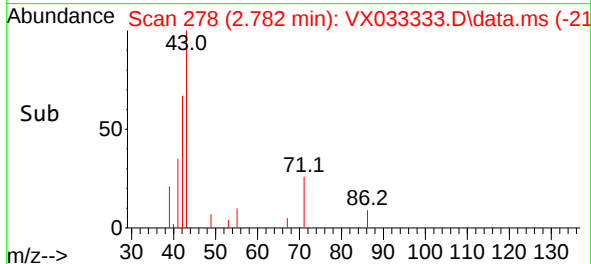
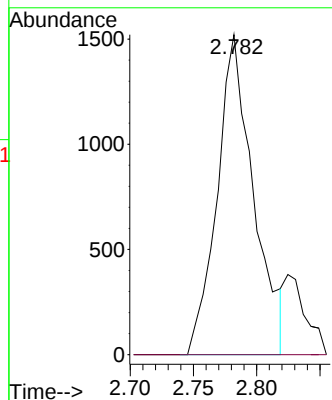
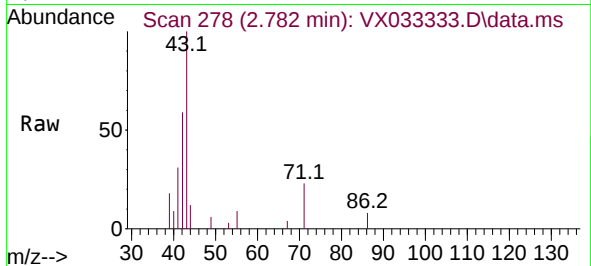




#18
Methyl Acetate
Concen: 1.341 ug/l
RT: 2.782 min Scan# 21
Delta R.T. 0.073 min
Lab File: VX033333.D
Acq: 08 Dec 2022 18:59

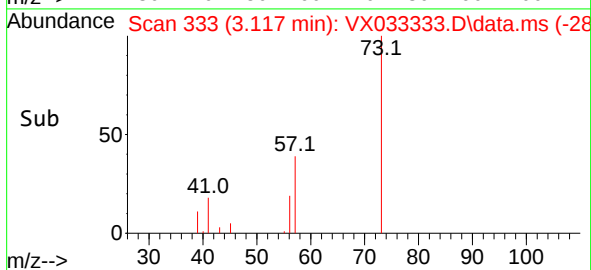
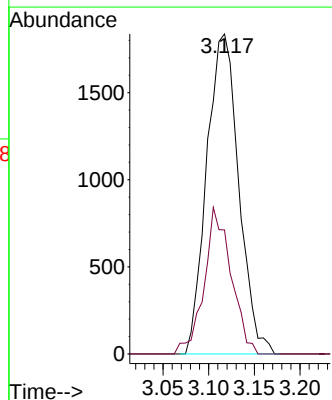
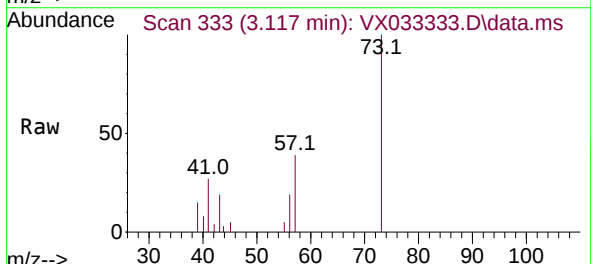
Instrument :
MSVOA_X
ClientSampleId :
MW-23R

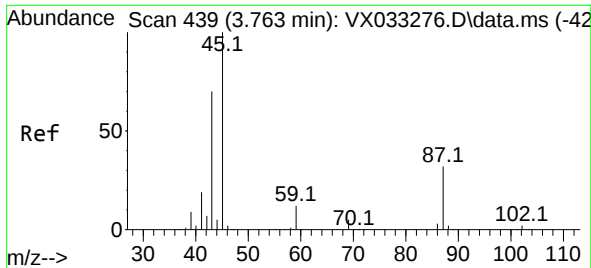
Tgt Ion: 43 Resp: 3036
Ion Ratio Lower Upper
43 100
74 0.0 19.4 29.0#



#19
Methyl tert-butyl Ether
Concen: 0.865 ug/l
RT: 3.117 min Scan# 333
Delta R.T. 0.006 min
Lab File: VX033333.D
Acq: 08 Dec 2022 18:59

Tgt Ion: 73 Resp: 4476
Ion Ratio Lower Upper
73 100
57 38.8 16.6 25.0#

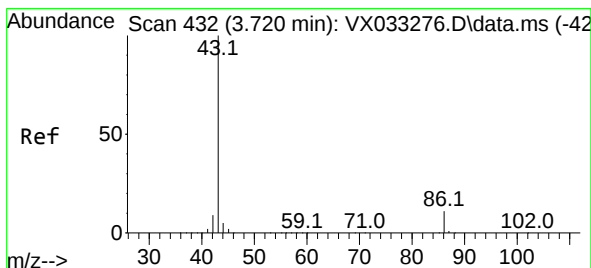
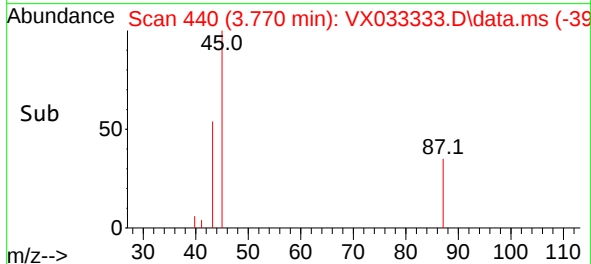
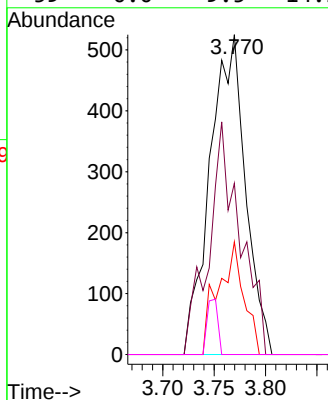
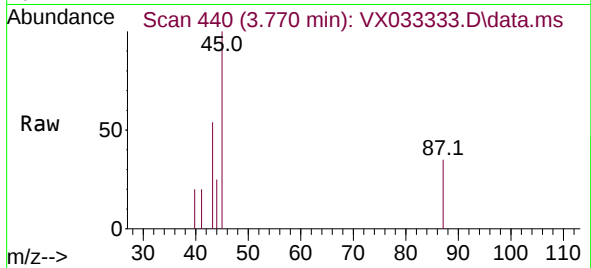




#22
Diisopropyl ether
Concen: 0.246 ug/l
RT: 3.770 min Scan# 440
Delta R.T. 0.006 min
Lab File: VX033333.D
Acq: 08 Dec 2022 18:59

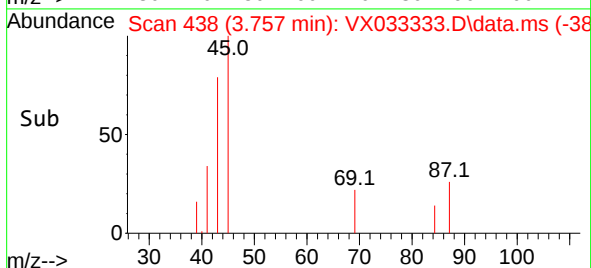
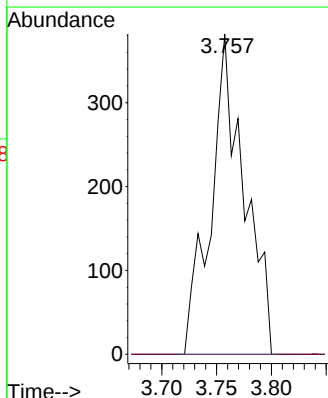
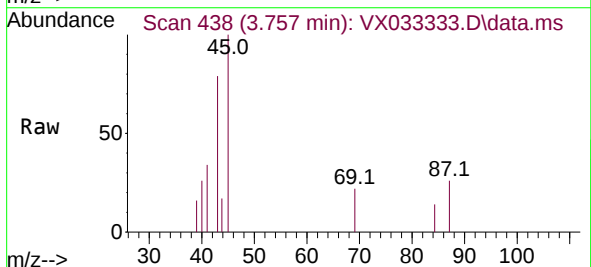
Instrument :
MSVOA_X
ClientSampleId :
MW-23R

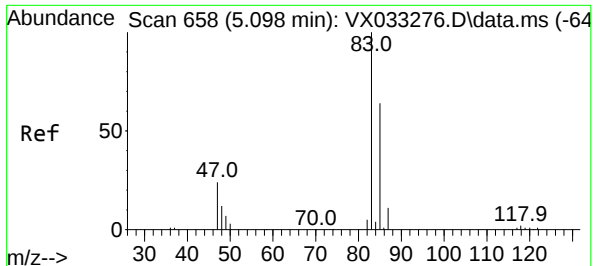
Tgt Ion: 45	Resp: 1260
Ion Ratio	Lower Upper
45	100
43	53.5 56.4 84.6#
87	35.2 24.4 36.6
59	0.0 9.5 14.3#



#23
Vinyl Acetate
Concen: 0.205 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.037 min
Lab File: VX033333.D
Acq: 08 Dec 2022 18:59

Tgt Ion: 43	Resp: 813
Ion Ratio	Lower Upper
43	100
86	0.0 8.6 12.8#





#30

Chloroform

Concen: 0.201 ug/l

RT: 5.172 min Scan# 6

Delta R.T. 0.073 min

Lab File: VX033333.D

Acq: 08 Dec 2022 18:59

Instrument :

MSVOA_X

ClientSampleId :

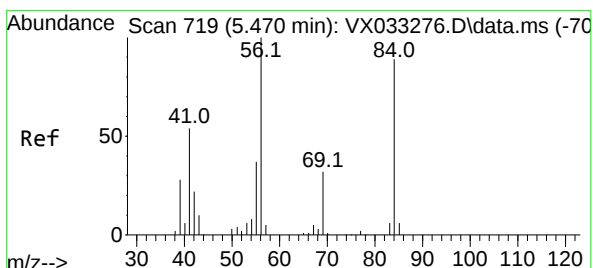
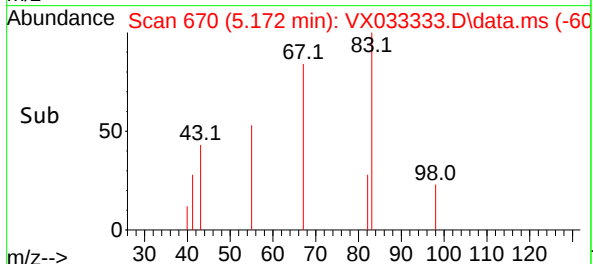
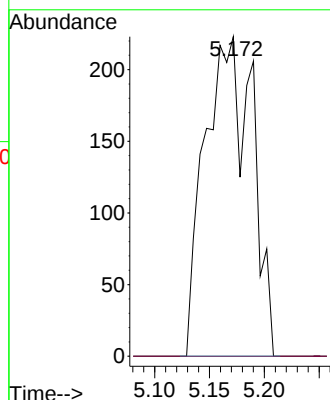
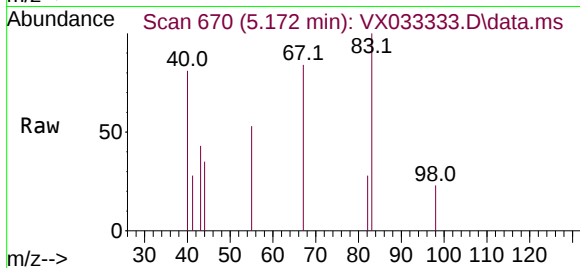
MW-23R

Tgt Ion: 83 Resp: 671

Ion Ratio Lower Upper

83 100

85 0.0 51.1 76.7#



#31

Cyclohexane

Concen: 0.229 ug/l

RT: 5.477 min Scan# 720

Delta R.T. 0.006 min

Lab File: VX033333.D

Acq: 08 Dec 2022 18:59

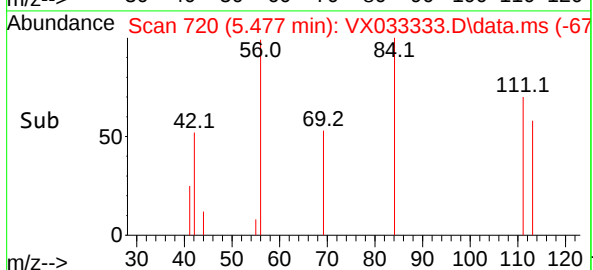
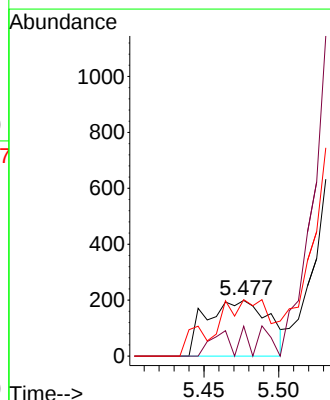
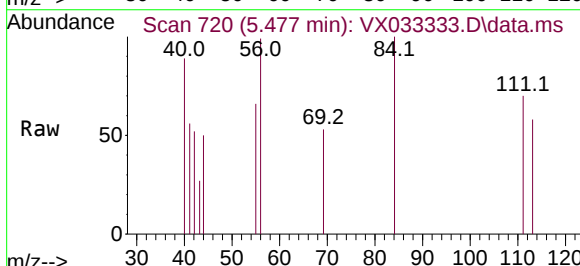
Tgt Ion: 56 Resp: 576

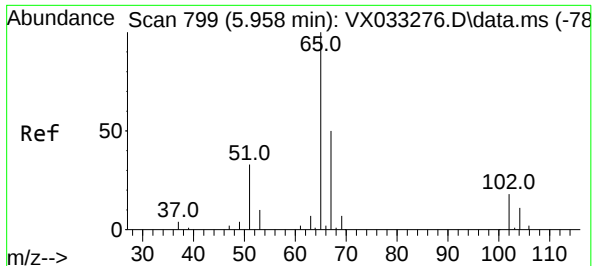
Ion Ratio Lower Upper

56 100

69 53.8 24.1 36.1#

84 101.5 66.9 100.3#





#33

1,2-Dichloroethane-d4

Concen: 38.691 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.000 min

Lab File: VX033333.D

Acq: 08 Dec 2022 18:59

Instrument :

MSVOA_X

ClientSampleId :

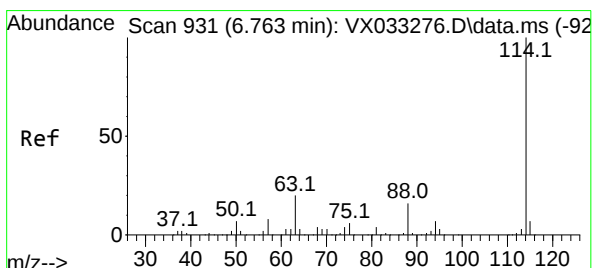
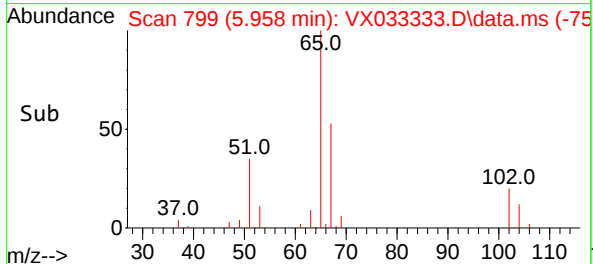
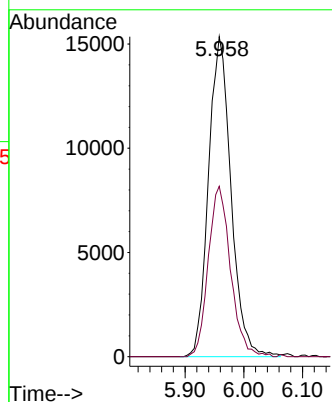
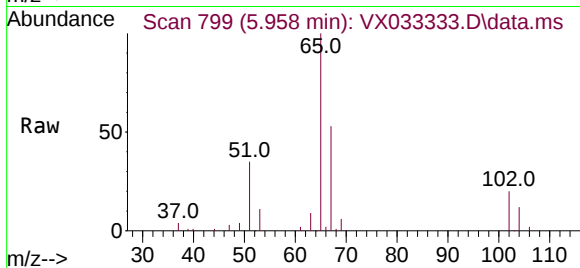
MW-23R

Tgt Ion: 65 Resp: 40907

Ion Ratio Lower Upper

65 100

67 52.7 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. 0.000 min

Lab File: VX033333.D

Acq: 08 Dec 2022 18:59

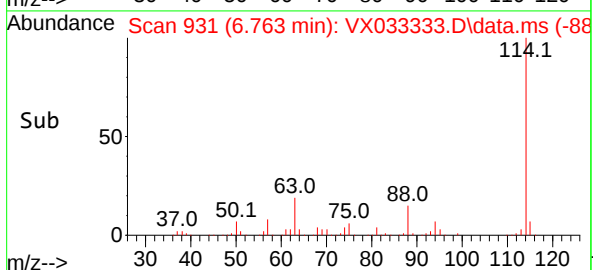
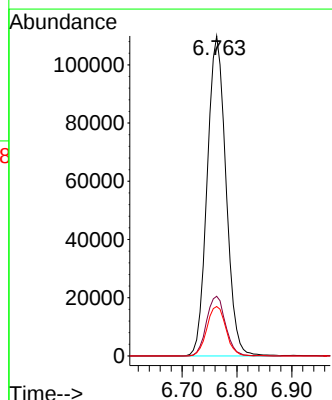
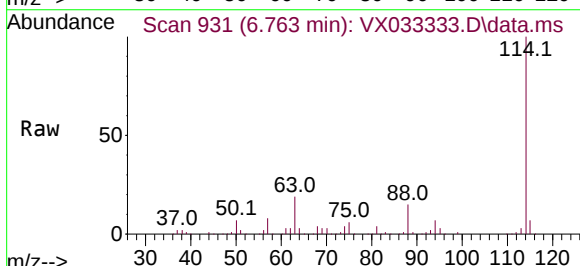
Tgt Ion: 114 Resp: 260568

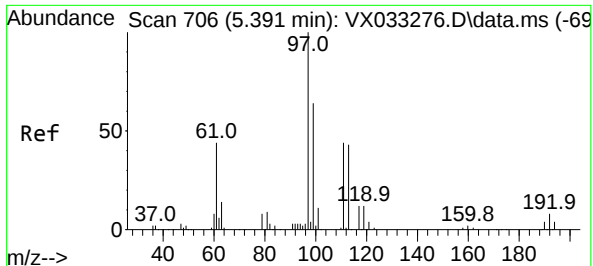
Ion Ratio Lower Upper

114 100

63 18.6 0.0 41.6

88 15.4 0.0 33.4





#35

Dibromofluoromethane

Concen: 39.925 ug/l

RT: 5.385 min Scan# 705

Delta R.T. -0.006 min

Lab File: VX033333.D

Acq: 08 Dec 2022 18:59

Instrument :

MSVOA_X

ClientSampleId :

MW-23R

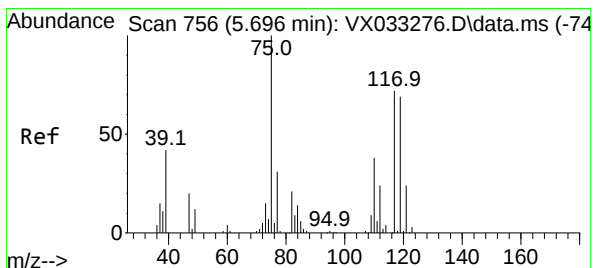
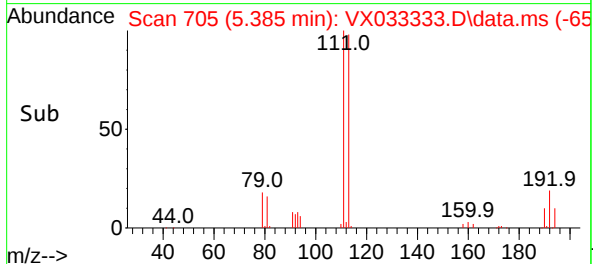
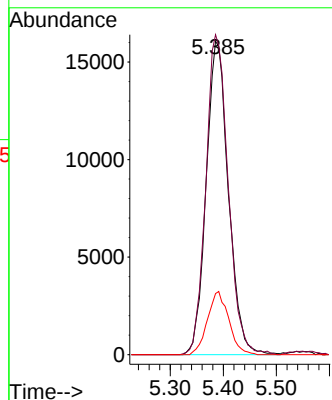
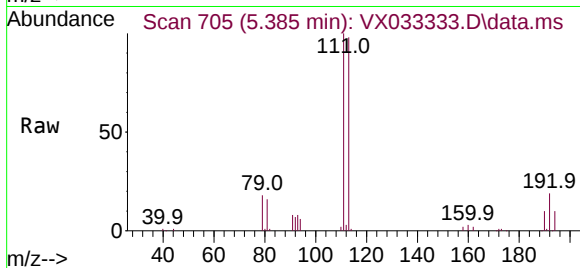
Tgt Ion:113 Resp: 46791

Ion Ratio Lower Upper

113 100

111 102.8 82.4 123.6

192 19.3 15.4 23.2



#36

1,1-Dichloropropene

Concen: 5.222 ug/l

RT: 5.550 min Scan# 732

Delta R.T. -0.146 min

Lab File: VX033333.D

Acq: 08 Dec 2022 18:59

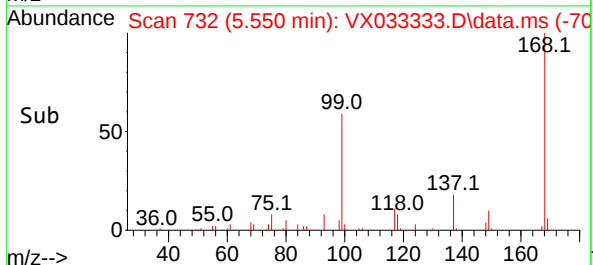
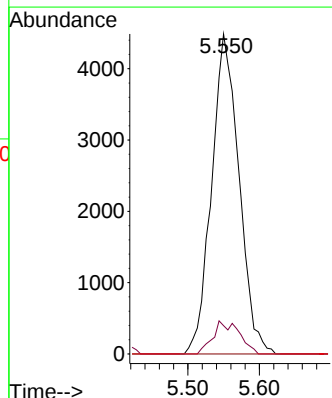
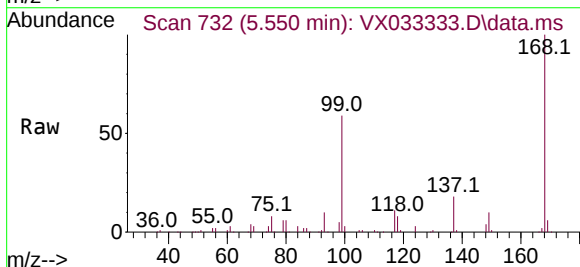
Tgt Ion: 75 Resp: 11931

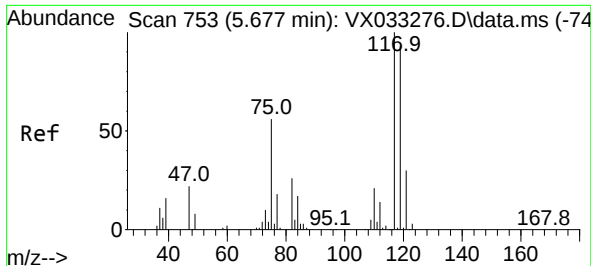
Ion Ratio Lower Upper

75 100

110 5.6 18.4 55.2#

77 0.0 24.5 36.7#

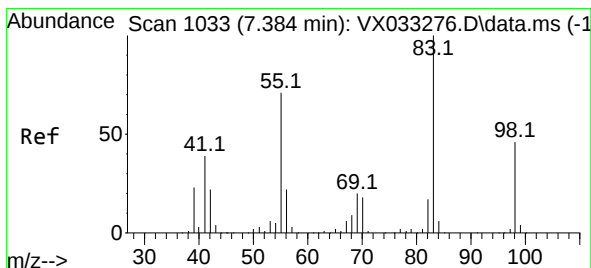
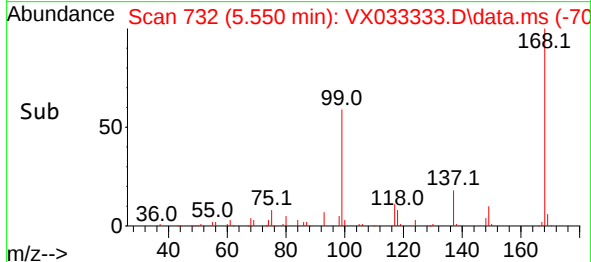
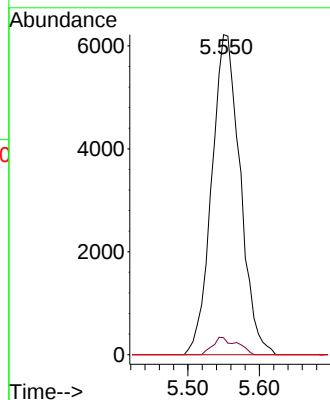
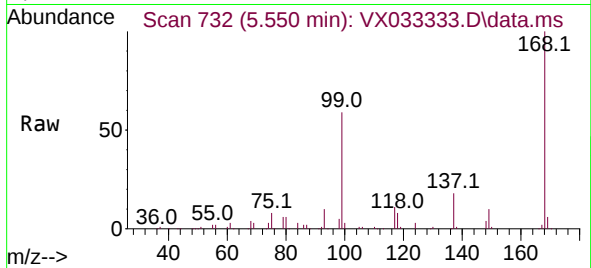




#38
Carbon Tetrachloride
Concen: 6.697 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.128 min
Lab File: VX033333.D
Acq: 08 Dec 2022 18:59

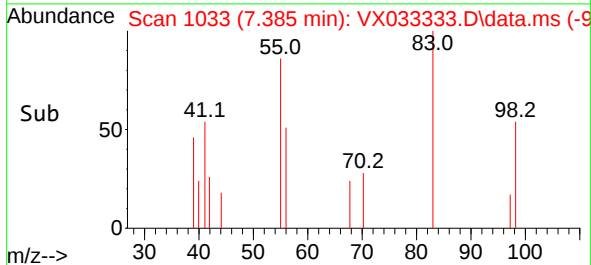
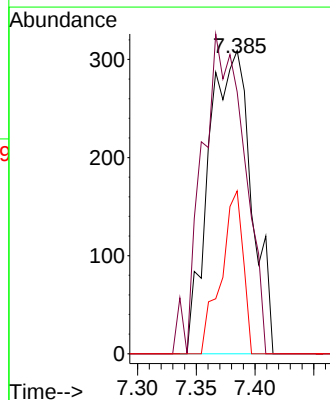
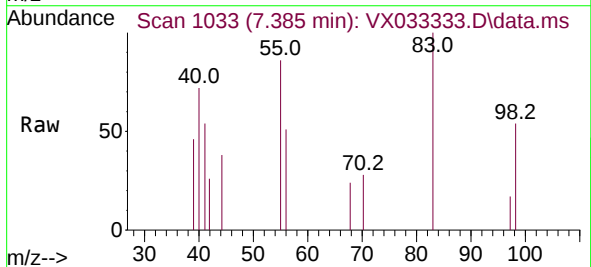
Instrument :
MSVOA_X
ClientSampleId :
MW-23R

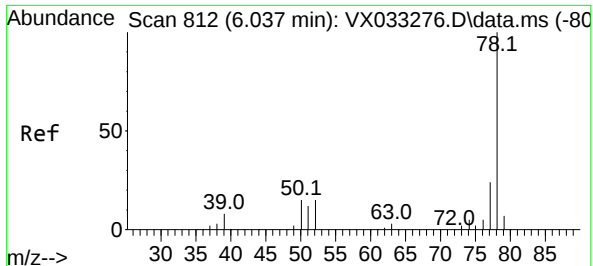
Tgt Ion:117 Resp: 17146
Ion Ratio Lower Upper
117 100
119 5.3 77.2 115.8#
121 0.0 25.8 38.6#



#39
Methylcyclohexane
Concen: 0.307 ug/l
RT: 7.385 min Scan# 1033
Delta R.T. 0.000 min
Lab File: VX033333.D
Acq: 08 Dec 2022 18:59

Tgt Ion: 83 Resp: 784
Ion Ratio Lower Upper
83 100
55 86.4 58.4 87.6
98 53.7 37.2 55.8

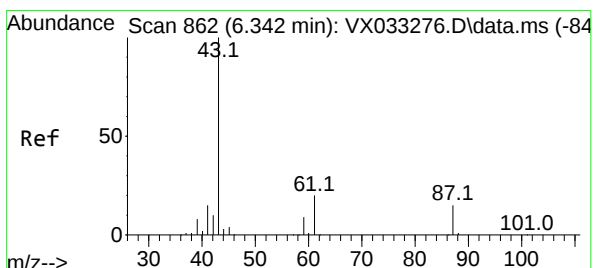
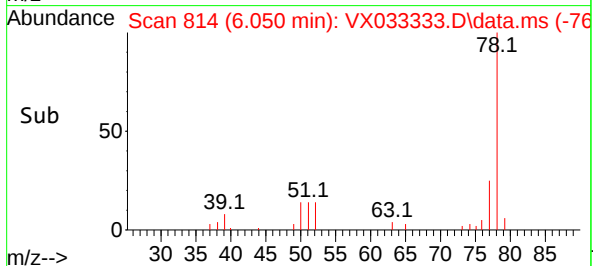
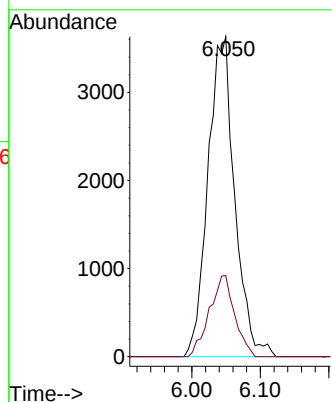
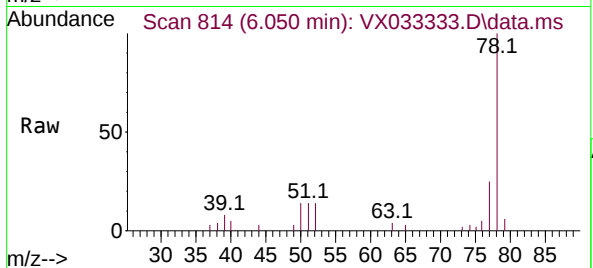




#40
Benzene
Concen: 1.478 ug/l
RT: 6.050 min Scan# 814
Delta R.T. 0.012 min
Lab File: VX033333.D
Acq: 08 Dec 2022 18:59

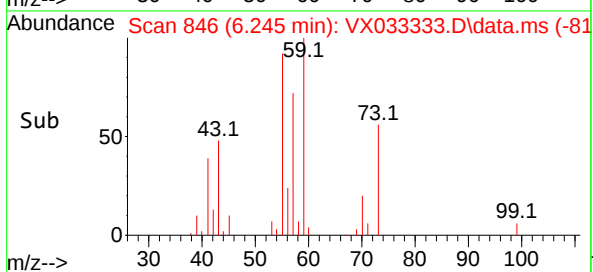
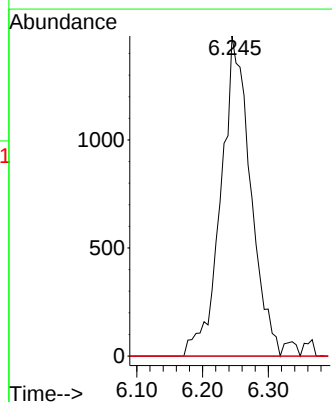
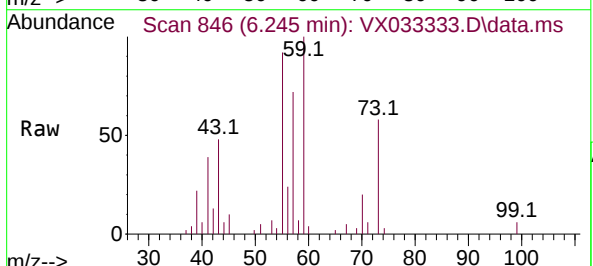
Instrument :
MSVOA_X
ClientSampleId :
MW-23R

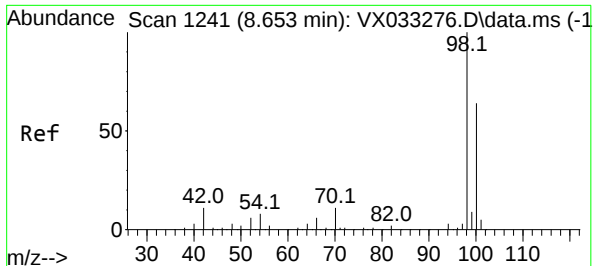
Tgt Ion: 78 Resp: 9850
Ion Ratio Lower Upper
78 100
77 25.4 19.0 28.4



#43
Isopropyl Acetate
Concen: 1.339 ug/l
RT: 6.245 min Scan# 846
Delta R.T. -0.097 min
Lab File: VX033333.D
Acq: 08 Dec 2022 18:59

Tgt Ion: 43 Resp: 4652
Ion Ratio Lower Upper
43 100
61 0.0 15.4 23.0#
87 0.0 10.8 16.2#

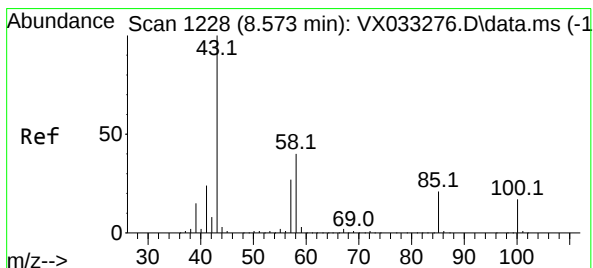
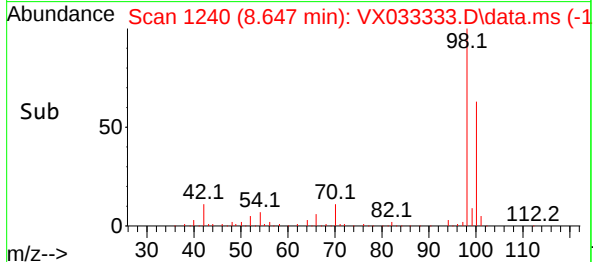
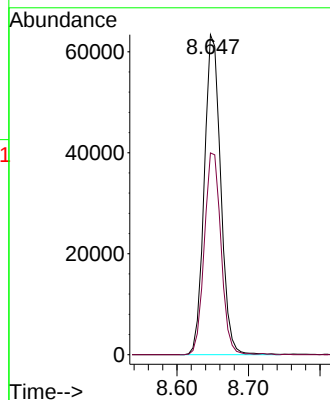
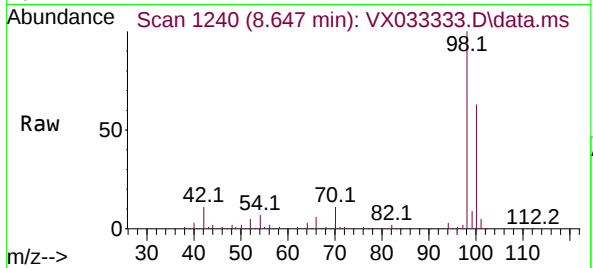




#50
Toluene-d8
Concen: 41.275 ug/l
RT: 8.647 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX033333.D
Acq: 08 Dec 2022 18:59

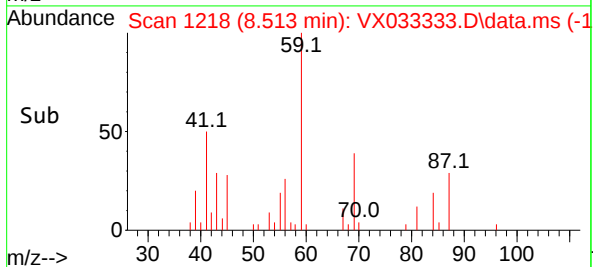
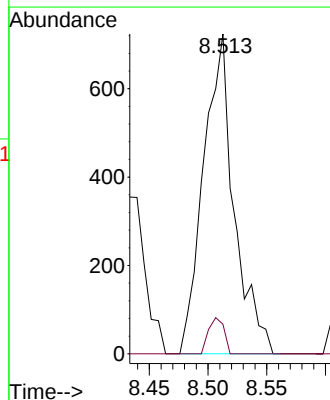
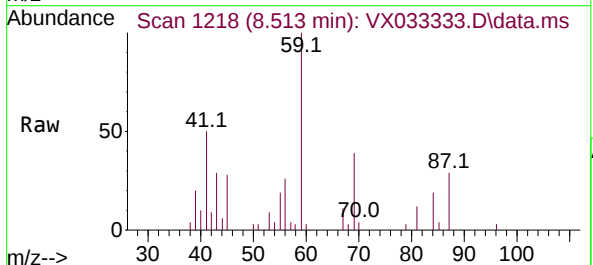
Instrument :
MSVOA_X
ClientSampleId :
MW-23R

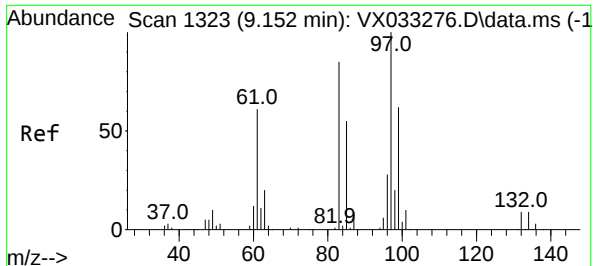
Tgt Ion: 98 Resp: 101196
Ion Ratio Lower Upper
98 100
100 63.8 50.9 76.3



#51
4-Methyl-2-Pentanone
Concen: 0.596 ug/l
RT: 8.513 min Scan# 1218
Delta R.T. -0.061 min
Lab File: VX033333.D
Acq: 08 Dec 2022 18:59

Tgt Ion: 43 Resp: 1310
Ion Ratio Lower Upper
43 100
58 5.7 30.9 46.3#

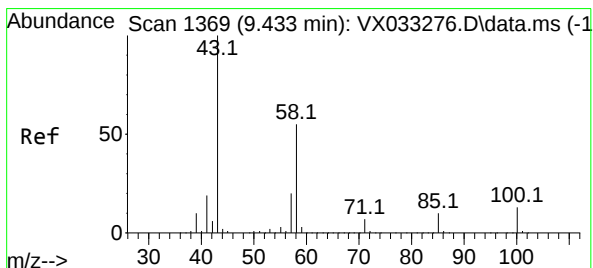
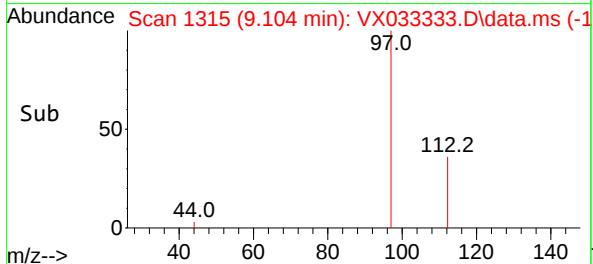
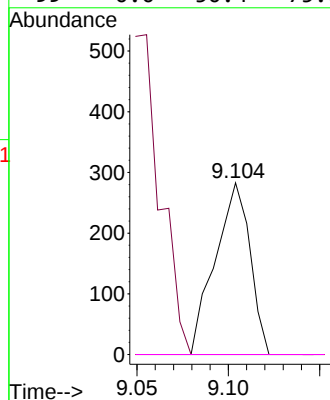
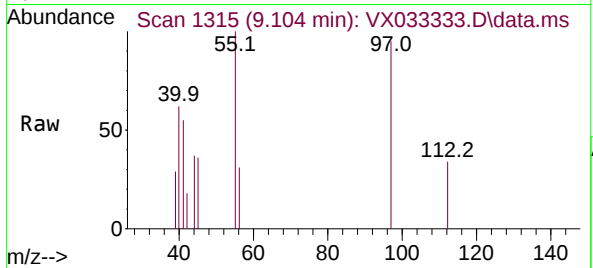




#55
1,1,2-Trichloroethane
Concen: 0.207 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. -0.048 min
Lab File: VX033333.D
Acq: 08 Dec 2022 18:59

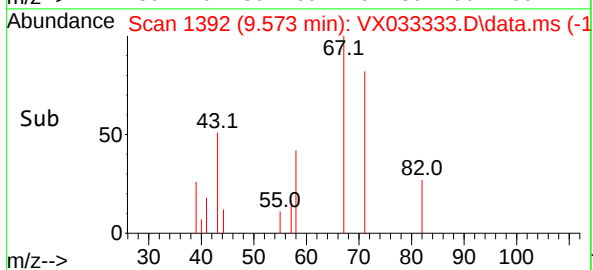
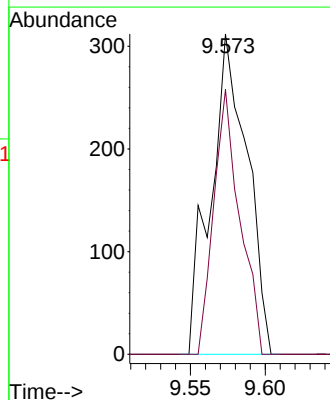
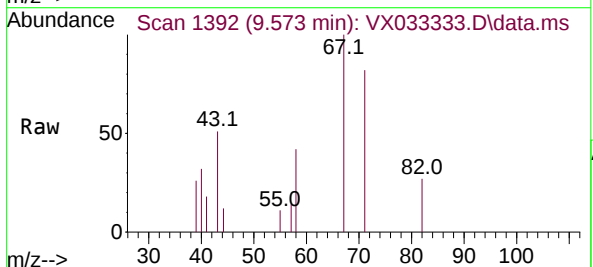
Instrument :
MSVOA_X
ClientSampleId :
MW-23R

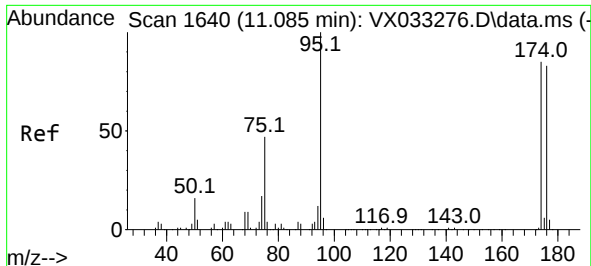
Tgt Ion: 97	Resp:	375	
Ion	Ratio	Lower	Upper
97	100		
83	0.0	68.1	102.1#
85	0.0	43.3	64.9#
99	0.0	50.4	75.6#



#59
2-Hexanone
Concen: 0.326 ug/l
RT: 9.573 min Scan# 1392
Delta R.T. 0.141 min
Lab File: VX033333.D
Acq: 08 Dec 2022 18:59

Tgt Ion: 43	Resp:	528	
Ion	Ratio	Lower	Upper
43	100		
58	59.3	26.5	79.5

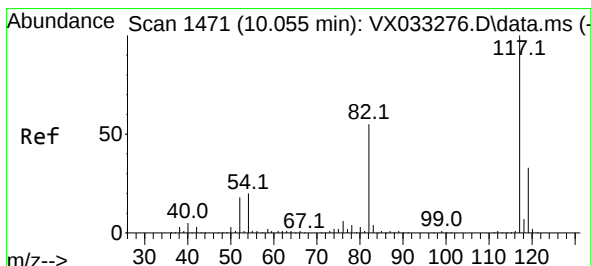
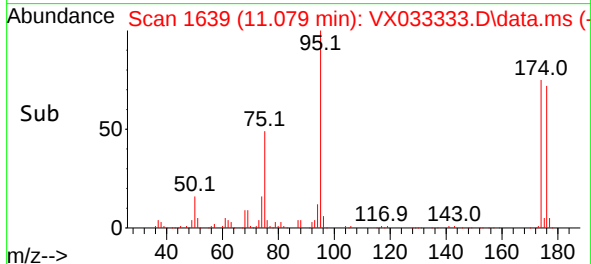
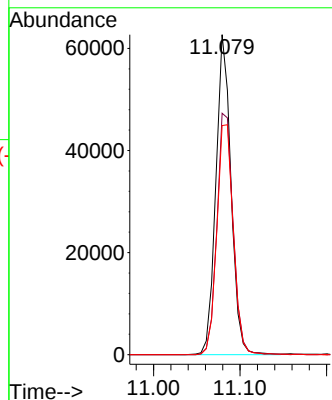
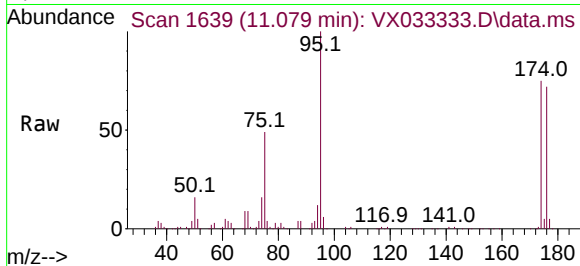




#62
4-Bromofluorobenzene
Concen: 40.574 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.006 min
Lab File: VX033333.D
Acq: 08 Dec 2022 18:59

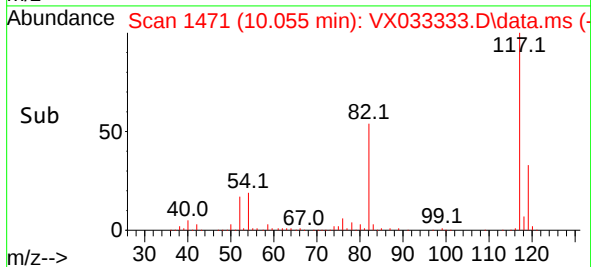
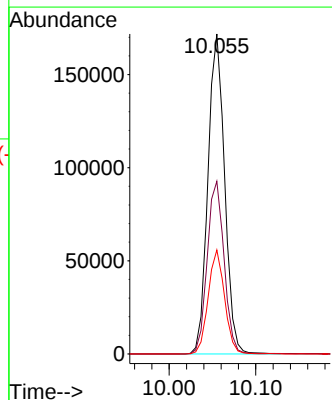
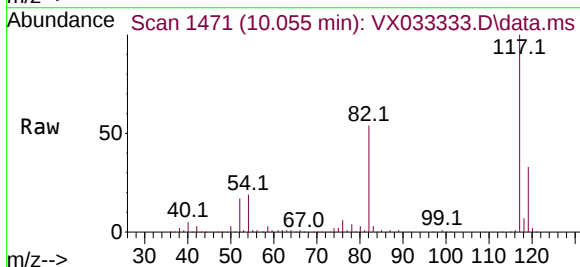
Instrument :
MSVOA_X
ClientSampleId :
MW-23R

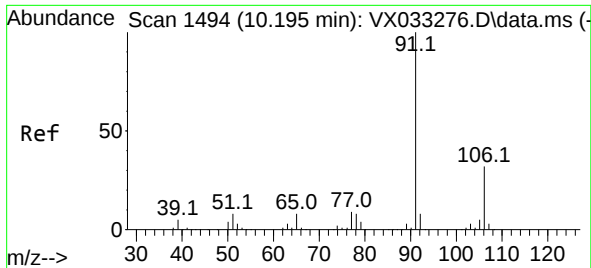
Tgt Ion: 95 Resp: 76062
Ion Ratio Lower Upper
95 100
174 81.1 0.0 164.0
176 78.5 0.0 154.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX033333.D
Acq: 08 Dec 2022 18:59

Tgt Ion: 117 Resp: 230086
Ion Ratio Lower Upper
117 100
82 54.0 44.3 66.5
119 32.5 25.7 38.5

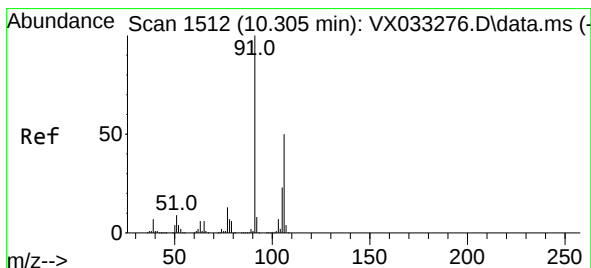
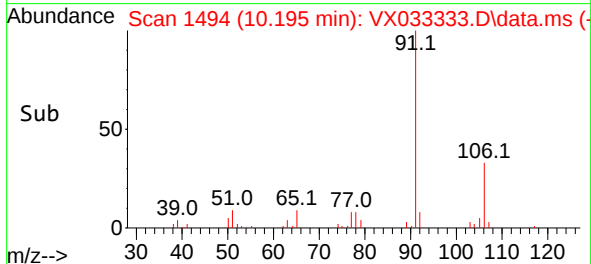
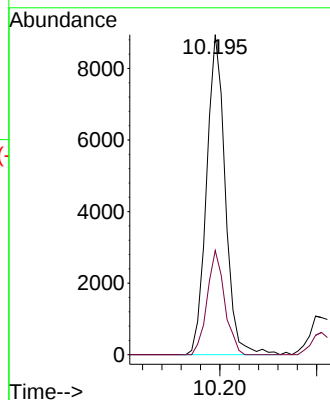
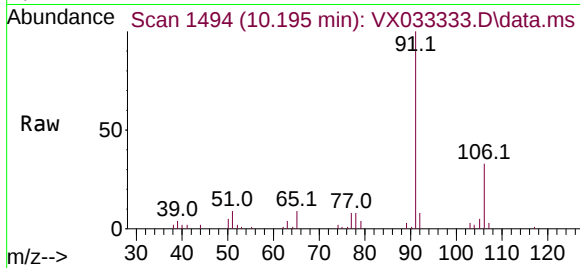




#67
Ethyl Benzene
Concen: 1.480 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.000 min
Lab File: VX033333.D
Acq: 08 Dec 2022 18:59

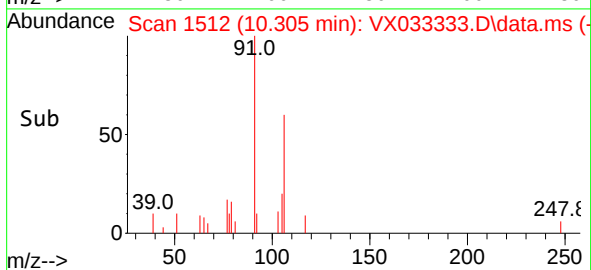
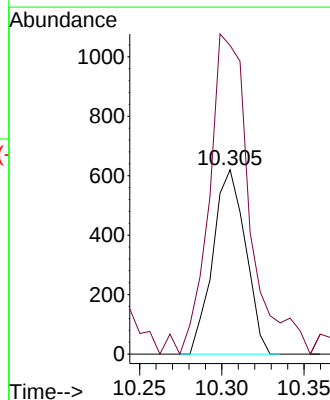
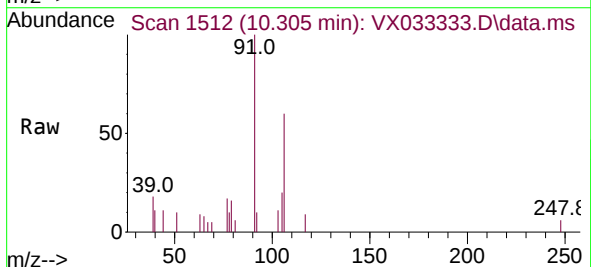
Instrument :
MSVOA_X
ClientSampleId :
MW-23R

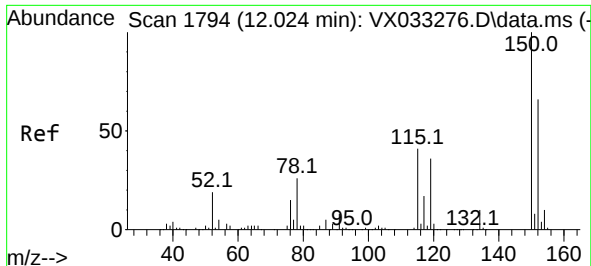
Tgt Ion: 91 Resp: 12010
Ion Ratio Lower Upper
91 100
106 32.6 25.0 37.6



#68
m/p-Xylenes
Concen: 0.272 ug/l
RT: 10.305 min Scan# 1512
Delta R.T. 0.000 min
Lab File: VX033333.D
Acq: 08 Dec 2022 18:59

Tgt Ion: 106 Resp: 858
Ion Ratio Lower Upper
106 100
91 217.7 164.5 246.7

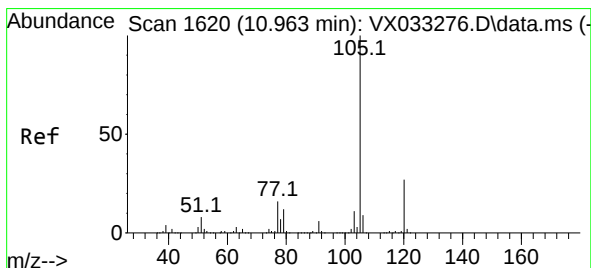
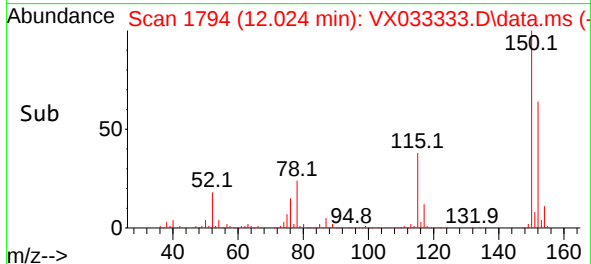
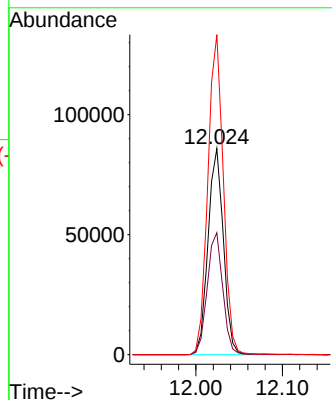
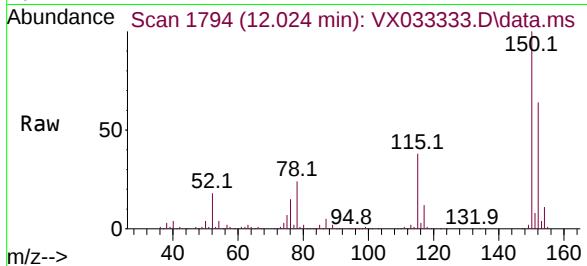




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX033333.D
Acq: 08 Dec 2022 18:59

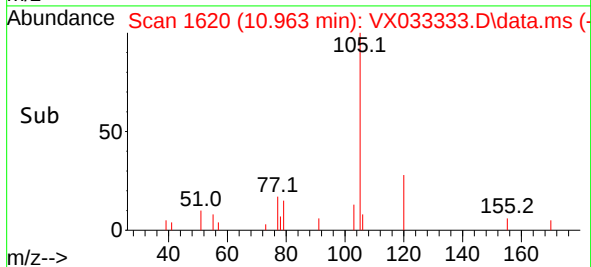
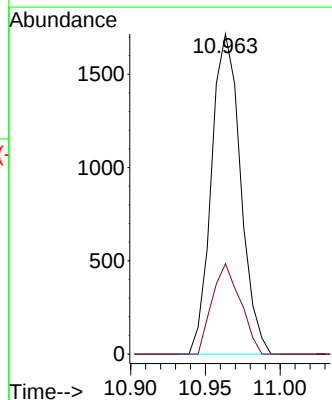
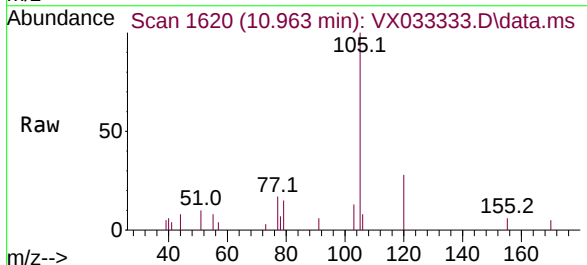
Instrument :
MSVOA_X
ClientSampleId :
MW-23R

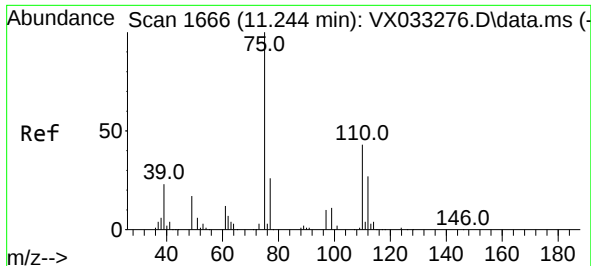
Tgt Ion:152 Resp: 105791
Ion Ratio Lower Upper
152 100
115 60.0 44.0 132.0
150 156.1 0.0 351.8



#73
Isopropylbenzene
Concen: 0.303 ug/l
RT: 10.963 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VX033333.D
Acq: 08 Dec 2022 18:59

Tgt Ion:105 Resp: 2324
Ion Ratio Lower Upper
105 100
120 27.5 13.1 39.3

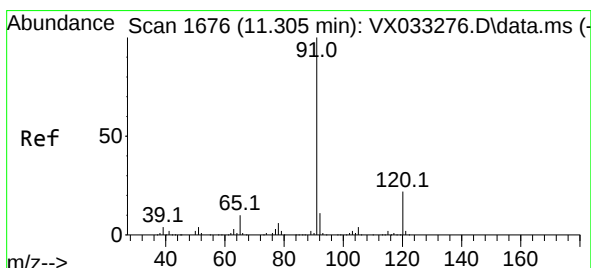
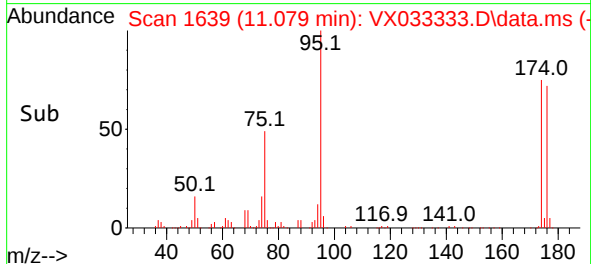
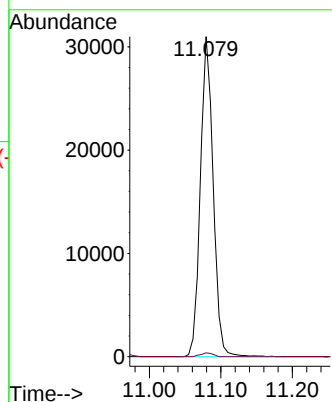
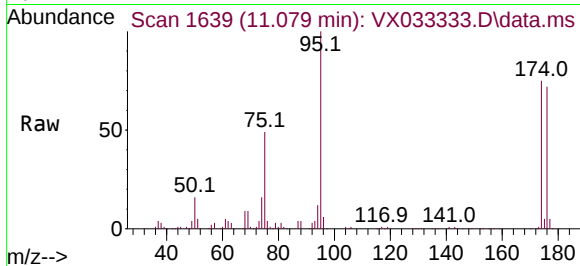




#76
1,2,3-Trichloropropane
Concen: 17.890 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.164 min
Lab File: VX033333.D
Acq: 08 Dec 2022 18:59

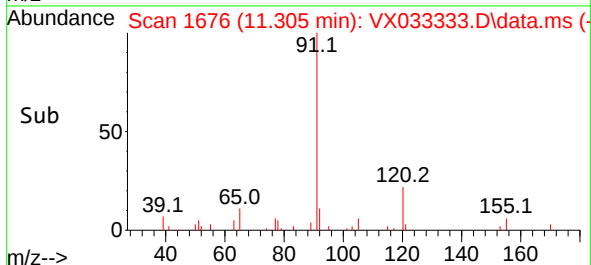
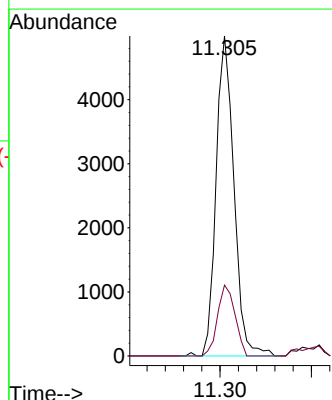
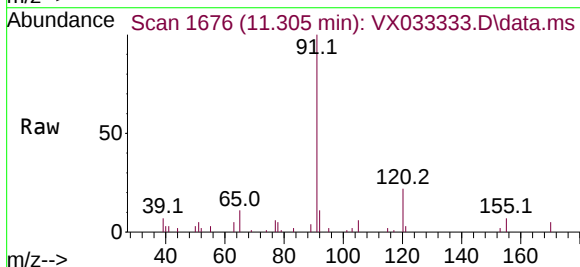
Instrument :
MSVOA_X
ClientSampleId :
MW-23R

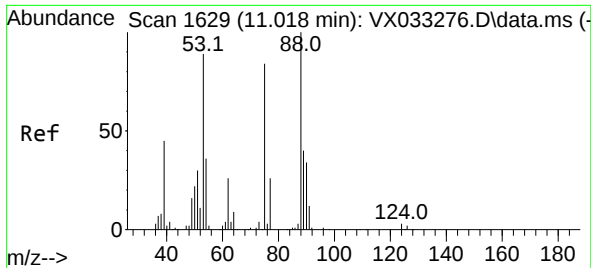
Tgt Ion: 75 Resp: 38506
Ion Ratio Lower Upper
75 100
77 1.2 20.0 60.0#



#78
n-propylbenzene
Concen: 0.789 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VX033333.D
Acq: 08 Dec 2022 18:59

Tgt Ion: 91 Resp: 6757
Ion Ratio Lower Upper
91 100
120 21.6 11.6 34.8

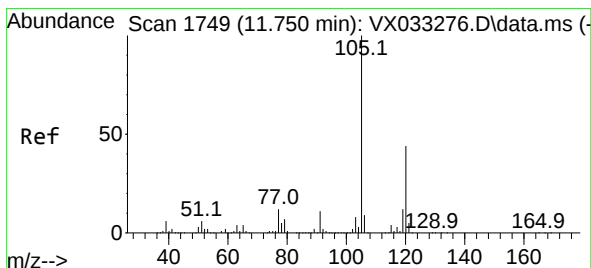
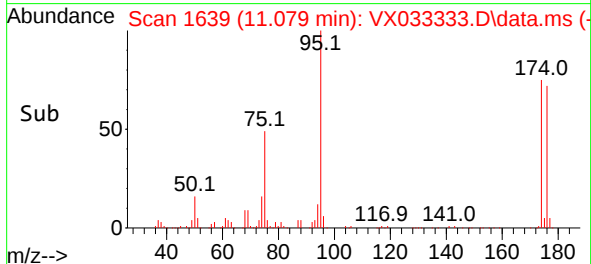
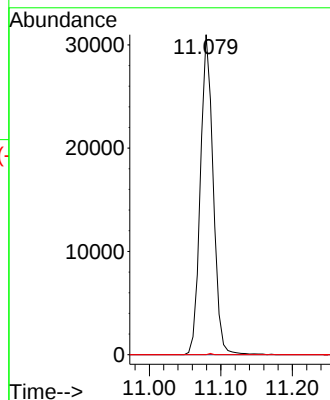
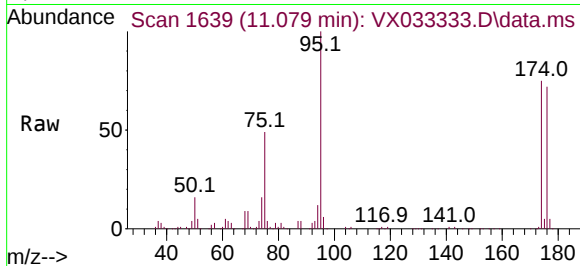




#81
trans-1,4-Dichloro-2-butene
Concen: 55.651 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX033333.D
Acq: 08 Dec 2022 18:59

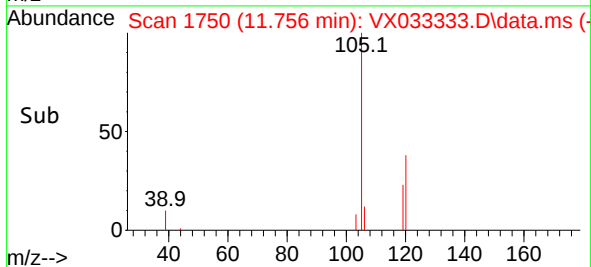
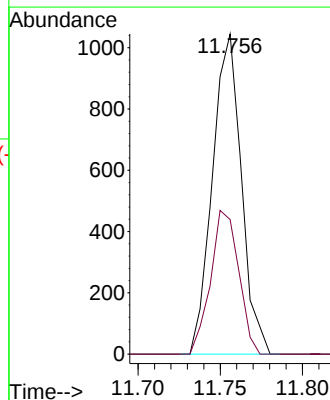
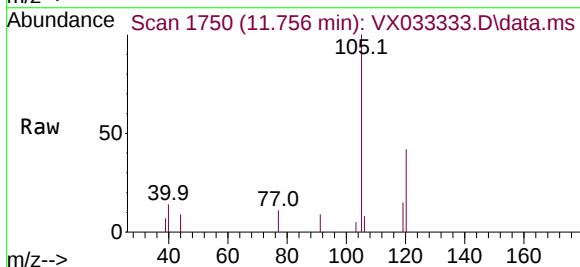
Instrument :
MSVOA_X
ClientSampleId :
MW-23R

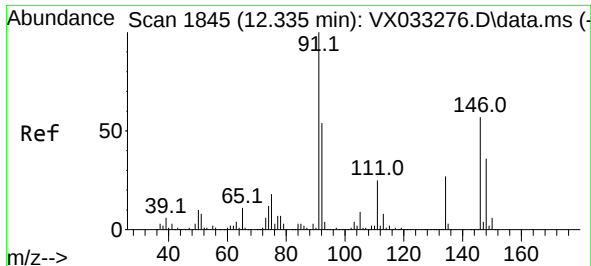
Tgt Ion: 75 Resp: 38506
Ion Ratio Lower Upper
75 100
53 0.0 86.9 130.3#
89 0.1 38.3 57.5#



#84
1,2,4-Trimethylbenzene
Concen: 0.200 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VX033333.D
Acq: 08 Dec 2022 18:59

Tgt Ion: 105 Resp: 1276
Ion Ratio Lower Upper
105 100
120 43.6 21.9 65.5





#89

n-Butylbenzene

Concen: 0.218 ug/l

RT: 12.317 min Scan# 1144

Delta R.T. -0.018 min

Lab File: VX033333.D

Acq: 08 Dec 2022 18:59

Instrument :

MSVOA_X

ClientSampleId :

MW-23R

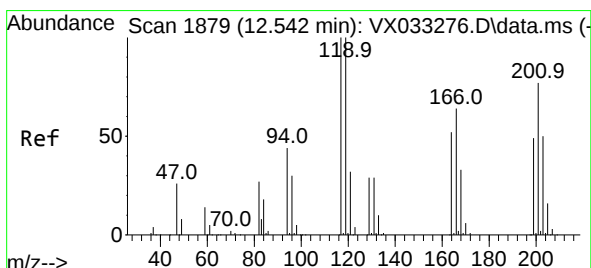
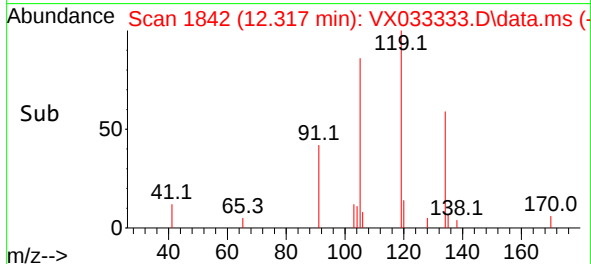
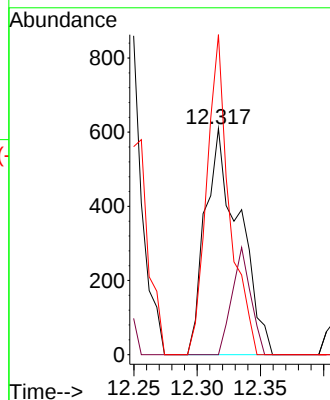
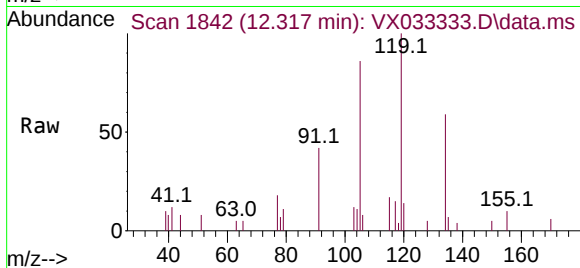
Tgt Ion: 91 Resp: 1144

Ion Ratio Lower Upper

91 100

92 26.0 26.2 78.6#

134 94.2 12.9 38.6#



#90

Hexachloroethane

Concen: 4.325 ug/l

RT: 12.646 min Scan# 1896

Delta R.T. 0.104 min

Lab File: VX033333.D

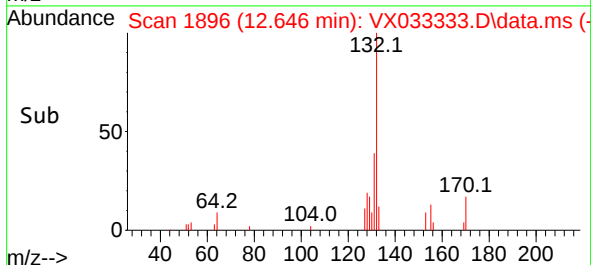
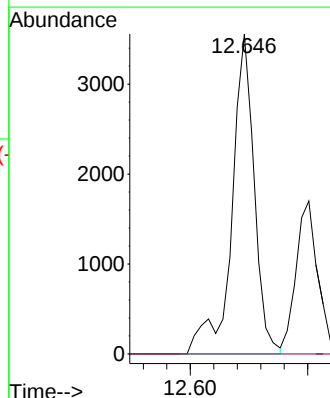
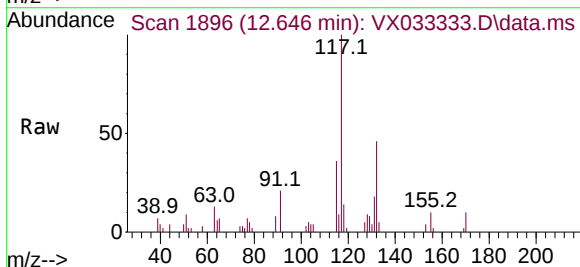
Acq: 08 Dec 2022 18:59

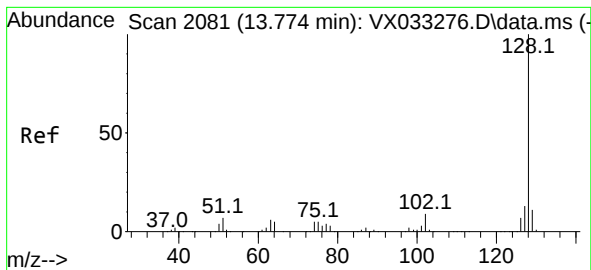
Tgt Ion: 117 Resp: 4707

Ion Ratio Lower Upper

117 100

201 0.0 37.6 112.9#





#95

Naphthalene

Concen: 1.985 ug/l

RT: 13.774 min Scan# 20

Delta R.T. 0.000 min

Lab File: VX033333.D

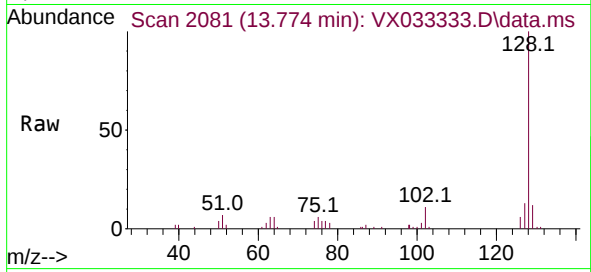
Acq: 08 Dec 2022 18:59

Instrument :

MSVOA_X

ClientSampleId :

MW-23R



Tgt Ion:128 Resp: 14023

Ion Ratio Lower Upper

128 100

127 13.6 10.2 15.4

129 13.7 8.9 13.3#

