

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101422\
 Data File : VX032145.D
 Acq On : 14 Oct 2022 19:20
 Operator : JC/MD
 Sample : N5145-05RE
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-8-101322RE

Quant Time: Oct 17 02:28:40 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100622W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 06 14:28:46 2022
 Response via : Initial Calibration

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

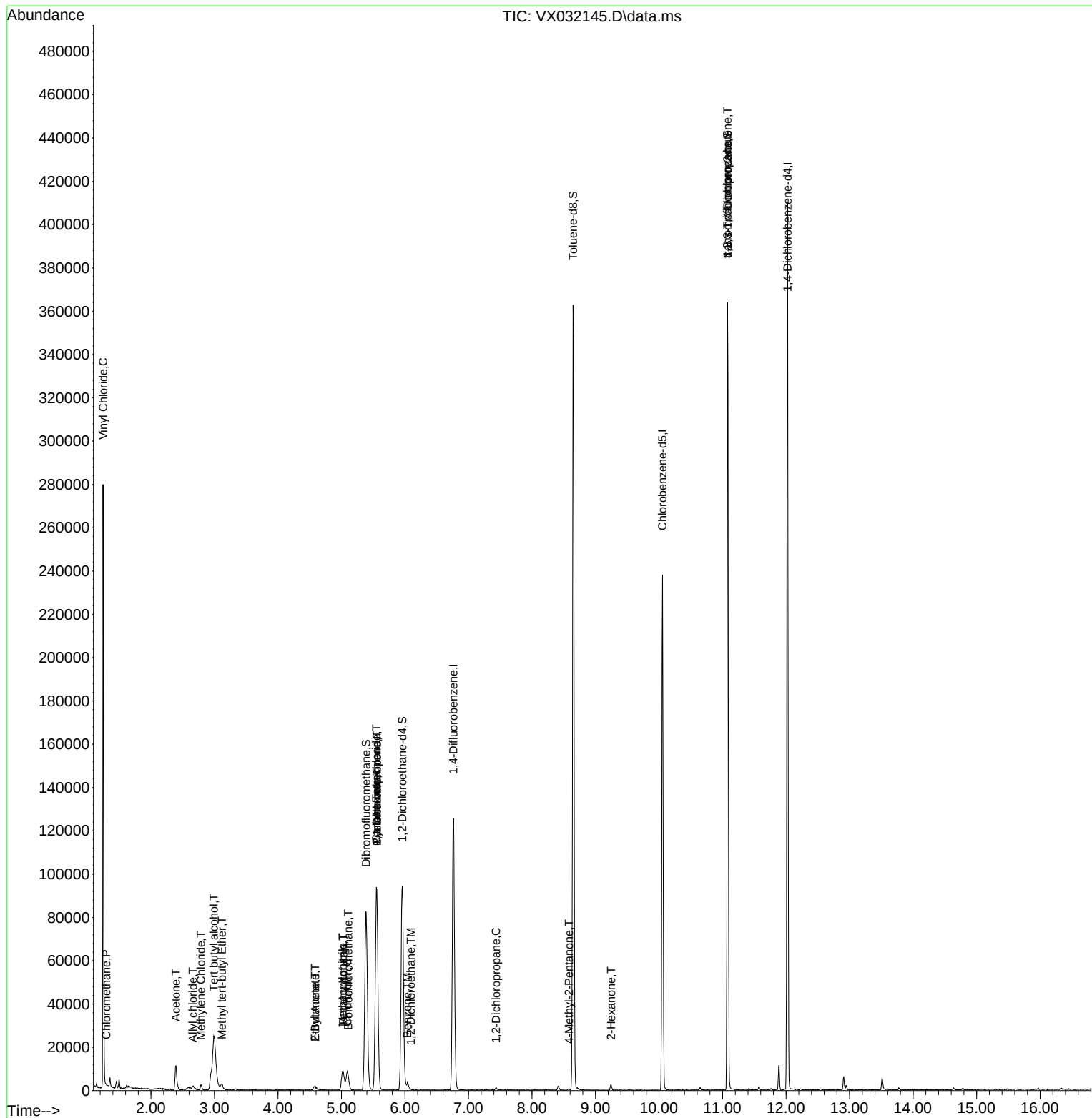
Internal Standards						
1) Pentafluorobenzene	5.556	168	85605	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	127086	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	107434	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	80307	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	94902	53.680	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	107.360%
35) Dibromofluoromethane	5.385	113	70511	49.016	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	98.040%
50) Toluene-d8	8.647	98	215061	41.547	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	83.100%#
62) 4-Bromofluorobenzene	11.079	95	89999	49.180	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	98.360%
Target Compounds						
						Qvalue
3) Chloromethane	1.294	50	384	0.288	ug/l #	86
4) Vinyl Chloride	1.246	62	2191	1.405	ug/l #	43
5) Bromomethane	1.618	94	411	Below Cal		95
11) Tert butyl alcohol	2.989	59	47384	215.421	ug/l	100
14) Allyl chloride	2.660	41	1922	1.036	ug/l #	42
16) Acetone	2.392	43	12889	21.451	ug/l	98
19) Methyl tert-butyl Ether	3.117	73	2708	0.619	ug/l	95
20) Methylene Chloride	2.788	84	1115	0.706	ug/l #	79
25) 2-Butanone	4.587	43	1440	1.533	ug/l	91
28) Bromochloromethane	5.105	49	791	0.739	ug/l #	15
29) Tetrahydrofuran	5.026	42	8704	14.362	ug/l	97
30) Chloroform	5.093	83	9315	3.345	ug/l	90
31) Cyclohexane	5.556	56	2164	1.025	ug/l #	33
36) 1,1-Dichloropropene	5.556	75	7383	3.870	ug/l #	50
37) Ethyl Acetate	4.587	43	1440	0.802	ug/l #	68
38) Carbon Tetrachloride	5.550	117	9156	4.694	ug/l #	17
40) Benzene	6.038	78	3647	0.653	ug/l #	83
41) Methacrylonitrile	5.019	41	5175	5.541	ug/l #	49
42) 1,2-Dichloroethane	6.092	62	449	0.221	ug/l #	75
45) 1,2-Dichloropropane	7.434	63	468	0.341	ug/l #	41
51) 4-Methyl-2-Pentanone	8.580	43	523	0.290	ug/l	98
59) 2-Hexanone	9.244	43	1834	1.377	ug/l	73
76) 1,2,3-Trichloropropane	11.079	75	51645	31.378	ug/l #	36
81) trans-1,4-Dichloro-2-b...	11.079	75	51645	106.936	ug/l #	11

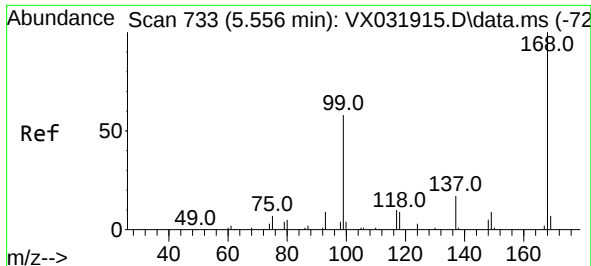
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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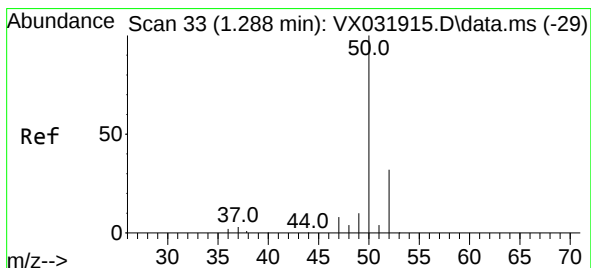
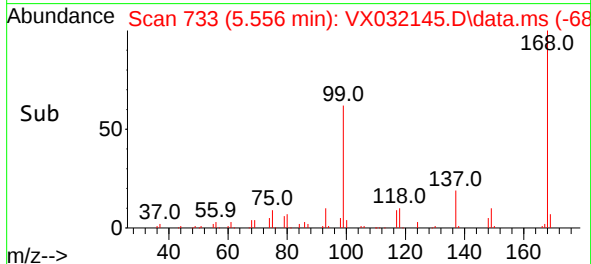
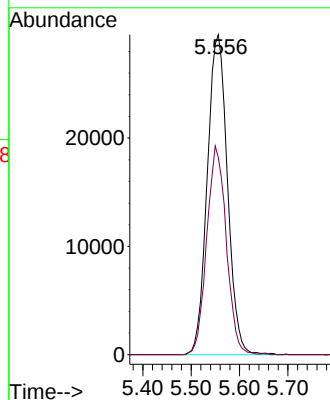
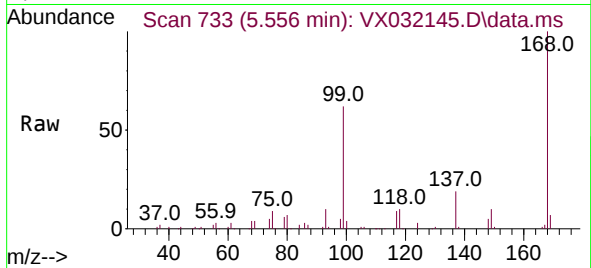




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX032145.D
Acq: 14 Oct 2022 19:20

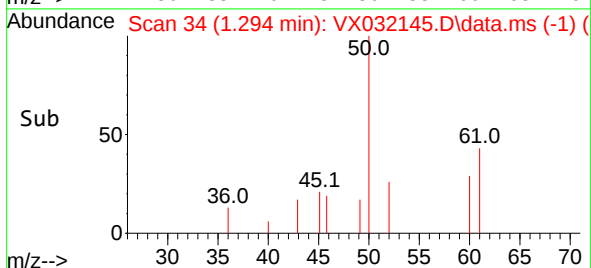
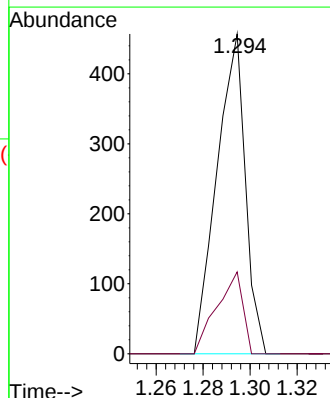
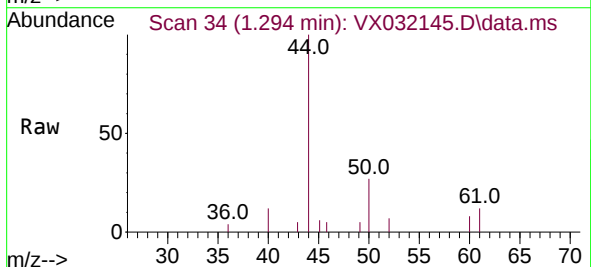
Instrument :
MSVOA_X
ClientSampleId :
MW-8-101322RE

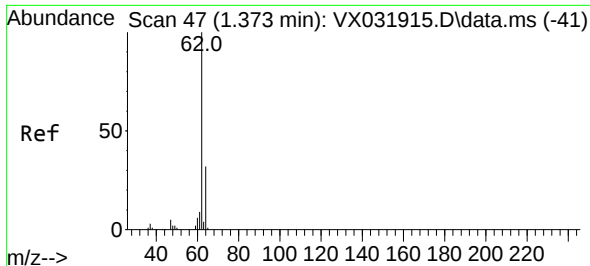
Tgt Ion:168 Resp: 85605
Ion Ratio Lower Upper
168 100
99 61.7 48.8 73.2



#3
Chloromethane
Concen: 0.288 ug/l
RT: 1.294 min Scan# 34
Delta R.T. 0.006 min
Lab File: VX032145.D
Acq: 14 Oct 2022 19:20

Tgt Ion: 50 Resp: 384
Ion Ratio Lower Upper
50 100
52 25.6 26.9 40.3#

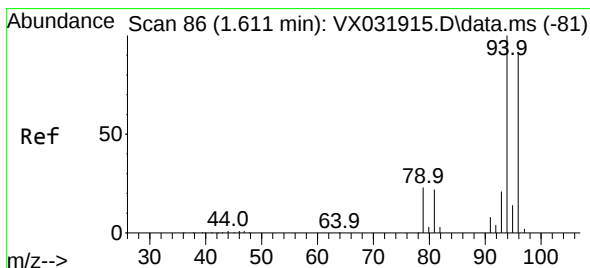
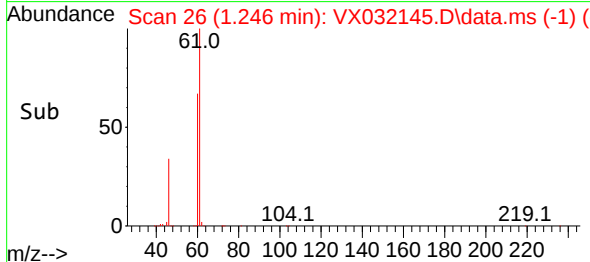
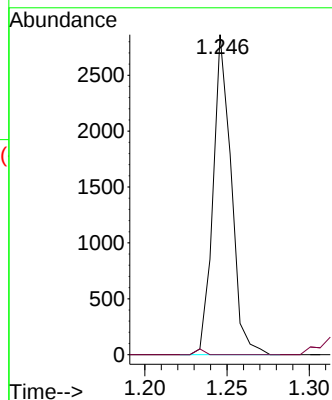
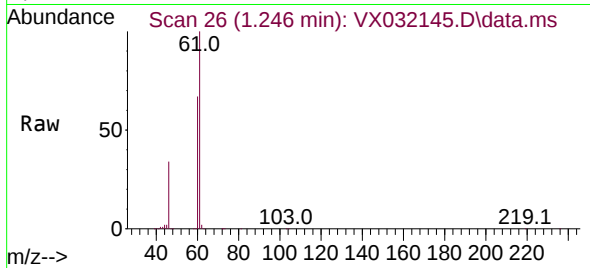




#4
 Vinyl Chloride
 Concen: 1.405 ug/l
 RT: 1.246 min Scan# 21
 Delta R.T. -0.127 min
 Lab File: VX032145.D
 Acq: 14 Oct 2022 19:20

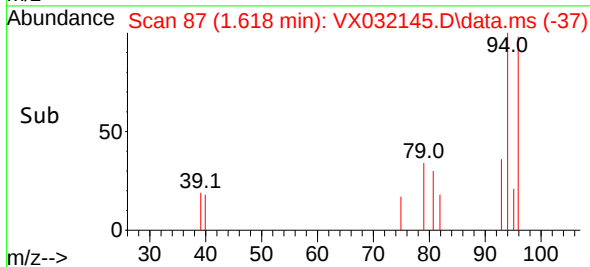
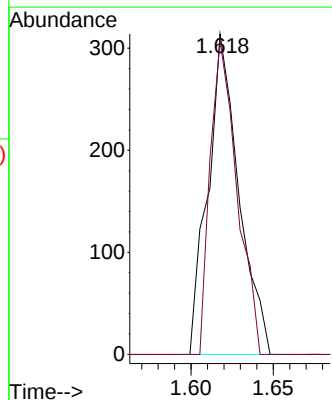
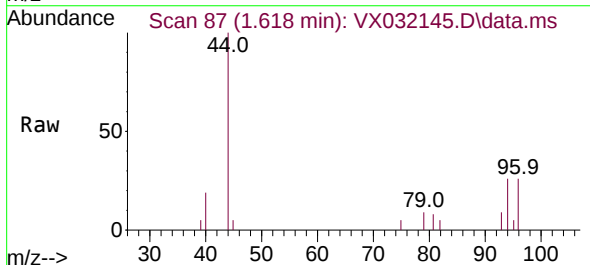
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-8-101322RE

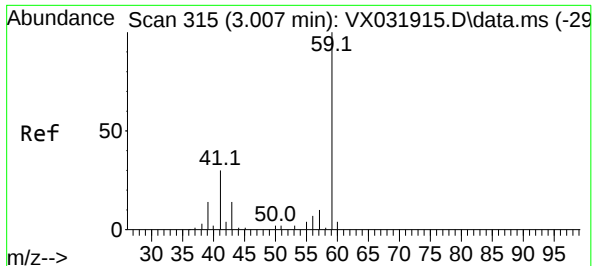
Tgt Ion: 62 Resp: 2191
 Ion Ratio Lower Upper
 62 100
 64 0.0 25.3 37.9#



#5
 Bromomethane
 Concen: Below Cal
 RT: 1.618 min Scan# 87
 Delta R.T. 0.007 min
 Lab File: VX032145.D
 Acq: 14 Oct 2022 19:20

Tgt Ion: 94 Resp: 411
 Ion Ratio Lower Upper
 94 100
 96 97.8 74.4 111.6





#11

Tert butyl alcohol

Concen: 215.421 ug/l

RT: 2.989 min Scan# 315

Delta R.T. -0.018 min

Lab File: VX032145.D

Acq: 14 Oct 2022 19:20

Instrument :

MSVOA_X

ClientSampleId :

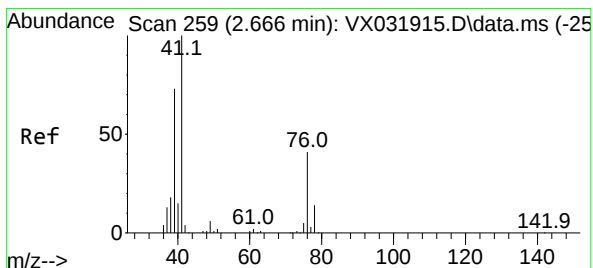
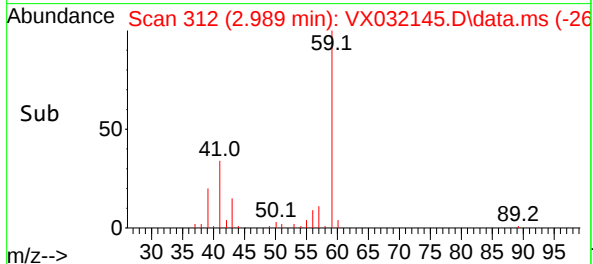
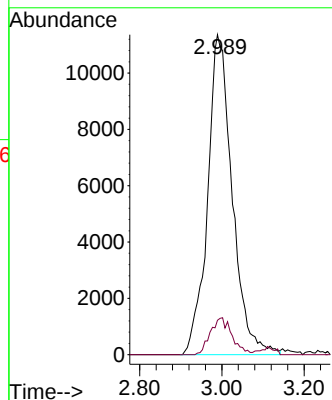
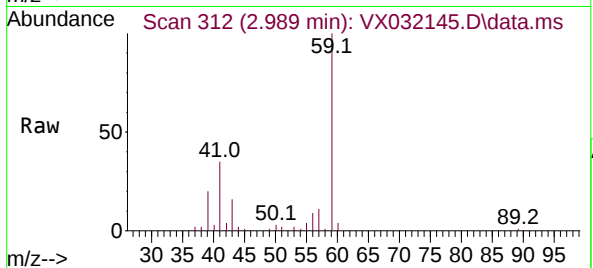
MW-8-101322RE

Tgt Ion: 59 Resp: 47384

Ion Ratio Lower Upper

59 100

57 10.1 8.2 12.2



#14

Allyl chloride

Concen: 1.036 ug/l

RT: 2.660 min Scan# 258

Delta R.T. -0.006 min

Lab File: VX032145.D

Acq: 14 Oct 2022 19:20

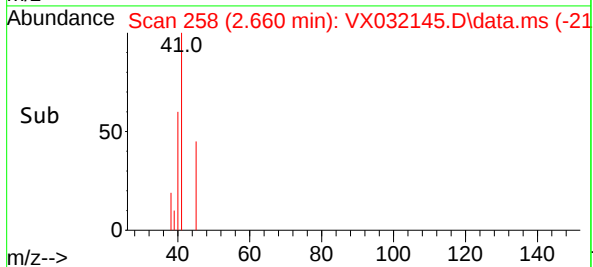
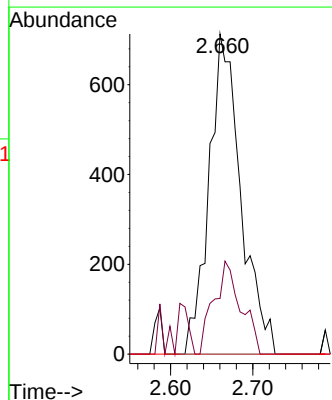
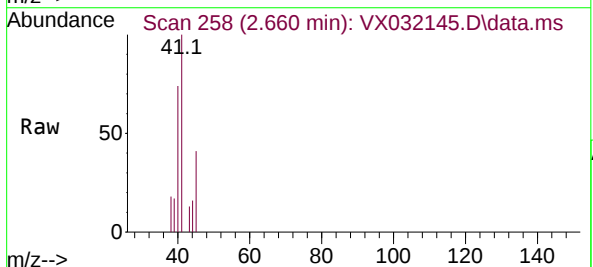
Tgt Ion: 41 Resp: 1922

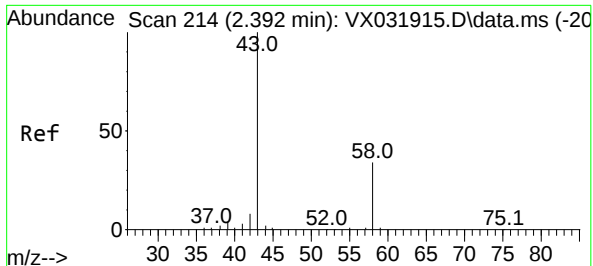
Ion Ratio Lower Upper

41 100

39 24.7 58.2 87.4#

76 0.0 26.9 40.3#

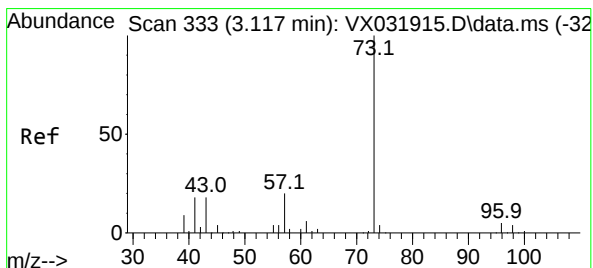
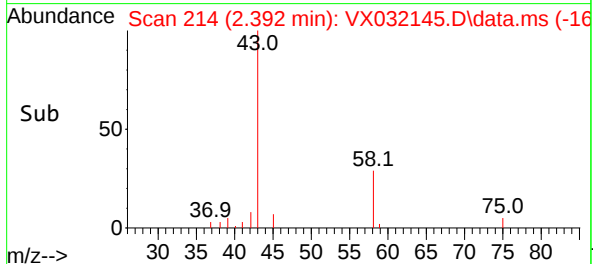
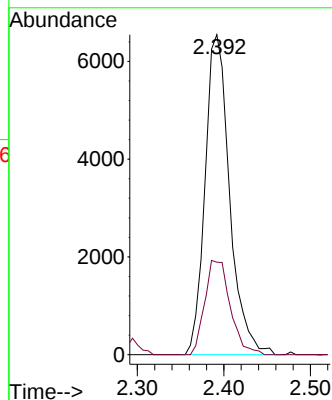
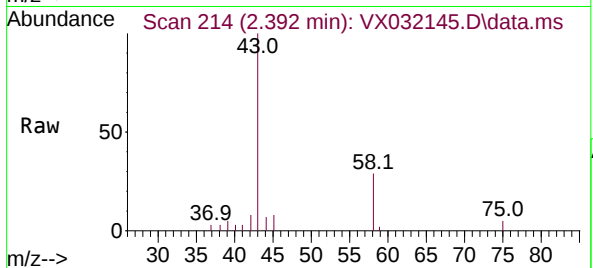




#16
Acetone
Concen: 21.451 ug/l
RT: 2.392 min Scan# 214
Delta R.T. -0.000 min
Lab File: VX032145.D
Acq: 14 Oct 2022 19:20

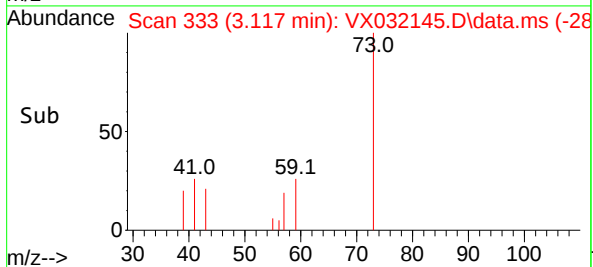
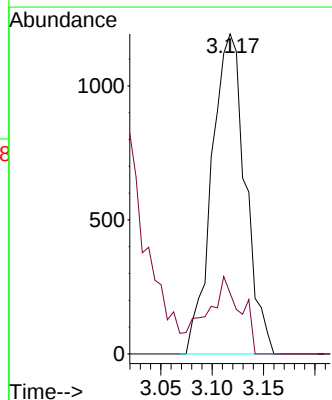
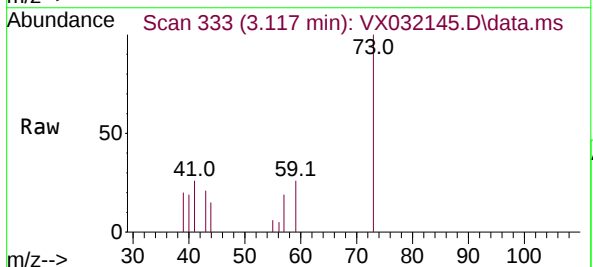
Instrument :
MSVOA_X
ClientSampleId :
MW-8-101322RE

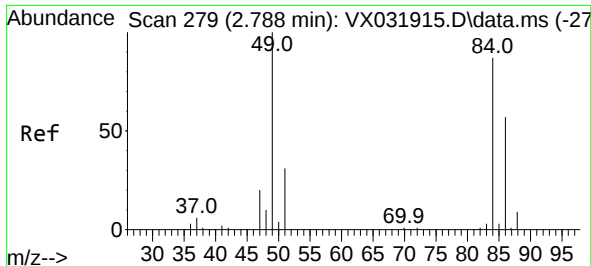
Tgt Ion: 43 Resp: 12889
Ion Ratio Lower Upper
43 100
58 28.9 23.8 35.8



#19
Methyl tert-butyl Ether
Concen: 0.619 ug/l
RT: 3.117 min Scan# 333
Delta R.T. 0.000 min
Lab File: VX032145.D
Acq: 14 Oct 2022 19:20

Tgt Ion: 73 Resp: 2708
Ion Ratio Lower Upper
73 100
57 18.9 17.2 25.8

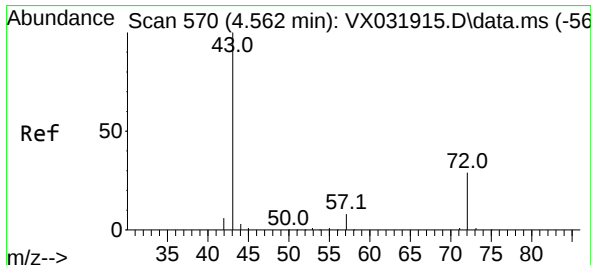
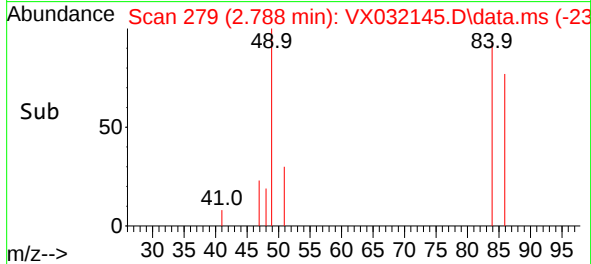
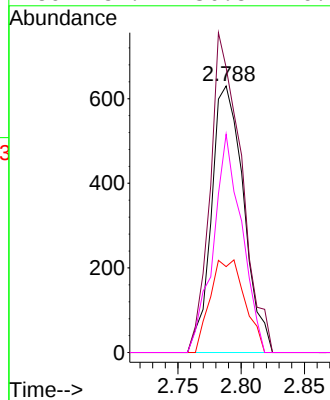
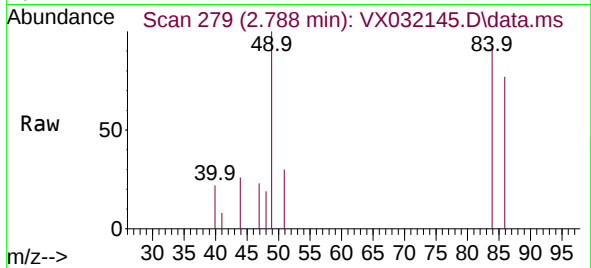




#20
Methylene Chloride
Concen: 0.706 ug/l
RT: 2.788 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX032145.D
Acq: 14 Oct 2022 19:20

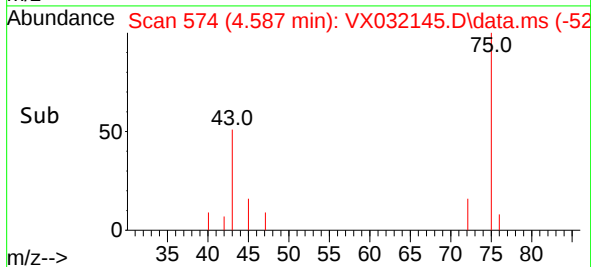
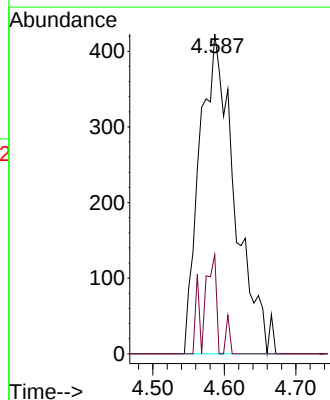
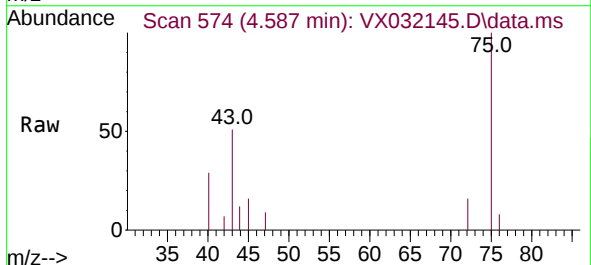
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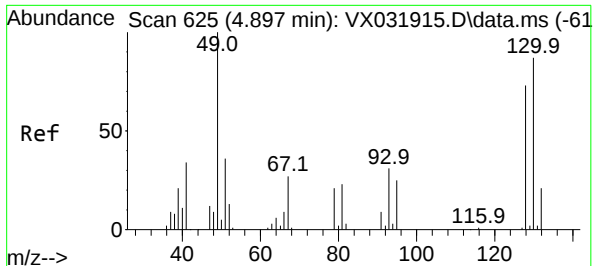
Tgt Ion:	84	Resp:	1115
Ion	Ratio	Lower	Upper
84	100		
49	107.0	105.9	158.9
51	32.2	32.2	48.2
86	81.9	50.8	76.2



#25
2-Butanone
Concen: 1.533 ug/l
RT: 4.587 min Scan# 574
Delta R.T. 0.025 min
Lab File: VX032145.D
Acq: 14 Oct 2022 19:20

Tgt Ion:	43	Resp:	1440
Ion	Ratio	Lower	Upper
43	100		
72	31.0	21.1	31.7





#28

Bromochloromethane

Concen: 0.739 ug/l

RT: 5.105 min Scan# 61

Delta R.T. 0.208 min

Lab File: VX032145.D

Acq: 14 Oct 2022 19:20

Instrument :

MSVOA_X

ClientSampleId :

MW-8-101322RE

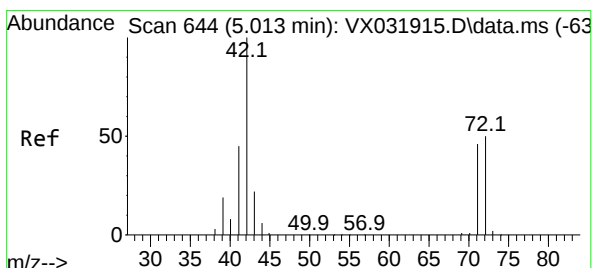
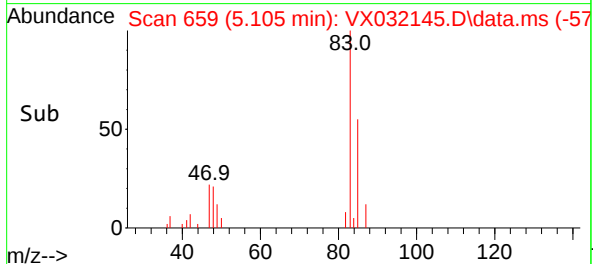
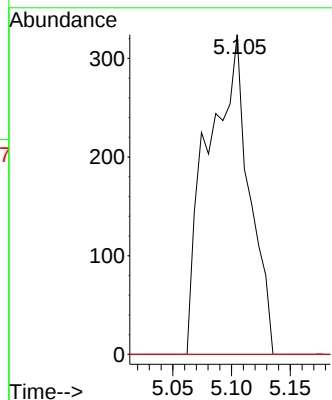
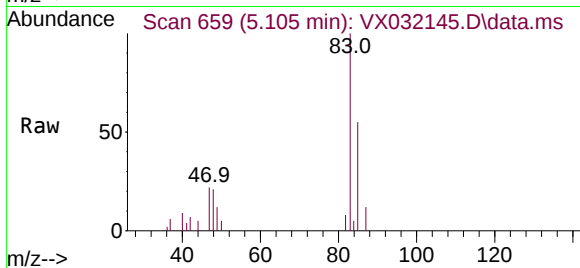
Tgt Ion: 49 Resp: 791

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

130 0.0 59.0 88.4#



#29

Tetrahydrofuran

Concen: 14.362 ug/l

RT: 5.026 min Scan# 646

Delta R.T. 0.013 min

Lab File: VX032145.D

Acq: 14 Oct 2022 19:20

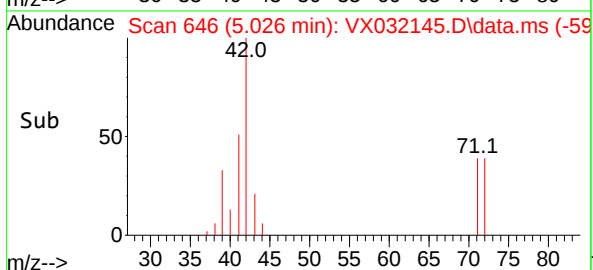
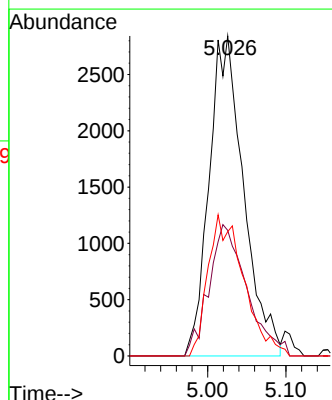
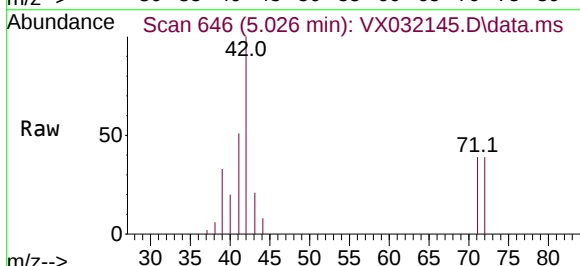
Tgt Ion: 42 Resp: 8704

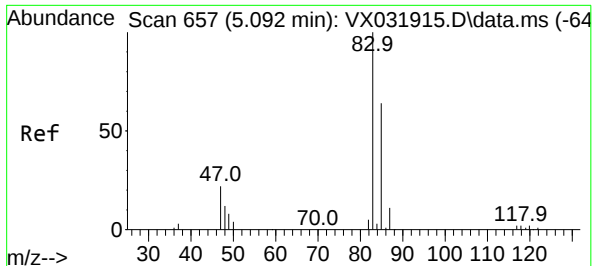
Ion Ratio Lower Upper

42 100

72 45.1 36.4 54.6

71 45.7 33.5 50.3





#30

Chloroform

Concen: 3.345 ug/l

RT: 5.093 min Scan# 61

Delta R.T. 0.001 min

Lab File: VX032145.D

Acq: 14 Oct 2022 19:20

Instrument :

MSVOA_X

ClientSampleId :

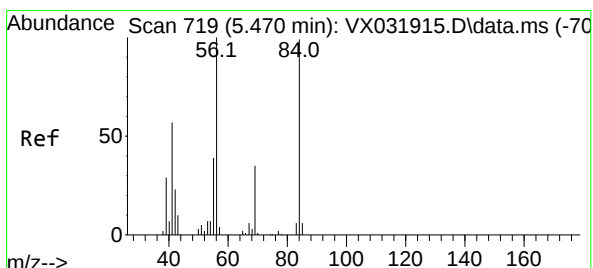
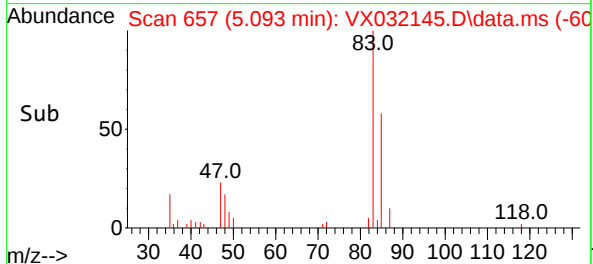
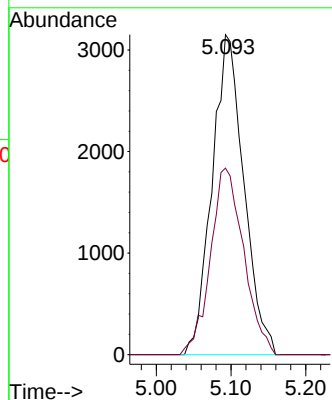
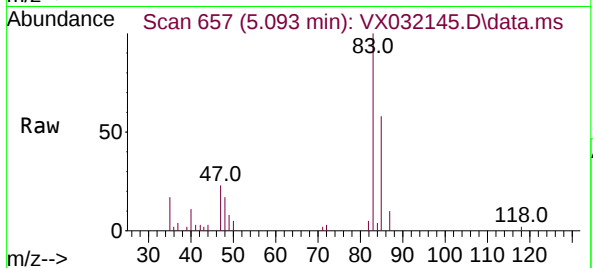
MW-8-101322RE

Tgt Ion: 83 Resp: 9315

Ion Ratio Lower Upper

83 100

85 58.3 52.8 79.2



#31

Cyclohexane

Concen: 1.025 ug/l

RT: 5.556 min Scan# 733

Delta R.T. 0.086 min

Lab File: VX032145.D

Acq: 14 Oct 2022 19:20

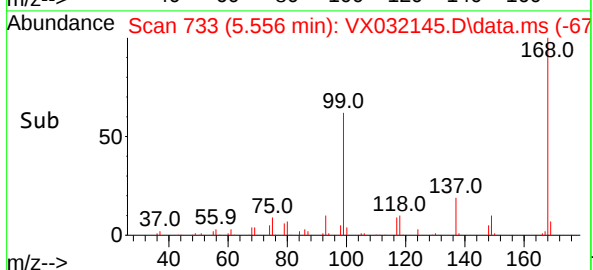
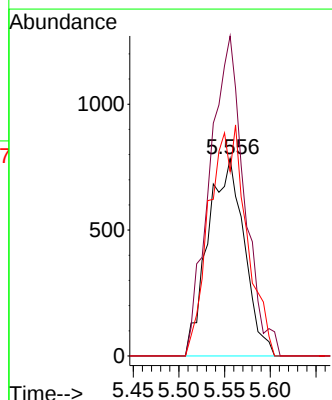
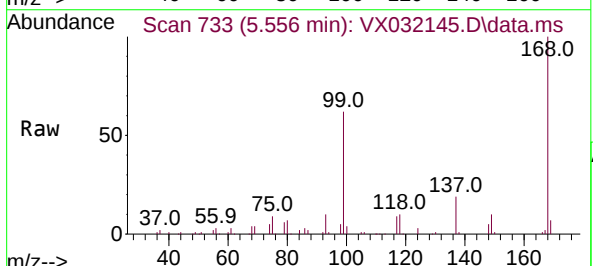
Tgt Ion: 56 Resp: 2164

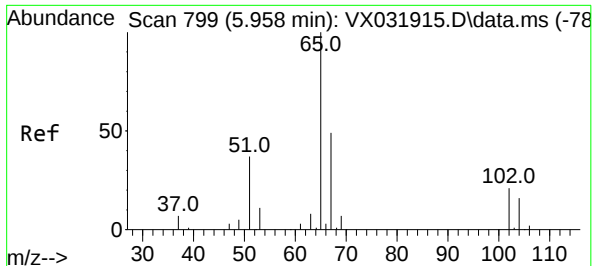
Ion Ratio Lower Upper

56 100

69 162.1 25.1 37.7#

84 93.5 70.2 105.4





#33

1,2-Dichloroethane-d4

Concen: 53.680 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.000 min

Lab File: VX032145.D

Acq: 14 Oct 2022 19:20

Instrument :

MSVOA_X

ClientSampleId :

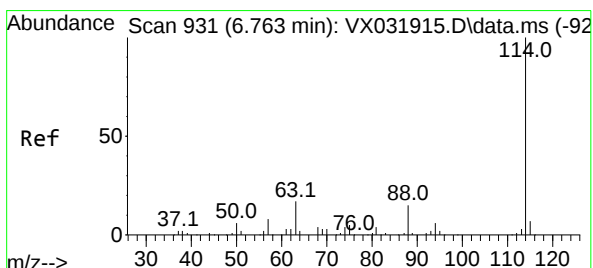
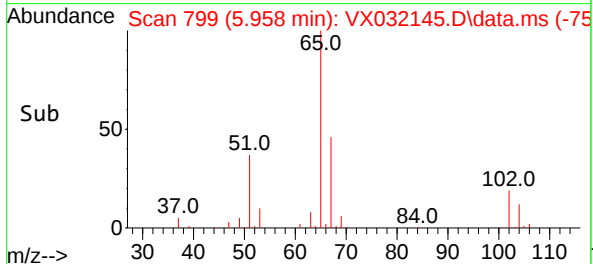
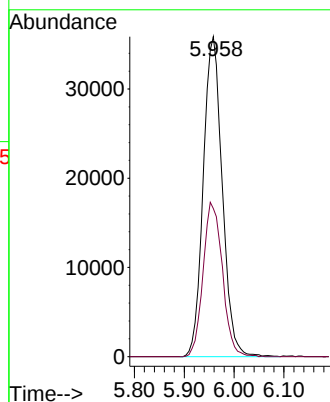
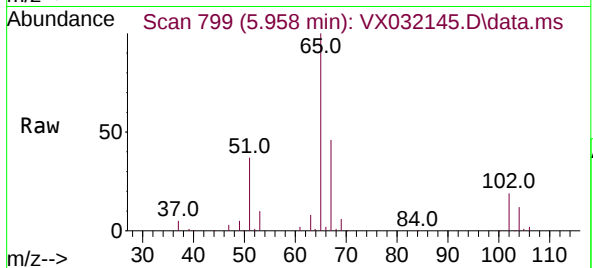
MW-8-101322RE

Tgt Ion: 65 Resp: 94902

Ion Ratio Lower Upper

65 100

67 49.0 0.0 102.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. 0.000 min

Lab File: VX032145.D

Acq: 14 Oct 2022 19:20

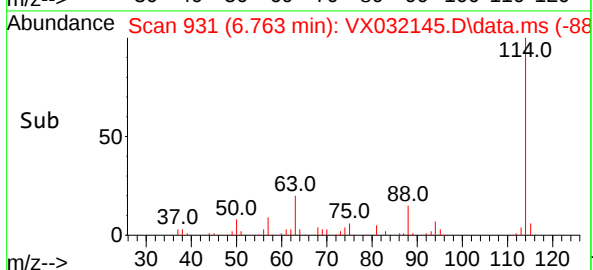
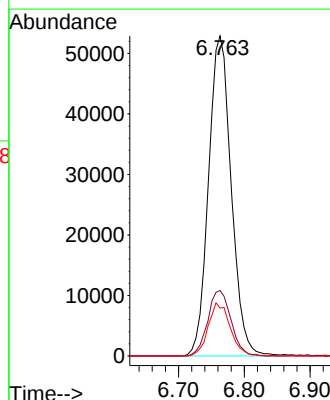
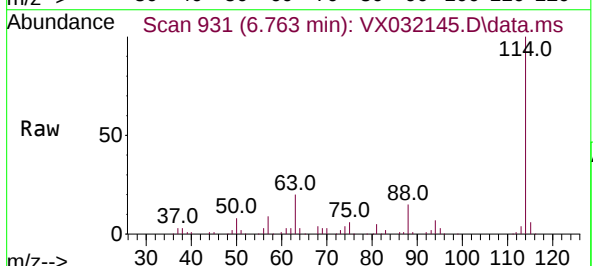
Tgt Ion: 114 Resp: 127086

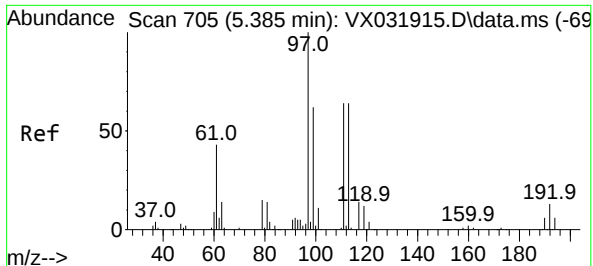
Ion Ratio Lower Upper

114 100

63 20.4 0.0 42.6

88 14.9 0.0 33.0

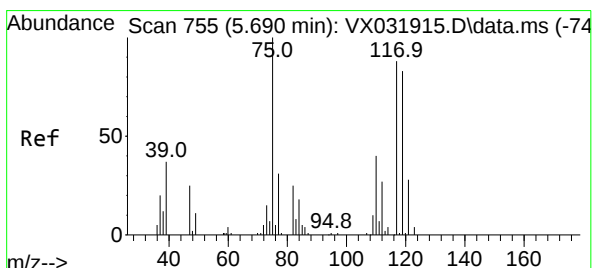
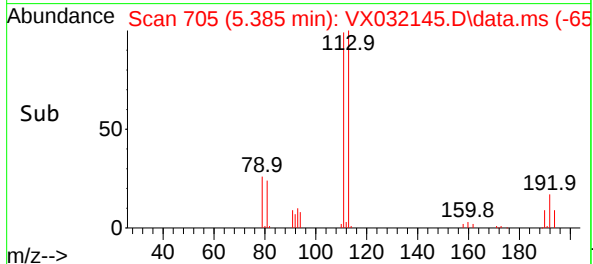
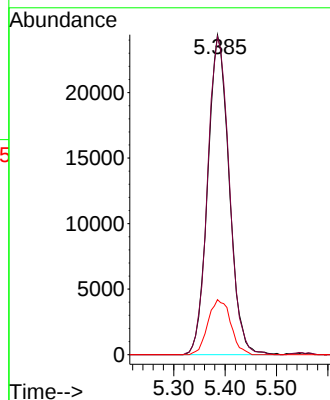
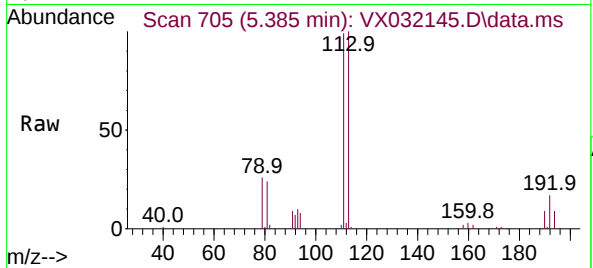




#35
Dibromofluoromethane
Concen: 49.016 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.000 min
Lab File: VX032145.D
Acq: 14 Oct 2022 19:20

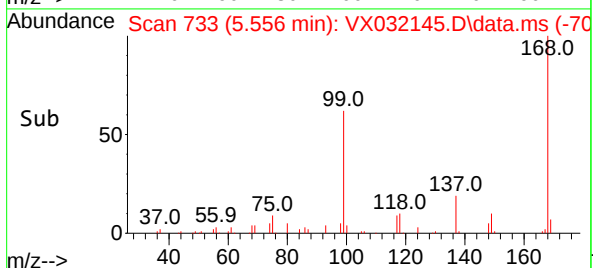
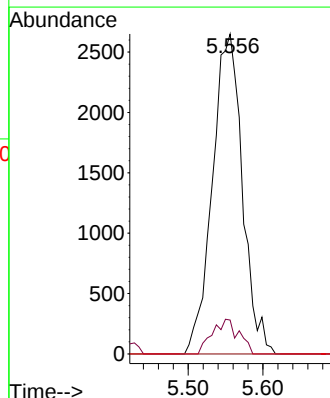
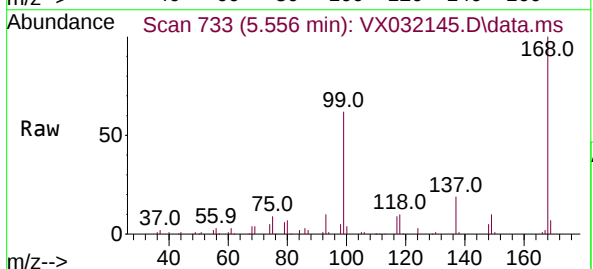
Instrument :
MSVOA_X
ClientSampleId :
MW-8-101322RE

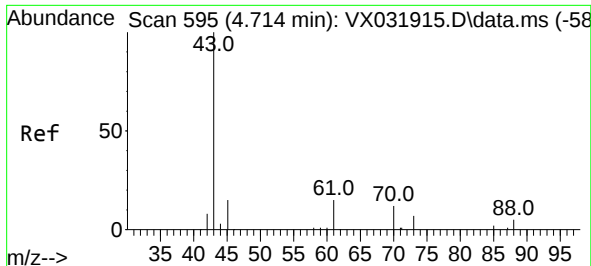
Tgt Ion:113 Resp: 70511
Ion Ratio Lower Upper
113 100
111 100.7 82.4 123.6
192 18.3 14.1 21.1



#36
1,1-Dichloropropene
Concen: 3.870 ug/l
RT: 5.556 min Scan# 733
Delta R.T. -0.134 min
Lab File: VX032145.D
Acq: 14 Oct 2022 19:20

Tgt Ion: 75 Resp: 7383
Ion Ratio Lower Upper
75 100
110 9.6 17.5 52.5#
77 0.0 24.9 37.3#





#37

Ethyl Acetate

Concen: 0.802 ug/l

RT: 4.587 min Scan# 51

Delta R.T. -0.127 min

Lab File: VX032145.D

Acq: 14 Oct 2022 19:20

Instrument :

MSVOA_X

ClientSampleId :

MW-8-101322RE

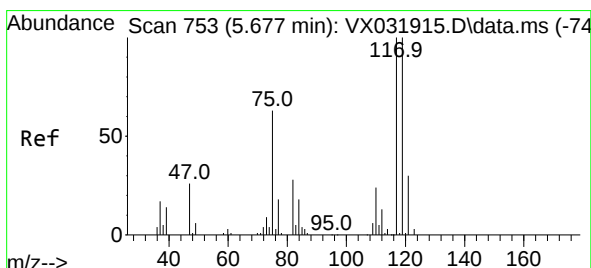
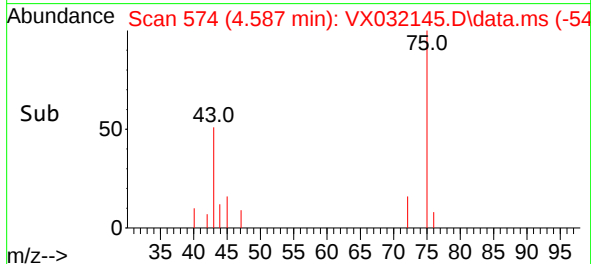
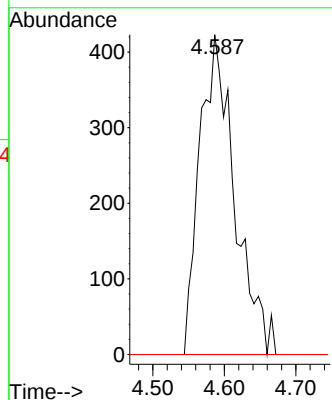
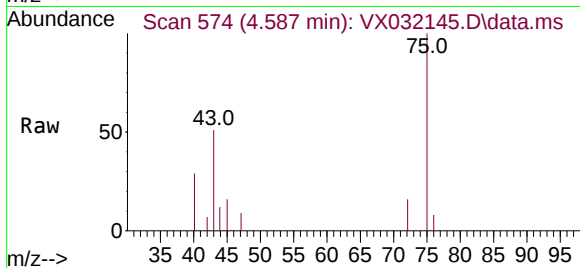
Tgt Ion: 43 Resp: 1440

Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

70 0.0 8.6 13.0#



#38

Carbon Tetrachloride

Concen: 4.694 ug/l

RT: 5.550 min Scan# 732

Delta R.T. -0.127 min

Lab File: VX032145.D

Acq: 14 Oct 2022 19:20

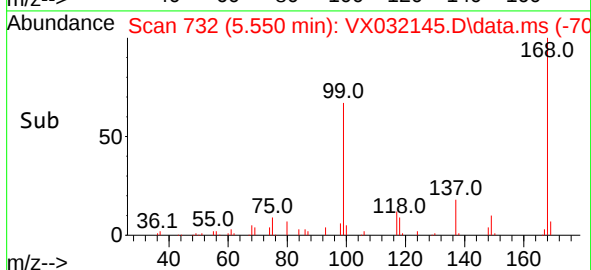
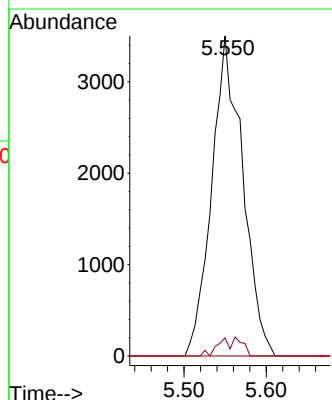
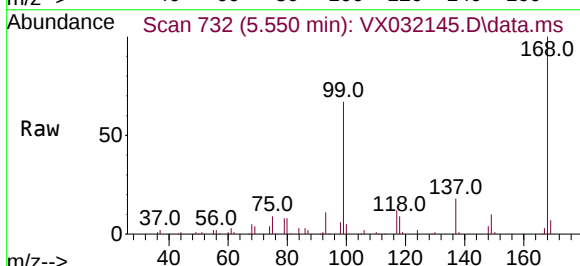
Tgt Ion: 117 Resp: 9156

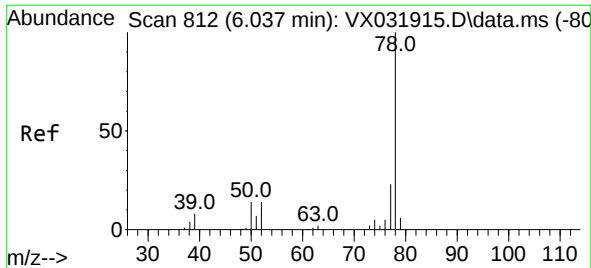
Ion Ratio Lower Upper

117 100

119 5.7 74.6 112.0#

121 0.0 25.3 37.9#





#40

Benzene

Concen: 0.653 ug/l

RT: 6.038 min Scan# 812

Delta R.T. 0.001 min

Lab File: VX032145.D

Acq: 14 Oct 2022 19:20

Instrument :

MSVOA_X

ClientSampleId :

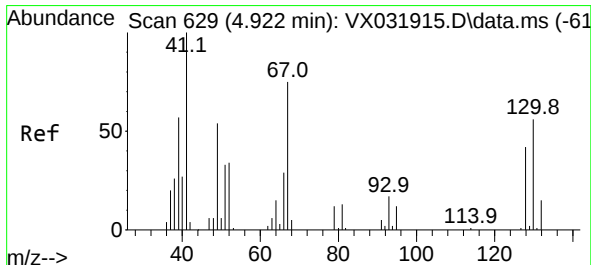
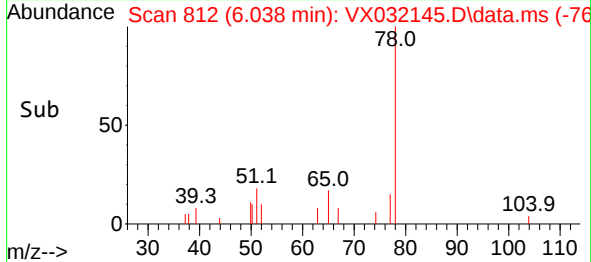
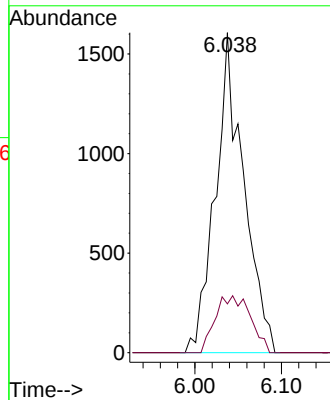
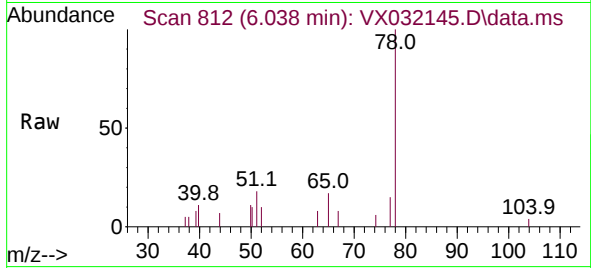
MW-8-101322RE

Tgt Ion: 78 Resp: 3647

Ion Ratio Lower Upper

78 100

77 15.2 18.7 28.1#



#41

Methacrylonitrile

Concen: 5.541 ug/l

RT: 5.019 min Scan# 645

Delta R.T. 0.097 min

Lab File: VX032145.D

Acq: 14 Oct 2022 19:20

Tgt Ion: 41 Resp: 5175

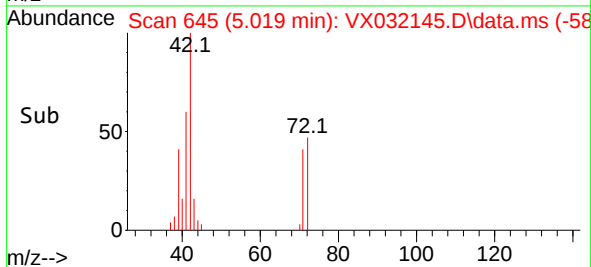
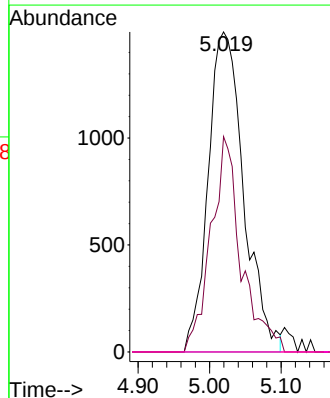
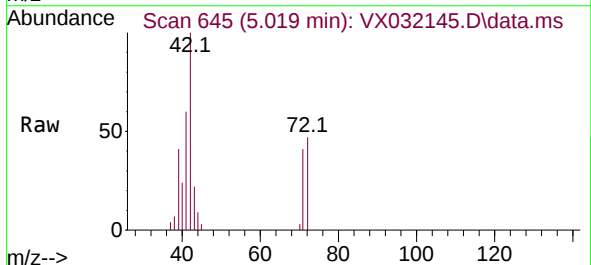
Ion Ratio Lower Upper

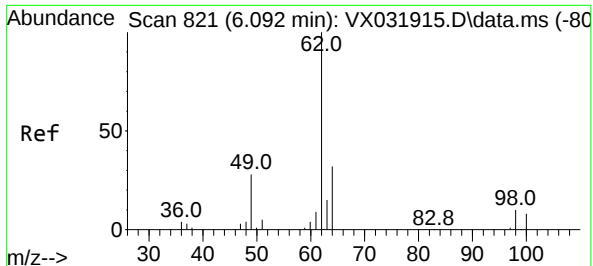
41 100

39 57.0 45.0 67.6

67 0.0 58.2 87.4#

52 0.0 25.0 37.6#





#42

1,2-Dichloroethane

Concen: 0.221 ug/l

RT: 6.092 min Scan# 821

Delta R.T. 0.000 min

Lab File: VX032145.D

Acq: 14 Oct 2022 19:20

Instrument :

MSVOA_X

ClientSampleId :

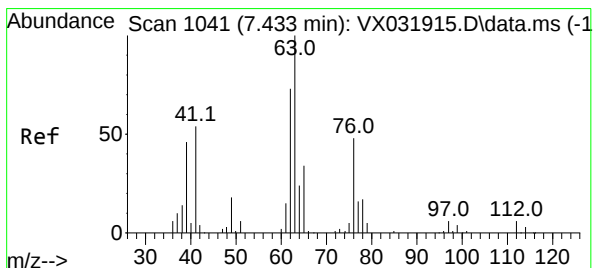
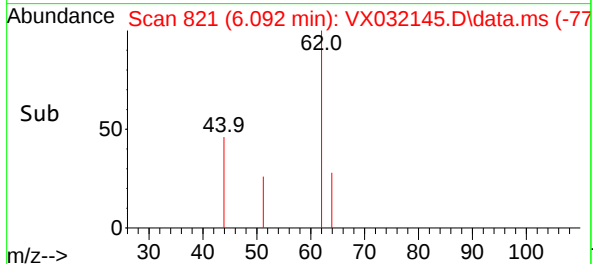
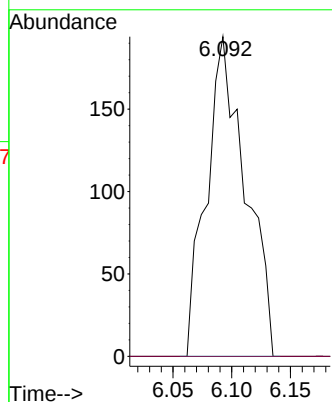
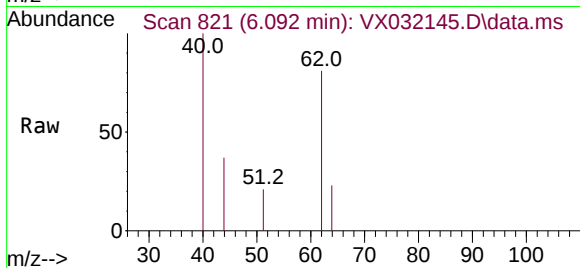
MW-8-101322RE

Tgt Ion: 62 Resp: 449

Ion Ratio Lower Upper

62 100

98 0.0 0.0 17.8



#45

1,2-Dichloropropane

Concen: 0.341 ug/l

RT: 7.434 min Scan# 1041

Delta R.T. 0.001 min

Lab File: VX032145.D

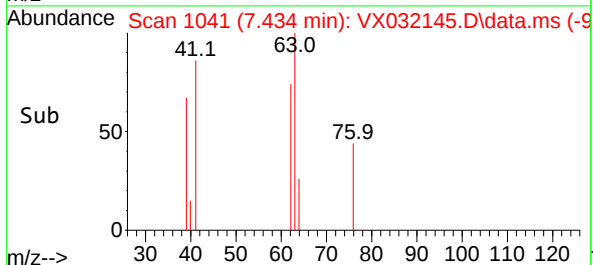
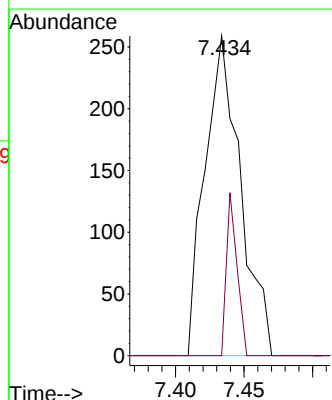
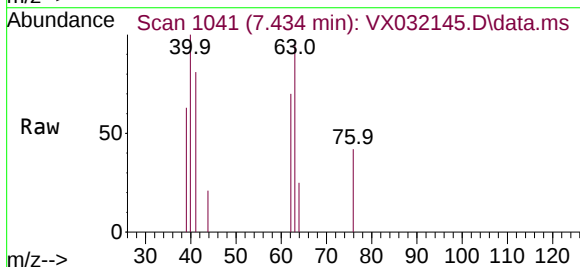
Acq: 14 Oct 2022 19:20

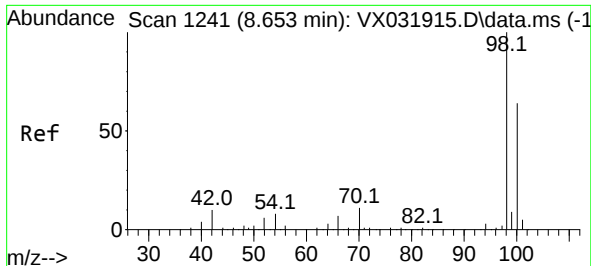
Tgt Ion: 63 Resp: 468

Ion Ratio Lower Upper

63 100

65 0.0 26.6 39.8#





#50

Toluene-d8

Concen: 41.547 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.006 min

Lab File: VX032145.D

Acq: 14 Oct 2022 19:20

Instrument :

MSVOA_X

ClientSampleId :

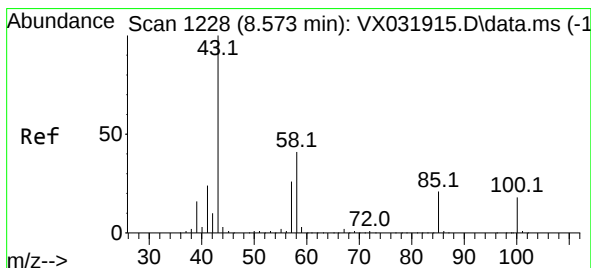
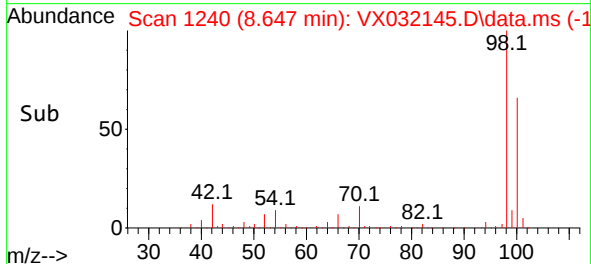
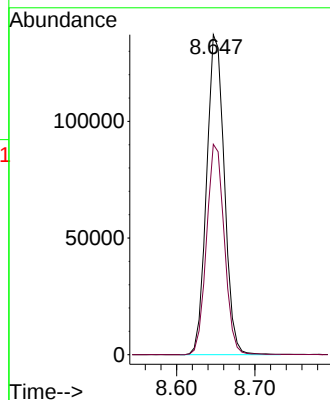
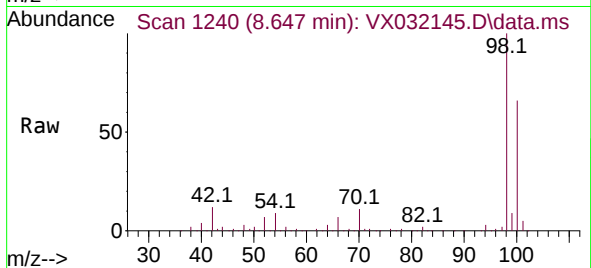
MW-8-101322RE

Tgt Ion: 98 Resp: 215061

Ion Ratio Lower Upper

98 100

100 66.0 52.5 78.7



#51

4-Methyl-2-Pentanone

Concen: 0.290 ug/l

RT: 8.580 min Scan# 1229

Delta R.T. 0.007 min

Lab File: VX032145.D

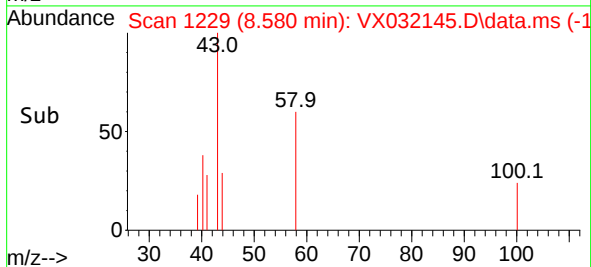
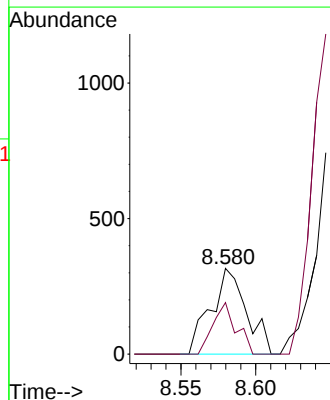
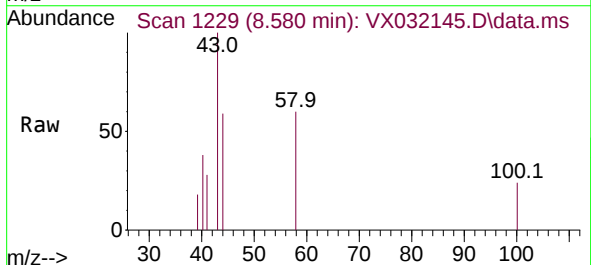
Acq: 14 Oct 2022 19:20

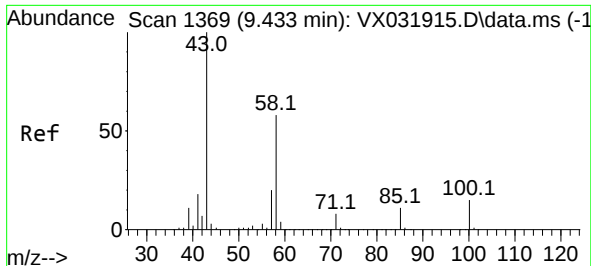
Tgt Ion: 43 Resp: 523

Ion Ratio Lower Upper

43 100

58 39.4 30.6 46.0

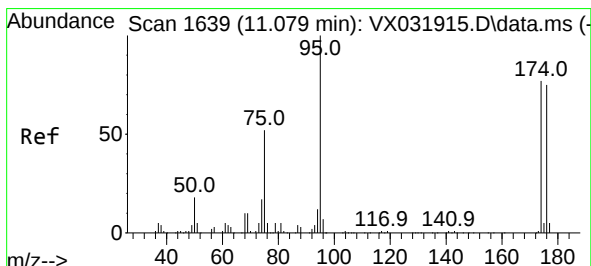
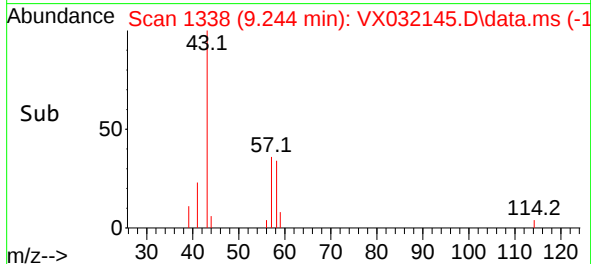
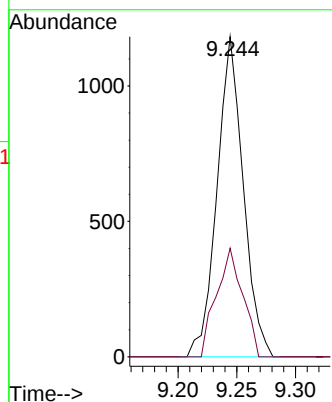
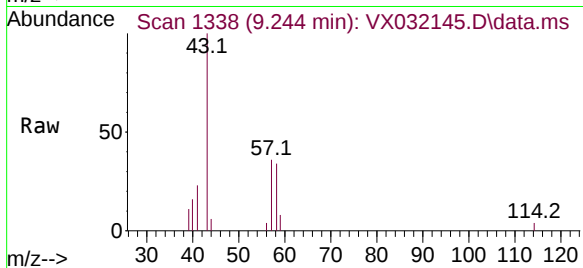




#59
2-Hexanone
Concen: 1.377 ug/l
RT: 9.244 min Scan# 11
Delta R.T. -0.189 min
Lab File: VX032145.D
Acq: 14 Oct 2022 19:20

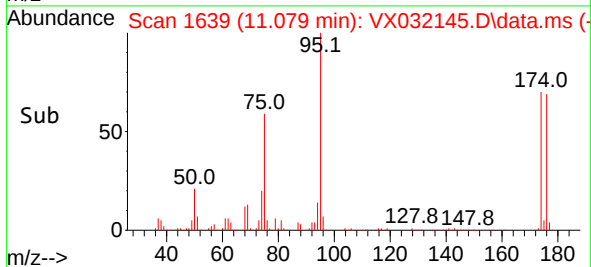
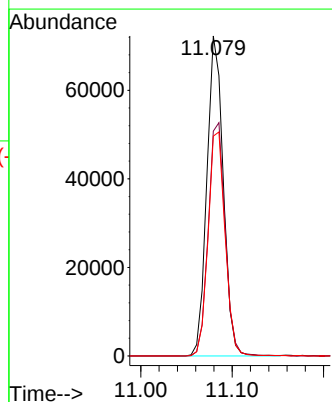
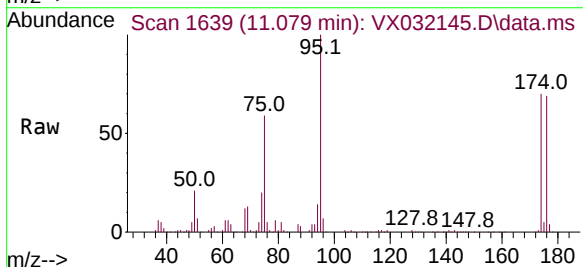
Instrument :
MSVOA_X
ClientSampleId :
MW-8-101322RE

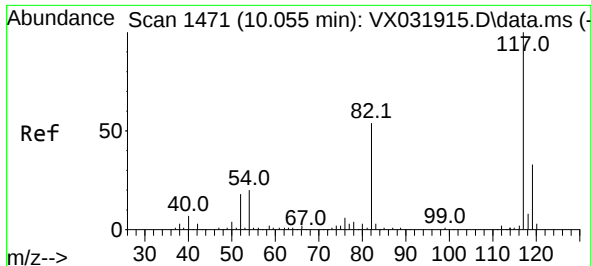
Tgt Ion: 43 Resp: 1834
Ion Ratio Lower Upper
43 100
58 34.0 26.7 80.0



#62
4-Bromofluorobenzene
Concen: 49.180 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX032145.D
Acq: 14 Oct 2022 19:20

Tgt Ion: 95 Resp: 89999
Ion Ratio Lower Upper
95 100
174 75.1 0.0 153.2
176 72.4 0.0 144.0

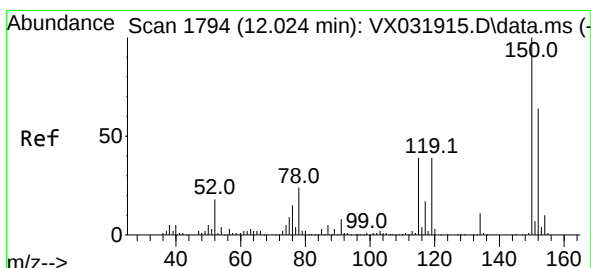
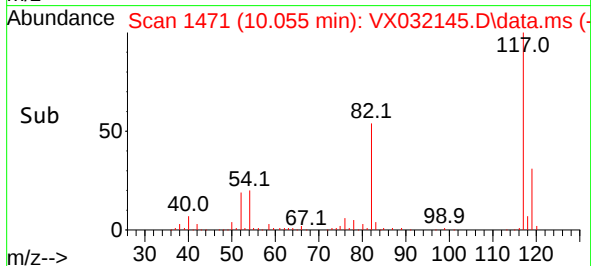
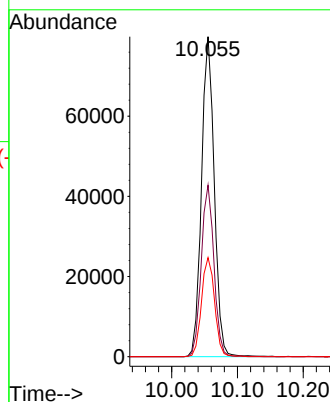
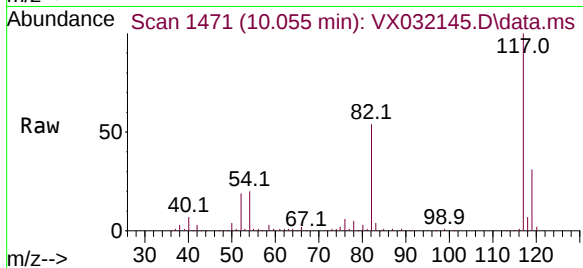




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX032145.D
Acq: 14 Oct 2022 19:20

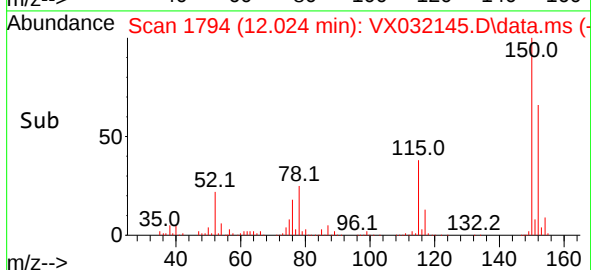
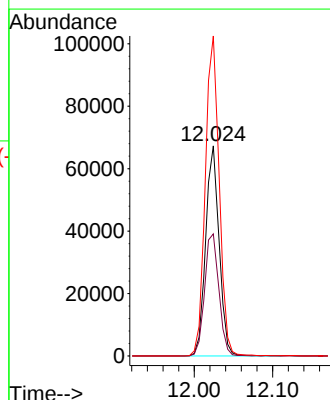
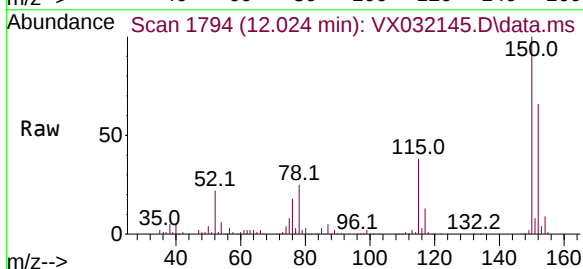
Instrument :
MSVOA_X
ClientSampleId :
MW-8-101322RE

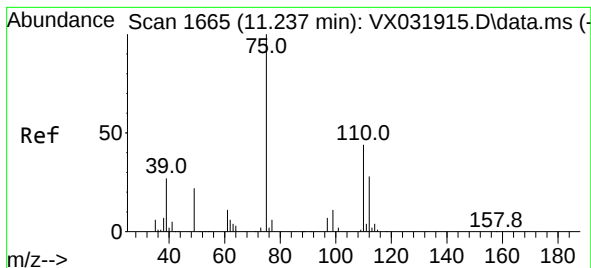
Tgt Ion:117 Resp: 107434
Ion Ratio Lower Upper
117 100
82 53.6 46.8 70.2
119 30.9 26.4 39.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX032145.D
Acq: 14 Oct 2022 19:20

Tgt Ion:152 Resp: 80307
Ion Ratio Lower Upper
152 100
115 61.6 43.4 130.1
150 156.8 0.0 346.8





#76

1,2,3-Trichloropropane

Concen: 31.378 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX032145.D

Acq: 14 Oct 2022 19:20

Instrument :

MSVOA_X

ClientSampleId :

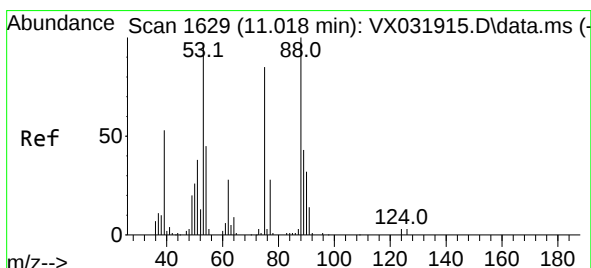
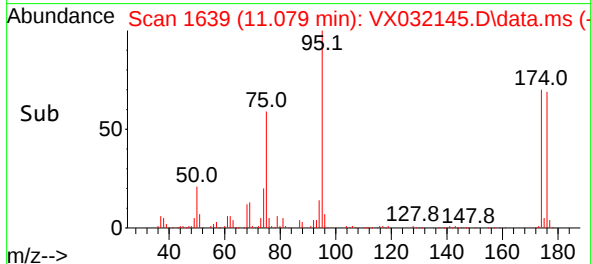
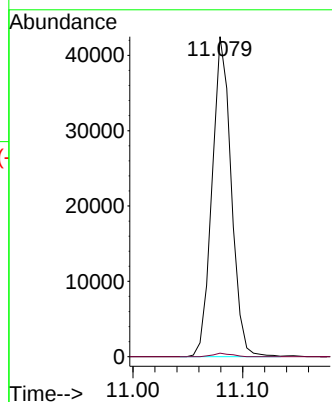
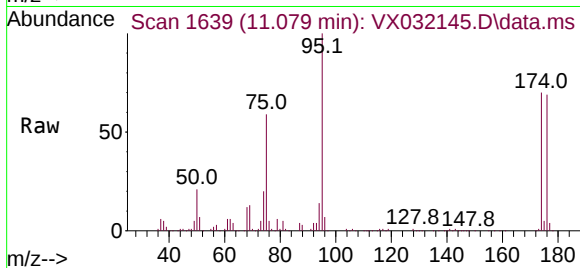
MW-8-101322RE

Tgt Ion: 75 Resp: 51645

Ion Ratio Lower Upper

75 100

77 1.0 20.3 60.9#



#81

trans-1,4-Dichloro-2-butene

Concen: 106.936 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX032145.D

Acq: 14 Oct 2022 19:20

Tgt Ion: 75 Resp: 51645

Ion Ratio Lower Upper

75 100

53 0.0 77.6 116.4#

89 0.0 37.4 56.0#

