

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061323\
 Data File : VX036146.D
 Acq On : 13 Jun 2023 16:02
 Operator : JC/MD
 Sample : 03173-09
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 OW-06B-74-79-061223

Quant Time: Jun 14 00:56:00 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X053123W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 31 12:50:30 2023
 Response via : Initial Calibration

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

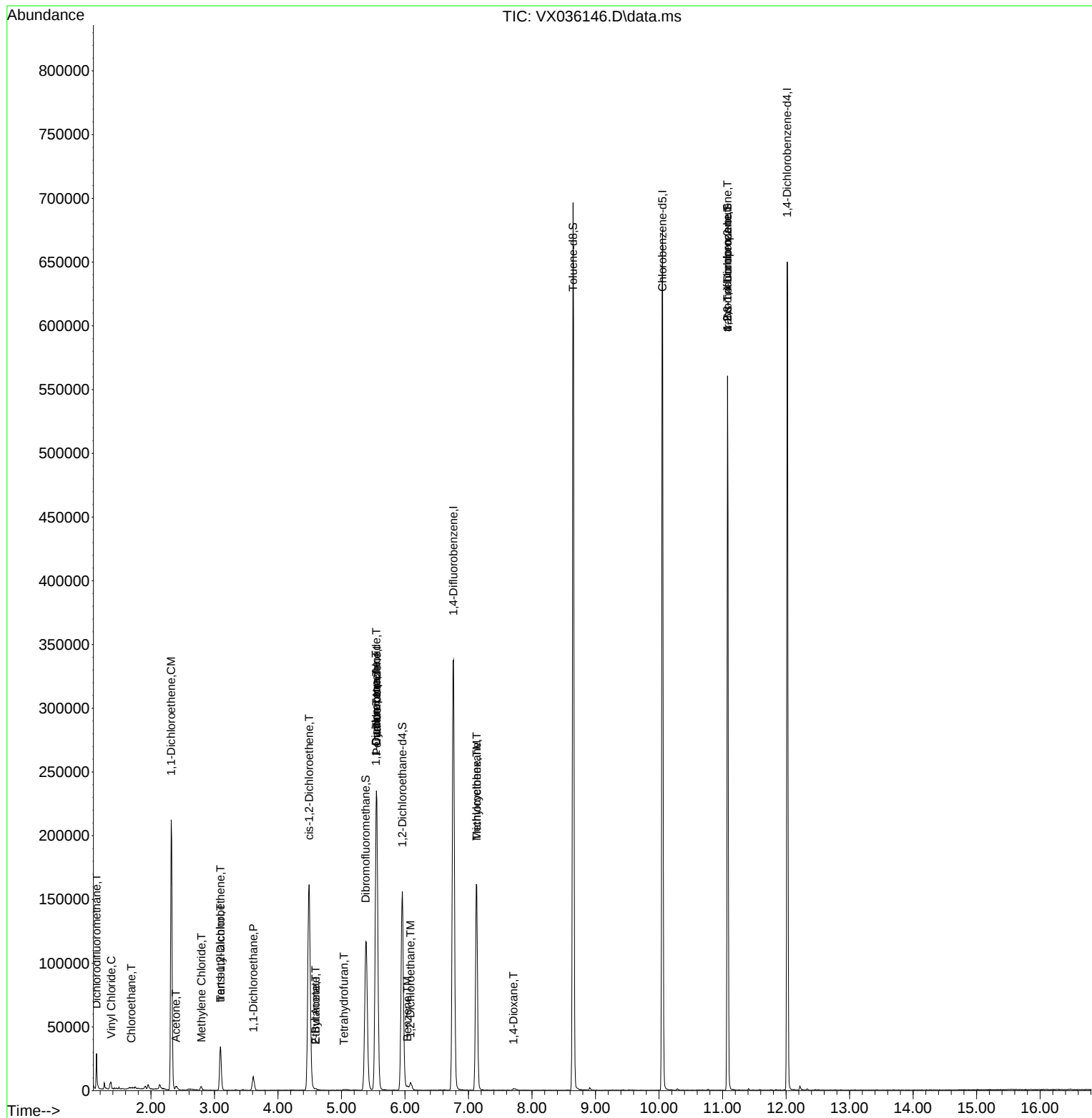
Internal Standards						
1) Pentafluorobenzene	5.556	168	199046	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	320439	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	284714	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	120093	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	154779	47.886	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	95.780%
35) Dibromofluoromethane	5.379	113	101083	46.901	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	93.800%
50) Toluene-d8	8.647	98	379222	49.026	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	98.060%
62) 4-Bromofluorobenzene	11.079	95	144237	47.237	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	94.480%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.142	85	601	0.276	ug/l	96
4) Vinyl Chloride	1.374	62	723	0.310	ug/l	90
6) Chloroethane	1.691	64	323	0.235	ug/l #	66
11) Tert butyl alcohol	3.093	59	679	1.183	ug/l	96
12) 1,1-Dichloroethene	2.319	96	63959	32.029	ug/l	98
16) Acetone	2.392	43	4189	3.141	ug/l	99
20) Methylene Chloride	2.794	84	1261	0.491	ug/l #	92
21) trans-1,2-Dichloroethene	3.093	96	12876	5.641	ug/l	99
24) 1,1-Dichloroethane	3.611	63	11322	2.557	ug/l	96
25) 2-Butanone	4.593	43	1614	0.846	ug/l #	75
27) cis-1,2-Dichloroethene	4.489	96	97821	35.705	ug/l	91
29) Tetrahydrofuran	5.038	42	619	0.503	ug/l #	43
31) Cyclohexane	5.550	56	5509	1.628	ug/l #	16
36) 1,1-Dichloropropene	5.544	75	18564	6.460	ug/l #	52
37) Ethyl Acetate	4.593	43	1614	0.504	ug/l #	70
38) Carbon Tetrachloride	5.550	117	24050	8.588	ug/l #	17
39) Methylcyclohexane	7.129	83	878	0.293	ug/l #	1
40) Benzene	6.038	78	3058	0.355	ug/l	96
42) 1,2-Dichloroethane	6.086	62	6586	1.928	ug/l	96
44) Trichloroethene	7.129	130	59630	26.652	ug/l	99
49) 1,4-Dioxane	7.708	88	640	10.829	ug/l #	1
76) 1,2,3-Trichloropropane	11.079	75	79178	29.232	ug/l #	35
81) trans-1,4-Dichloro-2-b...	11.079	75	79178	98.462	ug/l #	3

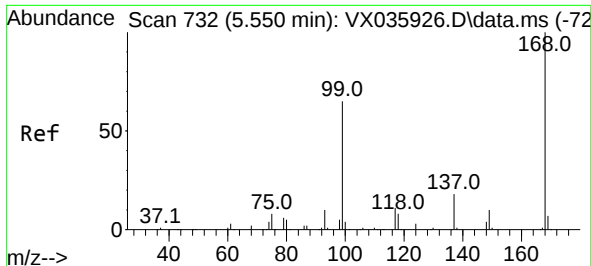
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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OW-06B-74-79-061223

Quant Time: Jun 14 00:56:00 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X053123W.M
Quant Title : SW846 8260
QLast Update : Wed May 31 12:50:30 2023
Response via : Initial Calibration

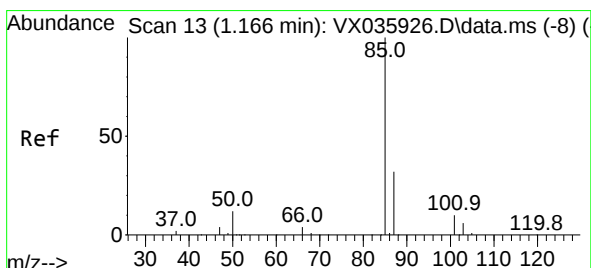
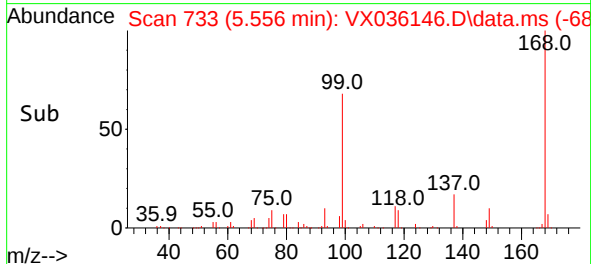
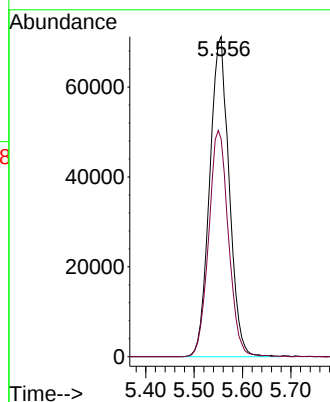
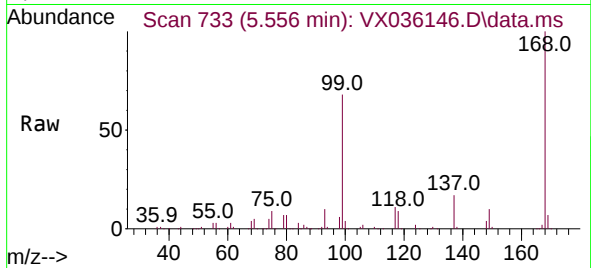




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. 0.007 min
Lab File: VX036146.D
Acq: 13 Jun 2023 16:02

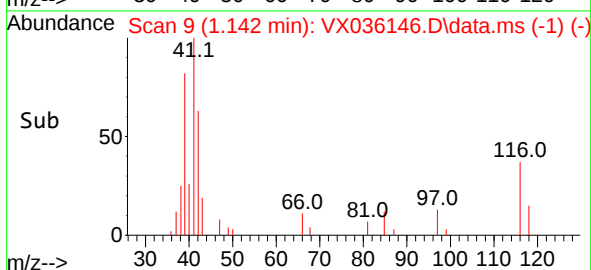
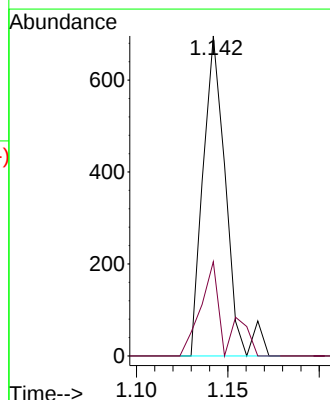
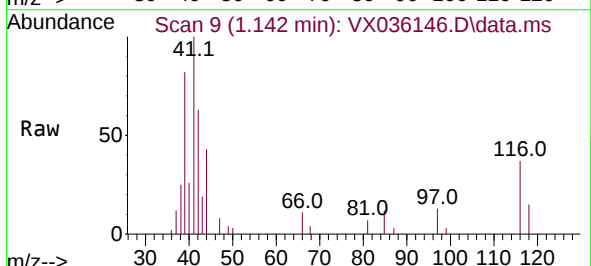
Instrument :
MSVOA_X
ClientSampleId :
OW-06B-74-79-061223

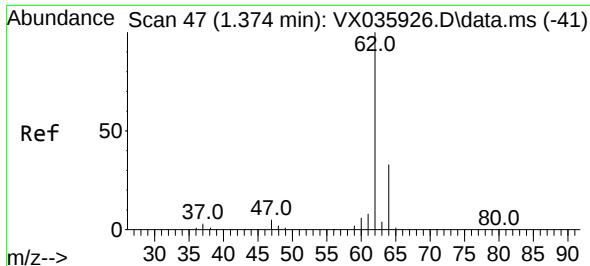
Tgt Ion:168 Resp: 199046
Ion Ratio Lower Upper
168 100
99 68.0 57.0 85.6



#2
Dichlorodifluoromethane
Concen: 0.276 ug/l
RT: 1.142 min Scan# 9
Delta R.T. -0.024 min
Lab File: VX036146.D
Acq: 13 Jun 2023 16:02

Tgt Ion: 85 Resp: 601
Ion Ratio Lower Upper
85 100
87 29.5 15.8 47.4

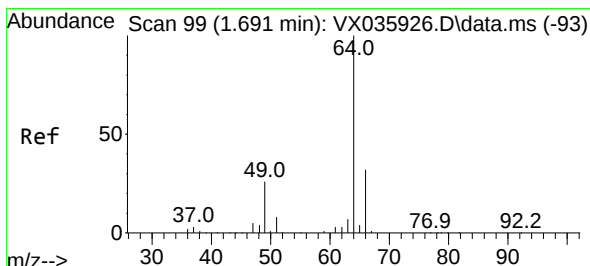
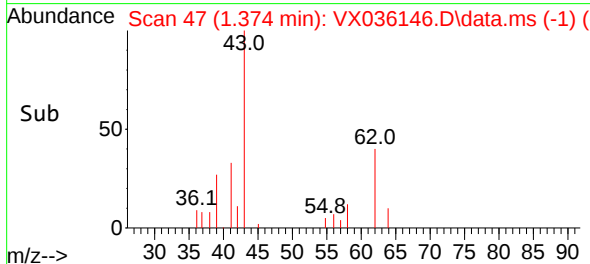
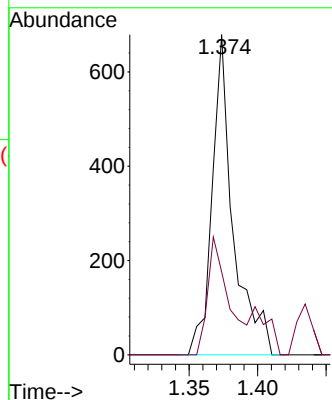
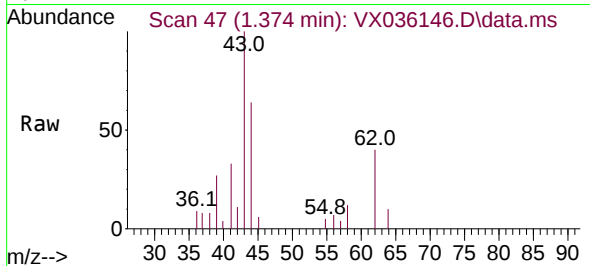




#4
 Vinyl Chloride
 Concen: 0.310 ug/l
 RT: 1.374 min Scan# 41
 Delta R.T. 0.001 min
 Lab File: VX036146.D
 Acq: 13 Jun 2023 16:02

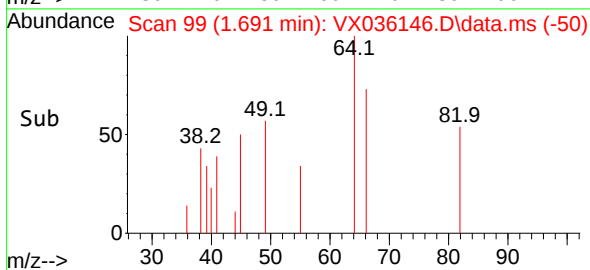
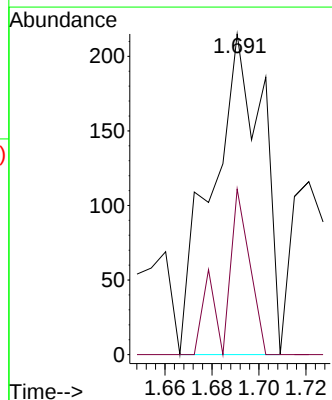
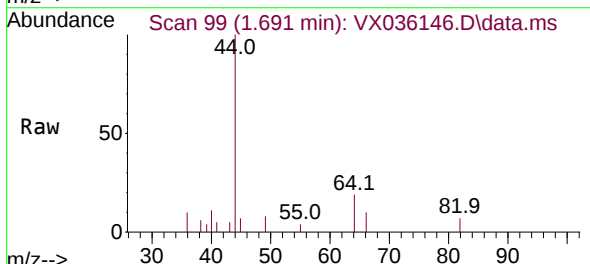
Instrument :
 MSVOA_X
 ClientSampleId :
 OW-06B-74-79-061223

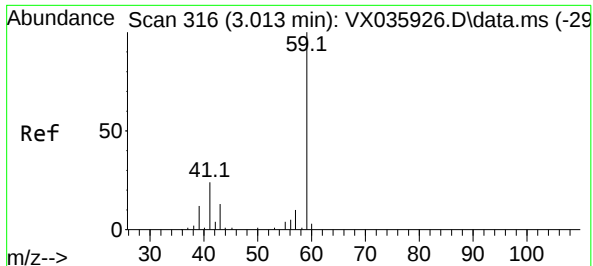
Tgt Ion: 62 Resp: 723
 Ion Ratio Lower Upper
 62 100
 64 25.9 25.2 37.8



#6
 Chloroethane
 Concen: 0.235 ug/l
 RT: 1.691 min Scan# 99
 Delta R.T. 0.001 min
 Lab File: VX036146.D
 Acq: 13 Jun 2023 16:02

Tgt Ion: 64 Resp: 323
 Ion Ratio Lower Upper
 64 100
 66 51.6 26.0 39.0#





#11

Tert butyl alcohol

Concen: 1.183 ug/l

RT: 3.093 min Scan# 316

Delta R.T. 0.086 min

Lab File: VX036146.D

Acq: 13 Jun 2023 16:02

Instrument :

MSVOA_X

ClientSampleId :

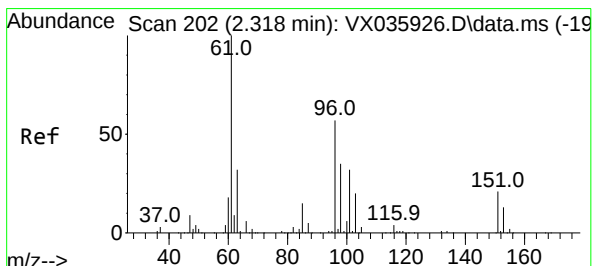
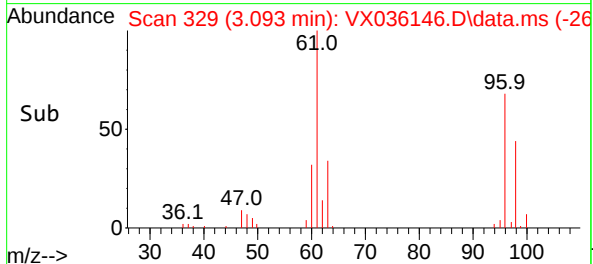
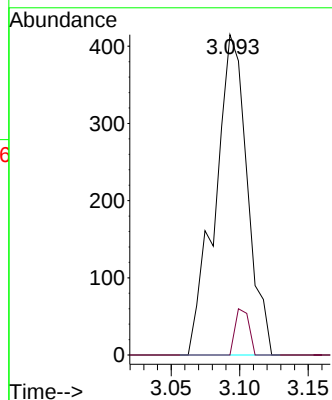
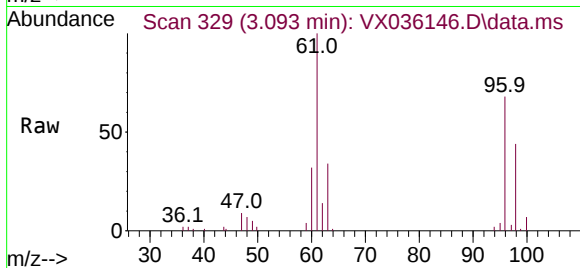
OW-06B-74-79-061223

Tgt Ion: 59 Resp: 679

Ion Ratio Lower Upper

59 100

57 6.2 6.0 9.0



#12

1,1-Dichloroethene

Concen: 32.029 ug/l

RT: 2.319 min Scan# 202

Delta R.T. 0.001 min

Lab File: VX036146.D

Acq: 13 Jun 2023 16:02

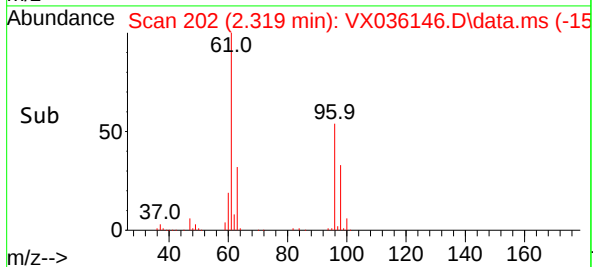
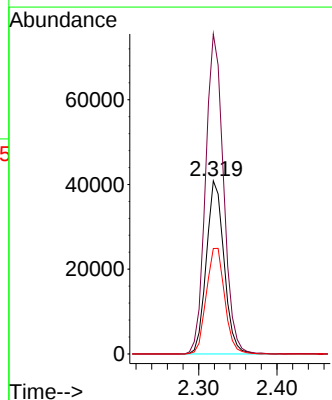
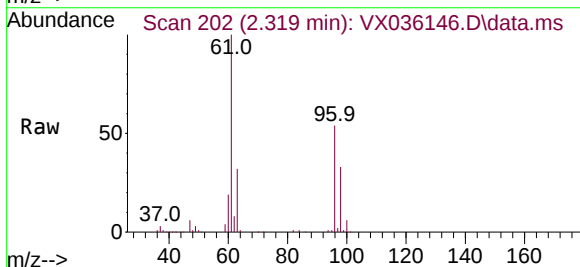
Tgt Ion: 96 Resp: 63959

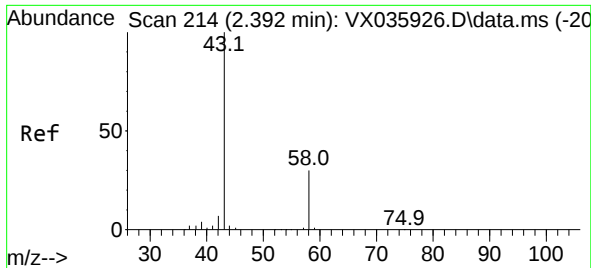
Ion Ratio Lower Upper

96 100

61 184.9 145.2 217.8

98 60.9 49.3 73.9





#16

Acetone

Concen: 3.141 ug/l

RT: 2.392 min Scan# 214

Delta R.T. 0.001 min

Lab File: VX036146.D

Acq: 13 Jun 2023 16:02

Instrument :

MSVOA_X

ClientSampleId :

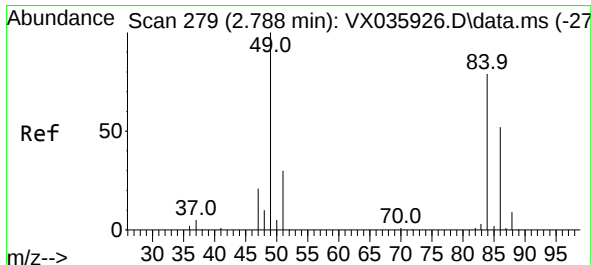
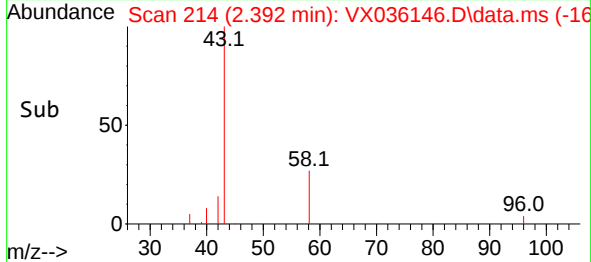
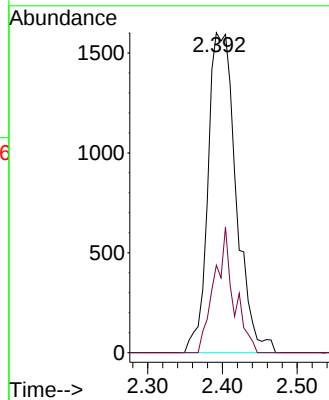
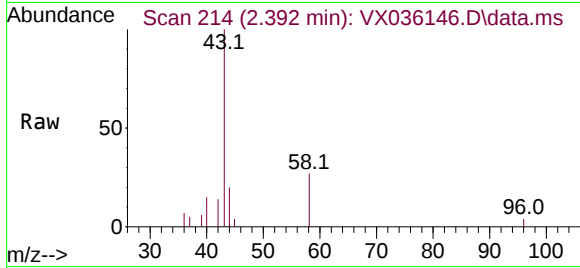
OW-06B-74-79-061223

Tgt Ion: 43 Resp: 4189

Ion Ratio Lower Upper

43 100

58 27.3 22.2 33.2



#20

Methylene Chloride

Concen: 0.491 ug/l

RT: 2.794 min Scan# 280

Delta R.T. 0.006 min

Lab File: VX036146.D

Acq: 13 Jun 2023 16:02

Tgt Ion: 84 Resp: 1261

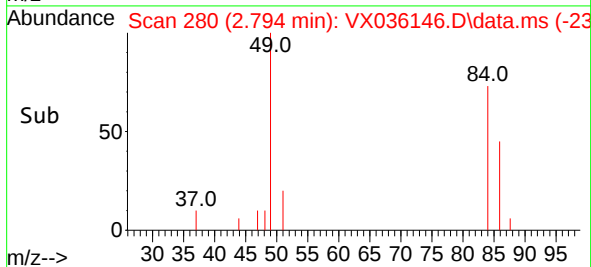
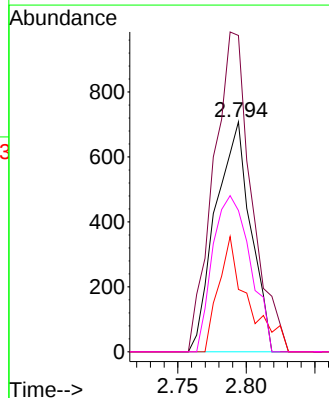
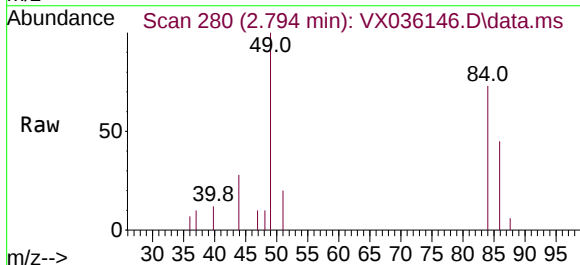
Ion Ratio Lower Upper

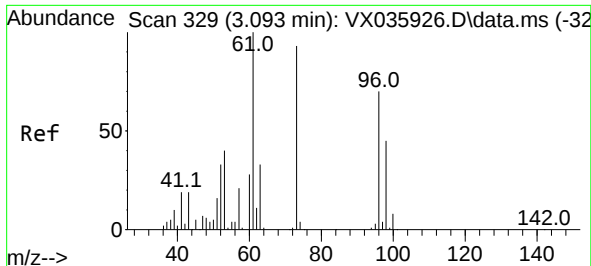
84 100

49 137.6 104.6 156.8

51 27.1 32.2 48.4#

86 61.4 52.4 78.6

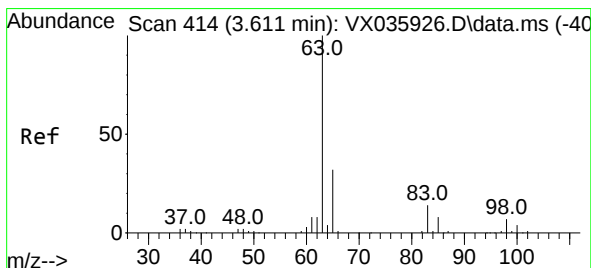
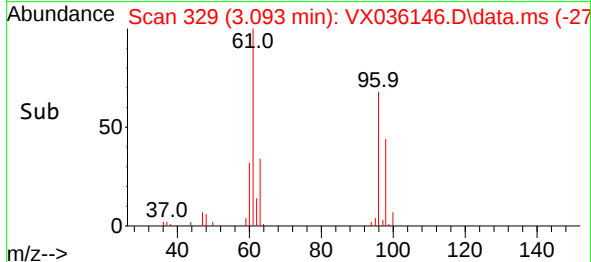
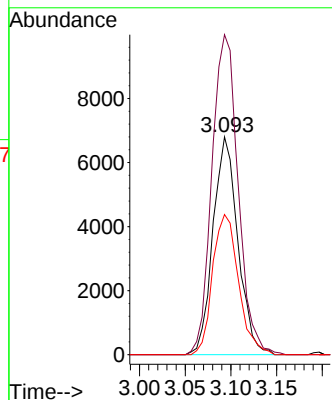
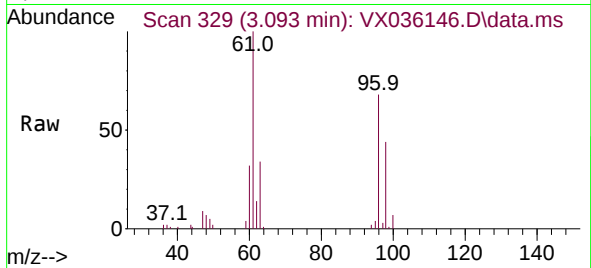




#21
trans-1,2-Dichloroethene
Concen: 5.641 ug/l
RT: 3.093 min Scan# 31
Delta R.T. 0.007 min
Lab File: VX036146.D
Acq: 13 Jun 2023 16:02

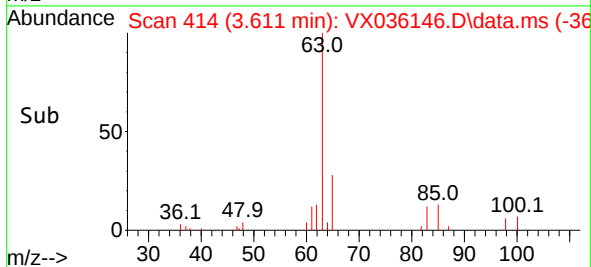
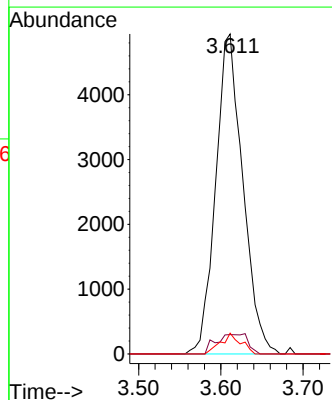
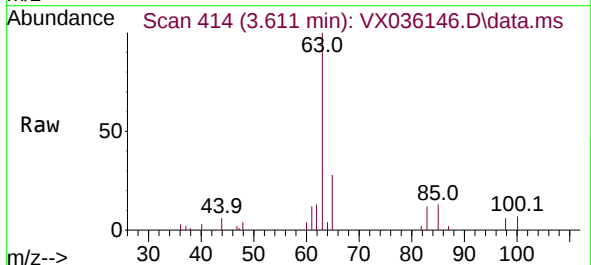
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OW-06B-74-79-061223

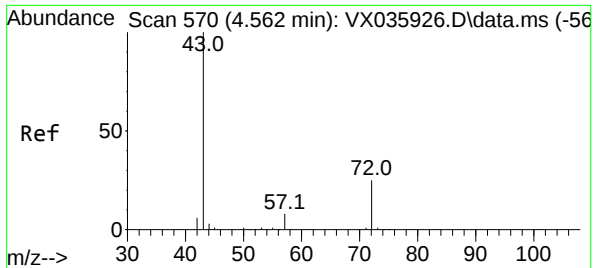
Tgt Ion: 96 Resp: 12876
Ion Ratio Lower Upper
96 100
61 146.9 118.2 177.4
98 64.3 50.6 75.8



#24
1,1-Dichloroethane
Concen: 2.557 ug/l
RT: 3.611 min Scan# 414
Delta R.T. 0.000 min
Lab File: VX036146.D
Acq: 13 Jun 2023 16:02

Tgt Ion: 63 Resp: 11322
Ion Ratio Lower Upper
63 100
98 6.1 3.5 10.5
100 6.5 2.3 6.9





#25

2-Butanone

Concen: 0.846 ug/l

RT: 4.593 min Scan# 51

Delta R.T. 0.031 min

Lab File: VX036146.D

Acq: 13 Jun 2023 16:02

Instrument :

MSVOA_X

ClientSampleId :

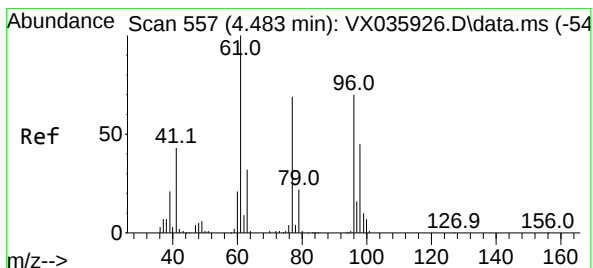
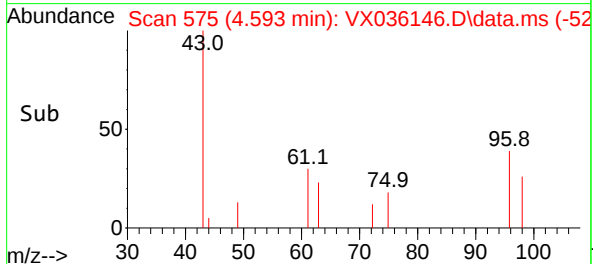
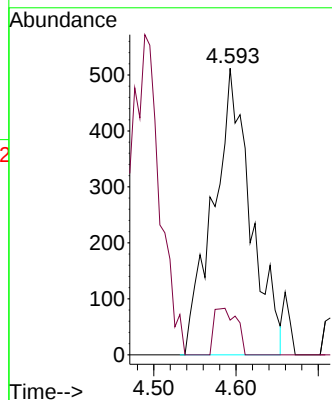
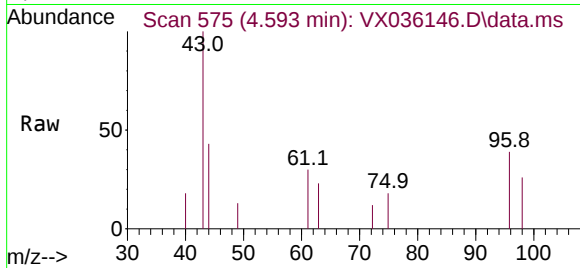
OW-06B-74-79-061223

Tgt Ion: 43 Resp: 1614

Ion Ratio Lower Upper

43 100

72 12.1 19.4 29.2#



#27

cis-1,2-Dichloroethene

Concen: 35.705 ug/l

RT: 4.489 min Scan# 558

Delta R.T. 0.000 min

Lab File: VX036146.D

Acq: 13 Jun 2023 16:02

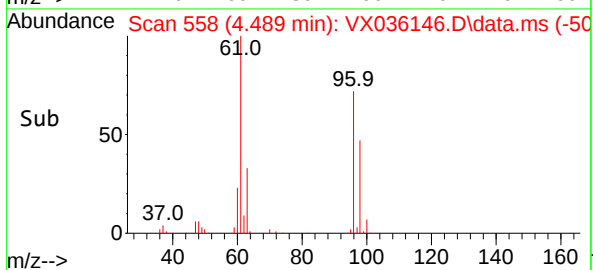
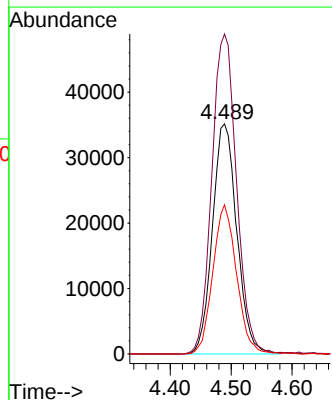
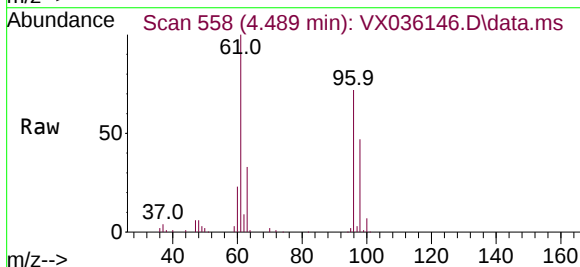
Tgt Ion: 96 Resp: 97821

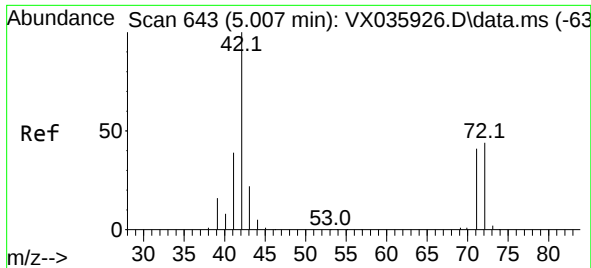
Ion Ratio Lower Upper

96 100

61 140.9 0.0 312.6

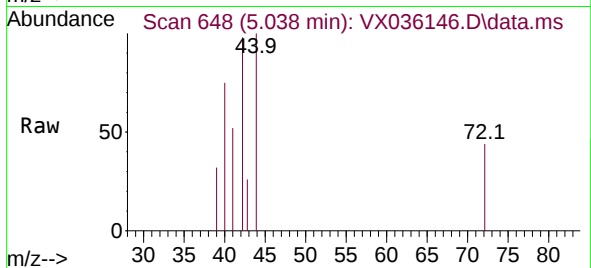
98 62.9 0.0 130.0



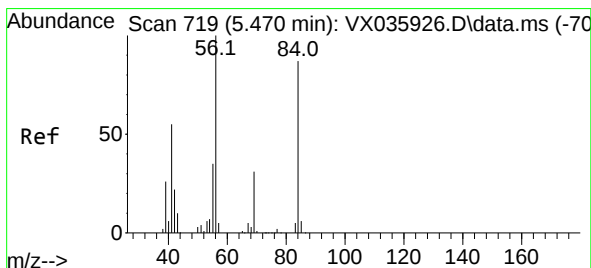
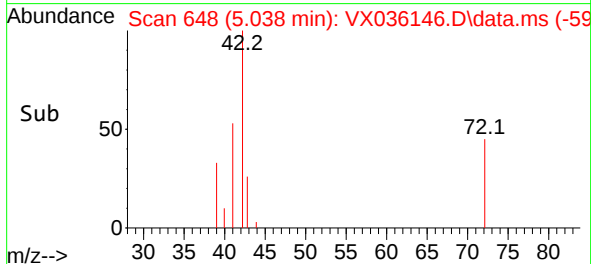
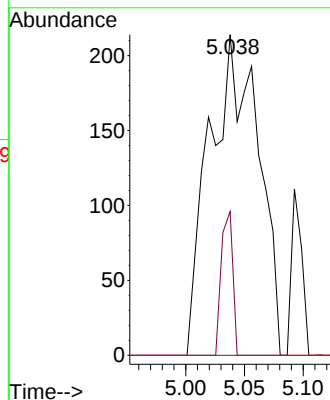


#29
Tetrahydrofuran
Concen: 0.503 ug/l
RT: 5.038 min Scan# 643
Delta R.T. 0.025 min
Lab File: VX036146.D
Acq: 13 Jun 2023 16:02

Instrument :
MSVOA_X
ClientSampleId :
OW-06B-74-79-061223

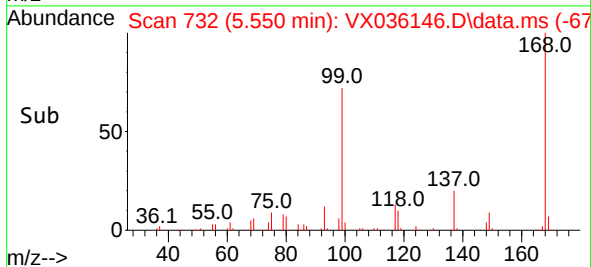
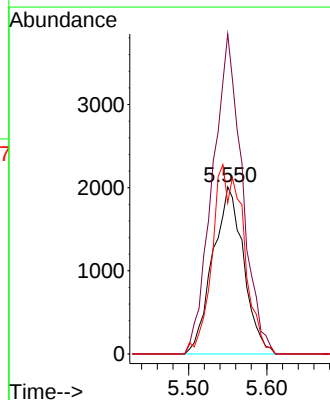
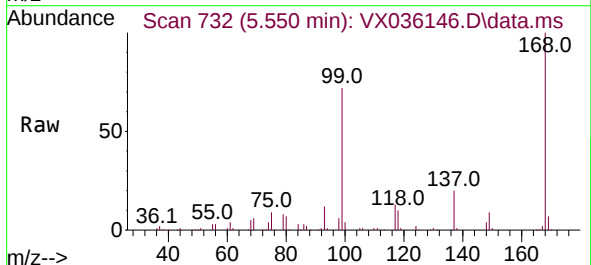


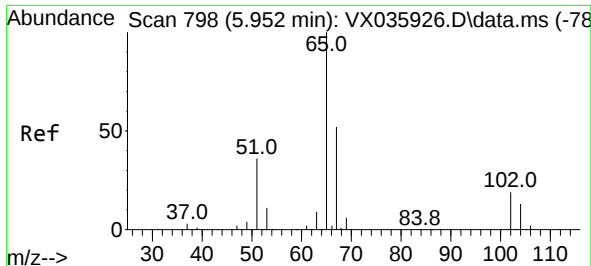
Tgt Ion: 42 Resp: 619
Ion Ratio Lower Upper
42 100
72 10.5 34.2 51.2#
71 0.0 31.8 47.8#



#31
Cyclohexane
Concen: 1.628 ug/l
RT: 5.550 min Scan# 732
Delta R.T. 0.080 min
Lab File: VX036146.D
Acq: 13 Jun 2023 16:02

Tgt Ion: 56 Resp: 5509
Ion Ratio Lower Upper
56 100
69 191.6 25.9 38.9#
84 90.5 67.6 101.4





#33

1,2-Dichloroethane-d4

Concen: 47.886 ug/l

RT: 5.958 min Scan# 798

Delta R.T. 0.006 min

Lab File: VX036146.D

Acq: 13 Jun 2023 16:02

Instrument :

MSVOA_X

ClientSampleId :

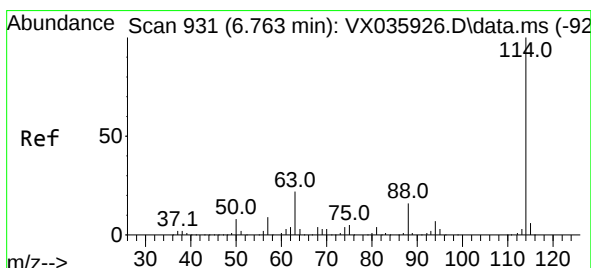
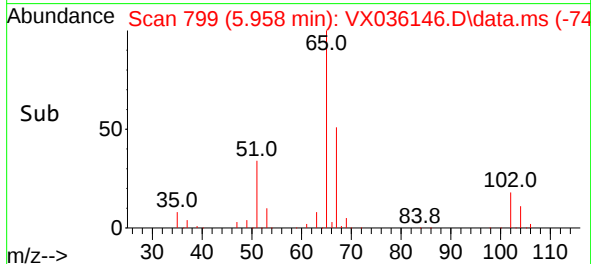
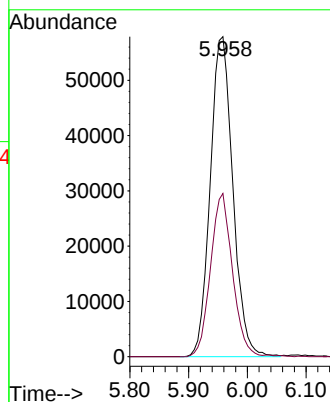
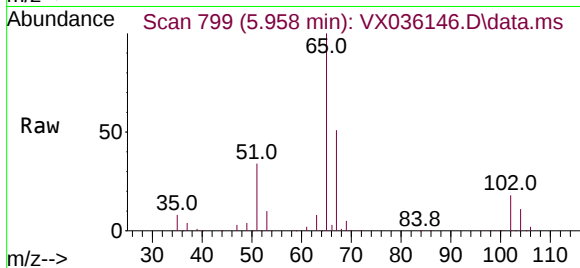
OW-06B-74-79-061223

Tgt Ion: 65 Resp: 154779

Ion Ratio Lower Upper

65 100

67 49.7 0.0 99.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. 0.000 min

Lab File: VX036146.D

Acq: 13 Jun 2023 16:02

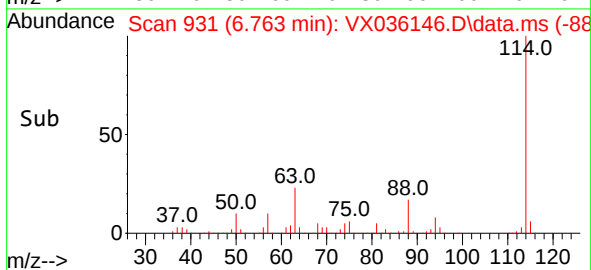
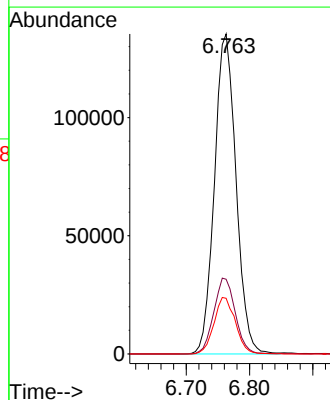
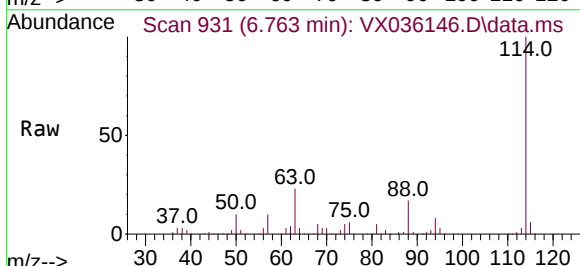
Tgt Ion: 114 Resp: 320439

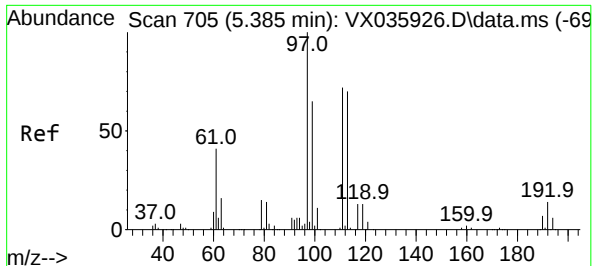
Ion Ratio Lower Upper

114 100

63 23.4 0.0 46.0

88 17.4 0.0 35.2





#35

Dibromofluoromethane

Concen: 46.901 ug/l

RT: 5.379 min Scan# 705

Delta R.T. -0.006 min

Lab File: VX036146.D

Acq: 13 Jun 2023 16:02

Instrument :

MSVOA_X

ClientSampleId :

OW-06B-74-79-061223

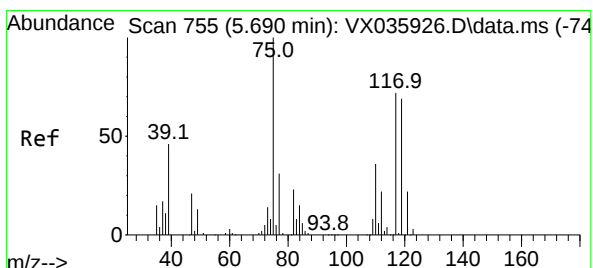
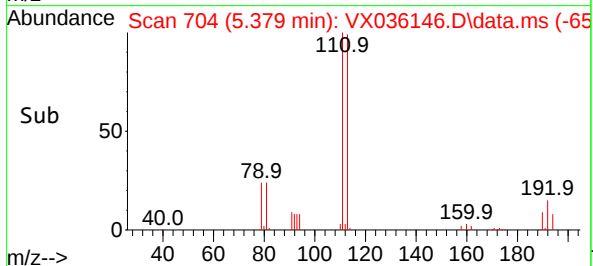
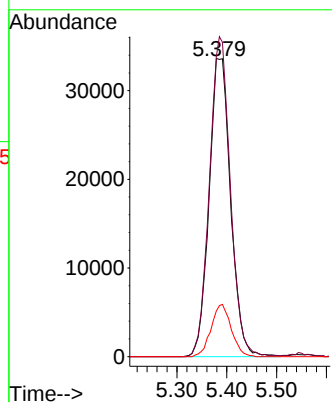
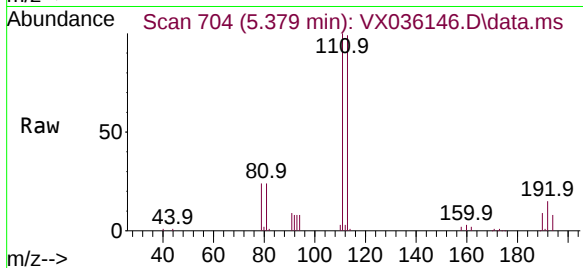
Tgt Ion:113 Resp: 101083

Ion Ratio Lower Upper

113 100

111 104.1 81.7 122.5

192 16.4 13.5 20.3



#36

1,1-Dichloropropene

Concen: 6.460 ug/l

RT: 5.544 min Scan# 731

Delta R.T. -0.146 min

Lab File: VX036146.D

Acq: 13 Jun 2023 16:02

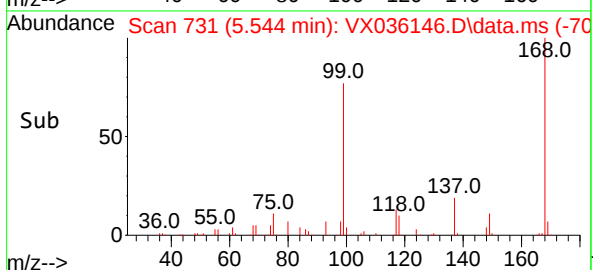
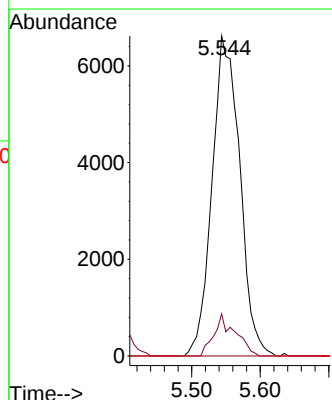
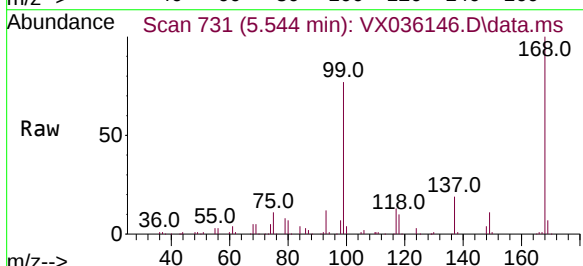
Tgt Ion: 75 Resp: 18564

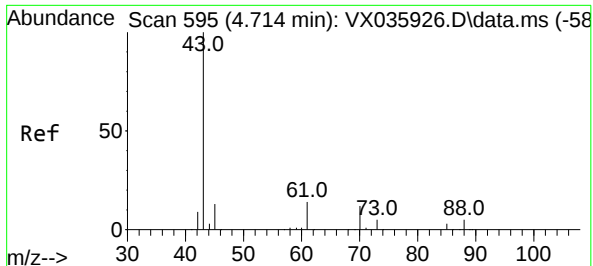
Ion Ratio Lower Upper

75 100

110 10.2 16.6 49.7#

77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 0.504 ug/l

RT: 4.593 min Scan# 51

Delta R.T. -0.115 min

Lab File: VX036146.D

Acq: 13 Jun 2023 16:02

Instrument :

MSVOA_X

ClientSampleId :

OW-06B-74-79-061223

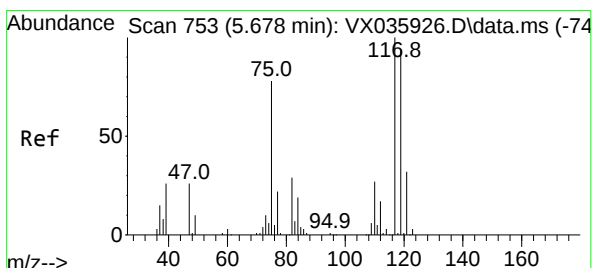
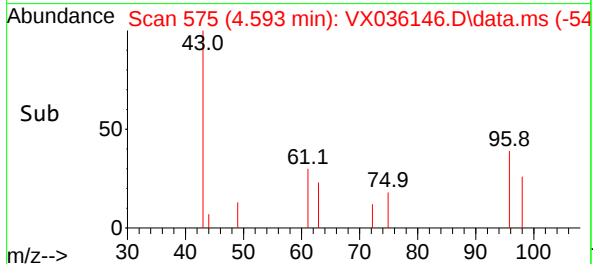
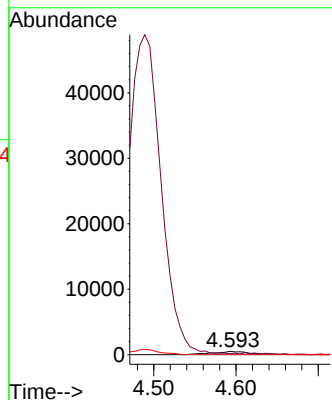
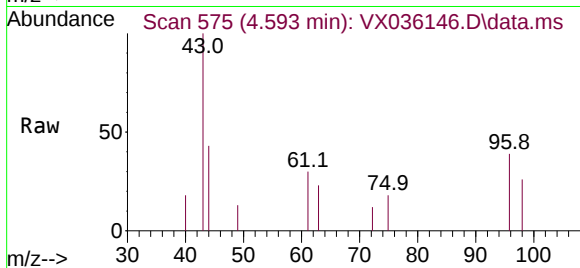
Tgt Ion: 43 Resp: 1614

Ion Ratio Lower Upper

43 100

61 0.0 10.3 15.5#

70 0.0 8.3 12.5#



#38

Carbon Tetrachloride

Concen: 8.588 ug/l

RT: 5.550 min Scan# 732

Delta R.T. -0.127 min

Lab File: VX036146.D

Acq: 13 Jun 2023 16:02

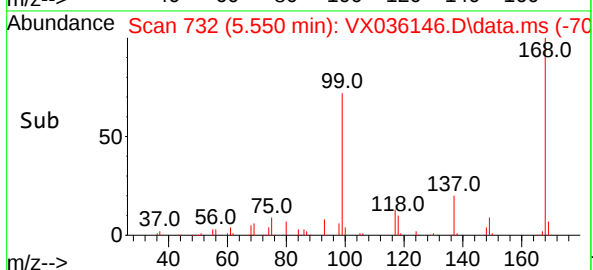
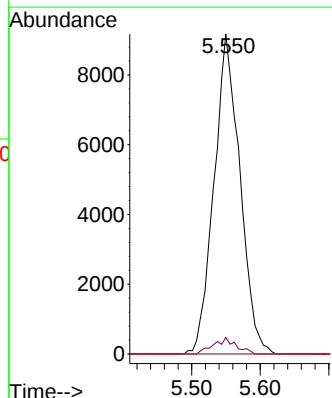
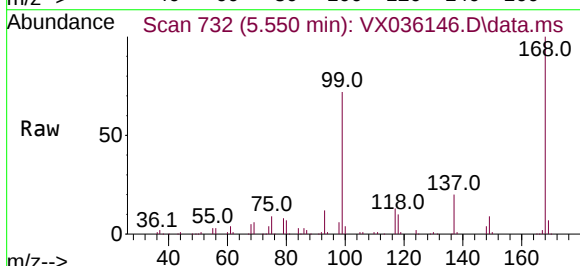
Tgt Ion: 117 Resp: 24050

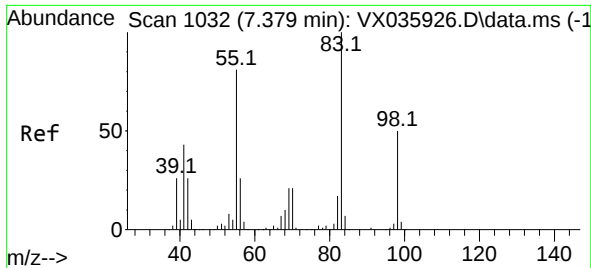
Ion Ratio Lower Upper

117 100

119 5.1 74.1 111.1#

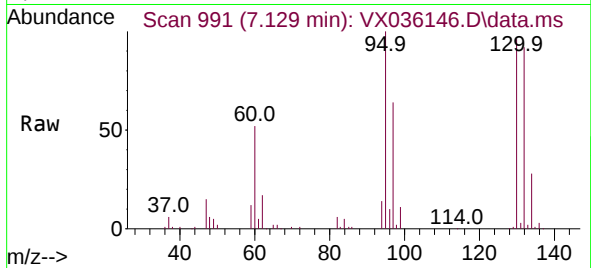
121 0.0 25.0 37.4#



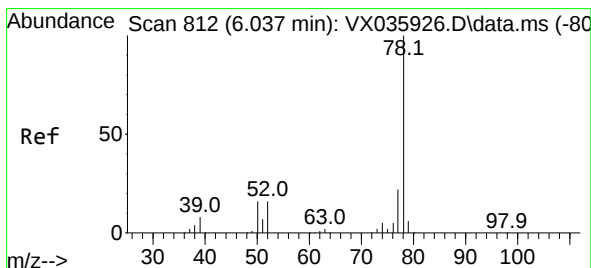
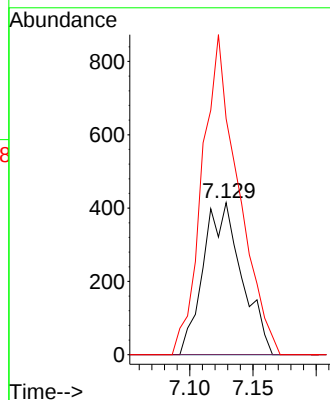
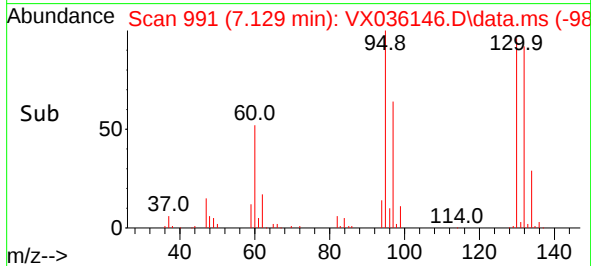


#39
Methylcyclohexane
Concen: 0.293 ug/l
RT: 7.129 min Scan# 91
Delta R.T. -0.249 min
Lab File: VX036146.D
Acq: 13 Jun 2023 16:02

Instrument :
MSVOA_X
ClientSampleId :
OW-06B-74-79-061223

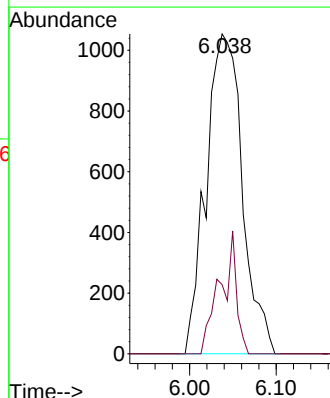
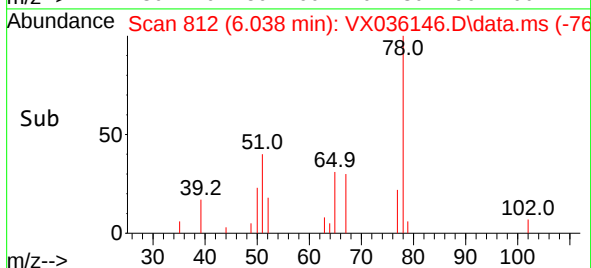
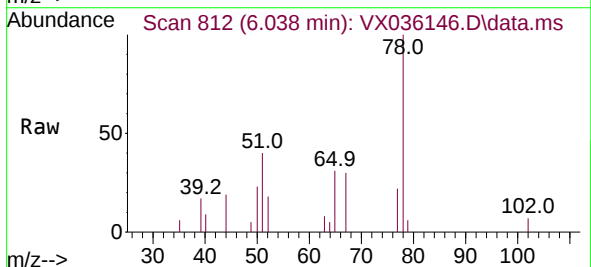


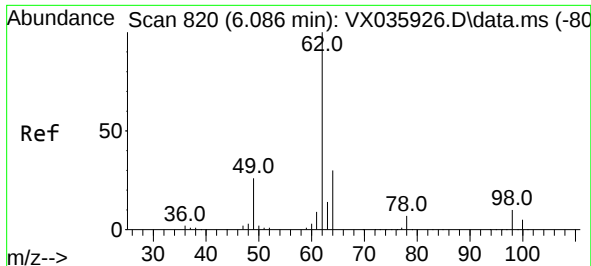
Tgt Ion: 83 Resp: 878
Ion Ratio Lower Upper
83 100
55 0.0 64.9 97.3#
98 155.2 38.1 57.1#



#40
Benzene
Concen: 0.355 ug/l
RT: 6.038 min Scan# 812
Delta R.T. 0.001 min
Lab File: VX036146.D
Acq: 13 Jun 2023 16:02

Tgt Ion: 78 Resp: 3058
Ion Ratio Lower Upper
78 100
77 21.6 19.0 28.6





#42

1,2-Dichloroethane

Concen: 1.928 ug/l

RT: 6.086 min Scan# 81

Delta R.T. 0.000 min

Lab File: VX036146.D

Acq: 13 Jun 2023 16:02

Instrument :

MSVOA_X

ClientSampleId :

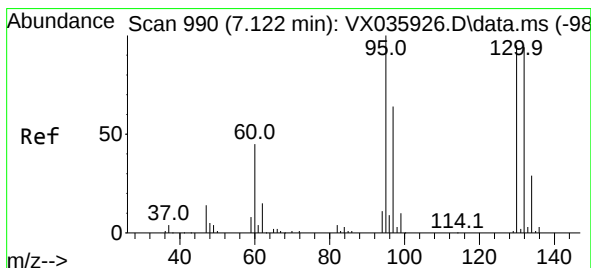
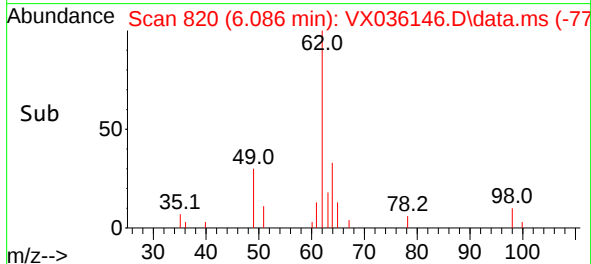
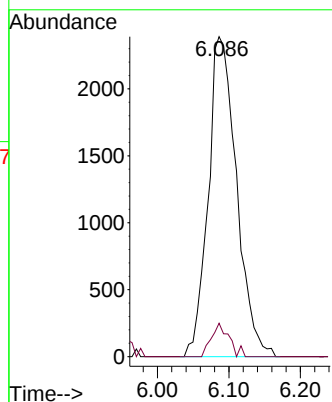
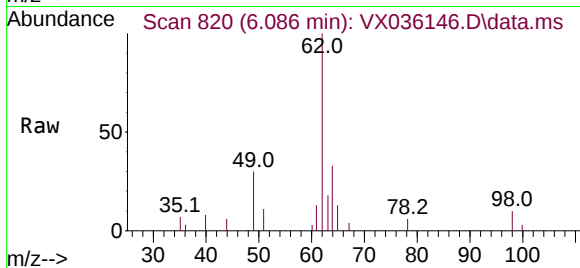
OW-06B-74-79-061223

Tgt Ion: 62 Resp: 6586

Ion Ratio Lower Upper

62 100

98 6.5 0.0 16.0



#44

Trichloroethene

Concen: 26.652 ug/l

RT: 7.129 min Scan# 991

Delta R.T. 0.007 min

Lab File: VX036146.D

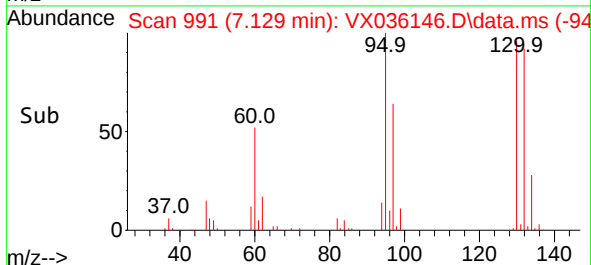
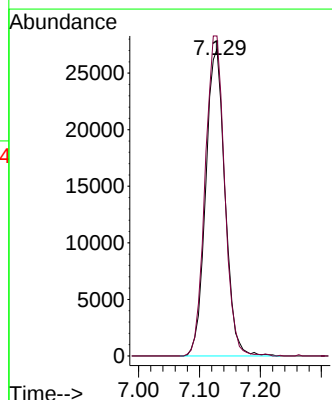
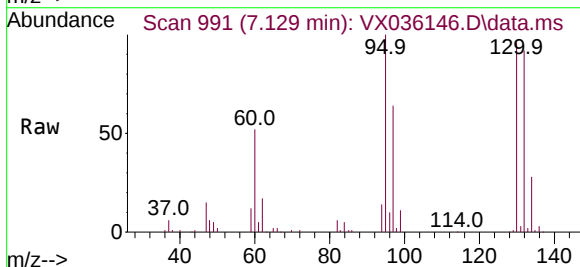
Acq: 13 Jun 2023 16:02

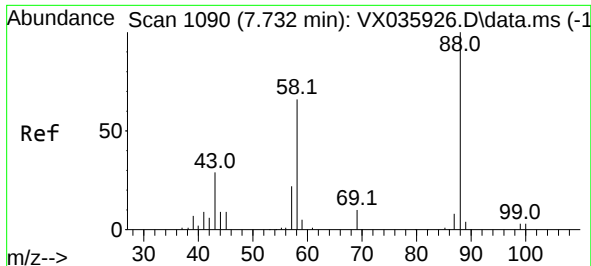
Tgt Ion:130 Resp: 59630

Ion Ratio Lower Upper

130 100

95 104.3 0.0 207.6





#49

1,4-Dioxane

Concen: 10.829 ug/l

RT: 7.708 min Scan# 1086

Delta R.T. -0.006 min

Lab File: VX036146.D

Acq: 13 Jun 2023 16:02

Instrument :

MSVOA_X

ClientSampleId :

OW-06B-74-79-061223

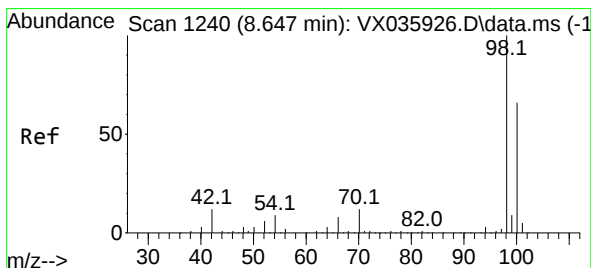
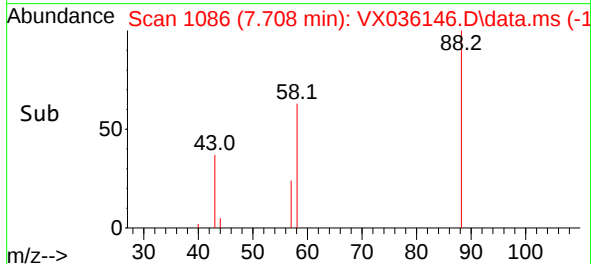
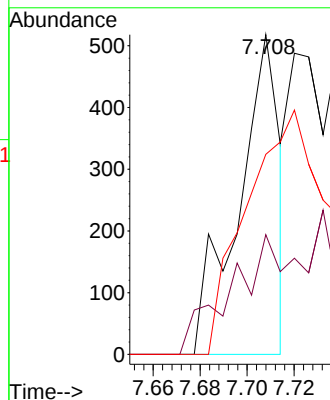
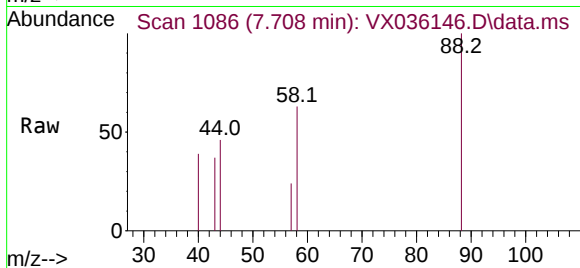
Tgt Ion: 88 Resp: 640

Ion Ratio Lower Upper

88 100

43 45.0 27.4 41.0#

58 203.3 58.9 88.3#



#50

Toluene-d8

Concen: 49.026 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.001 min

Lab File: VX036146.D

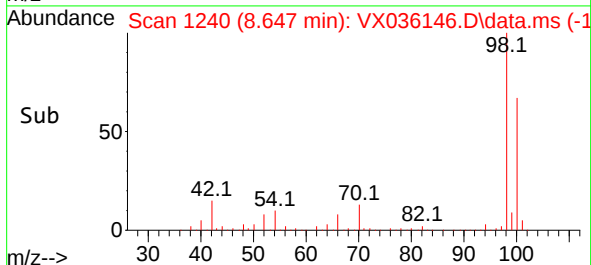
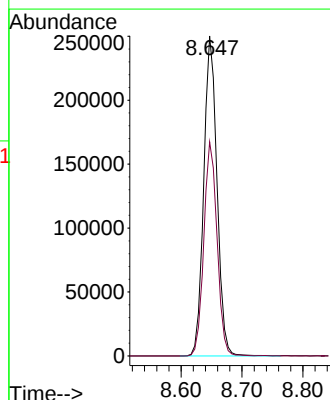
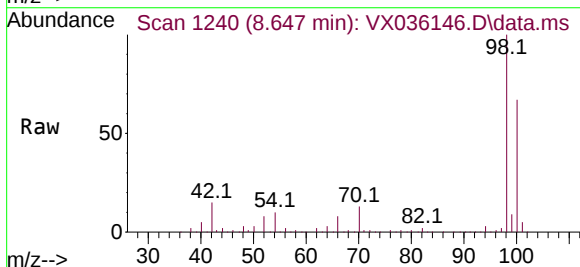
Acq: 13 Jun 2023 16:02

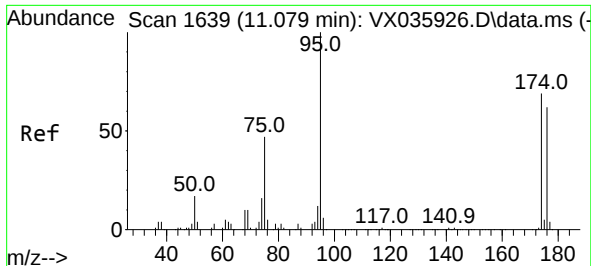
Tgt Ion: 98 Resp: 379222

Ion Ratio Lower Upper

98 100

100 66.8 53.4 80.0

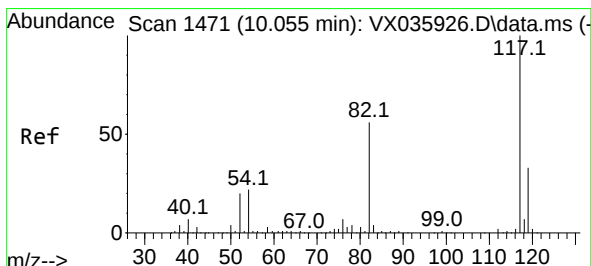
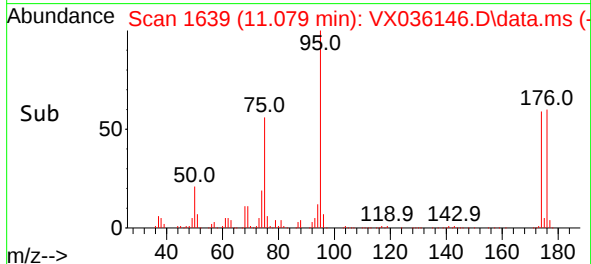
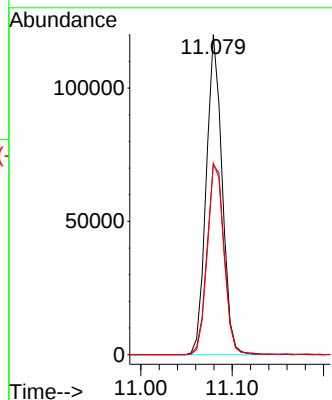
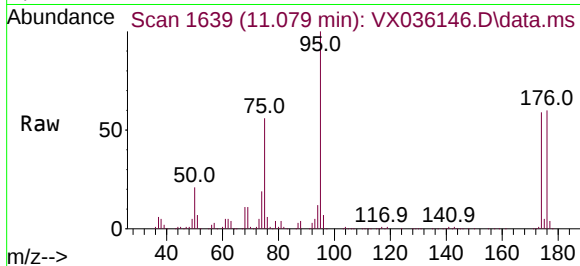




#62
4-Bromofluorobenzene
Concen: 47.237 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX036146.D
Acq: 13 Jun 2023 16:02

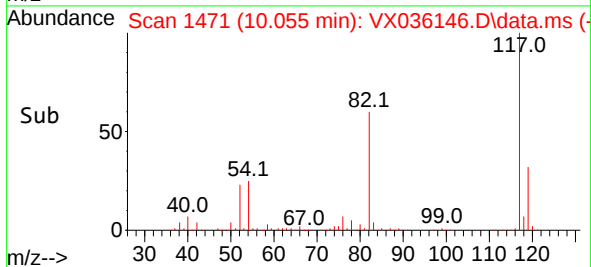
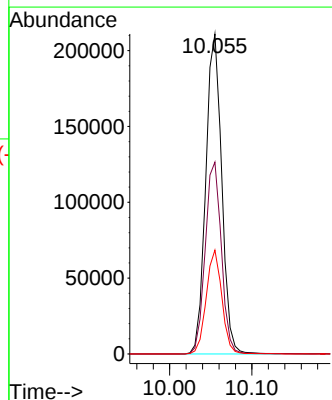
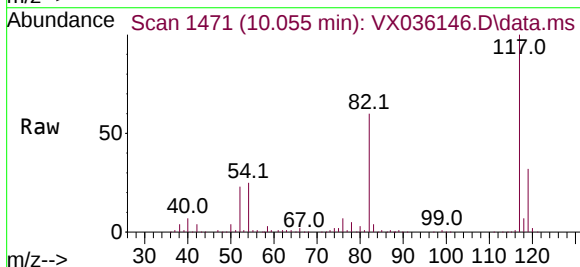
Instrument :
MSVOA_X
ClientSampleId :
OW-06B-74-79-061223

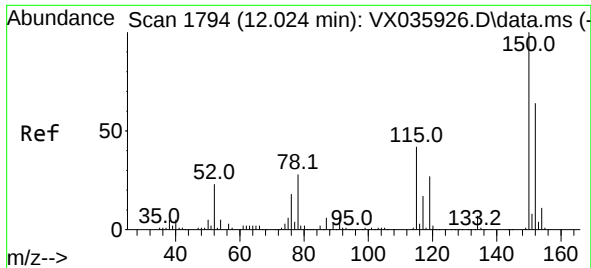
Tgt Ion: 95 Resp: 144237
Ion Ratio Lower Upper
95 100
174 64.4 0.0 132.6
176 62.2 0.0 128.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX036146.D
Acq: 13 Jun 2023 16:02

Tgt Ion: 117 Resp: 284714
Ion Ratio Lower Upper
117 100
82 60.0 46.6 69.8
119 32.5 25.4 38.2

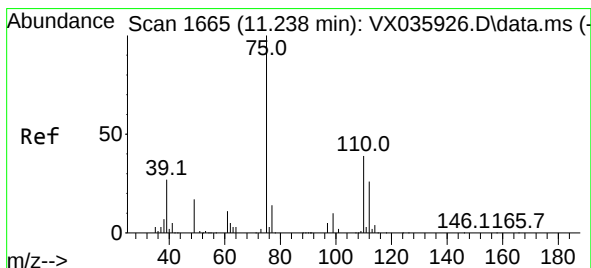
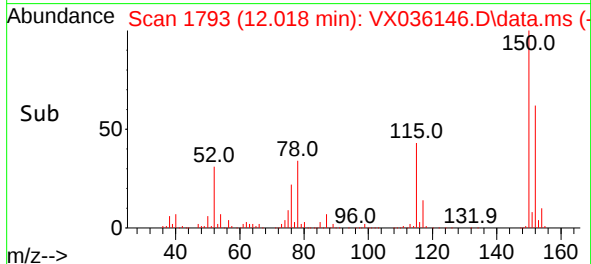
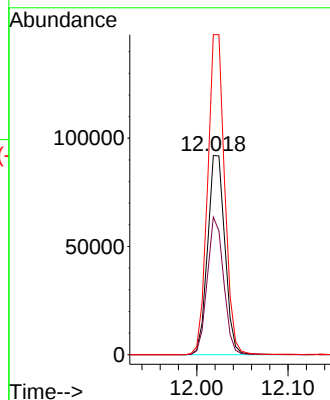
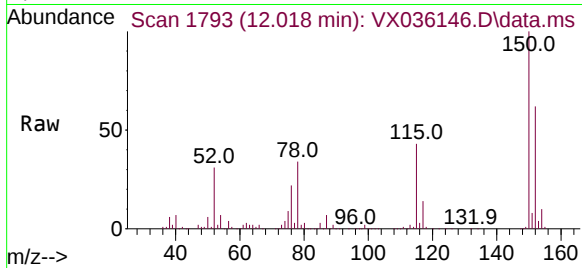




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.018 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: VX036146.D
 Acq: 13 Jun 2023 16:02

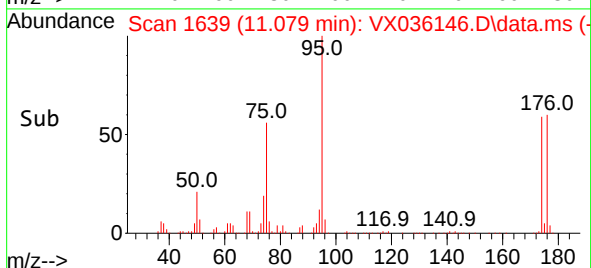
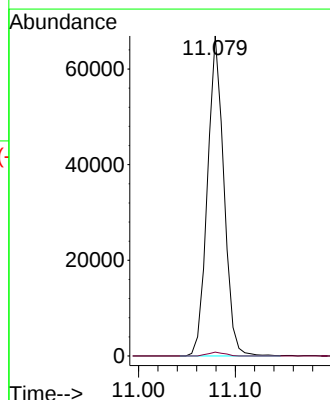
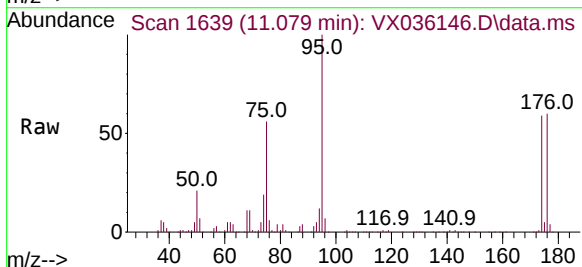
Instrument :
 MSVOA_X
 ClientSampleId :
 OW-06B-74-79-061223

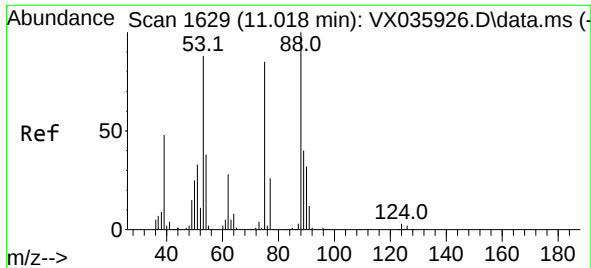
Tgt Ion:152 Resp: 120093
 Ion Ratio Lower Upper
 152 100
 115 65.6 45.5 136.5
 150 158.6 0.0 345.2



#76
 1,2,3-Trichloropropane
 Concen: 29.232 ug/l
 RT: 11.079 min Scan# 1639
 Delta R.T. -0.158 min
 Lab File: VX036146.D
 Acq: 13 Jun 2023 16:02

Tgt Ion: 75 Resp: 79178
 Ion Ratio Lower Upper
 75 100
 77 1.2 21.4 64.2#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 98.462 ug/l
 RT: 11.079 min Scan# 1
 Delta R.T. 0.061 min
 Lab File: VX036146.D
 Acq: 13 Jun 2023 16:02

Instrument :
 MSVOA_X
 ClientSampleId :
 OW-06B-74-79-061223

Tgt Ion: 75 Resp: 79178
 Ion Ratio Lower Upper
 75 100
 53 0.0 95.2 142.8#
 89 0.0 38.0 57.0#

