

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091522\
 Data File : VX031372.D
 Acq On : 15 Sep 2022 22:26
 Operator : JC/MD
 Sample : N4508-11
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BR-03-117-137-090222

Quant Time: Sep 16 04:59:29 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091422W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 15 01:50:07 2022
 Response via : Initial Calibration

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

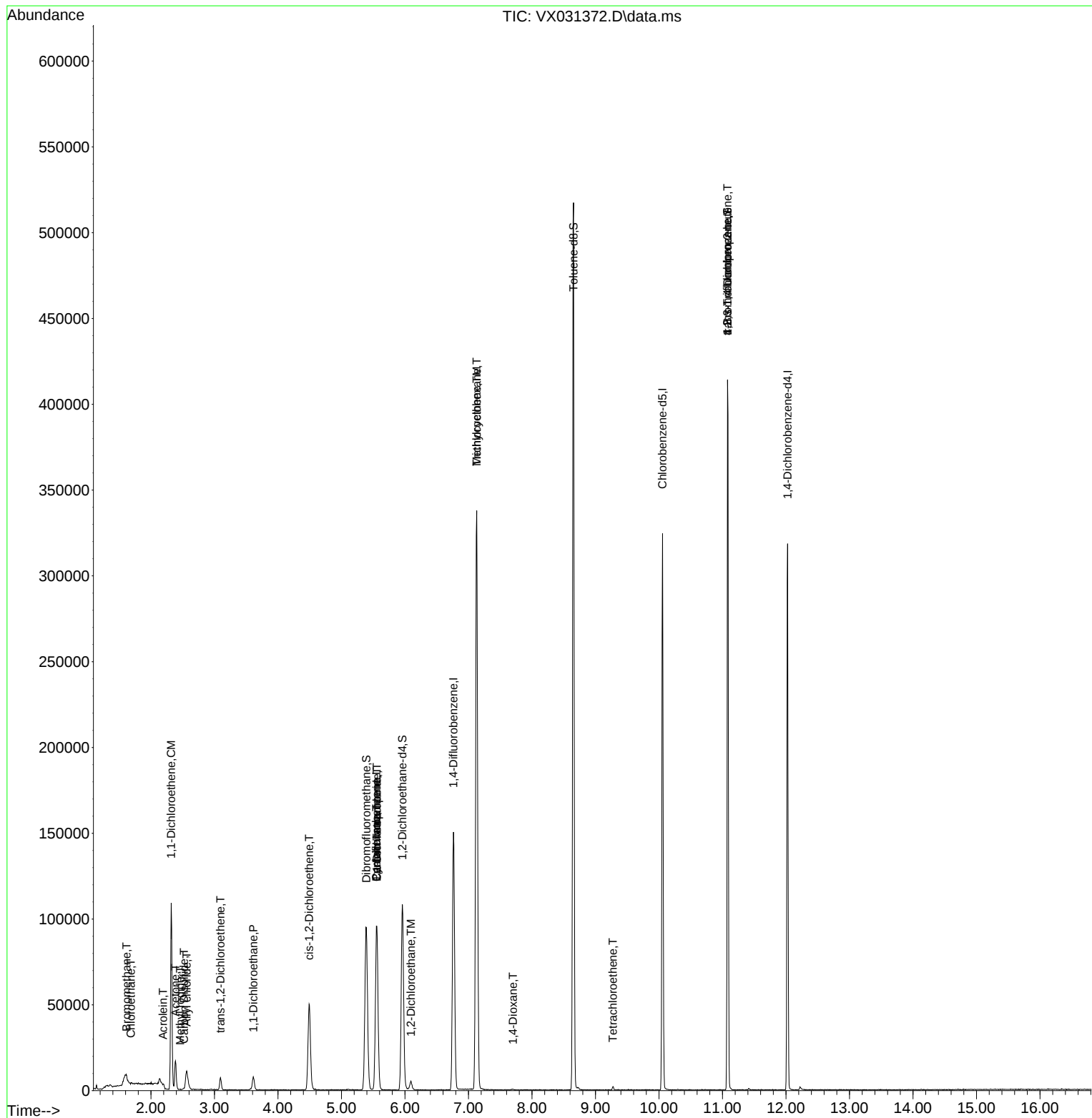
Internal Standards						
1) Pentafluorobenzene	5.550	168	91494	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.763	114	152020	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	135721	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	62036	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	97377	43.360	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	86.720%		
35) Dibromofluoromethane	5.391	113	79241	48.492	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	96.980%		
50) Toluene-d8	8.653	98	301829	49.240	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	98.480%		
62) 4-Bromofluorobenzene	11.079	95	96416	42.953	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	85.900%		
Target Compounds						
					Qvalue	
3) Chloromethane	1.288	50	74	Below Cal	#	41
5) Bromomethane	1.618	94	424	0.354	ug/l #	72
6) Chloroethane	1.685	64	561	0.464	ug/l #	78
10) Methyl Iodide	2.459	142	22	0.923	ug/l #	38
11) Tert butyl alcohol	2.965	59	71	Below Cal	#	73
12) 1,1-Dichloroethene	2.319	96	33605	26.307	ug/l	92
13) Acrolein	2.191	56	66	0.255	ug/l #	15
14) Allyl chloride	2.563	41	1890	0.670	ug/l #	75
16) Acetone	2.386	43	18945	19.761	ug/l	98
17) Carbon Disulfide	2.520	76	711	1.108	ug/l #	75
20) Methylene Chloride	2.788	84	187	Below Cal	#	67
21) trans-1,2-Dichloroethene	3.093	96	2818	0.517	ug/l	98
24) 1,1-Dichloroethane	3.611	63	7976	2.574	ug/l	96
27) cis-1,2-Dichloroethene	4.489	96	31529	16.757	ug/l	81
31) Cyclohexane	5.550	56	2208	0.915	ug/l #	28
36) 1,1-Dichloropropene	5.556	75	7410	3.313	ug/l #	47
38) Carbon Tetrachloride	5.556	117	8697	3.577	ug/l #	17
39) Methylcyclohexane	7.129	83	1694	0.688	ug/l #	1
42) 1,2-Dichloroethane	6.092	62	4997	1.929	ug/l	97
44) Trichloroethene	7.129	130	122973	75.095	ug/l	92
49) 1,4-Dioxane	7.702	88	396	8.646	ug/l #	86
64) Tetrachloroethene	9.275	164	333	0.268	ug/l #	81
76) 1,2,3-Trichloropropane	11.079	75	55253	35.344	ug/l #	36
81) trans-1,4-Dichloro-2-b...	11.079	75	55253	97.796	ug/l #	11

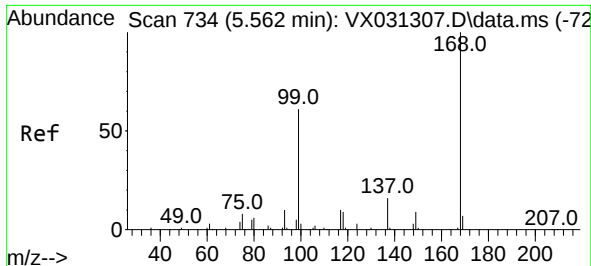
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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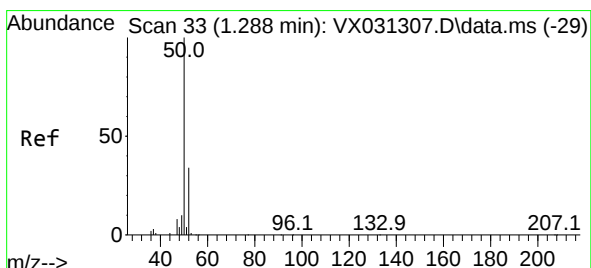
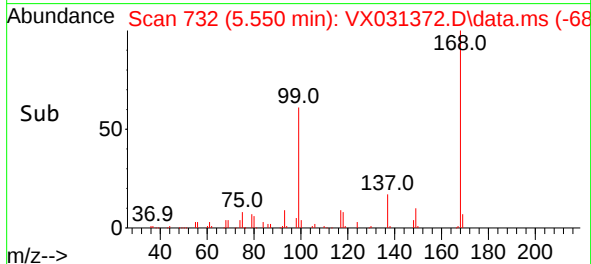
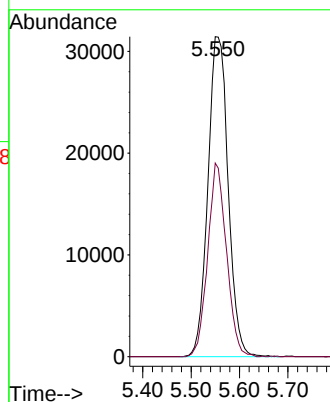
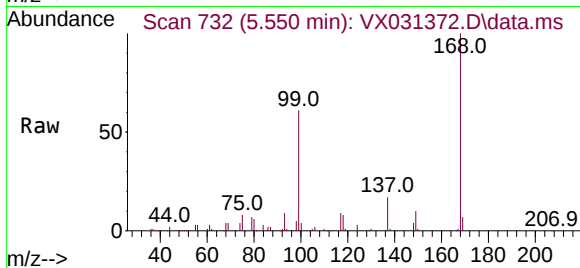




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.012 min
Lab File: VX031372.D
Acq: 15 Sep 2022 22:26

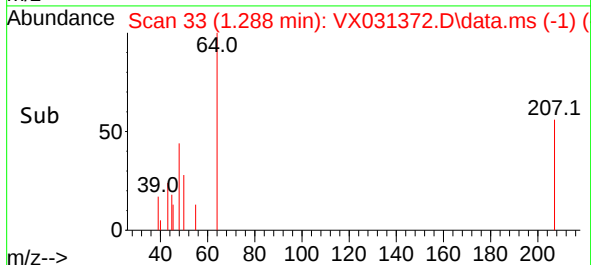
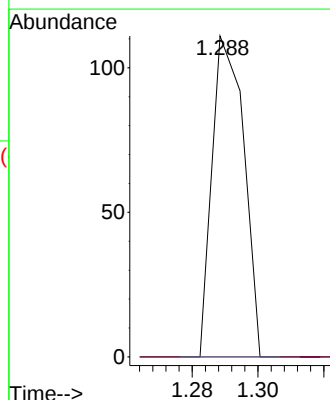
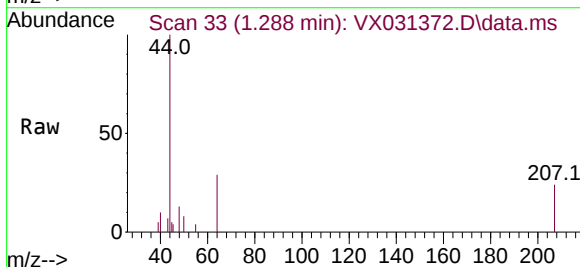
Instrument :
MSVOA_X
ClientSampleId :
BR-03-117-137-090222

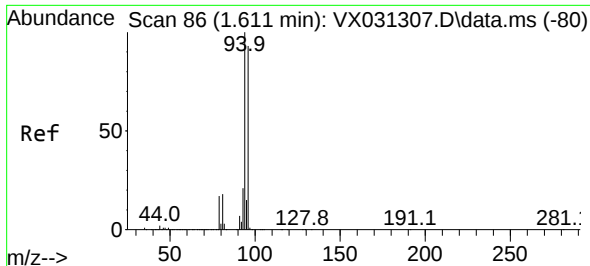
Tgt Ion:168 Resp: 91494
Ion Ratio Lower Upper
168 100
99 60.5 48.8 73.2



#3
Chloromethane
Concen: Below Cal
RT: 1.288 min Scan# 33
Delta R.T. 0.000 min
Lab File: VX031372.D
Acq: 15 Sep 2022 22:26

Tgt Ion: 50 Resp: 74
Ion Ratio Lower Upper
50 100
52 0.0 26.9 40.3#

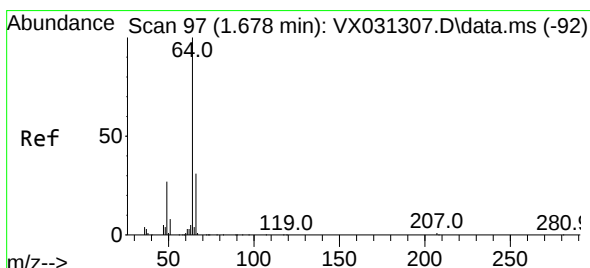
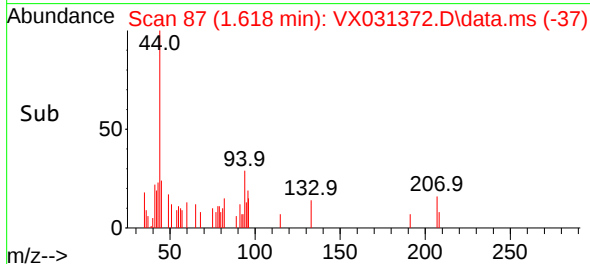
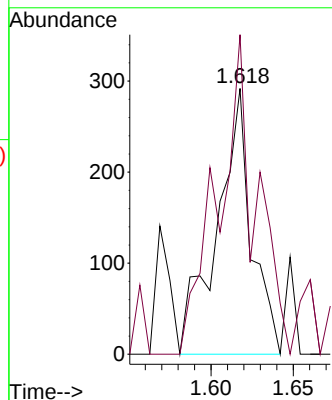
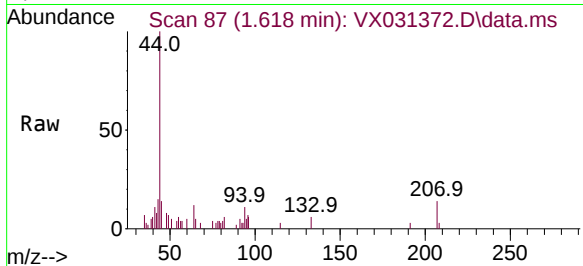




#5
Bromomethane
Concen: 0.354 ug/l
RT: 1.618 min Scan# 81
Delta R.T. 0.006 min
Lab File: VX031372.D
Acq: 15 Sep 2022 22:26

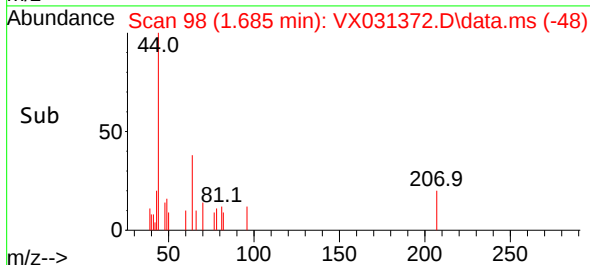
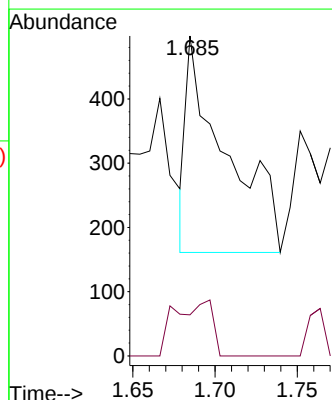
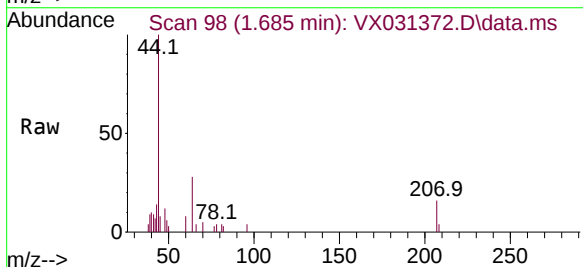
Instrument :
MSVOA_X
ClientSampleId :
BR-03-117-137-090222

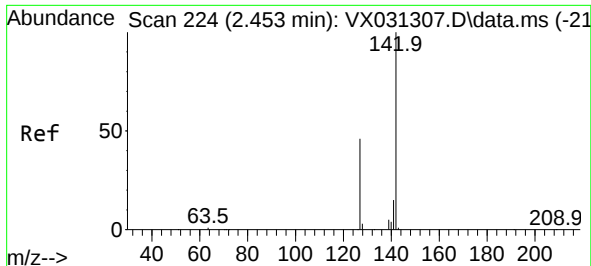
Tgt Ion: 94 Resp: 424
Ion Ratio Lower Upper
94 100
96 120.2 74.4 111.6#



#6
Chloroethane
Concen: 0.464 ug/l
RT: 1.685 min Scan# 98
Delta R.T. 0.007 min
Lab File: VX031372.D
Acq: 15 Sep 2022 22:26

Tgt Ion: 64 Resp: 561
Ion Ratio Lower Upper
64 100
66 19.0 25.0 37.4#





#10

Methyl Iodide

Concen: 0.923 ug/l

RT: 2.459 min Scan# 21

Delta R.T. 0.006 min

Lab File: VX031372.D

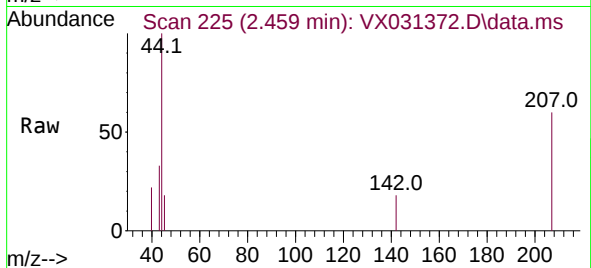
Acq: 15 Sep 2022 22:26

Instrument :

MSVOA_X

ClientSampleId :

BR-03-117-137-090222



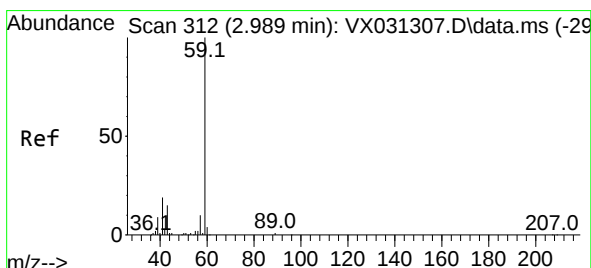
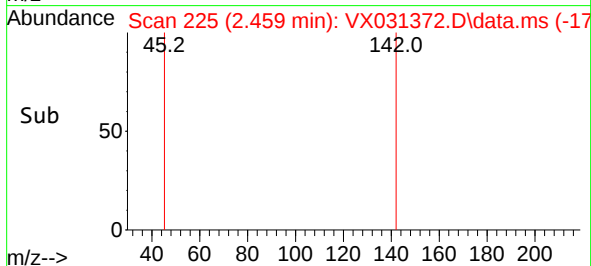
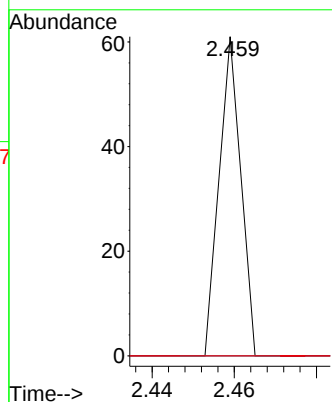
Tgt Ion:142 Resp: 22

Ion Ratio Lower Upper

142 100

127 0.0 37.4 56.0#

141 0.0 11.6 17.4#



#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.965 min Scan# 308

Delta R.T. -0.024 min

Lab File: VX031372.D

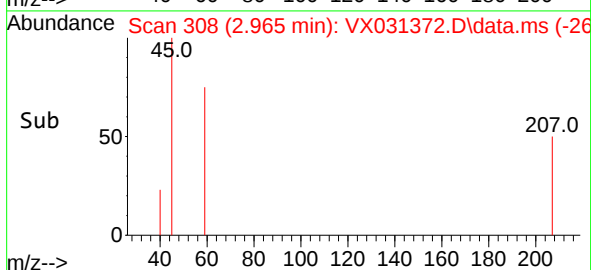
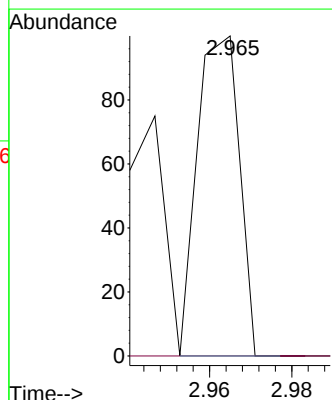
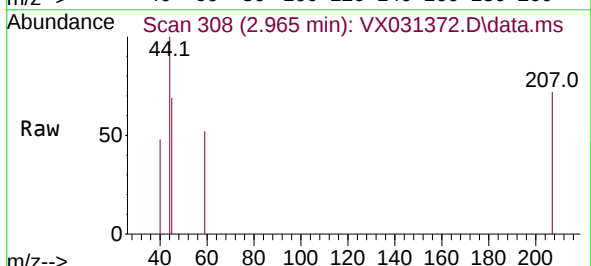
Acq: 15 Sep 2022 22:26

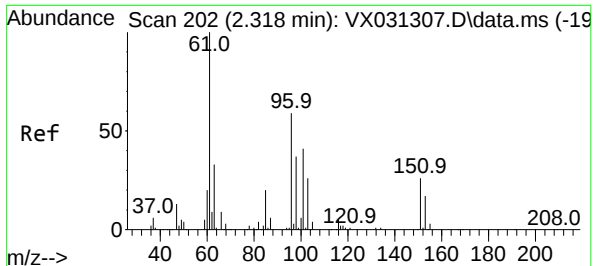
Tgt Ion: 59 Resp: 71

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.2#





#12

1,1-Dichloroethene

Concen: 26.307 ug/l

RT: 2.319 min Scan# 20

Delta R.T. 0.000 min

Lab File: VX031372.D

Acq: 15 Sep 2022 22:26

Instrument :

MSVOA_X

ClientSampleId :

BR-03-117-137-090222

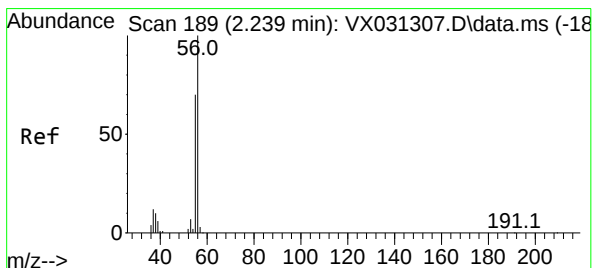
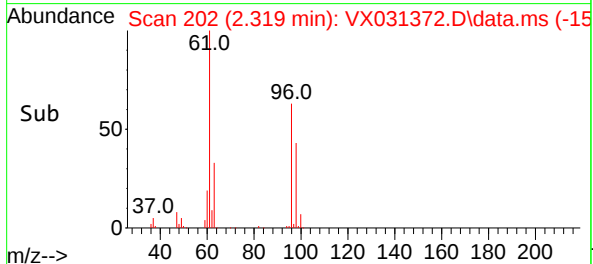
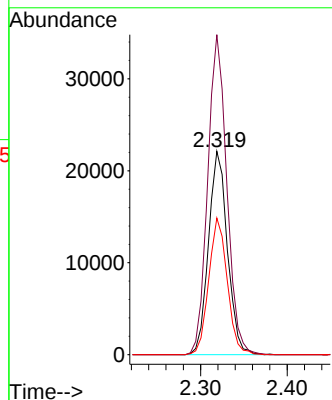
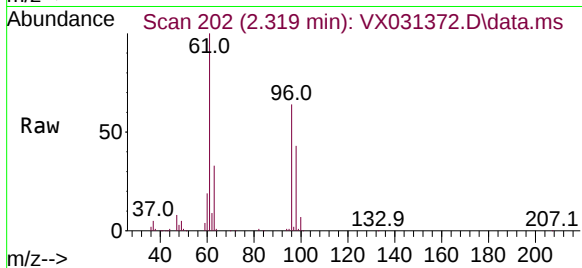
Tgt Ion: 96 Resp: 33605

Ion Ratio Lower Upper

96 100

61 157.4 135.3 202.9

98 67.2 49.4 74.2



#13

Acrolein

Concen: 0.255 ug/l

RT: 2.191 min Scan# 181

Delta R.T. -0.048 min

Lab File: VX031372.D

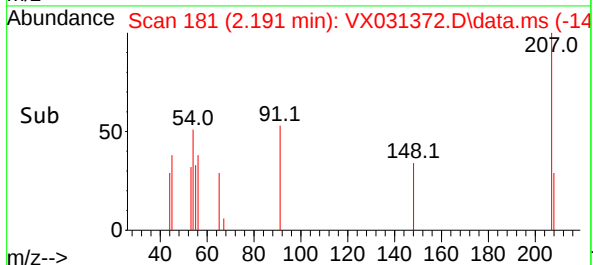
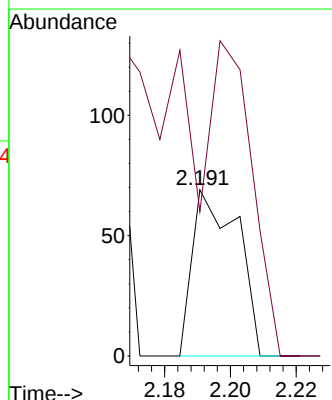
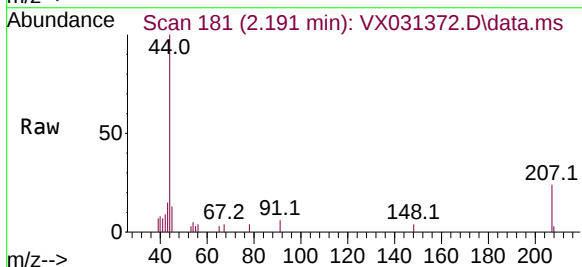
Acq: 15 Sep 2022 22:26

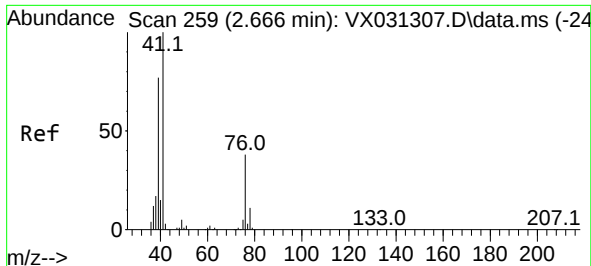
Tgt Ion: 56 Resp: 66

Ion Ratio Lower Upper

56 100

55 0.0 56.0 84.0#

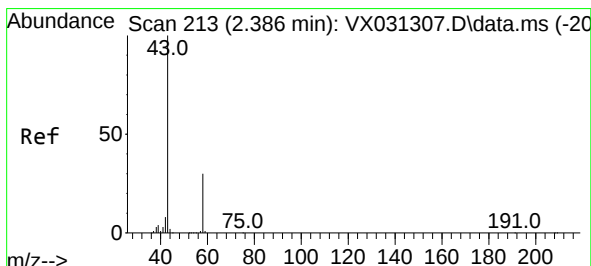
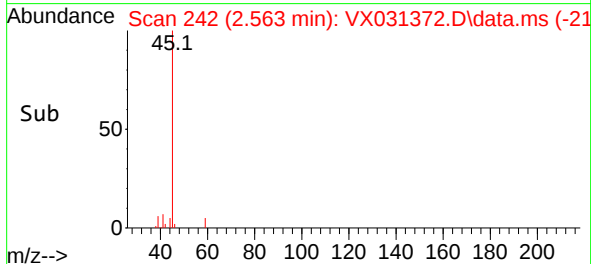
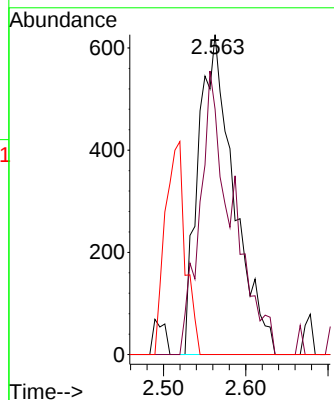
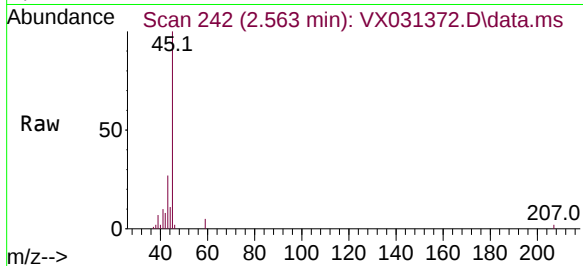




#14
 Allyl chloride
 Concen: 0.670 ug/l
 RT: 2.563 min Scan# 24
 Delta R.T. -0.103 min
 Lab File: VX031372.D
 Acq: 15 Sep 2022 22:26

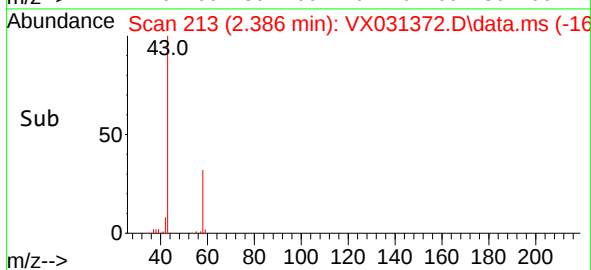
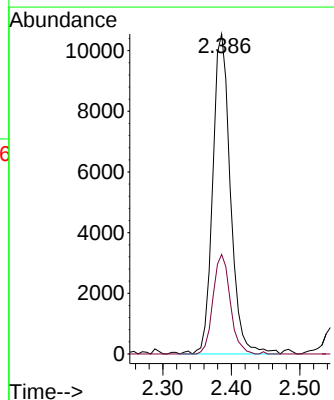
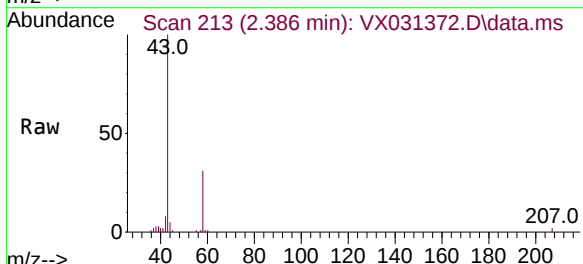
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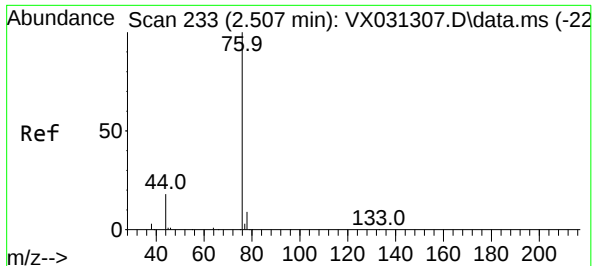
Tgt Ion: 41 Resp: 1890
 Ion Ratio Lower Upper
 41 100
 39 81.1 58.2 87.4
 76 0.0 26.9 40.3#



#16
 Acetone
 Concen: 19.761 ug/l
 RT: 2.386 min Scan# 213
 Delta R.T. 0.000 min
 Lab File: VX031372.D
 Acq: 15 Sep 2022 22:26

Tgt Ion: 43 Resp: 18945
 Ion Ratio Lower Upper
 43 100
 58 31.1 23.8 35.8





#17

Carbon Disulfide

Concen: 1.108 ug/l

RT: 2.520 min Scan# 21

Delta R.T. 0.013 min

Lab File: VX031372.D

Acq: 15 Sep 2022 22:26

Instrument :

MSVOA_X

ClientSampleId :

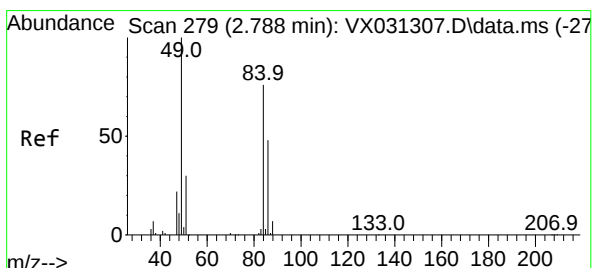
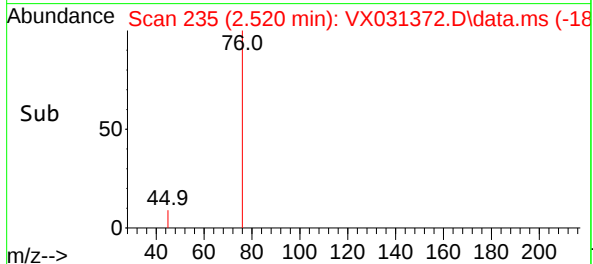
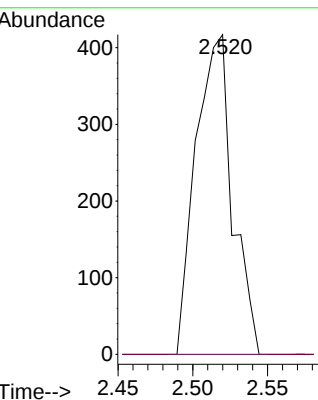
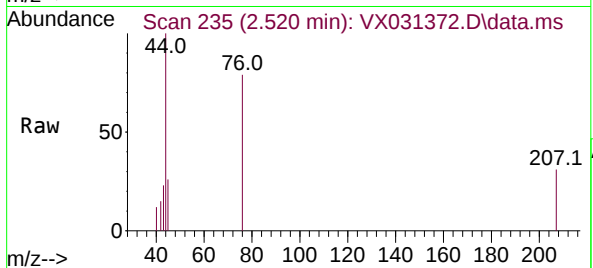
BR-03-117-137-090222

Tgt Ion: 76 Resp: 711

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#



#20

Methylene Chloride

Concen: Below Cal

RT: 2.788 min Scan# 279

Delta R.T. 0.000 min

Lab File: VX031372.D

Acq: 15 Sep 2022 22:26

Tgt Ion: 84 Resp: 187

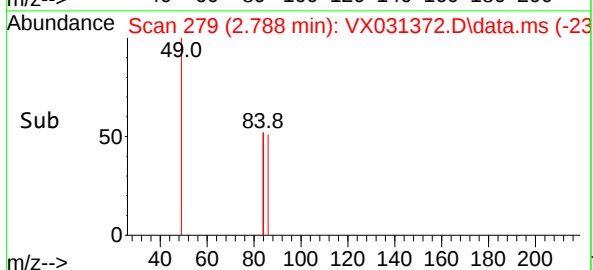
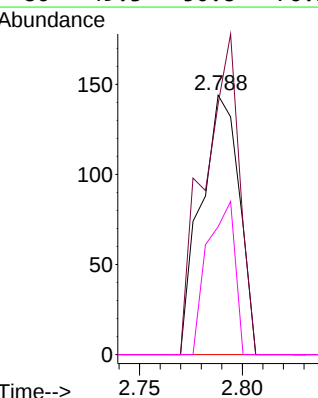
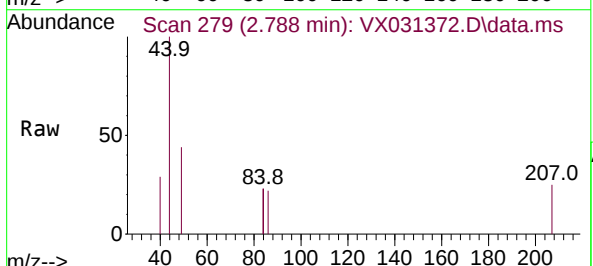
Ion Ratio Lower Upper

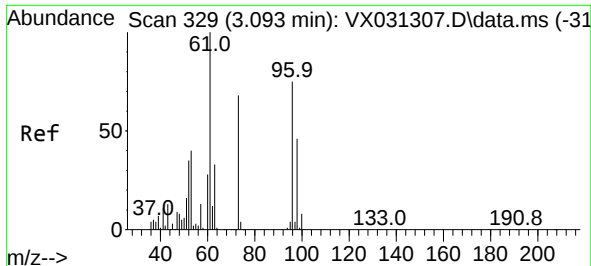
84 100

49 96.5 105.9 158.9#

51 0.0 32.2 48.2#

86 49.3 50.8 76.2#

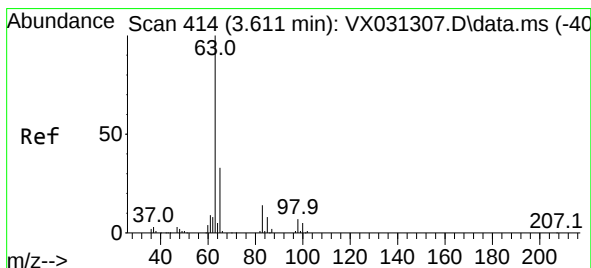
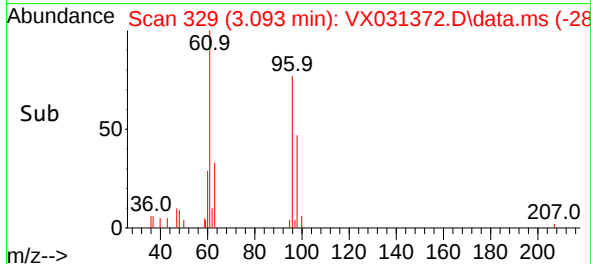
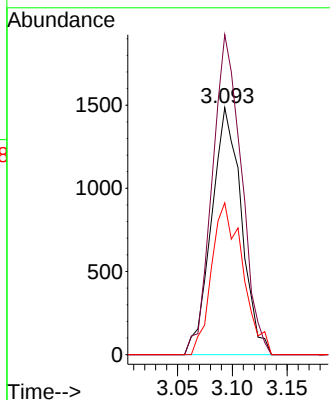
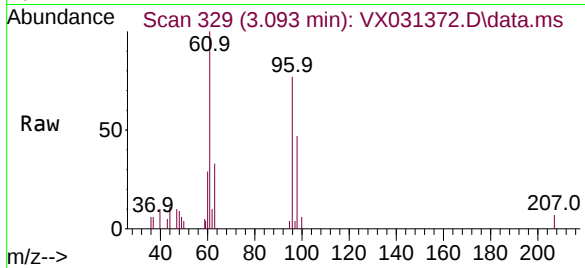




#21
trans-1,2-Dichloroethene
Concen: 0.517 ug/l
RT: 3.093 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX031372.D
Acq: 15 Sep 2022 22:26

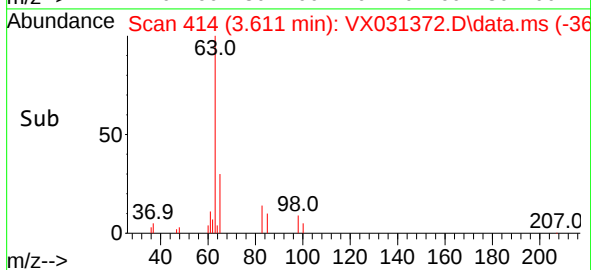
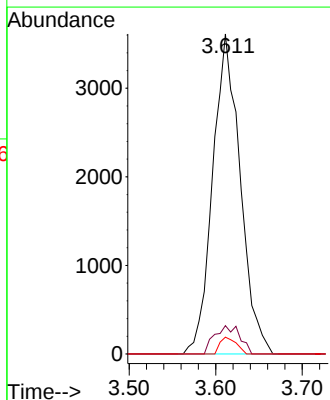
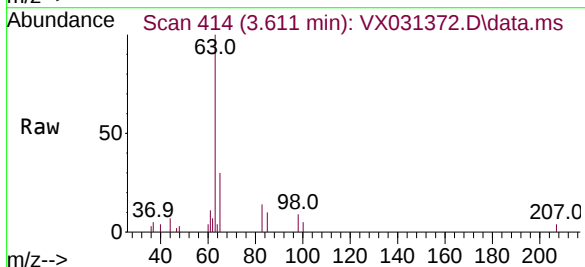
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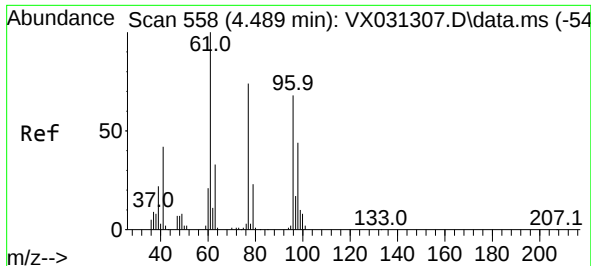
Tgt Ion: 96 Resp: 2818
Ion Ratio Lower Upper
96 100
61 129.6 106.7 160.1
98 61.5 48.7 73.1



#24
1,1-Dichloroethane
Concen: 2.574 ug/l
RT: 3.611 min Scan# 414
Delta R.T. 0.000 min
Lab File: VX031372.D
Acq: 15 Sep 2022 22:26

Tgt Ion: 63 Resp: 7976
Ion Ratio Lower Upper
63 100
98 8.9 3.5 10.4
100 5.3 2.4 7.2





#27

cis-1,2-Dichloroethene

Concen: 16.757 ug/l

RT: 4.489 min Scan# 51

Delta R.T. 0.000 min

Lab File: VX031372.D

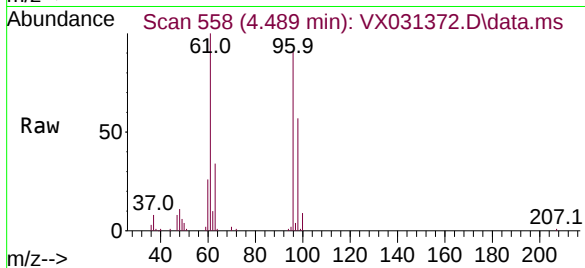
Acq: 15 Sep 2022 22:26

Instrument :

MSVOA_X

ClientSampleId :

BR-03-117-137-090222



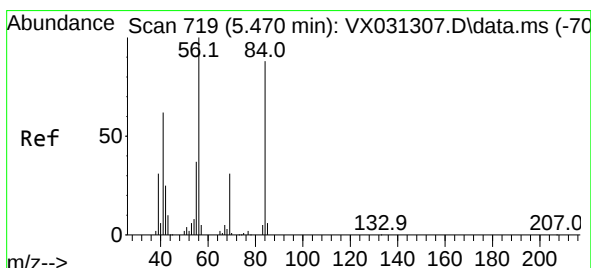
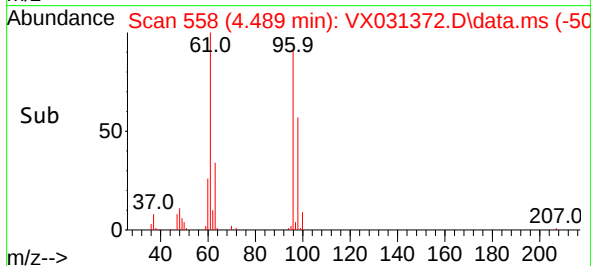
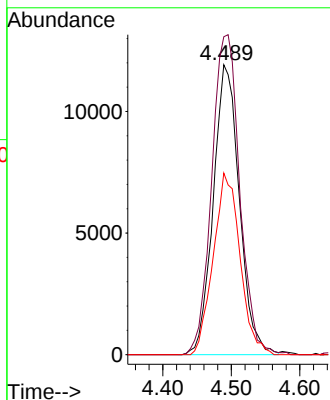
Tgt Ion: 96 Resp: 31529

Ion Ratio Lower Upper

96 100

61 118.3 0.0 305.2

98 64.1 0.0 128.4



#31

Cyclohexane

Concen: 0.915 ug/l

RT: 5.550 min Scan# 732

Delta R.T. 0.079 min

Lab File: VX031372.D

Acq: 15 Sep 2022 22:26

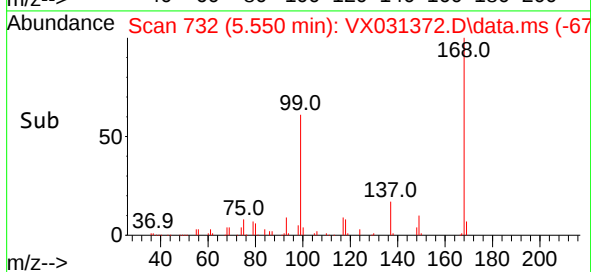
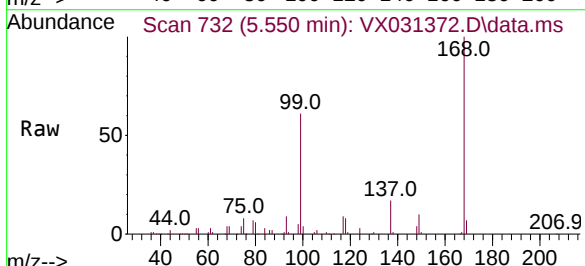
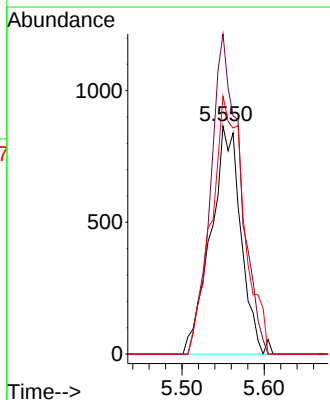
Tgt Ion: 56 Resp: 2208

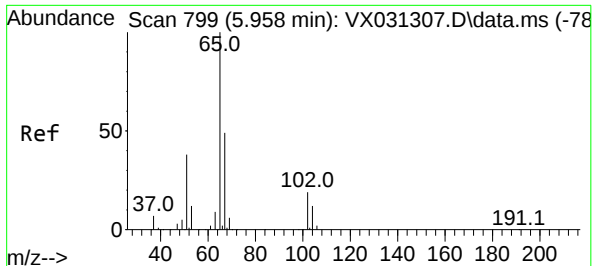
Ion Ratio Lower Upper

56 100

69 140.5 25.1 37.7#

84 113.2 70.2 105.4#





#33

1,2-Dichloroethane-d4

Concen: 43.360 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.000 min

Lab File: VX031372.D

Acq: 15 Sep 2022 22:26

Instrument :

MSVOA_X

ClientSampleId :

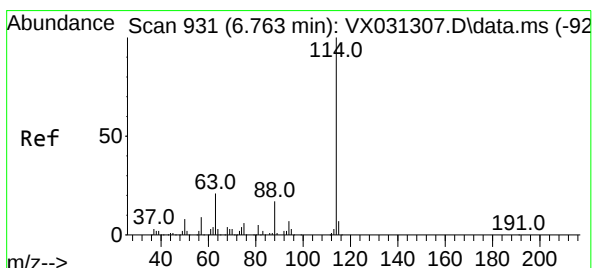
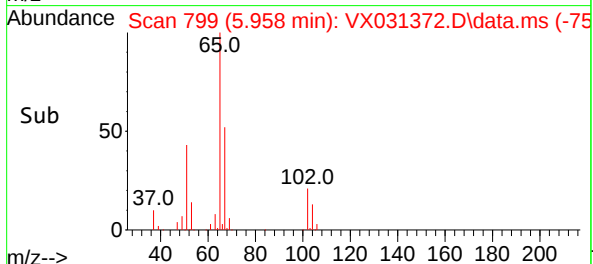
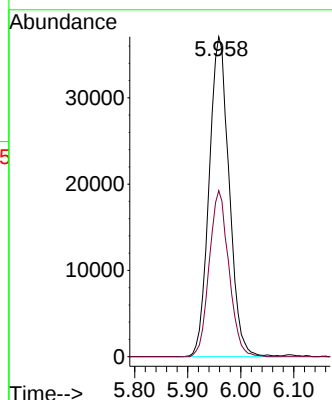
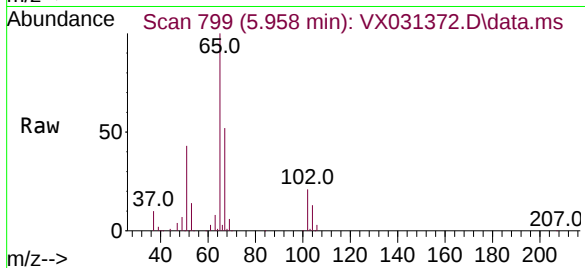
BR-03-117-137-090222

Tgt Ion: 65 Resp: 97377

Ion Ratio Lower Upper

65 100

67 50.8 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: VX031372.D

Acq: 15 Sep 2022 22:26

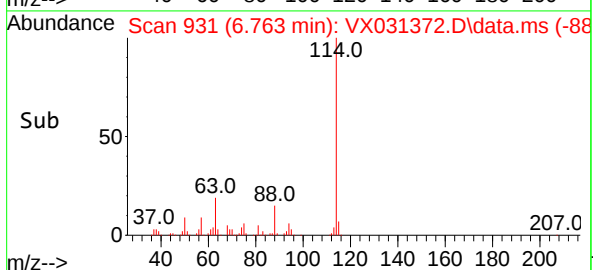
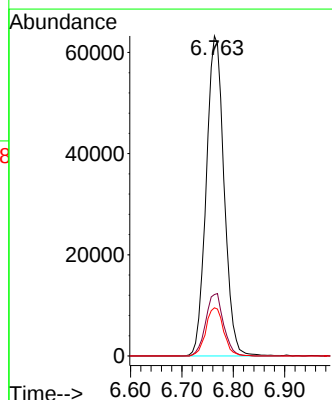
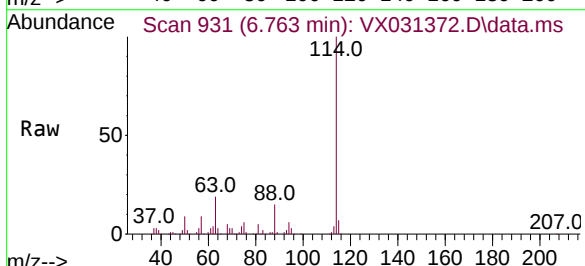
Tgt Ion: 114 Resp: 152020

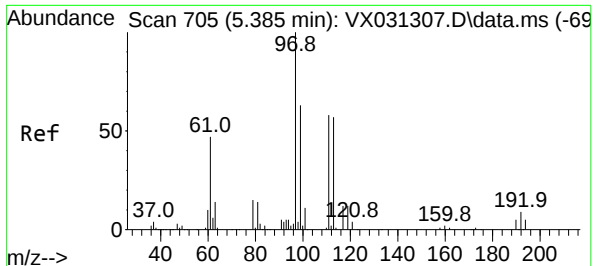
Ion Ratio Lower Upper

114 100

63 19.2 0.0 42.6

88 15.0 0.0 33.0





#35

Dibromofluoromethane

Concen: 48.492 ug/l

RT: 5.391 min Scan# 705

Delta R.T. 0.006 min

Lab File: VX031372.D

Acq: 15 Sep 2022 22:26

Instrument :

MSVOA_X

ClientSampleId :

BR-03-117-137-090222

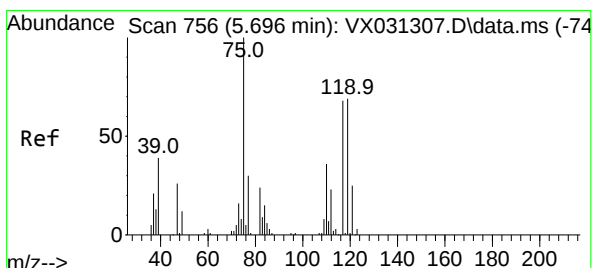
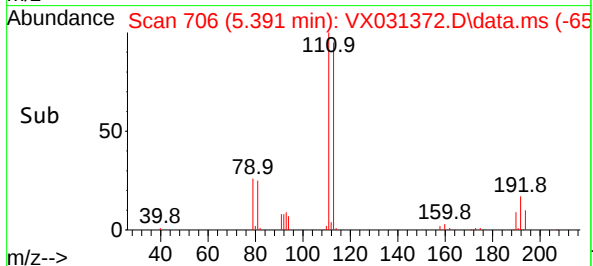
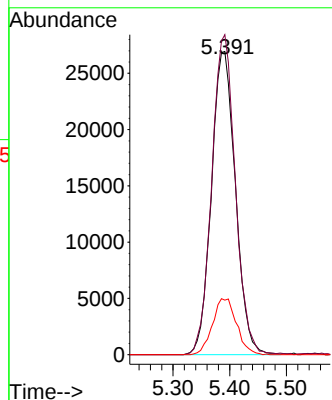
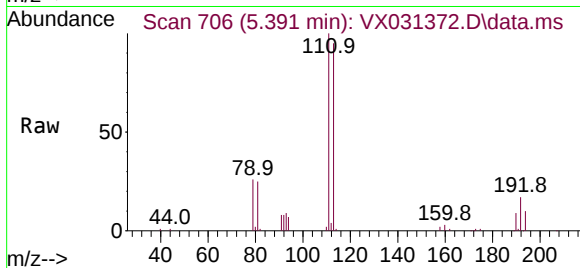
Tgt Ion:113 Resp: 79241

Ion Ratio Lower Upper

113 100

111 103.5 82.4 123.6

192 18.5 14.1 21.1



#36

1,1-Dichloropropene

Concen: 3.313 ug/l

RT: 5.556 min Scan# 733

Delta R.T. -0.140 min

Lab File: VX031372.D

Acq: 15 Sep 2022 22:26

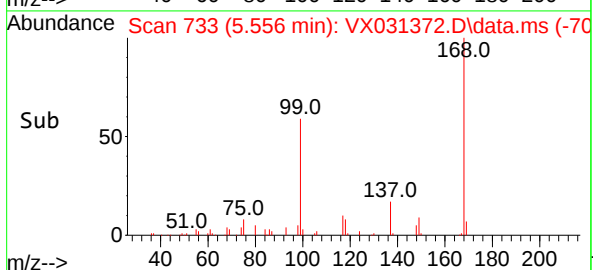
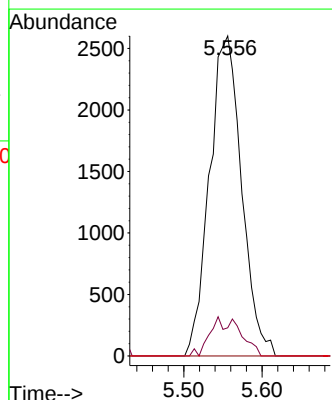
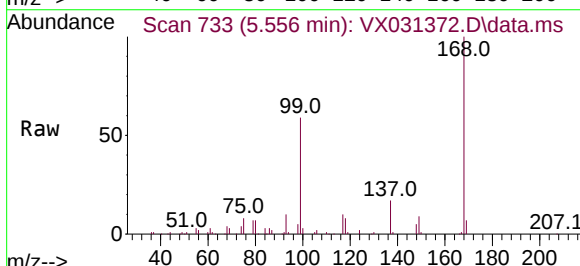
Tgt Ion: 75 Resp: 7410

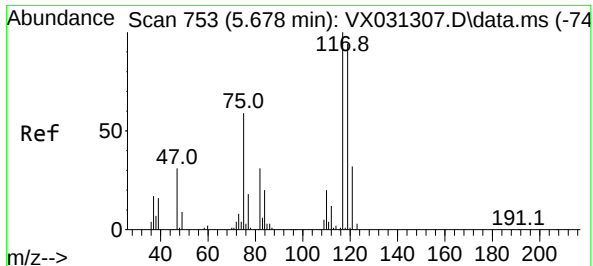
Ion Ratio Lower Upper

75 100

110 6.5 17.5 52.5#

77 0.0 24.9 37.3#

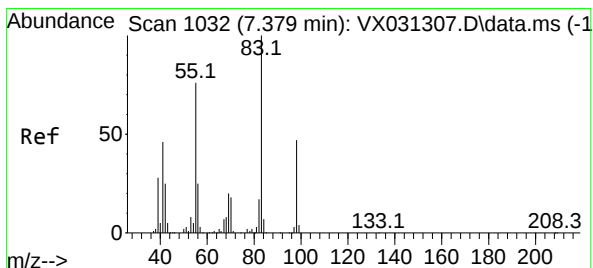
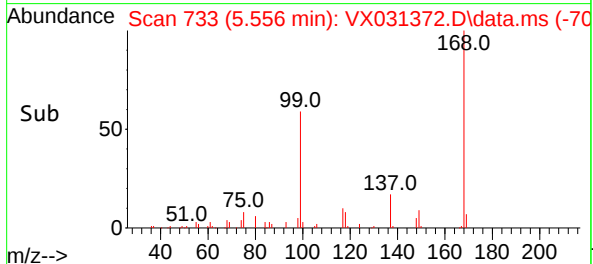
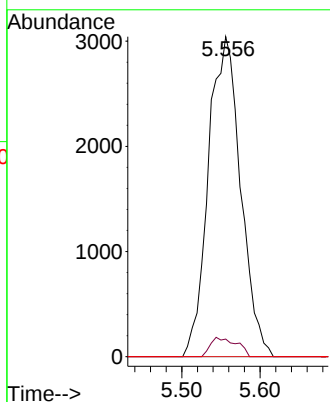
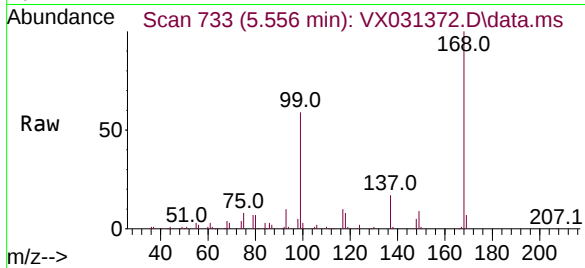




#38
Carbon Tetrachloride
Concen: 3.577 ug/l
RT: 5.556 min Scan# 711
Delta R.T. -0.122 min
Lab File: VX031372.D
Acq: 15 Sep 2022 22:26

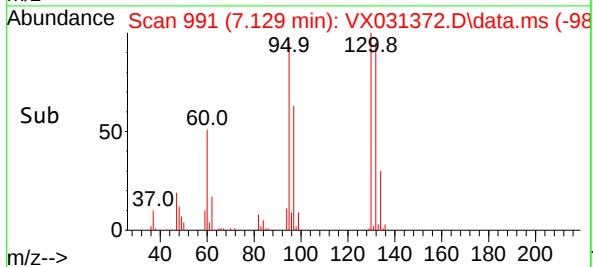
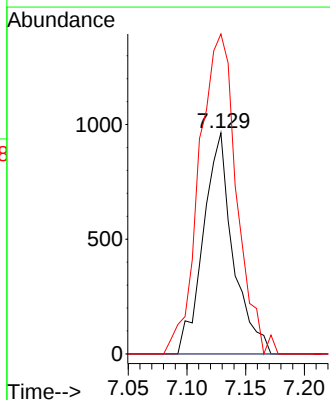
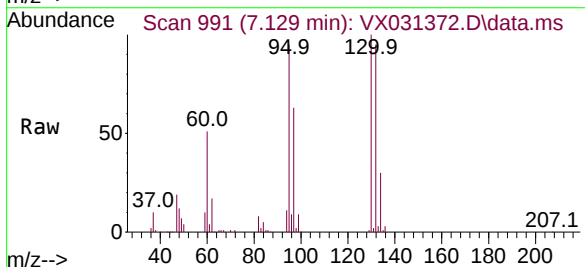
Instrument :
MSVOA_X
ClientSampleId :
BR-03-117-137-090222

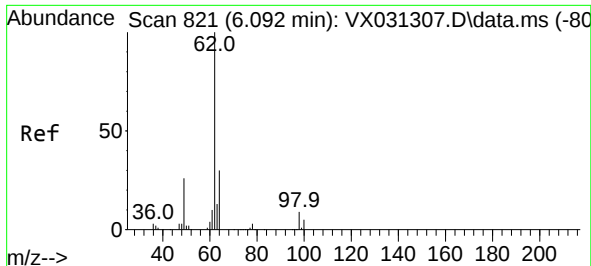
Tgt Ion:117 Resp: 8697
Ion Ratio Lower Upper
117 100
119 5.5 74.6 112.0#
121 0.0 25.3 37.9#



#39
Methylcyclohexane
Concen: 0.688 ug/l
RT: 7.129 min Scan# 991
Delta R.T. -0.250 min
Lab File: VX031372.D
Acq: 15 Sep 2022 22:26

Tgt Ion: 83 Resp: 1694
Ion Ratio Lower Upper
83 100
55 0.0 61.0 91.4#
98 144.7 37.7 56.5#





#42

1,2-Dichloroethane

Concen: 1.929 ug/l

RT: 6.092 min Scan# 821

Delta R.T. 0.000 min

Lab File: VX031372.D

Acq: 15 Sep 2022 22:26

Instrument :

MSVOA_X

ClientSampleId :

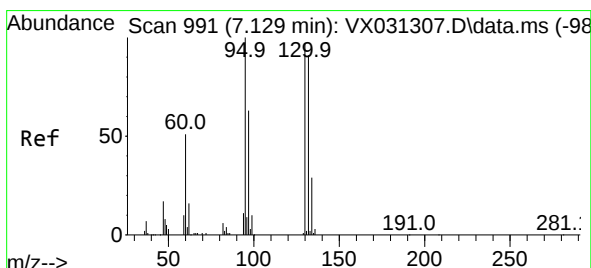
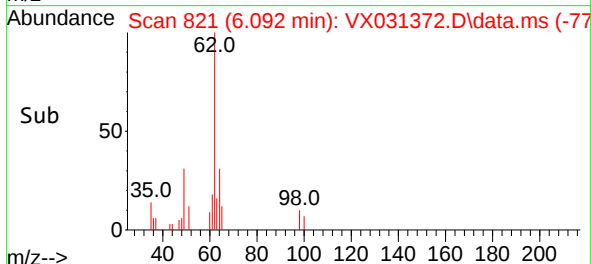
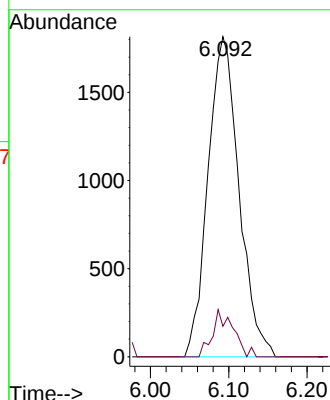
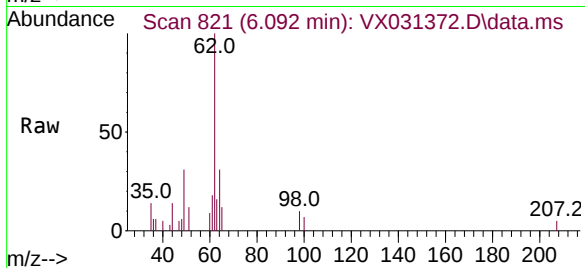
BR-03-117-137-090222

Tgt Ion: 62 Resp: 4997

Ion Ratio Lower Upper

62 100

98 9.9 0.0 17.8



#44

Trichloroethene

Concen: 75.095 ug/l

RT: 7.129 min Scan# 991

Delta R.T. 0.000 min

Lab File: VX031372.D

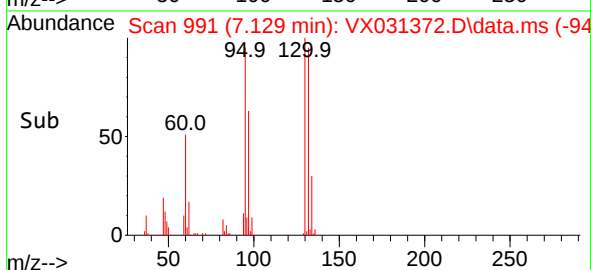
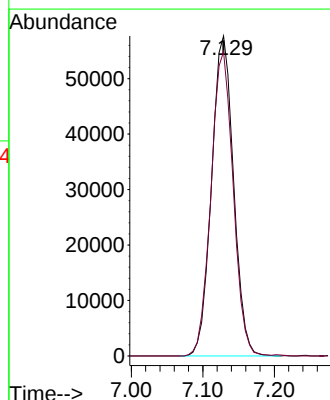
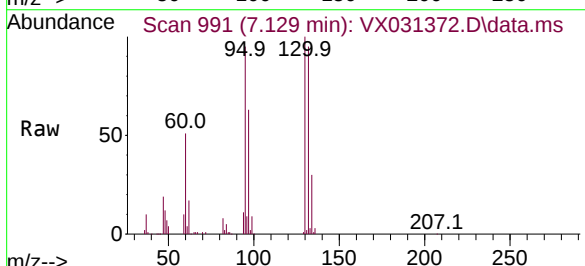
Acq: 15 Sep 2022 22:26

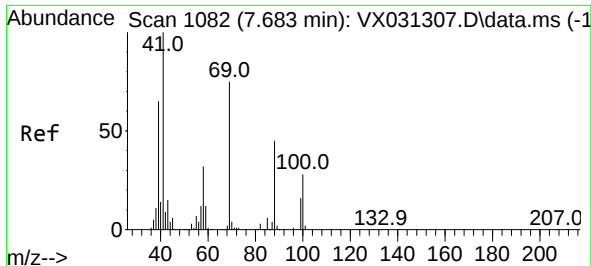
Tgt Ion:130 Resp: 122973

Ion Ratio Lower Upper

130 100

95 95.1 0.0 206.8





#49

1,4-Dioxane

Concen: 8.646 ug/l

RT: 7.702 min Scan# 1085

Delta R.T. 0.019 min

Lab File: VX031372.D

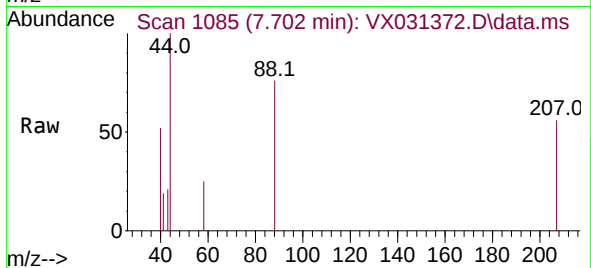
Acq: 15 Sep 2022 22:26

Instrument :

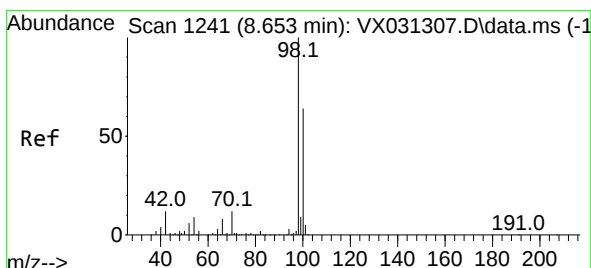
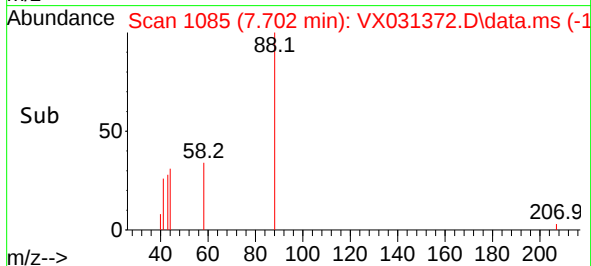
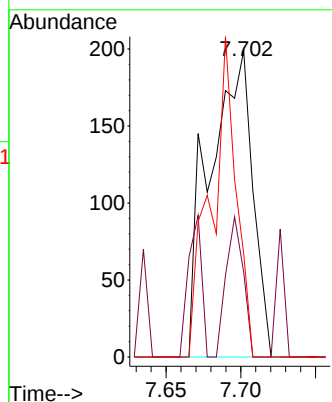
MSVOA_X

ClientSampleId :

BR-03-117-137-090222



Tgt Ion:	88	Resp:	396
Ion	Ratio	Lower	Upper
88	100		
43	18.4	27.1	40.7#
58	61.4	53.9	80.9



#50

Toluene-d8

Concen: 49.240 ug/l

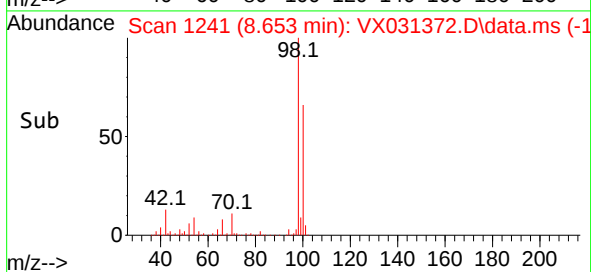
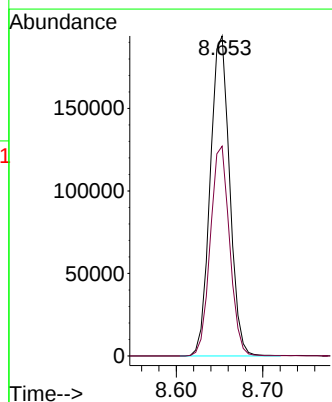
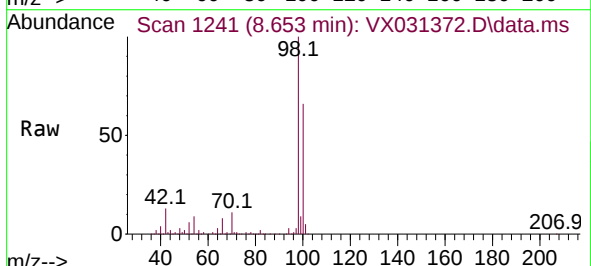
RT: 8.653 min Scan# 1241

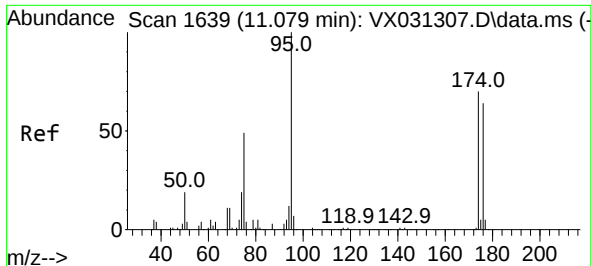
Delta R.T. 0.000 min

Lab File: VX031372.D

Acq: 15 Sep 2022 22:26

Tgt Ion:	98	Resp:	301829
Ion	Ratio	Lower	Upper
98	100		
100	65.0	52.5	78.7

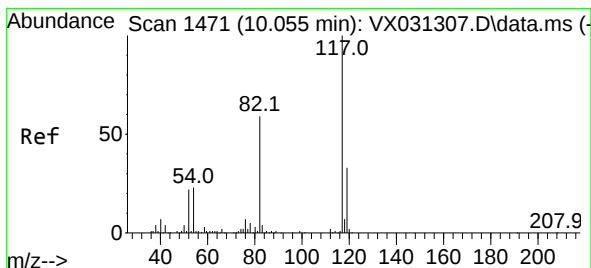
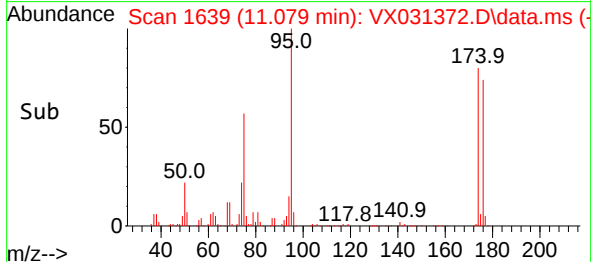
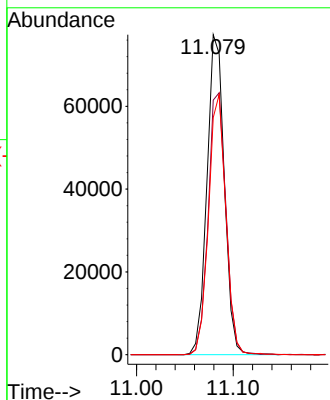
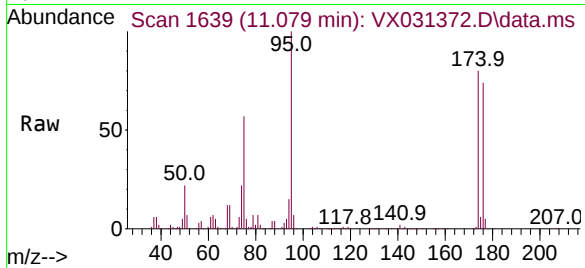




#62
4-Bromofluorobenzene
Concen: 42.953 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX031372.D
Acq: 15 Sep 2022 22:26

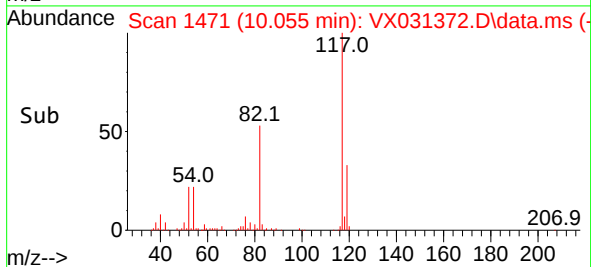
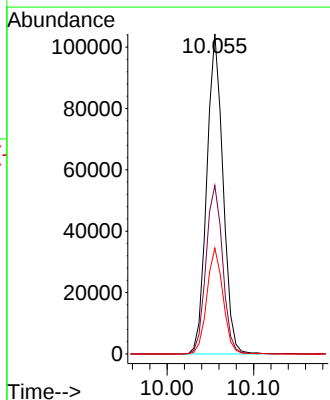
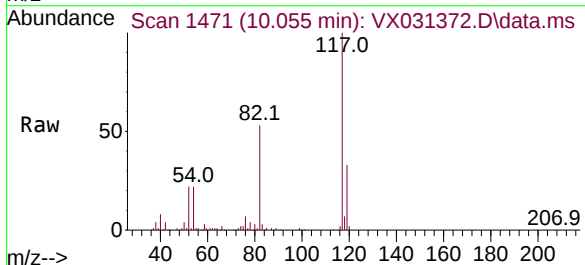
Instrument :
MSVOA_X
ClientSampleId :
BR-03-117-137-090222

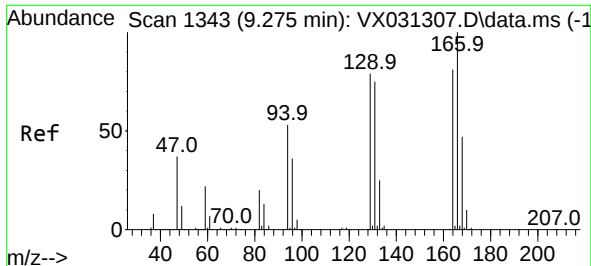
Tgt Ion: 95 Resp: 96416
Ion Ratio Lower Upper
95 100
174 84.0 0.0 153.2
176 81.4 0.0 144.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX031372.D
Acq: 15 Sep 2022 22:26

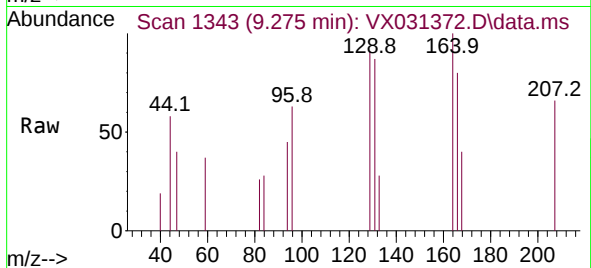
Tgt Ion: 117 Resp: 135721
Ion Ratio Lower Upper
117 100
82 52.6 46.8 70.2
119 33.1 26.4 39.6



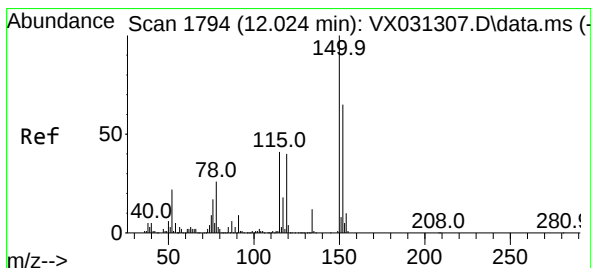
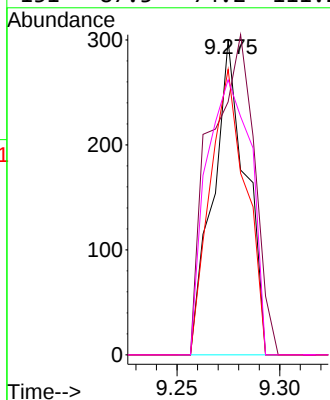
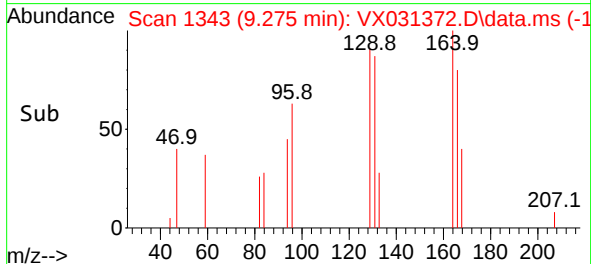


#64
Tetrachloroethene
Concen: 0.268 ug/l
RT: 9.275 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX031372.D
Acq: 15 Sep 2022 22:26

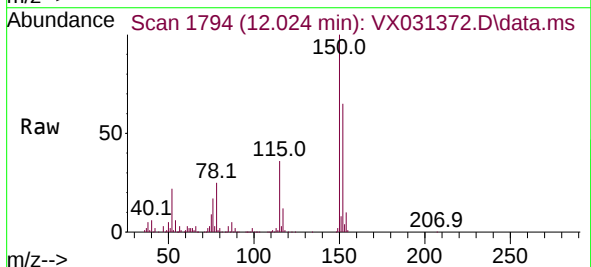
Instrument :
MSVOA_X
ClientSampleId :
BR-03-117-137-090222



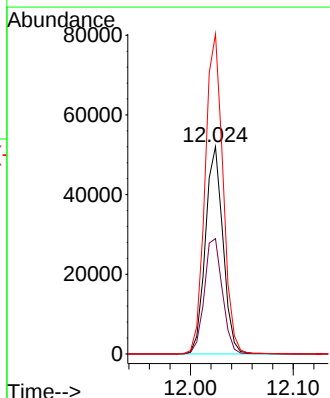
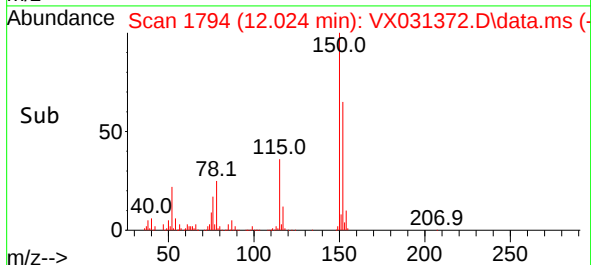
Tgt Ion:164 Resp: 333
Ion Ratio Lower Upper
164 100
166 80.3 99.0 148.4#
129 90.7 78.0 117.0
131 87.3 74.2 111.2

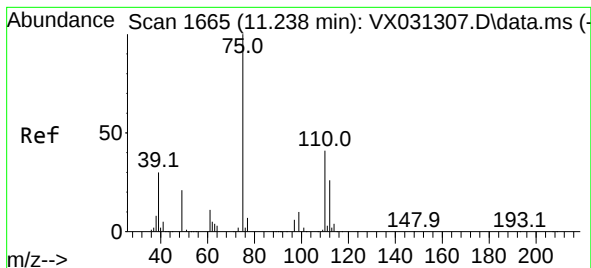


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX031372.D
Acq: 15 Sep 2022 22:26



Tgt Ion:152 Resp: 62036
Ion Ratio Lower Upper
152 100
115 57.3 43.4 130.1
150 157.1 0.0 346.8





#76

1,2,3-Trichloropropane

Concen: 35.344 ug/l

RT: 11.079 min Scan# 1

Delta R.T. -0.158 min

Lab File: VX031372.D

Acq: 15 Sep 2022 22:26

Instrument :

MSVOA_X

ClientSampleId :

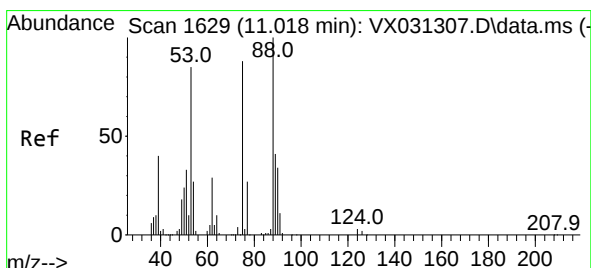
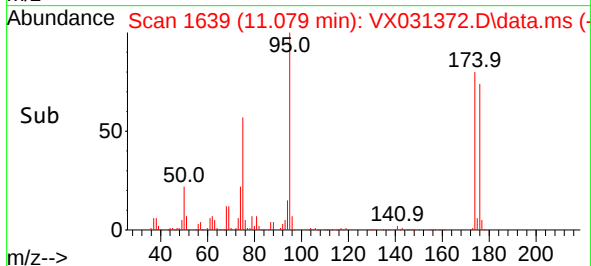
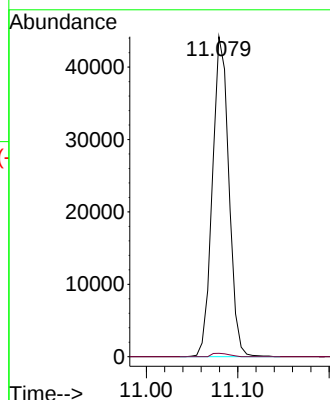
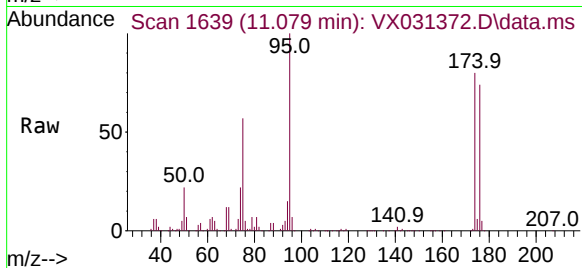
BR-03-117-137-090222

Tgt Ion: 75 Resp: 55253

Ion Ratio Lower Upper

75 100

77 1.1 20.3 60.9#



#81

trans-1,4-Dichloro-2-butene

Concen: 97.796 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX031372.D

Acq: 15 Sep 2022 22:26

Tgt Ion: 75 Resp: 55253

Ion Ratio Lower Upper

75 100

53 0.0 77.6 116.4#

89 0.0 37.4 56.0#

