

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU052623\
 Data File : VU054281.D
 Acq On : 26 May 2023 13:28
 Operator : JC/MD
 Sample : 02936-04 50X
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BRP2-20230523

Quant Time: May 30 00:00:53 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U052523W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 26 06:40:51 2023
 Response via : Initial Calibration

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

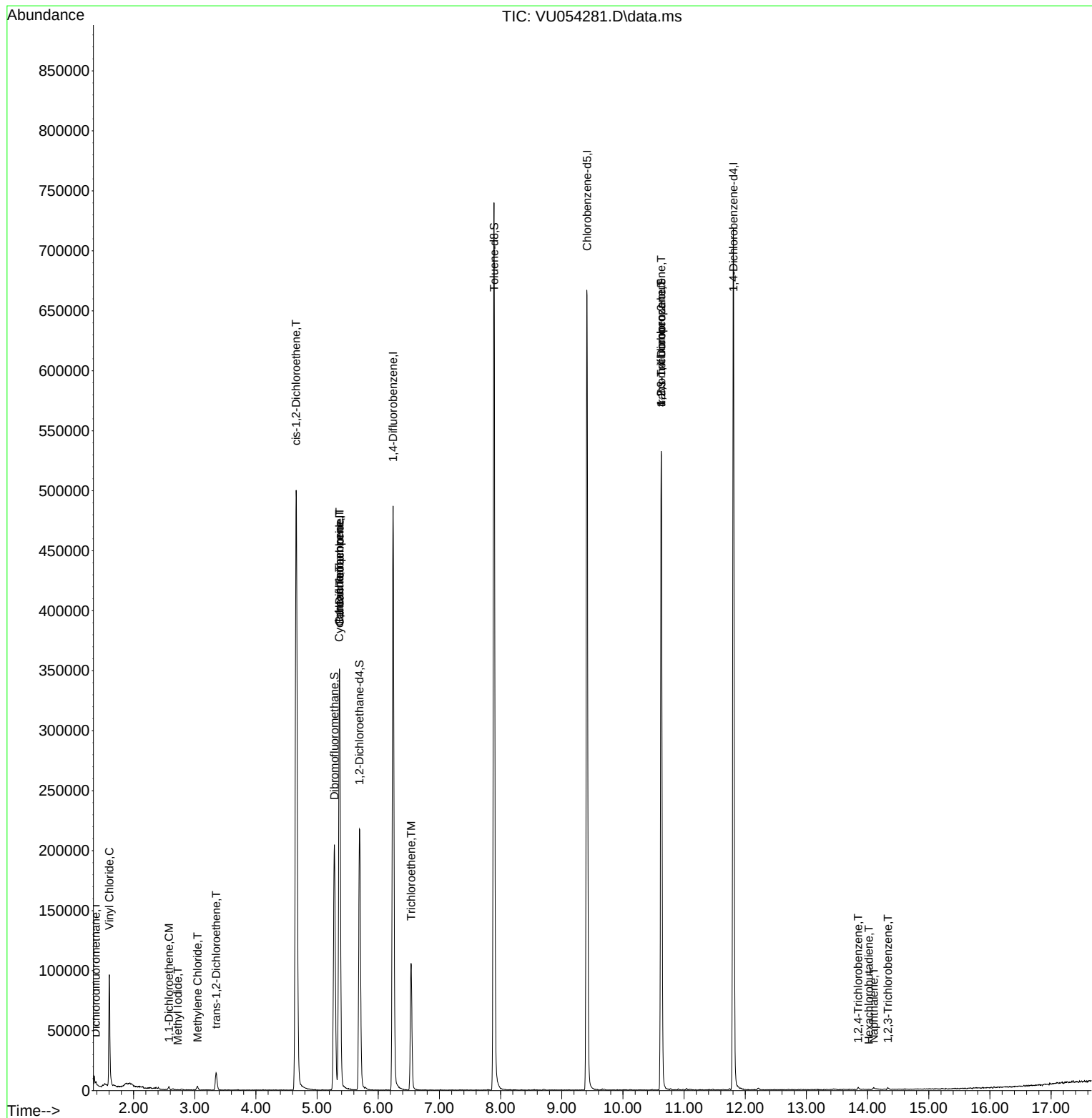
Internal Standards						
1) Pentafluorobenzene	5.366	168	256781	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.243	114	408465	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.414	117	388257	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.806	152	193941	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.694	65	164257	48.797	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	97.600%		
35) Dibromofluoromethane	5.282	113	133872	50.894	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	101.780%		
50) Toluene-d8	7.893	98	497551	49.729	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	99.460%		
62) 4-Bromofluorobenzene	10.626	95	181017	46.660	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	93.320%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.382	85	1874	0.654	ug/l	96
4) Vinyl Chloride	1.604	62	72481	20.239	ug/l	99
10) Methyl Iodide	2.723	142	115	2.366	ug/l #	43
12) 1,1-Dichloroethene	2.578	96	726	0.263	ug/l	96
20) Methylene Chloride	3.047	84	1654	0.475	ug/l #	89
21) trans-1,2-Dichloroethene	3.350	96	6663	2.253	ug/l	93
27) cis-1,2-Dichloroethene	4.658	96	277174	84.259	ug/l	93
31) Cyclohexane	5.362	56	4723	0.994	ug/l #	3
36) 1,1-Dichloropropene	5.366	75	18977	4.593	ug/l #	49
38) Carbon Tetrachloride	5.369	117	24561	5.808	ug/l #	15
44) Trichloroethene	6.539	130	37492	11.381	ug/l	96
76) 1,2,3-Trichloropropane	10.626	75	90979	16.073	ug/l #	45
81) trans-1,4-Dichloro-2-b...	10.626	75	90979	61.205	ug/l #	15
93) 1,2,4-Trichlorobenzene	13.844	180	802	1.817	ug/l #	90
94) Hexachlorobutadiene	14.021	225	71	0.854	ug/l #	40
95) Naphthalene	14.102	128	2576	2.164	ug/l #	79
96) 1,2,3-Trichlorobenzene	14.333	180	942	1.462	ug/l #	55

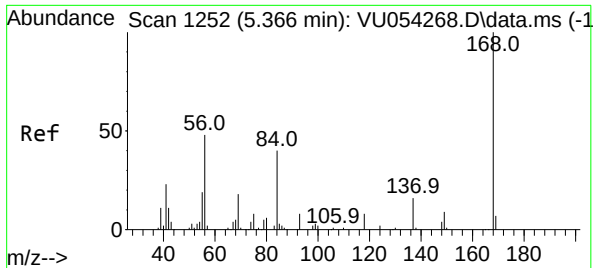
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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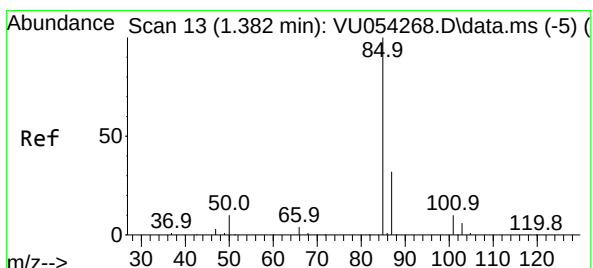
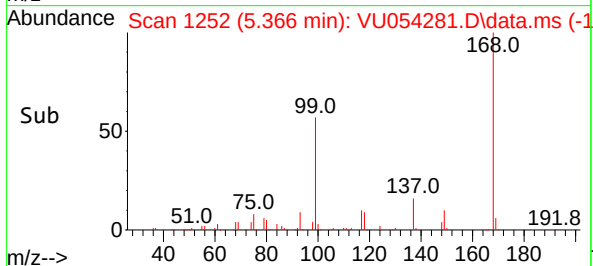
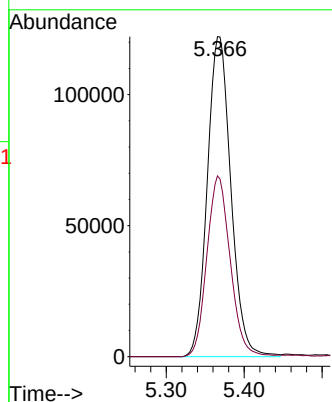
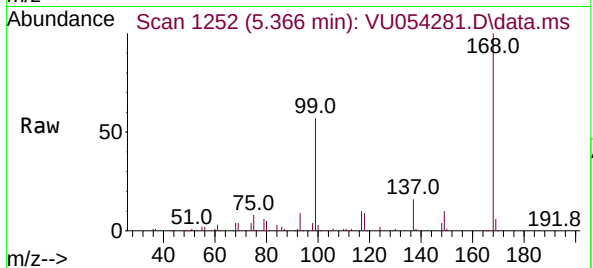




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.366 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU054281.D
Acq: 26 May 2023 13:28

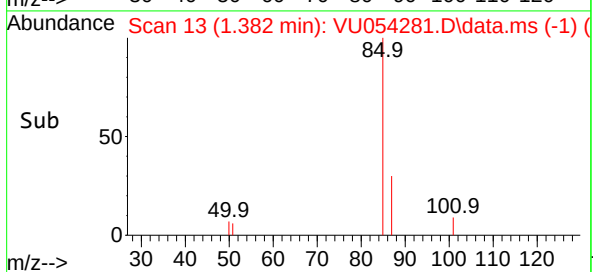
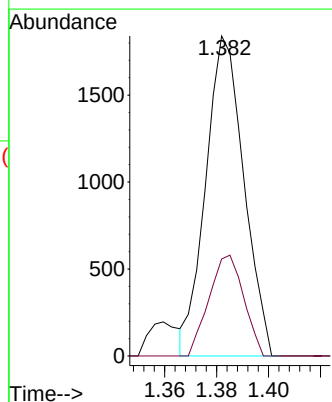
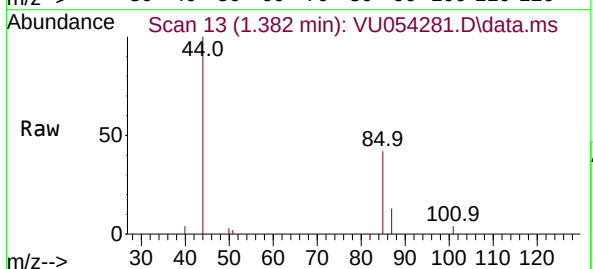
Instrument :
MSVOA_U
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BRP2-20230523

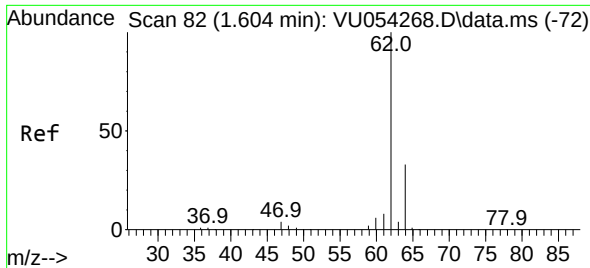
Tgt Ion:168 Resp: 256781
Ion Ratio Lower Upper
168 100
99 56.5 39.3 58.9



#2
Dichlorodifluoromethane
Concen: 0.654 ug/l
RT: 1.382 min Scan# 13
Delta R.T. -0.000 min
Lab File: VU054281.D
Acq: 26 May 2023 13:28

Tgt Ion: 85 Resp: 1874
Ion Ratio Lower Upper
85 100
87 30.3 16.4 49.2

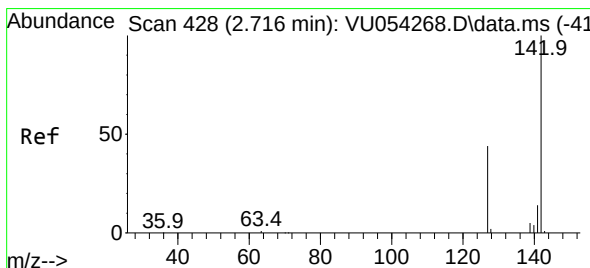
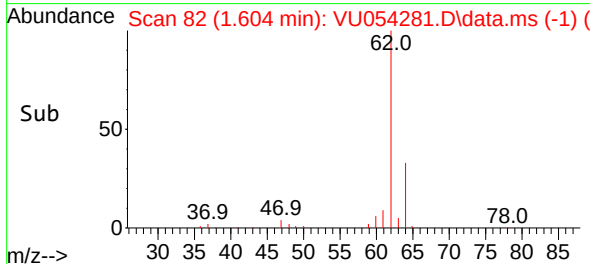
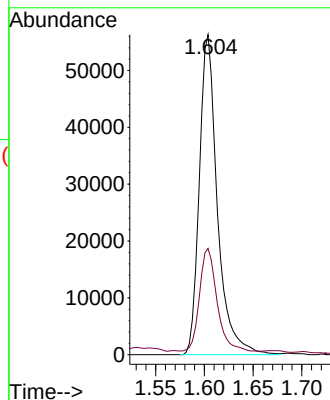
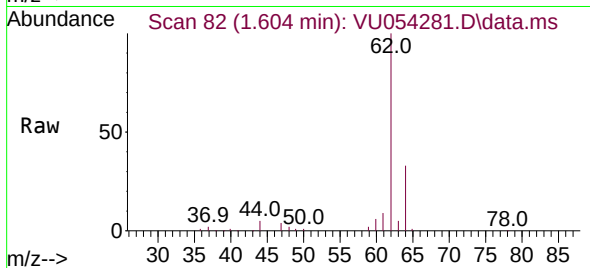




#4
 Vinyl Chloride
 Concen: 20.239 ug/l
 RT: 1.604 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VU054281.D
 Acq: 26 May 2023 13:28

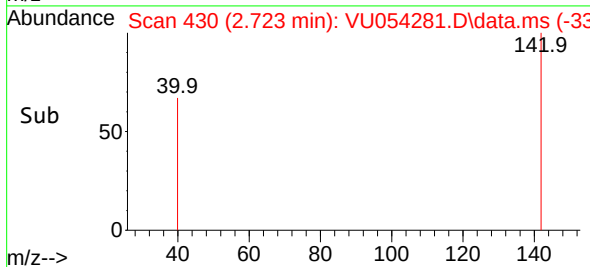
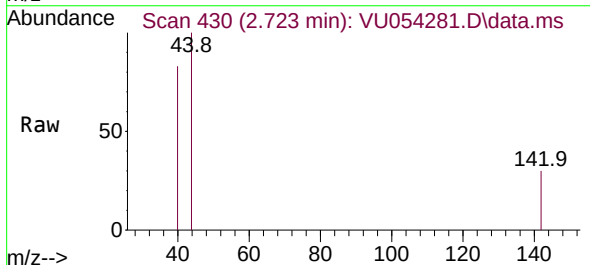
Instrument :
 MSVOA_U
 ClientSampleId :
 BRP2-20230523

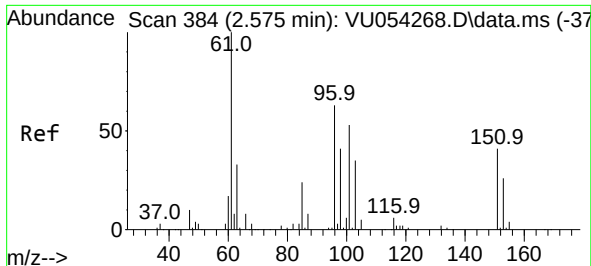
Tgt Ion: 62 Resp: 72481
 Ion Ratio Lower Upper
 62 100
 64 32.1 25.3 37.9



#10
 Methyl Iodide
 Concen: 2.366 ug/l
 RT: 2.723 min Scan# 430
 Delta R.T. 0.007 min
 Lab File: VU054281.D
 Acq: 26 May 2023 13:28

Tgt Ion: 142 Resp: 115
 Ion Ratio Lower Upper
 142 100
 127 0.0 32.5 48.7#
 141 0.0 11.4 17.0#

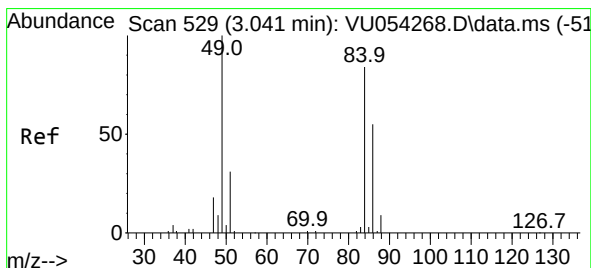
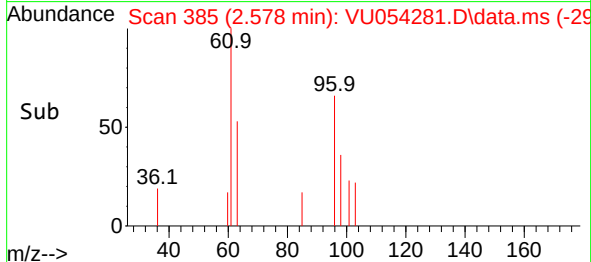
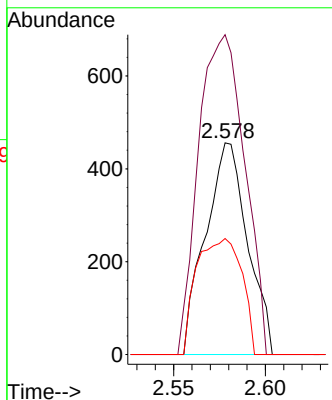
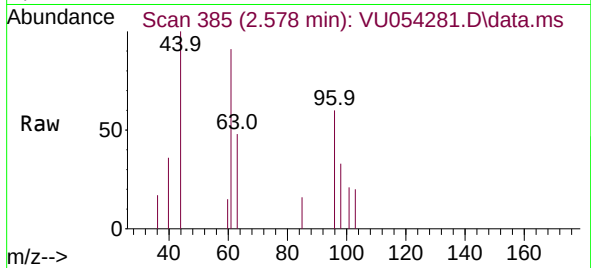




#12
1,1-Dichloroethene
Concen: 0.263 ug/l
RT: 2.578 min Scan# 31
Delta R.T. 0.003 min
Lab File: VU054281.D
Acq: 26 May 2023 13:28

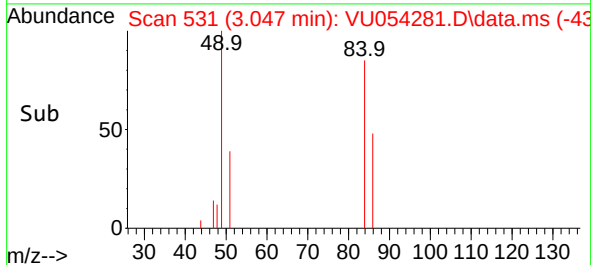
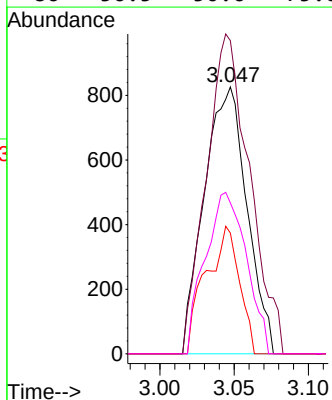
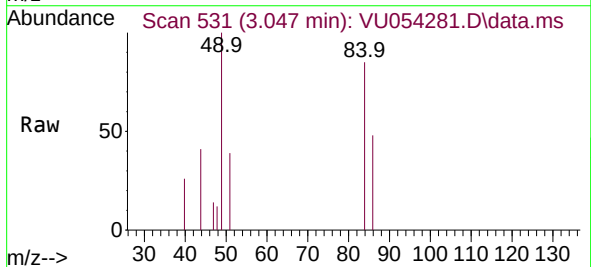
Instrument :
MSVOA_U
ClientSampleId :
BRP2-20230523

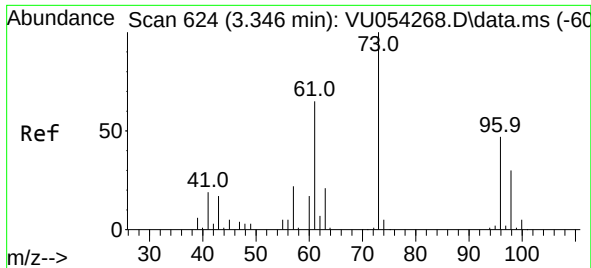
Tgt Ion: 96 Resp: 726
Ion Ratio Lower Upper
96 100
61 151.1 122.2 183.2
98 54.8 50.7 76.1



#20
Methylene Chloride
Concen: 0.475 ug/l
RT: 3.047 min Scan# 531
Delta R.T. 0.006 min
Lab File: VU054281.D
Acq: 26 May 2023 13:28

Tgt Ion: 84 Resp: 1654
Ion Ratio Lower Upper
84 100
49 117.3 86.6 129.8
51 45.3 26.6 40.0#
86 56.5 50.6 75.8

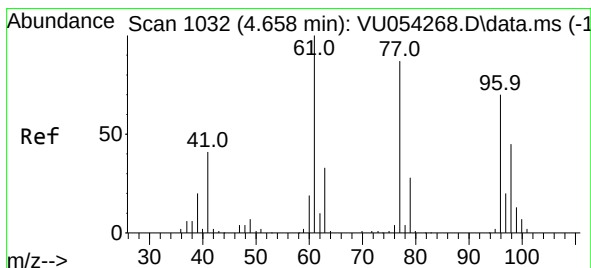
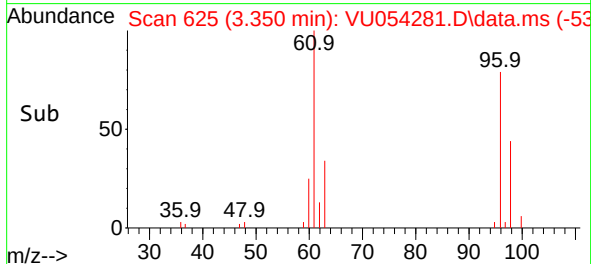
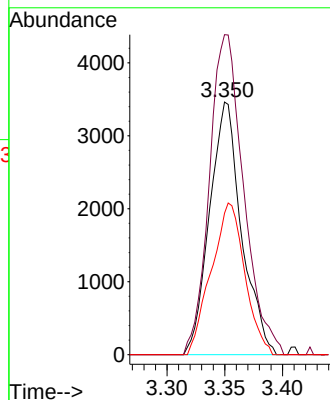
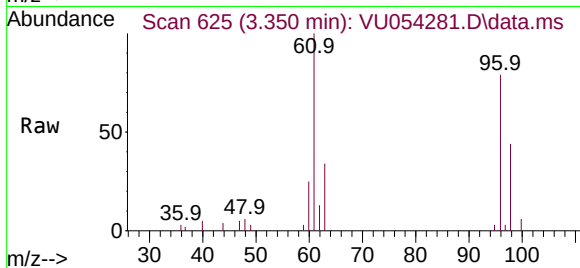




#21
trans-1,2-Dichloroethene
Concen: 2.253 ug/l
RT: 3.350 min Scan# 61
Delta R.T. 0.004 min
Lab File: VU054281.D
Acq: 26 May 2023 13:28

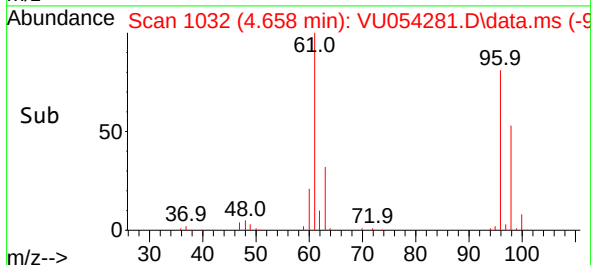
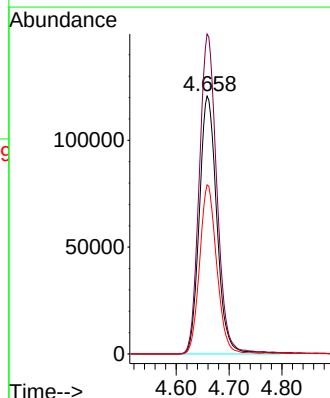
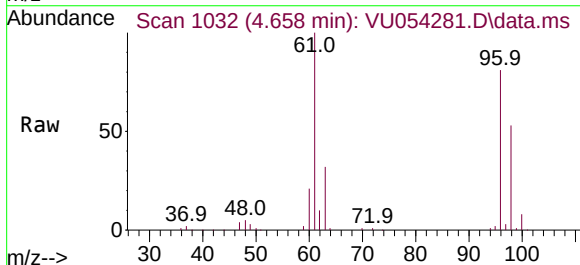
Instrument :
MSVOA_U
ClientSampleId :
BRP2-20230523

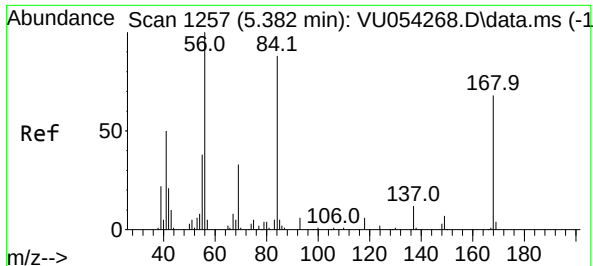
Tgt Ion: 96 Resp: 6663
Ion Ratio Lower Upper
96 100
61 126.7 106.1 159.1
98 56.0 50.8 76.2



#27
cis-1,2-Dichloroethene
Concen: 84.259 ug/l
RT: 4.658 min Scan# 1032
Delta R.T. 0.000 min
Lab File: VU054281.D
Acq: 26 May 2023 13:28

Tgt Ion: 96 Resp: 277174
Ion Ratio Lower Upper
96 100
61 124.3 0.0 271.6
98 63.8 0.0 128.2

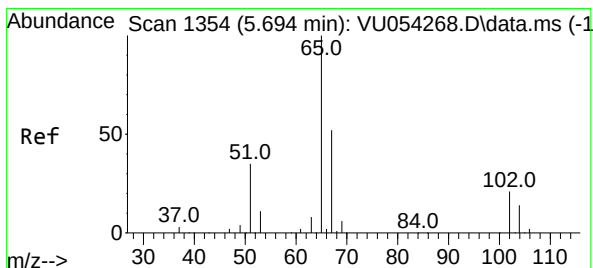
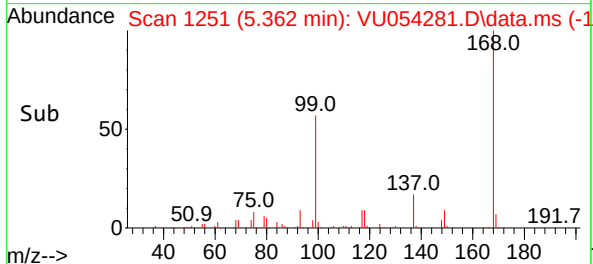
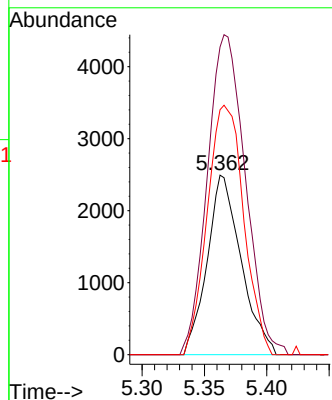
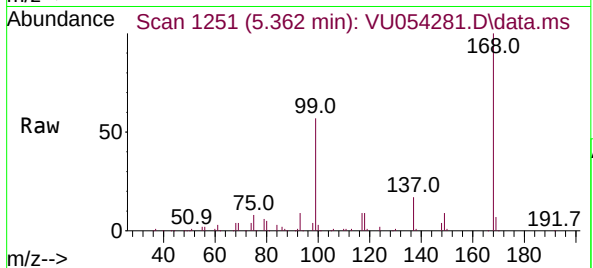




#31
Cyclohexane
Concen: 0.994 ug/l
RT: 5.362 min Scan# 11
Delta R.T. -0.020 min
Lab File: VU054281.D
Acq: 26 May 2023 13:28

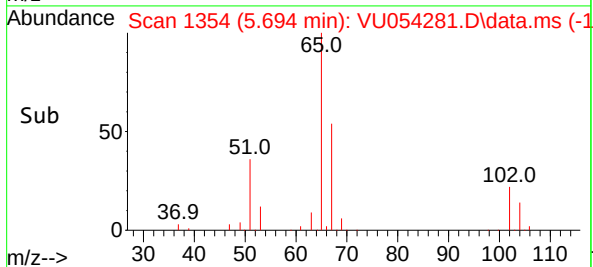
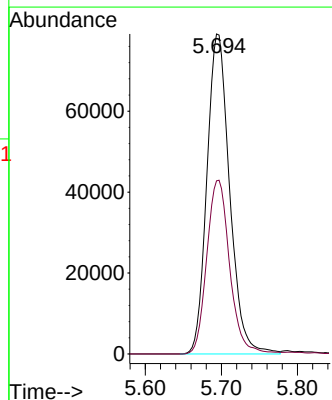
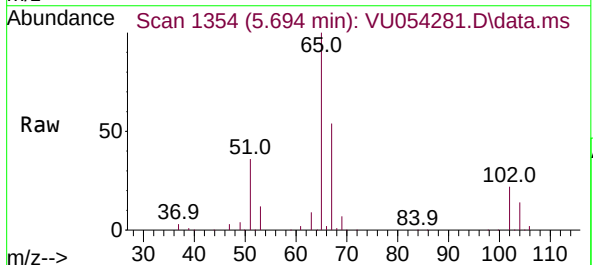
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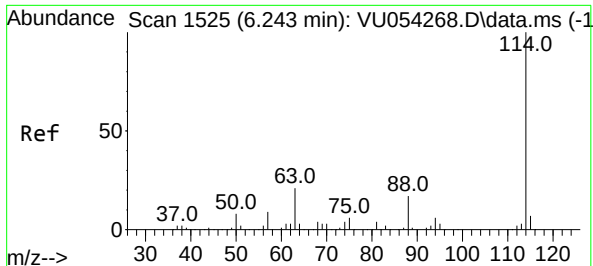
Tgt Ion: 56 Resp: 4723
Ion Ratio Lower Upper
56 100
69 171.4 27.8 41.8#
84 136.5 74.2 111.4#



#33
1,2-Dichloroethane-d4
Concen: 48.797 ug/l
RT: 5.694 min Scan# 1354
Delta R.T. -0.000 min
Lab File: VU054281.D
Acq: 26 May 2023 13:28

Tgt Ion: 65 Resp: 164257
Ion Ratio Lower Upper
65 100
67 54.7 0.0 108.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.243 min Scan# 11

Delta R.T. 0.000 min

Lab File: VU054281.D

Acq: 26 May 2023 13:28

Instrument :

MSVOA_U

ClientSampleId :

BRP2-20230523

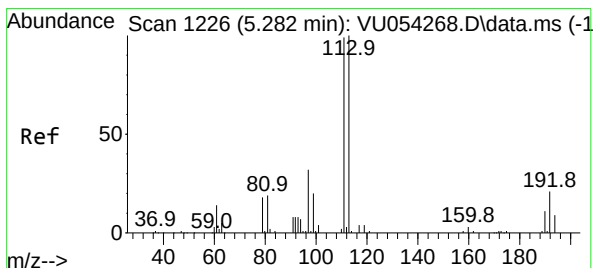
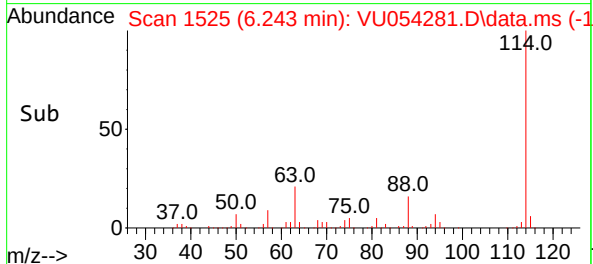
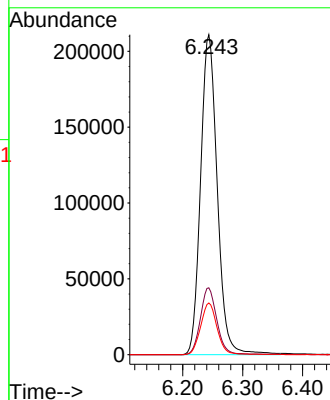
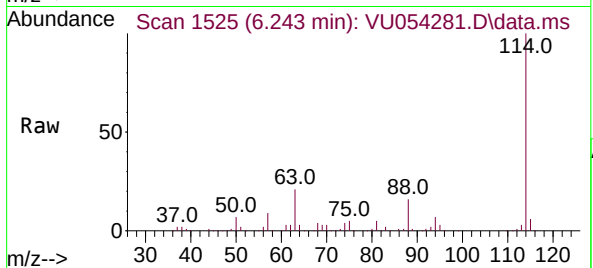
Tgt Ion:114 Resp: 408465

Ion Ratio Lower Upper

114 100

63 20.9 0.0 37.8

88 16.1 0.0 29.2



#35

Dibromofluoromethane

Concen: 50.894 ug/l

RT: 5.282 min Scan# 1226

Delta R.T. 0.000 min

Lab File: VU054281.D

Acq: 26 May 2023 13:28

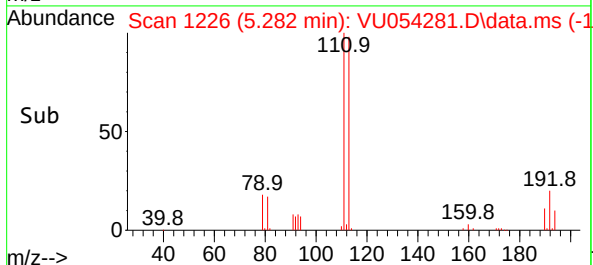
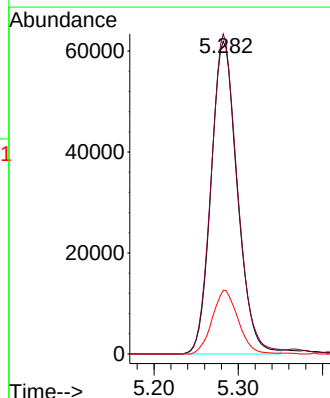
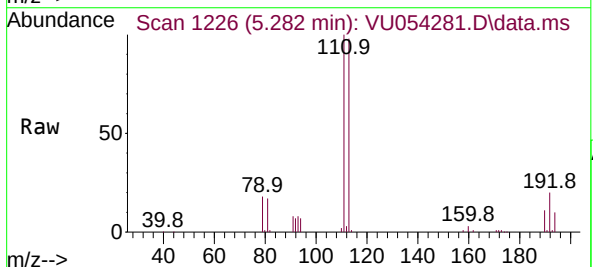
Tgt Ion:113 Resp: 133872

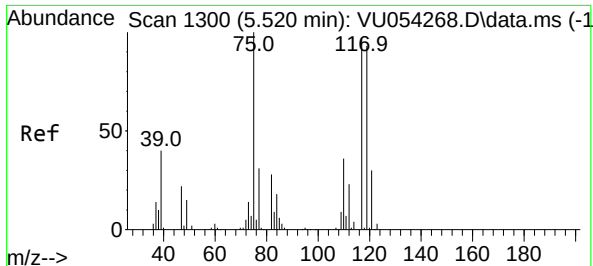
Ion Ratio Lower Upper

113 100

111 102.2 82.1 123.1

192 20.1 18.0 27.0





#36

1,1-Dichloropropene

Concen: 4.593 ug/l

RT: 5.366 min Scan# 11

Delta R.T. -0.154 min

Lab File: VU054281.D

Acq: 26 May 2023 13:28

Instrument :

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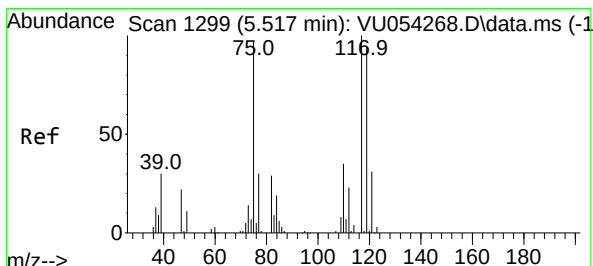
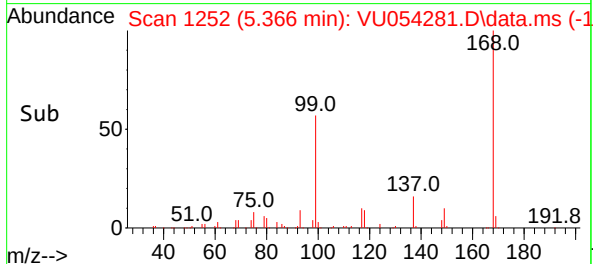
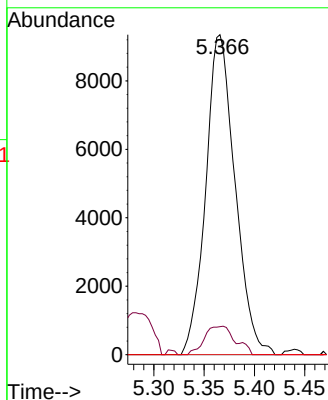
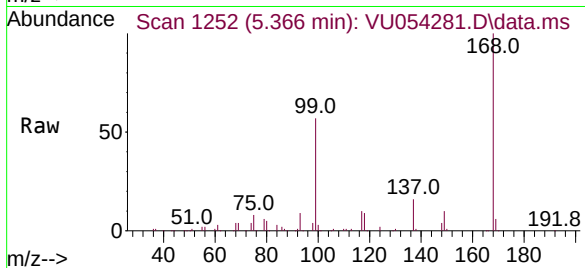
Tgt Ion: 75 Resp: 18977

Ion Ratio Lower Upper

75 100

110 9.3 18.4 55.2#

77 0.0 25.1 37.7#



#38

Carbon Tetrachloride

Concen: 5.808 ug/l

RT: 5.369 min Scan# 1253

Delta R.T. -0.148 min

Lab File: VU054281.D

Acq: 26 May 2023 13:28

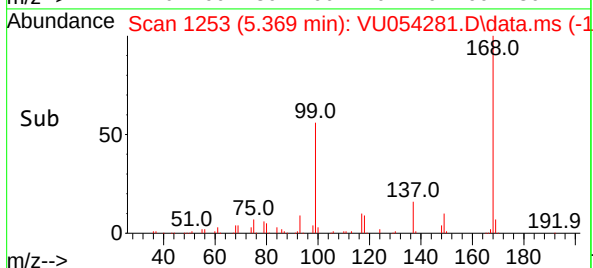
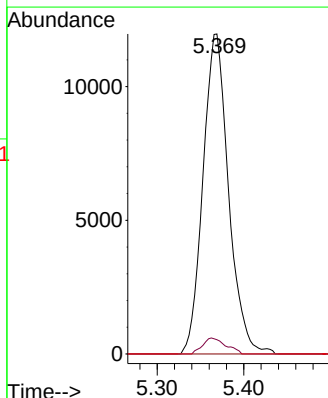
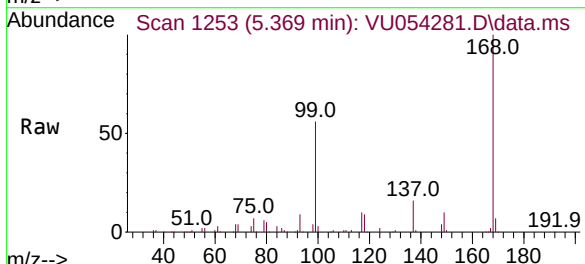
Tgt Ion: 117 Resp: 24561

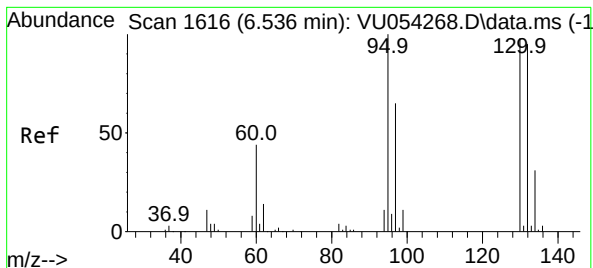
Ion Ratio Lower Upper

117 100

119 4.4 76.8 115.2#

121 0.0 24.7 37.1#





#44

Trichloroethene

Concen: 11.381 ug/l

RT: 6.539 min Scan# 1

Delta R.T. 0.003 min

Lab File: VU054281.D

Acq: 26 May 2023 13:28

Instrument :

MSVOA_U

ClientSampleId :

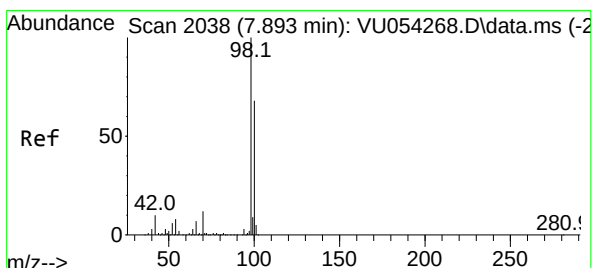
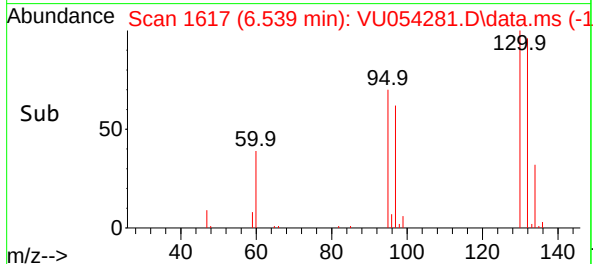
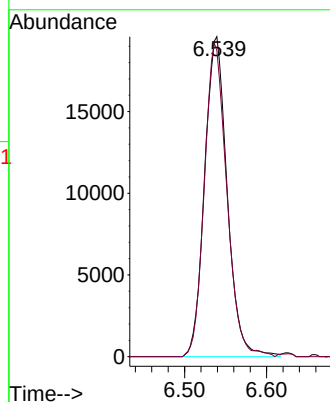
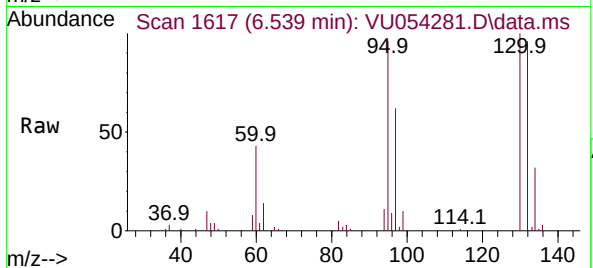
BRP2-20230523

Tgt Ion:130 Resp: 37492

Ion Ratio Lower Upper

130 100

95 95.8 0.0 184.6



#50

Toluene-d8

Concen: 49.729 ug/l

RT: 7.893 min Scan# 2038

Delta R.T. -0.000 min

Lab File: VU054281.D

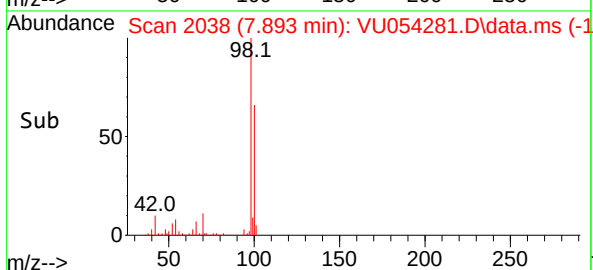
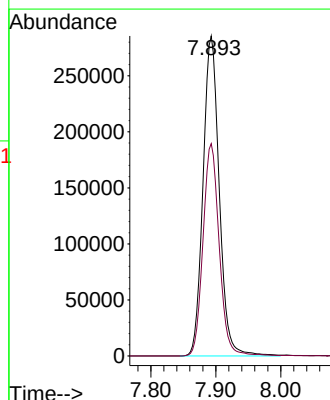
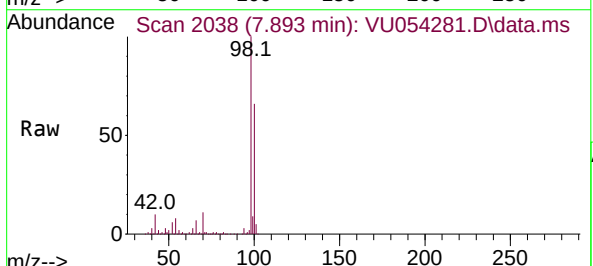
Acq: 26 May 2023 13:28

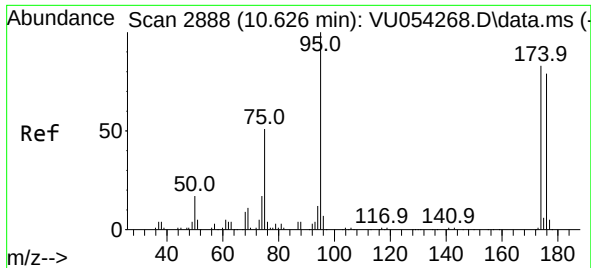
Tgt Ion: 98 Resp: 497551

Ion Ratio Lower Upper

98 100

100 65.8 51.7 77.5

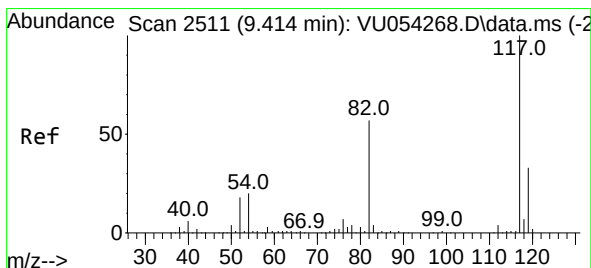
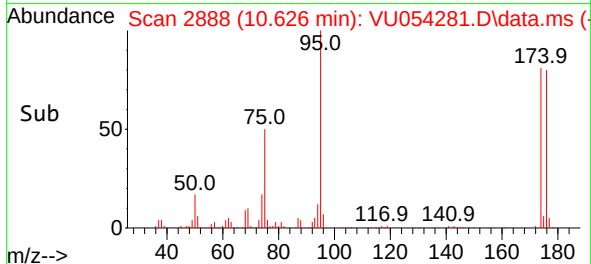
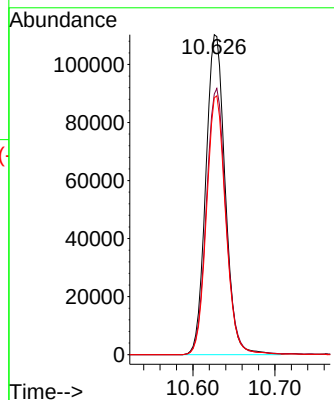
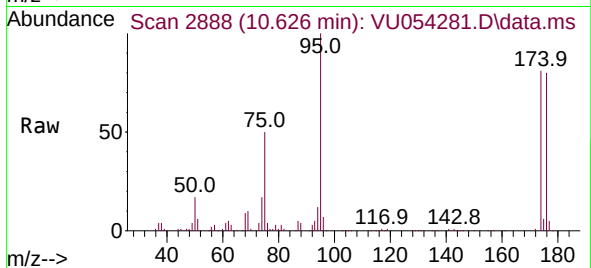




#62
4-Bromofluorobenzene
Concen: 46.660 ug/l
RT: 10.626 min Scan# 2888
Delta R.T. -0.000 min
Lab File: VU054281.D
Acq: 26 May 2023 13:28

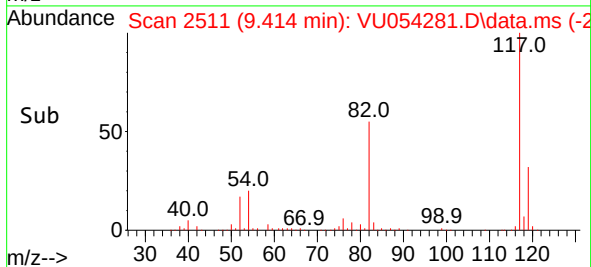
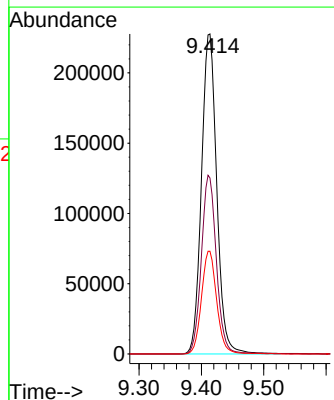
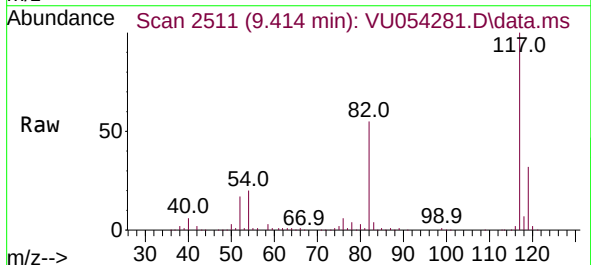
Instrument : MSVOA_U
ClientSampleId : BRP2-20230523

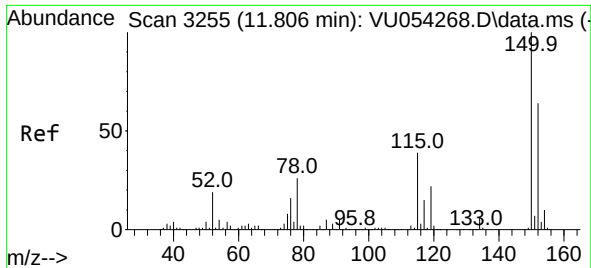
Tgt Ion: 95 Resp: 181017
Ion Ratio Lower Upper
95 100
174 84.5 0.0 182.0
176 80.6 0.0 177.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.414 min Scan# 2511
Delta R.T. -0.000 min
Lab File: VU054281.D
Acq: 26 May 2023 13:28

Tgt Ion: 117 Resp: 388257
Ion Ratio Lower Upper
117 100
82 55.0 41.7 62.5
119 32.1 25.7 38.5

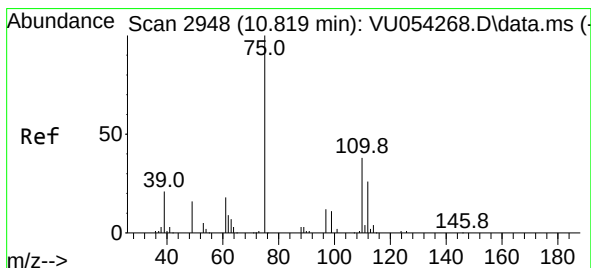
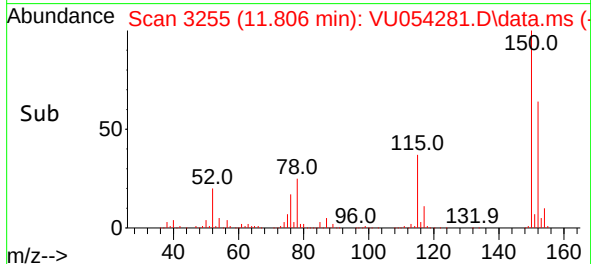
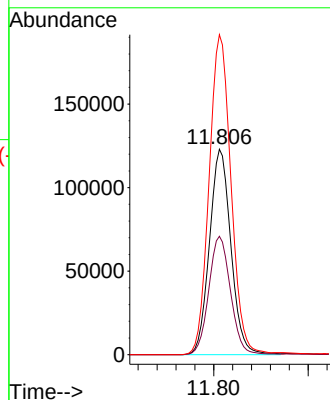
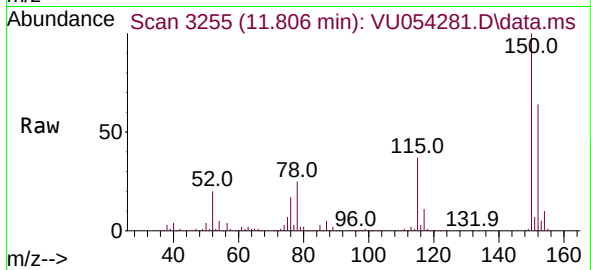




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.806 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: VU054281.D
 Acq: 26 May 2023 13:28

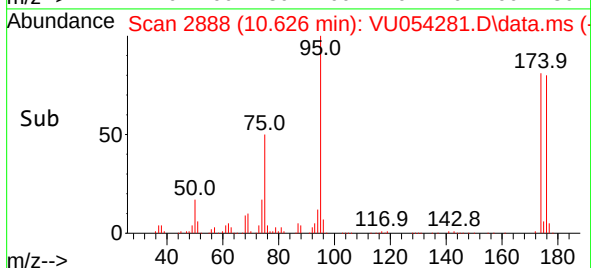
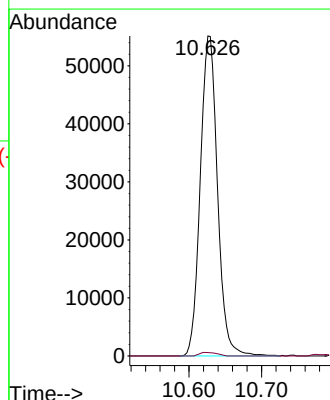
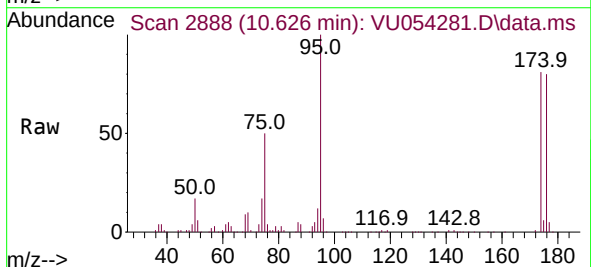
Instrument :
 MSVOA_U
 ClientSampleId :
 BRP2-20230523

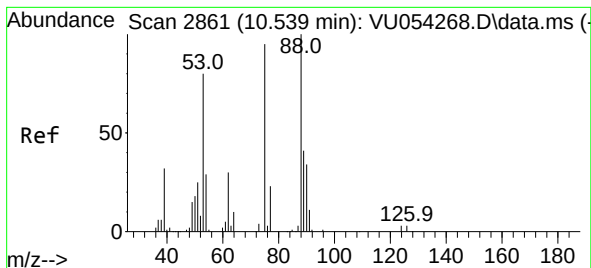
Tgt Ion:152 Resp: 193941
 Ion Ratio Lower Upper
 152 100
 115 58.3 37.0 110.9
 150 158.5 0.0 342.2



#76
 1,2,3-Trichloropropane
 Concen: 16.073 ug/l
 RT: 10.626 min Scan# 2888
 Delta R.T. -0.193 min
 Lab File: VU054281.D
 Acq: 26 May 2023 13:28

Tgt Ion: 75 Resp: 90979
 Ion Ratio Lower Upper
 75 100
 77 1.1 15.8 47.3#

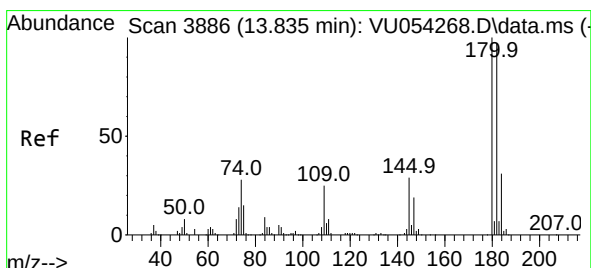
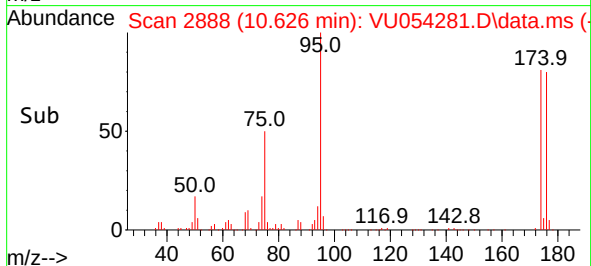
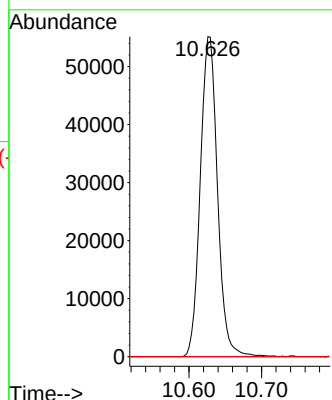
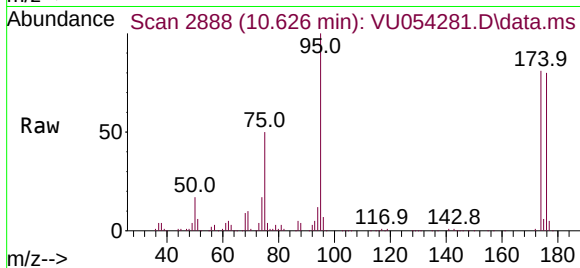




#81
trans-1,4-Dichloro-2-butene
Concen: 61.205 ug/l
RT: 10.626 min Scan# 21
Delta R.T. 0.087 min
Lab File: VU054281.D
Acq: 26 May 2023 13:28

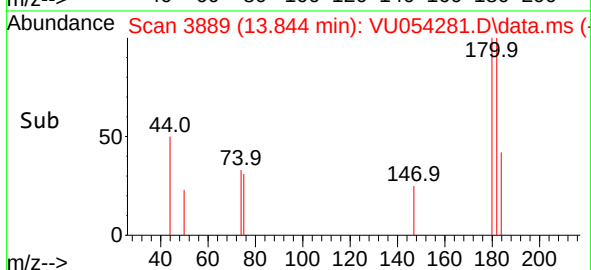
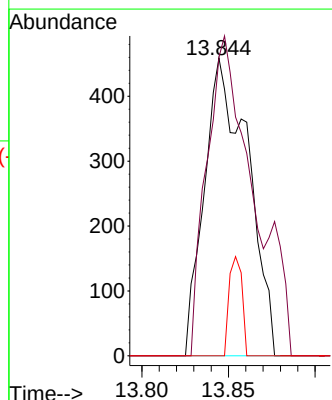
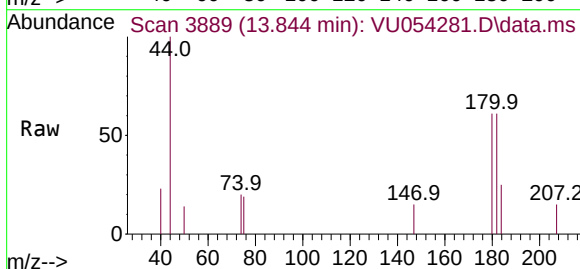
Instrument :
MSVOA_U
ClientSampleId :
BRP2-20230523

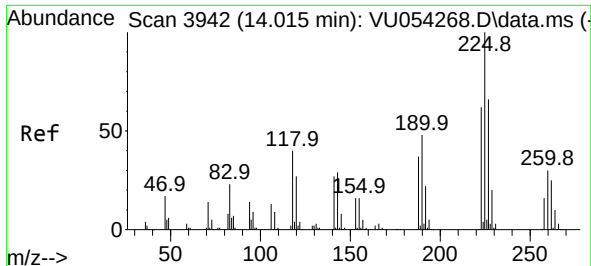
Tgt Ion: 75 Resp: 90979
Ion Ratio Lower Upper
75 100
53 0.0 69.2 103.8#
89 0.0 37.0 55.6#



#93
1,2,4-Trichlorobenzene
Concen: 1.817 ug/l
RT: 13.844 min Scan# 3889
Delta R.T. 0.009 min
Lab File: VU054281.D
Acq: 26 May 2023 13:28

Tgt Ion:180 Resp: 802
Ion Ratio Lower Upper
180 100
182 99.0 47.9 143.6
145 9.9 14.0 41.9#

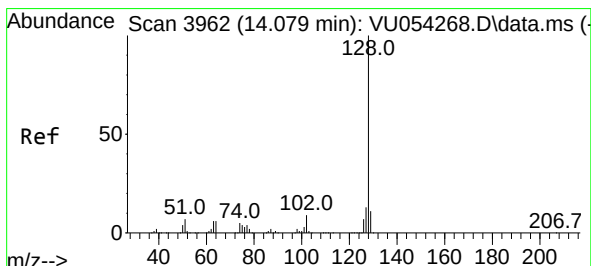
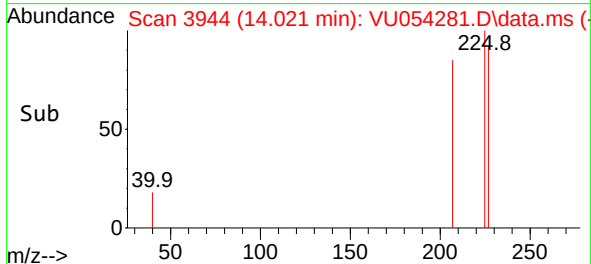
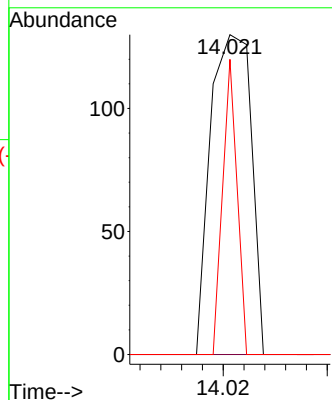
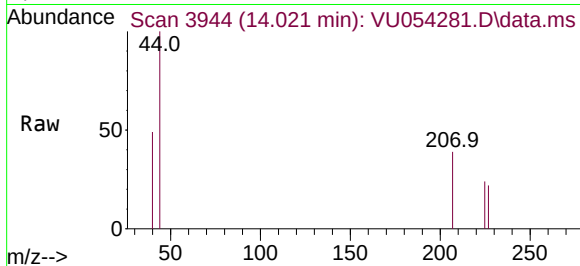




#94
Hexachlorobutadiene
Concen: 0.854 ug/l
RT: 14.021 min Scan# 3944
Delta R.T. 0.006 min
Lab File: VU054281.D
Acq: 26 May 2023 13:28

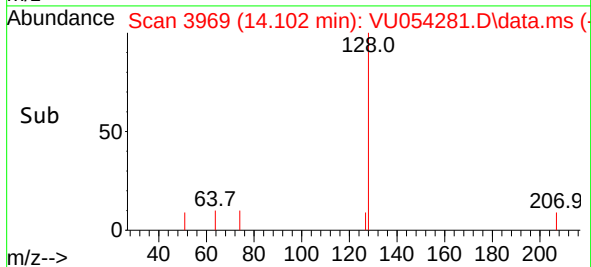
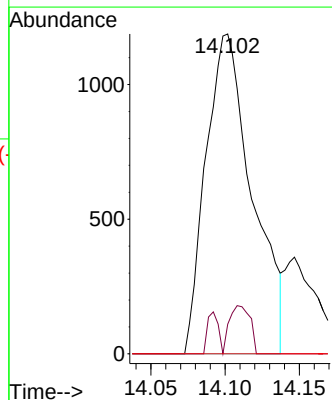
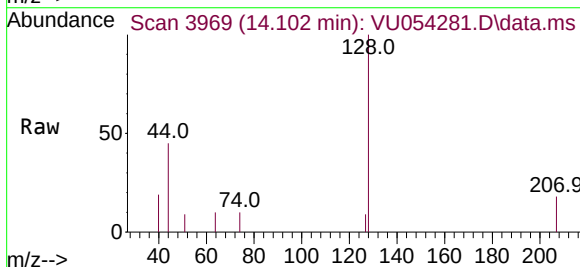
Instrument :
MSVOA_U
ClientSampleId :
BRP2-20230523

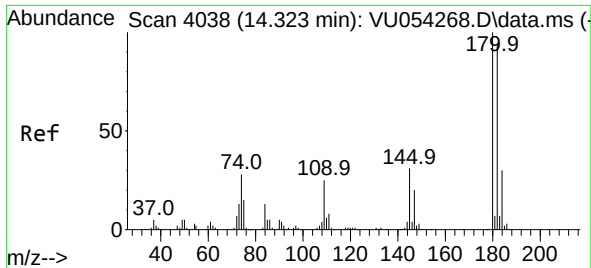
Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	31.3	93.9#
227	32.4	32.0	96.2



#95
Naphthalene
Concen: 2.164 ug/l
RT: 14.102 min Scan# 3969
Delta R.T. 0.023 min
Lab File: VU054281.D
Acq: 26 May 2023 13:28

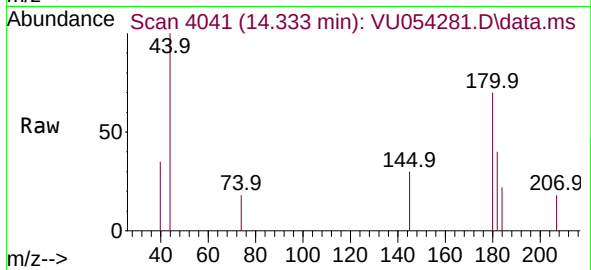
Tgt Ion	Ratio	Lower	Upper
128	100		
127	6.8	10.3	15.5#
129	0.0	8.6	13.0#





#96
 1,2,3-Trichlorobenzene
 Concen: 1.462 ug/l
 RT: 14.333 min Scan# 4038
 Delta R.T. 0.010 min
 Lab File: VU054281.D
 Acq: 26 May 2023 13:28

Instrument :
 MSVOA_U
 ClientSampleId :
 BRP2-20230523



Tgt Ion:180 Resp: 942
 Ion Ratio Lower Upper
 180 100
 182 46.4 48.4 145.0#
 145 16.3 14.8 44.4

