

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU053123\
 Data File : VU054335.D
 Acq On : 31 May 2023 14:14
 Operator : JC/MD
 Sample : 02936-03 20X
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 20BR-20230523

Quant Time: Jun 01 05:15:27 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

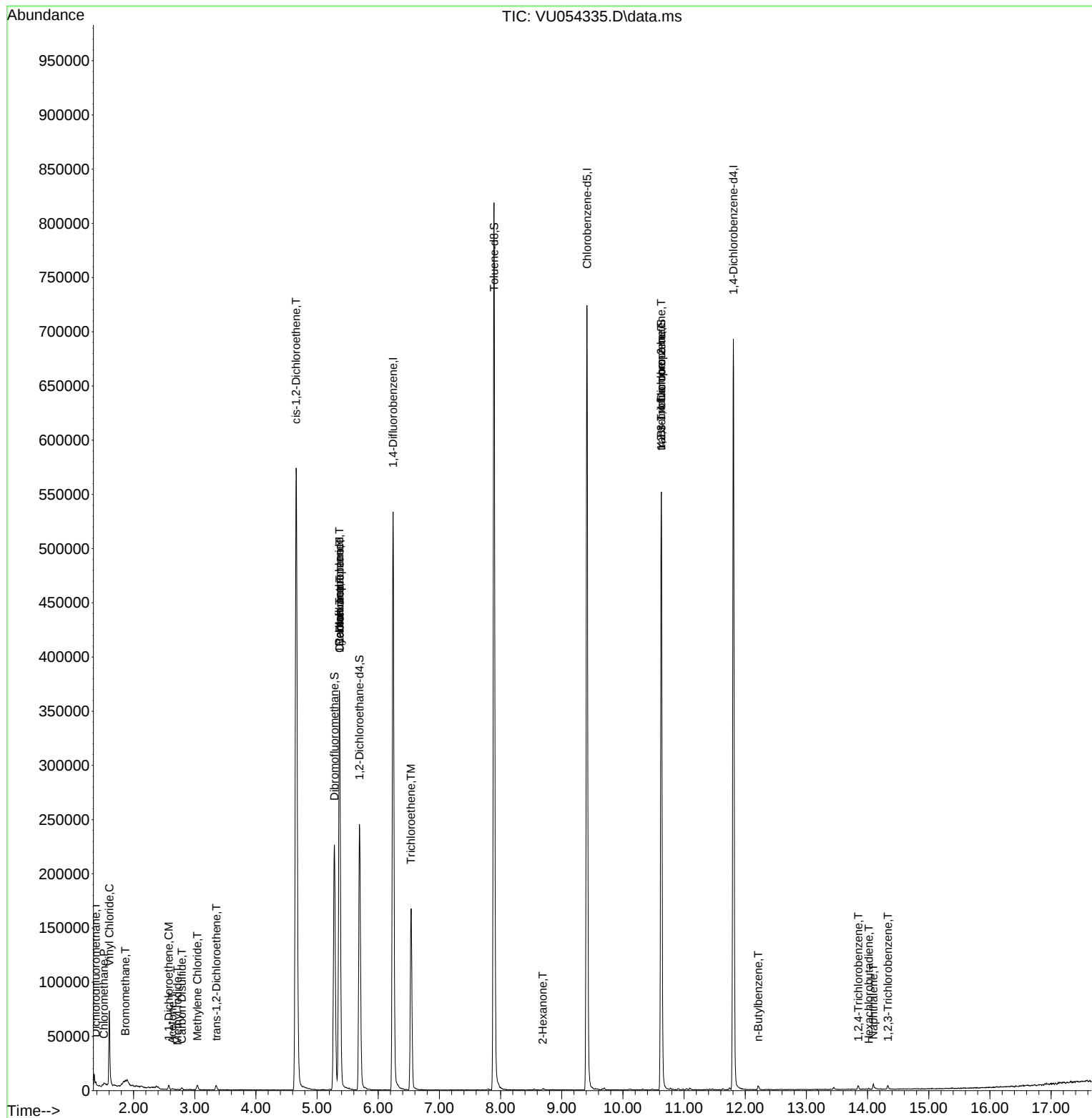
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.366	168	268452	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.243	114	441880	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.414	117	411617	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.806	152	190100	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.694	65	182793	51.943	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 103.880%	
35) Dibromofluoromethane	5.282	113	149108	52.399	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 104.800%	
50) Toluene-d8	7.893	98	552701	51.064	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 102.120%	
62) 4-Bromofluorobenzene	10.629	95	182985	43.601	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 87.200%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.382	85	1509	0.504	ug/l	96
3) Chloromethane	1.517	50	825	0.210	ug/l #	80
4) Vinyl Chloride	1.604	62	53252	14.223	ug/l	99
5) Bromomethane	1.864	94	646	0.312	ug/l #	75
10) Methyl Iodide	2.719	142	299	2.417	ug/l #	43
12) 1,1-Dichloroethene	2.575	96	987	0.342	ug/l #	82
16) Acetone	2.633	43	879	0.436	ug/l #	38
17) Carbon Disulfide	2.790	76	1764	0.207	ug/l #	88
20) Methylene Chloride	3.041	84	2165	0.595	ug/l #	70
21) trans-1,2-Dichloroethene	3.353	96	1930	0.624	ug/l	97
27) cis-1,2-Dichloroethene	4.658	96	315383	91.706	ug/l	94
31) Cyclohexane	5.369	56	5490	1.105	ug/l #	13
36) 1,1-Dichloropropene	5.369	75	20106	4.498	ug/l #	48
38) Carbon Tetrachloride	5.366	117	25865	5.654	ug/l #	16
44) Trichloroethene	6.536	130	59349	16.654	ug/l	94
59) 2-Hexanone	8.690	43	1257	0.317	ug/l	77
76) 1,2,3-Trichloropropane	10.626	75	94059	16.953	ug/l #	45
81) trans-1,4-Dichloro-2-b...	10.626	75	94059	64.556	ug/l #	15
89) n-Butylbenzene	12.211	91	2171	0.216	ug/l #	81
93) 1,2,4-Trichlorobenzene	13.848	180	1615	2.001	ug/l	94
94) Hexachlorobutadiene	14.021	225	304	0.968	ug/l	88
95) Naphthalene	14.095	128	6349	2.425	ug/l #	92
96) 1,2,3-Trichlorobenzene	14.333	180	1581	1.610	ug/l	89

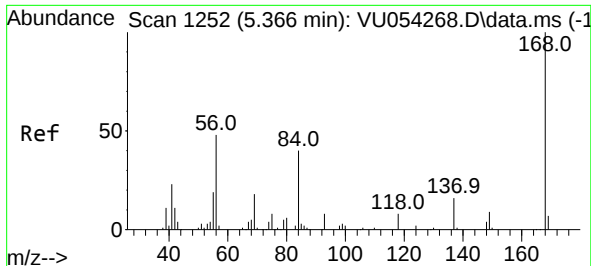
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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20BR-20230523

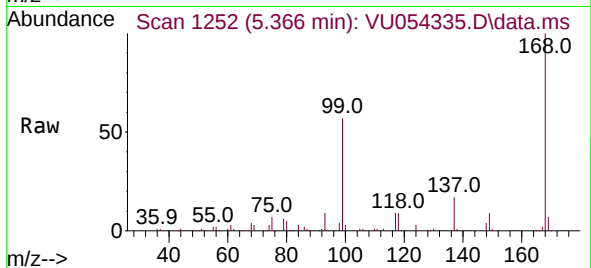
Quant Time: Jun 01 05:15:27 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U052523W.M
Quant Title : SW846 8260
QLast Update : Fri May 26 06:40:51 2023
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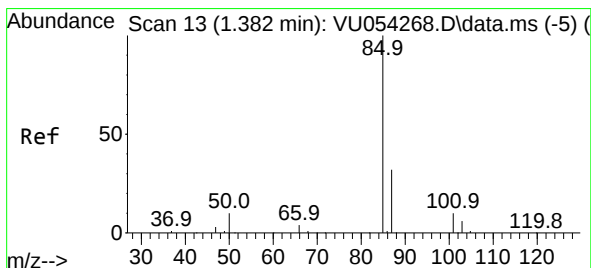
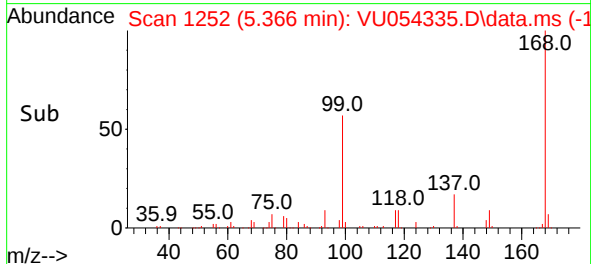
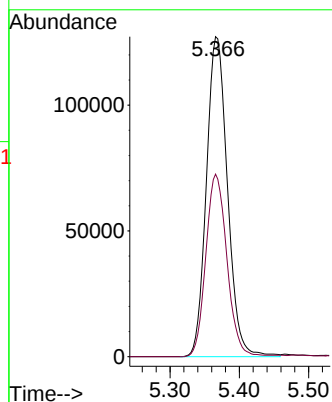


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.366 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU054335.D
Acq: 31 May 2023 14:14

Instrument :
MSVOA_U
ClientSampleId :
20BR-20230523

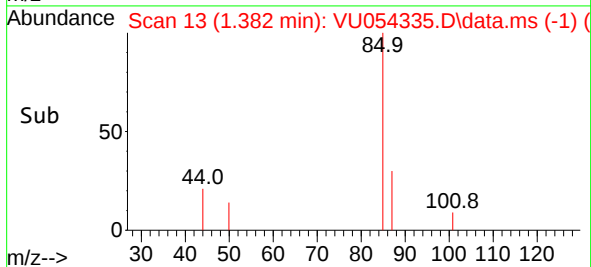
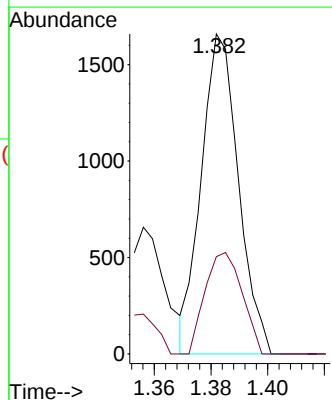
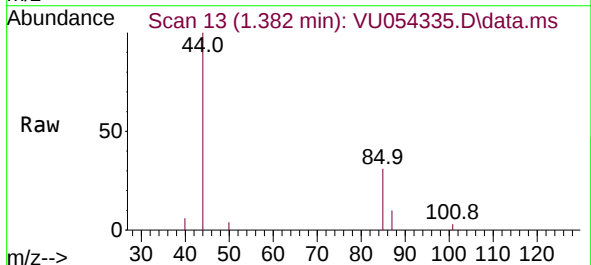


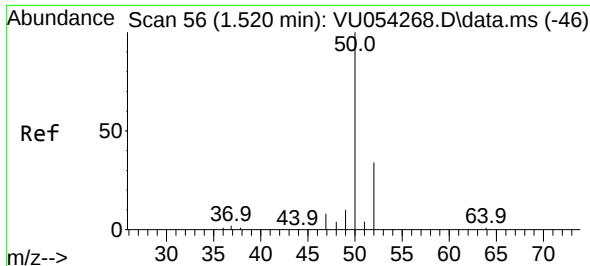
Tgt Ion:168 Resp: 268452
Ion Ratio Lower Upper
168 100
99 57.1 39.3 58.9



#2
Dichlorodifluoromethane
Concen: 0.504 ug/l
RT: 1.382 min Scan# 13
Delta R.T. -0.000 min
Lab File: VU054335.D
Acq: 31 May 2023 14:14

Tgt Ion: 85 Resp: 1509
Ion Ratio Lower Upper
85 100
87 30.4 16.4 49.2

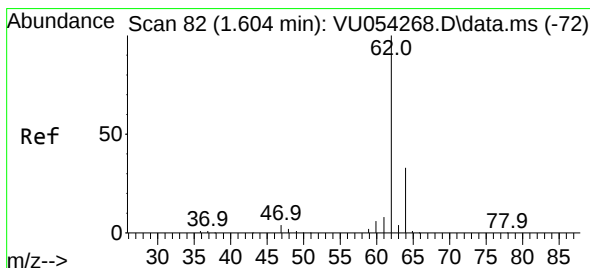
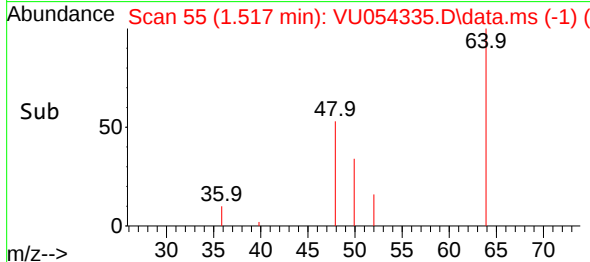
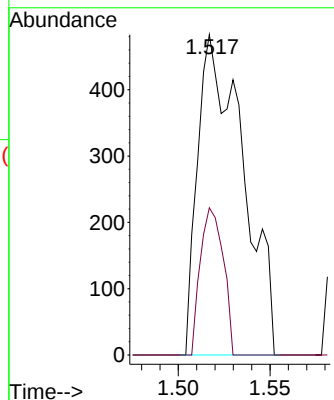
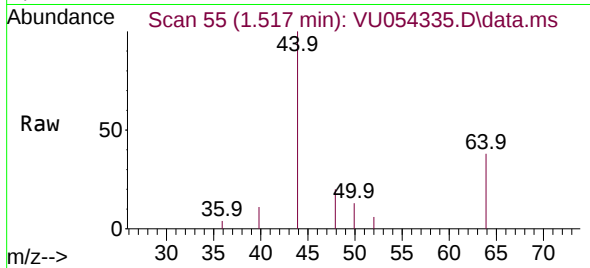




#3
Chloromethane
Concen: 0.210 ug/l
RT: 1.517 min Scan# 51
Delta R.T. -0.003 min
Lab File: VU054335.D
Acq: 31 May 2023 14:14

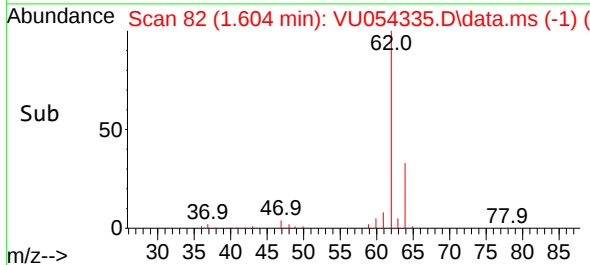
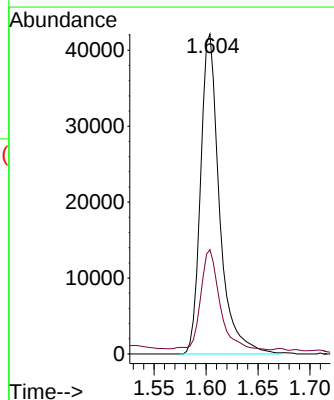
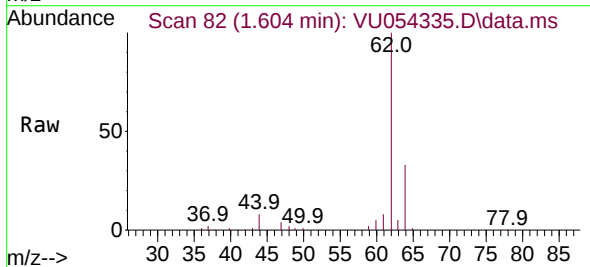
Instrument :
MSVOA_U
ClientSampleId :
20BR-20230523

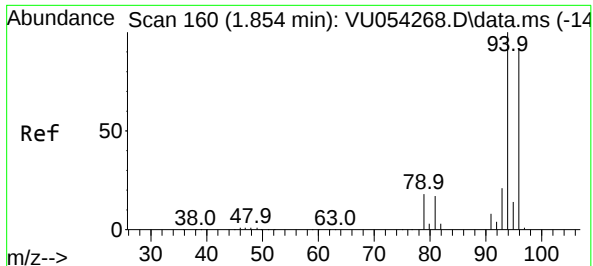
Tgt Ion: 50 Resp: 825
Ion Ratio Lower Upper
50 100
52 46.0 27.4 41.2#



#4
Vinyl Chloride
Concen: 14.223 ug/l
RT: 1.604 min Scan# 82
Delta R.T. -0.000 min
Lab File: VU054335.D
Acq: 31 May 2023 14:14

Tgt Ion: 62 Resp: 53252
Ion Ratio Lower Upper
62 100
64 30.8 25.3 37.9

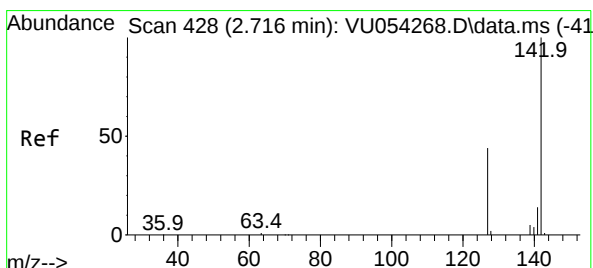
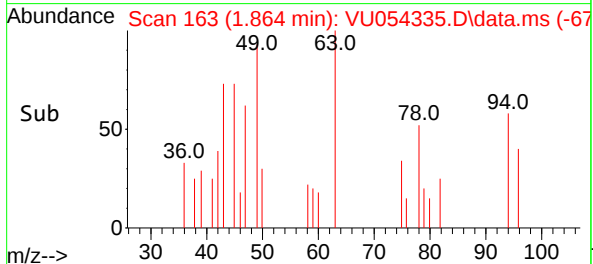
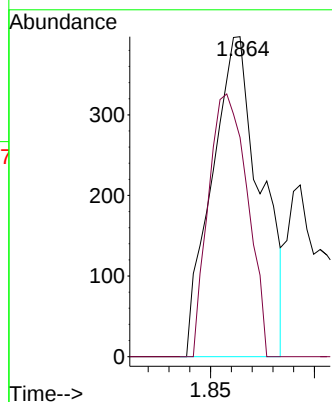
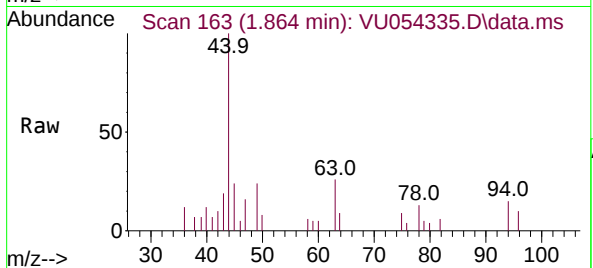




#5
Bromomethane
Concen: 0.312 ug/l
RT: 1.864 min Scan# 1
Delta R.T. 0.010 min
Lab File: VU054335.D
Acq: 31 May 2023 14:14

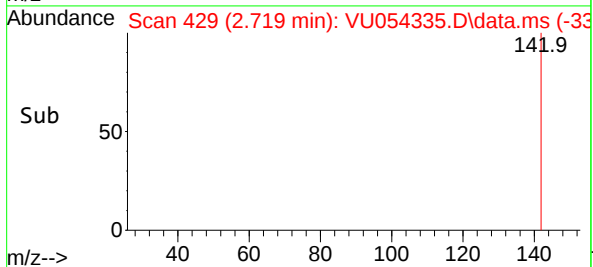
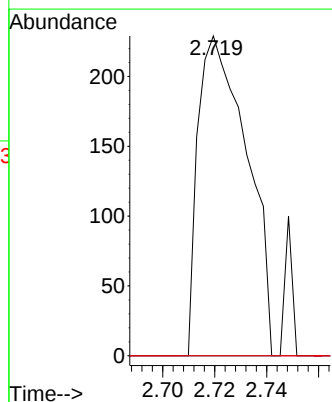
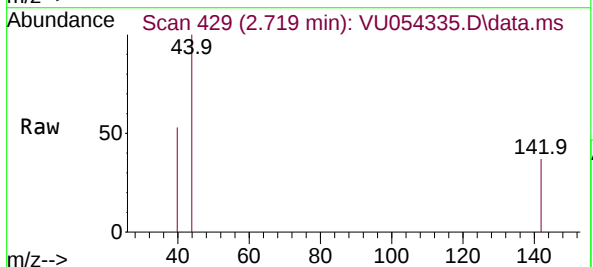
Instrument :
MSVOA_U
ClientSampleId :
20BR-20230523

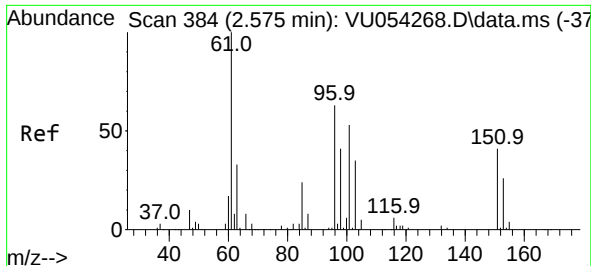
Tgt Ion: 94 Resp: 646
Ion Ratio Lower Upper
94 100
96 68.5 73.7 110.5#



#10
Methyl Iodide
Concen: 2.417 ug/l
RT: 2.719 min Scan# 429
Delta R.T. 0.003 min
Lab File: VU054335.D
Acq: 31 May 2023 14:14

Tgt Ion:142 Resp: 299
Ion Ratio Lower Upper
142 100
127 0.0 32.5 48.7#
141 0.0 11.4 17.0#

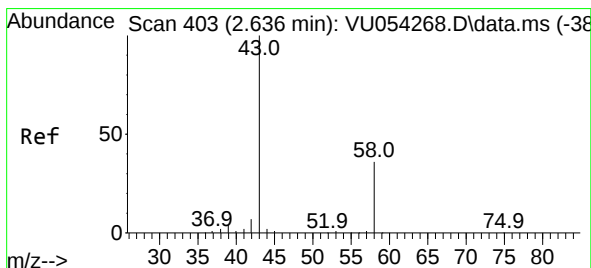
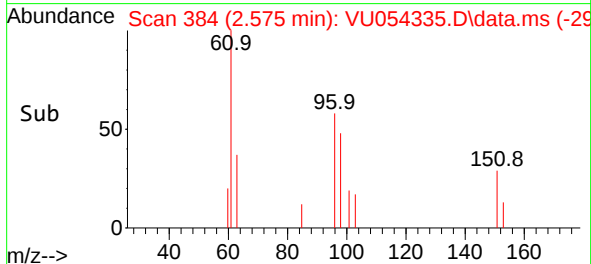
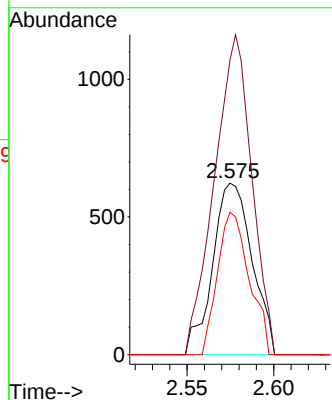
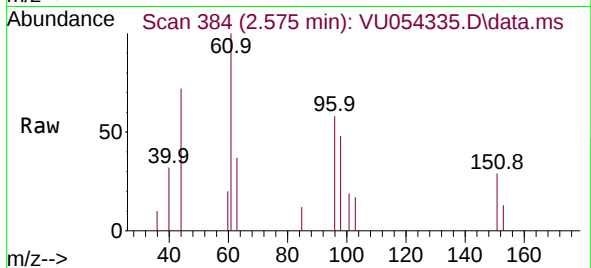




#12
1,1-Dichloroethene
Concen: 0.342 ug/l
RT: 2.575 min Scan# 31
Delta R.T. -0.000 min
Lab File: VU054335.D
Acq: 31 May 2023 14:14

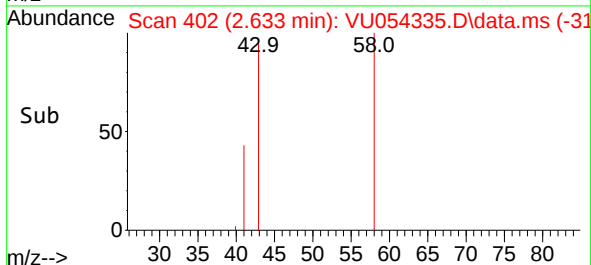
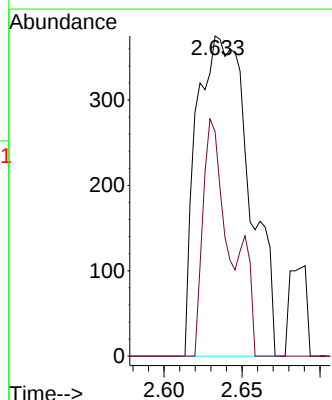
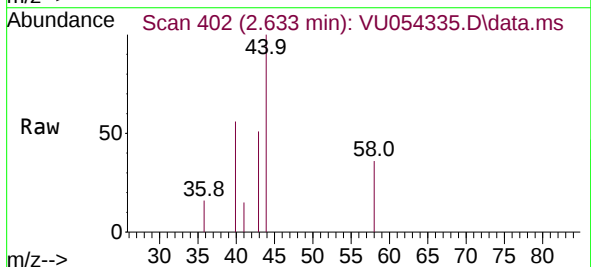
Instrument :
MSVOA_U
ClientSampleId :
20BR-20230523

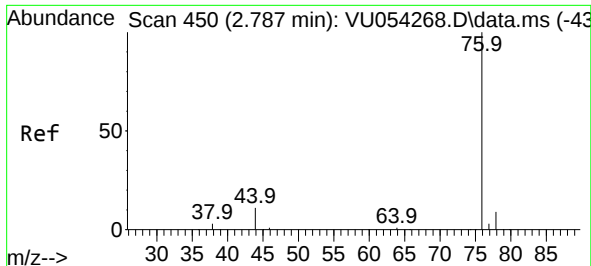
Tgt Ion: 96 Resp: 987
Ion Ratio Lower Upper
96 100
61 171.6 122.2 183.2
98 83.0 50.7 76.1#



#16
Acetone
Concen: 0.436 ug/l
RT: 2.633 min Scan# 402
Delta R.T. -0.003 min
Lab File: VU054335.D
Acq: 31 May 2023 14:14

Tgt Ion: 43 Resp: 879
Ion Ratio Lower Upper
43 100
58 70.1 27.5 41.3#





#17

Carbon Disulfide

Concen: 0.207 ug/l

RT: 2.790 min Scan# 4

Delta R.T. 0.003 min

Lab File: VU054335.D

Acq: 31 May 2023 14:14

Instrument :

MSVOA_U

ClientSampleId :

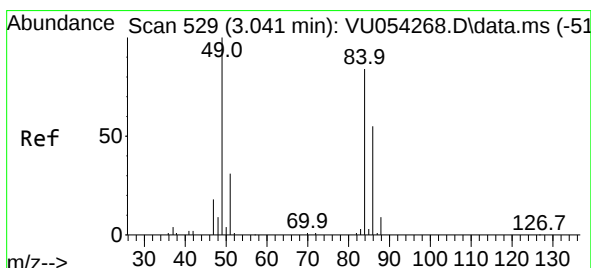
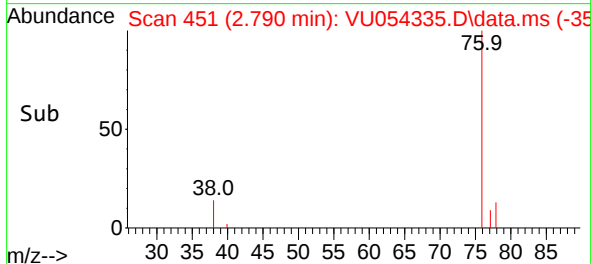
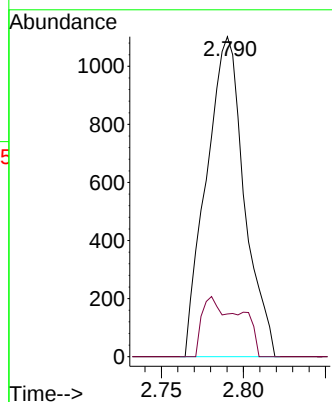
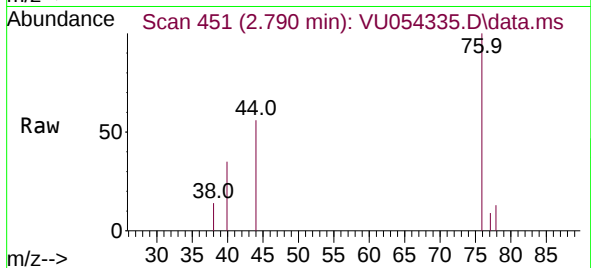
20BR-20230523

Tgt Ion: 76 Resp: 1764

Ion Ratio Lower Upper

76 100

78 13.3 7.3 10.9#



#20

Methylene Chloride

Concen: 0.595 ug/l

RT: 3.041 min Scan# 529

Delta R.T. 0.000 min

Lab File: VU054335.D

Acq: 31 May 2023 14:14

Tgt Ion: 84 Resp: 2165

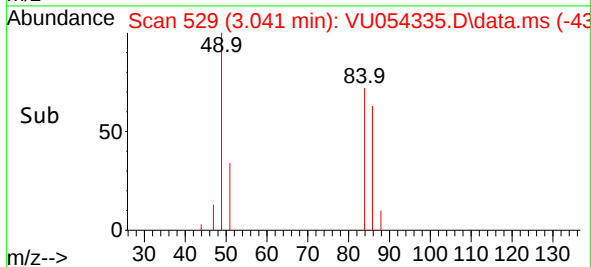
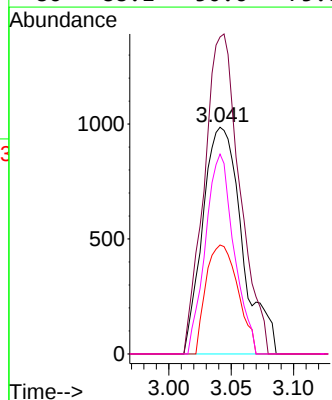
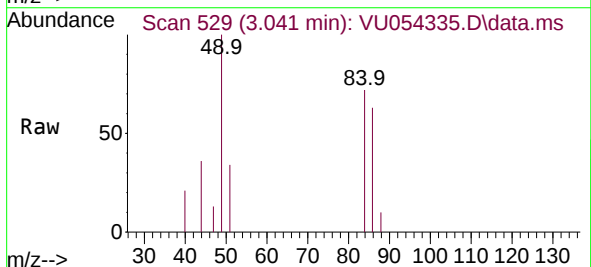
Ion Ratio Lower Upper

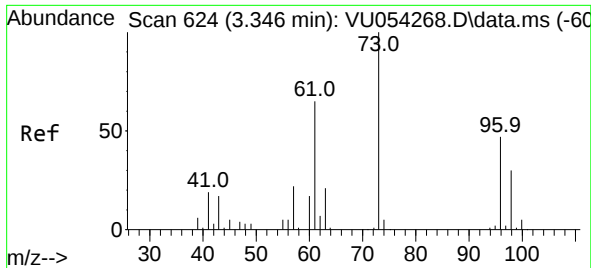
84 100

49 139.9 86.6 129.8#

51 48.1 26.6 40.0#

86 88.1 50.6 75.8#

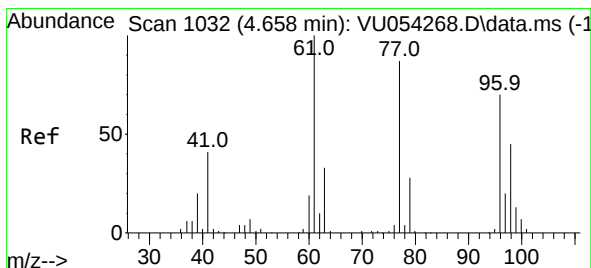
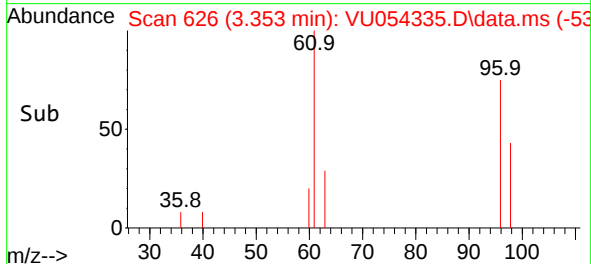
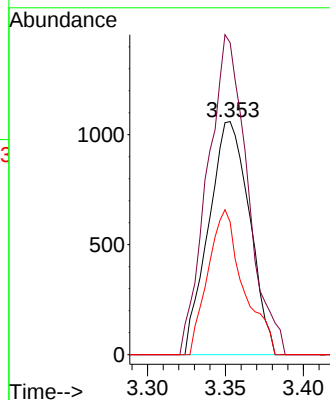
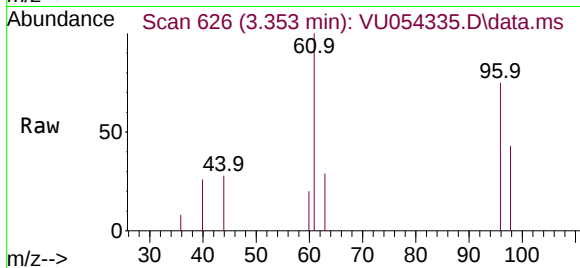




#21
trans-1,2-Dichloroethene
Concen: 0.624 ug/l
RT: 3.353 min Scan# 61
Delta R.T. 0.007 min
Lab File: VU054335.D
Acq: 31 May 2023 14:14

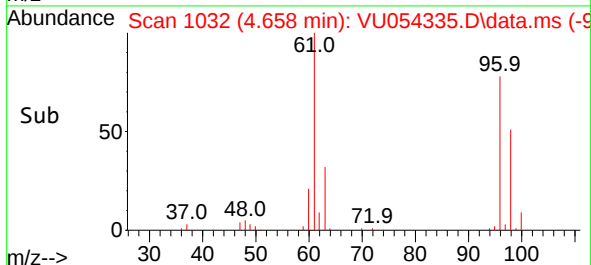
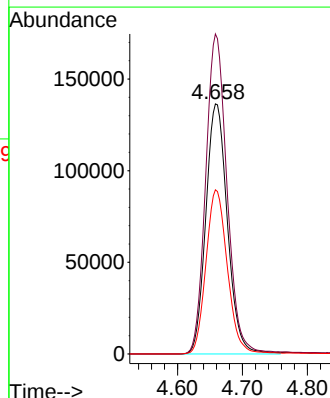
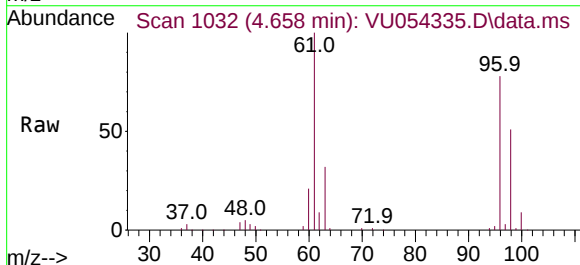
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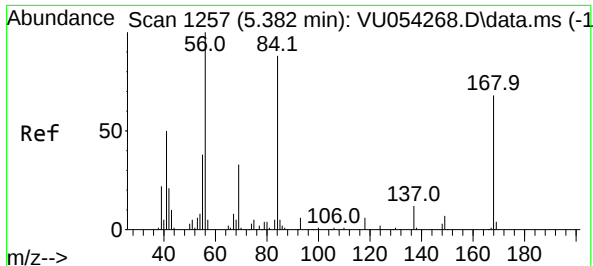
Tgt Ion: 96 Resp: 1930
Ion Ratio Lower Upper
96 100
61 133.9 106.1 159.1
98 57.0 50.8 76.2



#27
cis-1,2-Dichloroethene
Concen: 91.706 ug/l
RT: 4.658 min Scan# 1032
Delta R.T. 0.000 min
Lab File: VU054335.D
Acq: 31 May 2023 14:14

Tgt Ion: 96 Resp: 315383
Ion Ratio Lower Upper
96 100
61 126.7 0.0 271.6
98 65.2 0.0 128.2





#31

Cyclohexane

Concen: 1.105 ug/l

RT: 5.369 min Scan# 1

Delta R.T. -0.013 min

Lab File: VU054335.D

Acq: 31 May 2023 14:14

Instrument :

MSVOA_U

ClientSampleId :

20BR-20230523

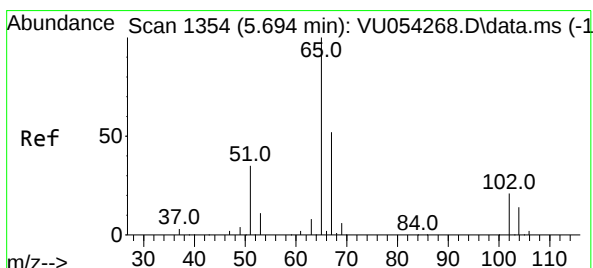
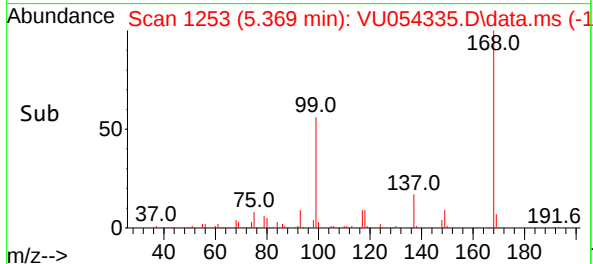
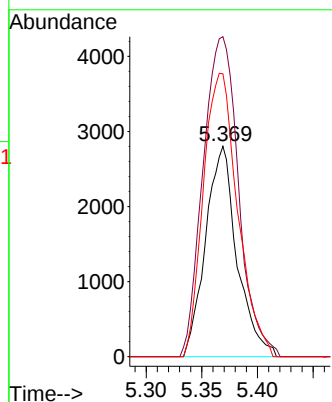
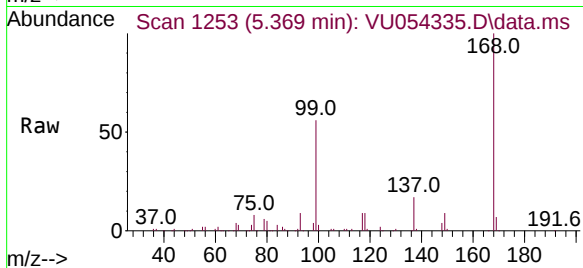
Tgt Ion: 56 Resp: 5490

Ion Ratio Lower Upper

56 100

69 152.1 27.8 41.8#

84 134.4 74.2 111.4#



#33

1,2-Dichloroethane-d4

Concen: 51.943 ug/l

RT: 5.694 min Scan# 1354

Delta R.T. -0.000 min

Lab File: VU054335.D

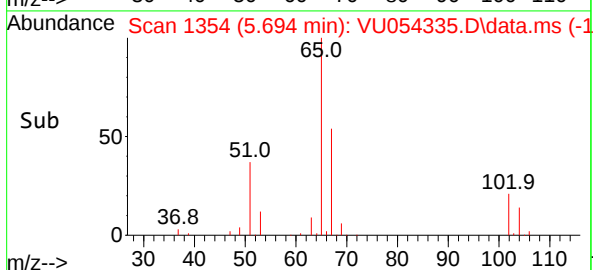
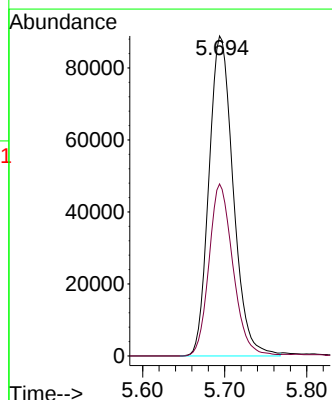
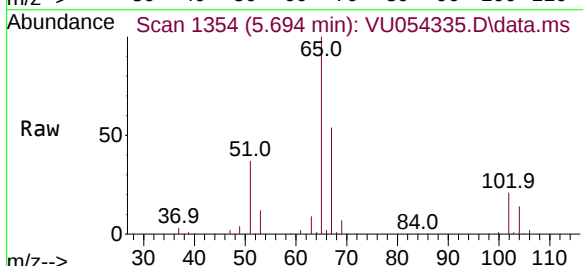
Acq: 31 May 2023 14:14

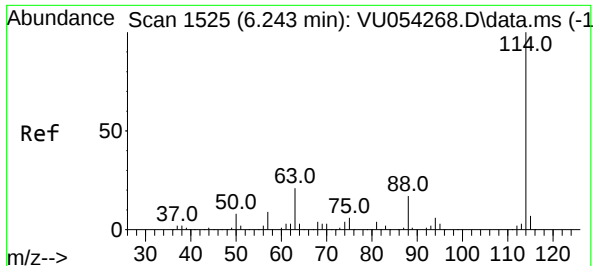
Tgt Ion: 65 Resp: 182793

Ion Ratio Lower Upper

65 100

67 53.0 0.0 108.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.243 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU054335.D

Acq: 31 May 2023 14:14

Instrument :

MSVOA_U

ClientSampleId :

20BR-20230523

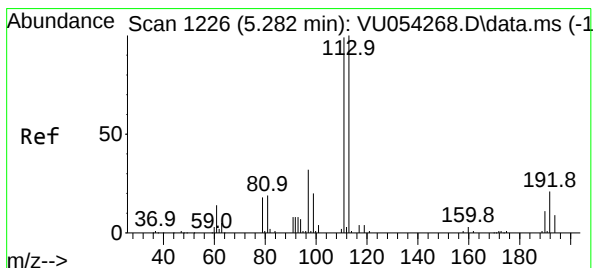
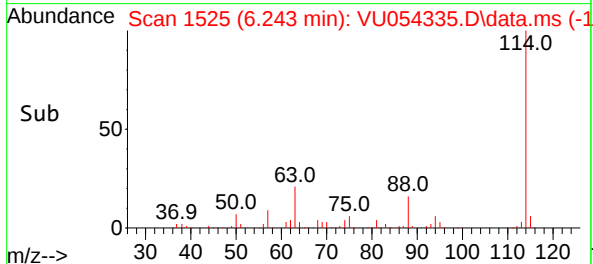
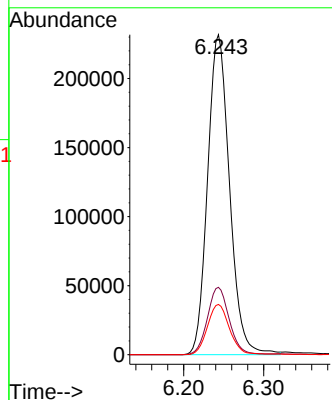
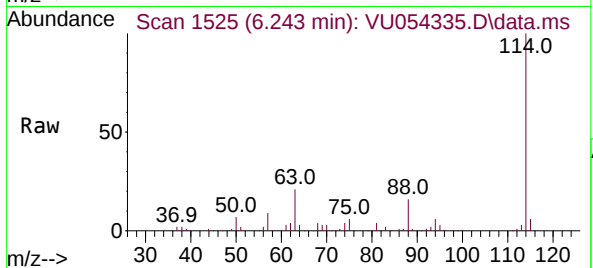
Tgt Ion:114 Resp: 441880

Ion Ratio Lower Upper

114 100

63 21.0 0.0 37.8

88 15.7 0.0 29.2



#35

Dibromofluoromethane

Concen: 52.399 ug/l

RT: 5.282 min Scan# 1226

Delta R.T. 0.000 min

Lab File: VU054335.D

Acq: 31 May 2023 14:14

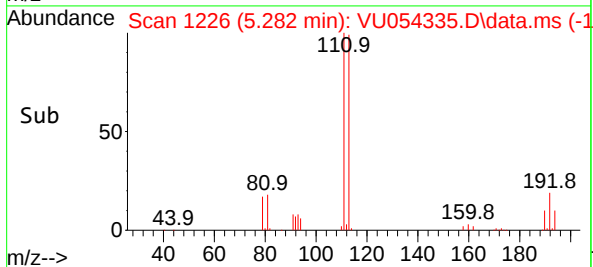
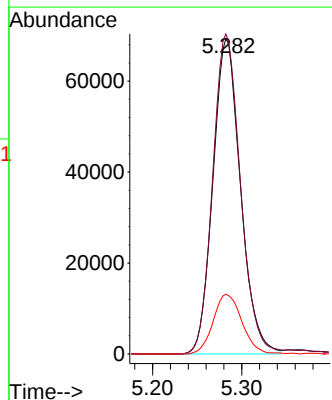
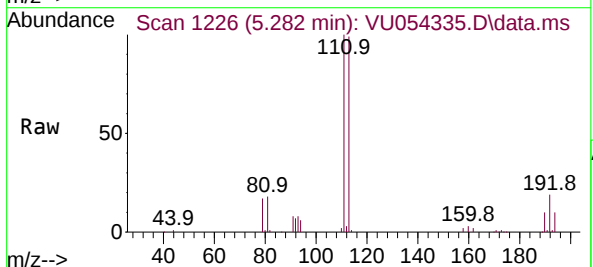
Tgt Ion:113 Resp: 149108

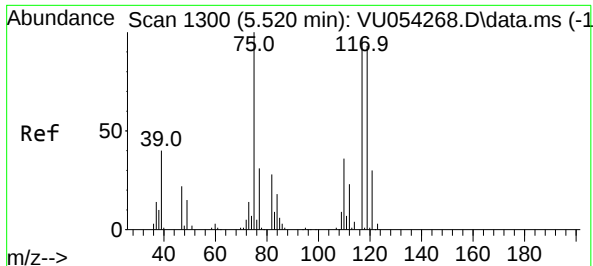
Ion Ratio Lower Upper

113 100

111 102.1 82.1 123.1

192 19.6 18.0 27.0





#36

1,1-Dichloropropene

Concen: 4.498 ug/l

RT: 5.369 min Scan# 11

Delta R.T. -0.151 min

Lab File: VU054335.D

Acq: 31 May 2023 14:14

Instrument :

MSVOA_U

ClientSampleId :

20BR-20230523

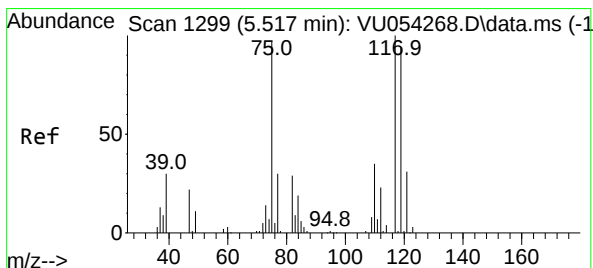
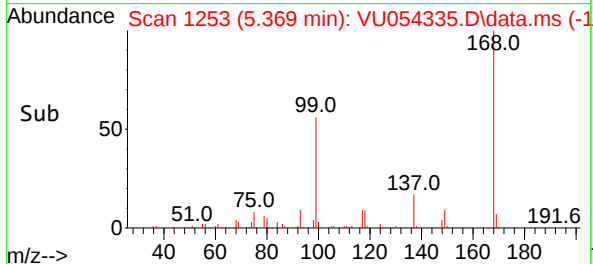
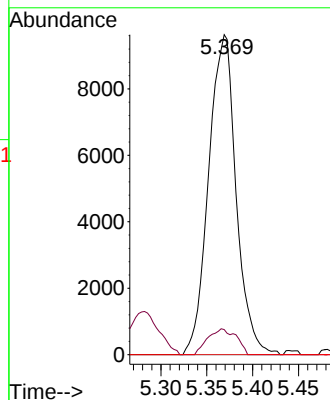
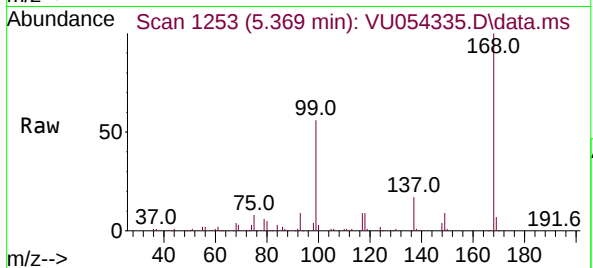
Tgt Ion: 75 Resp: 20106

Ion Ratio Lower Upper

75 100

110 8.3 18.4 55.2#

77 0.0 25.1 37.7#



#38

Carbon Tetrachloride

Concen: 5.654 ug/l

RT: 5.366 min Scan# 1252

Delta R.T. -0.151 min

Lab File: VU054335.D

Acq: 31 May 2023 14:14

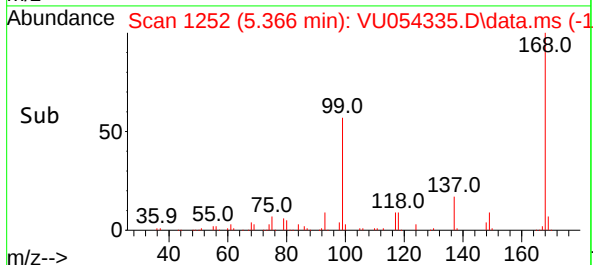
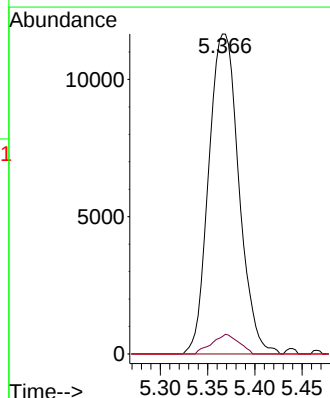
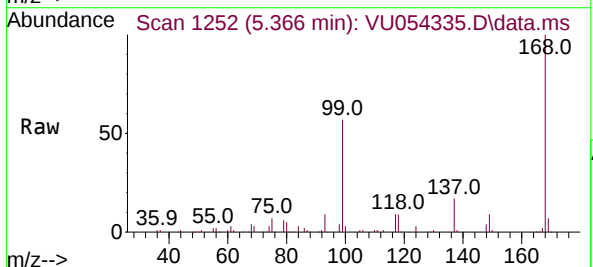
Tgt Ion: 117 Resp: 25865

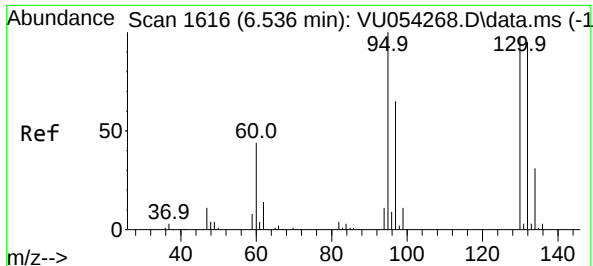
Ion Ratio Lower Upper

117 100

119 5.4 76.8 115.2#

121 0.0 24.7 37.1#

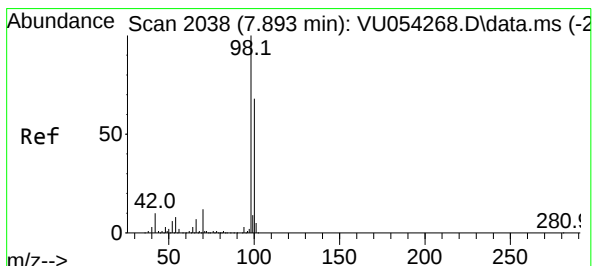
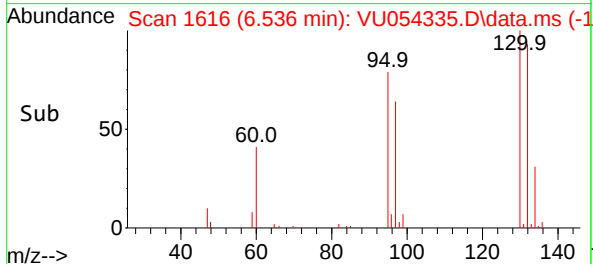
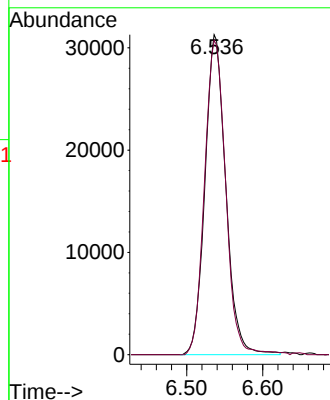
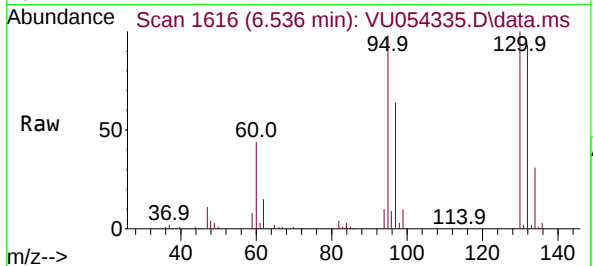




#44
Trichloroethene
Concen: 16.654 ug/l
RT: 6.536 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU054335.D
Acq: 31 May 2023 14:14

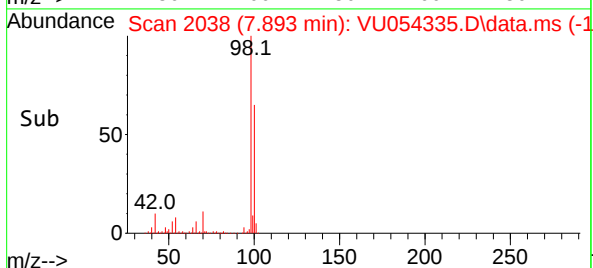
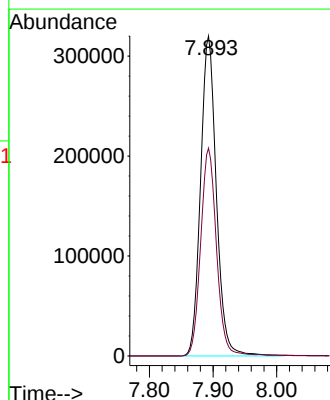
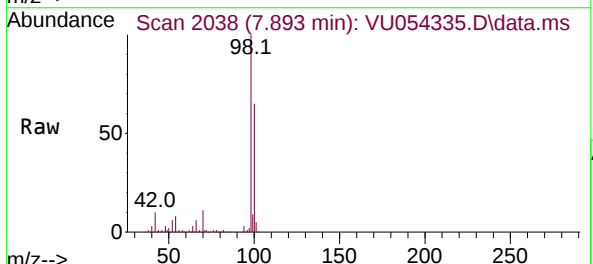
Instrument :
MSVOA_U
ClientSampleId :
20BR-20230523

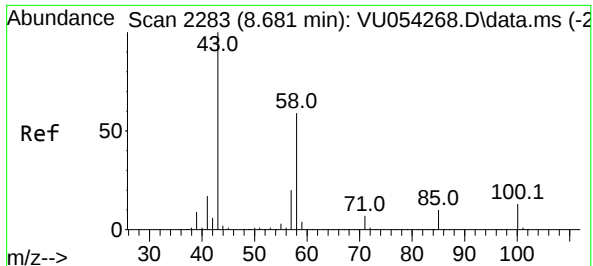
Tgt Ion:130 Resp: 59349
Ion Ratio Lower Upper
130 100
95 98.2 0.0 184.6



#50
Toluene-d8
Concen: 51.064 ug/l
RT: 7.893 min Scan# 2038
Delta R.T. -0.000 min
Lab File: VU054335.D
Acq: 31 May 2023 14:14

Tgt Ion: 98 Resp: 552701
Ion Ratio Lower Upper
98 100
100 65.0 51.7 77.5

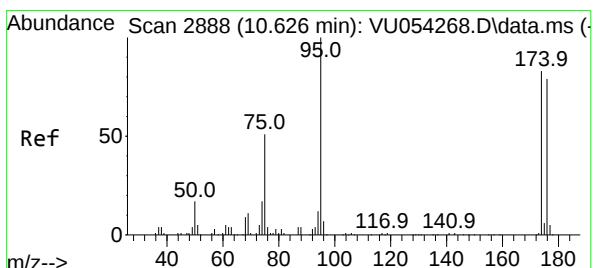
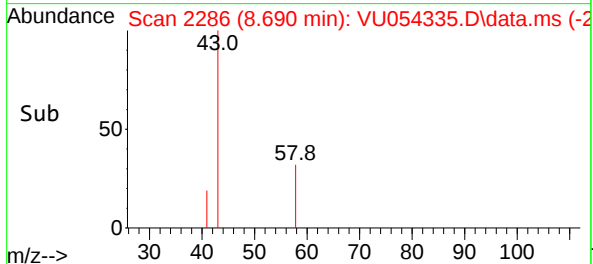
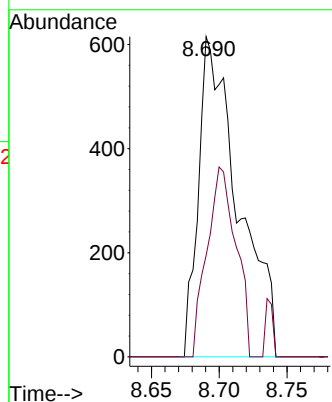
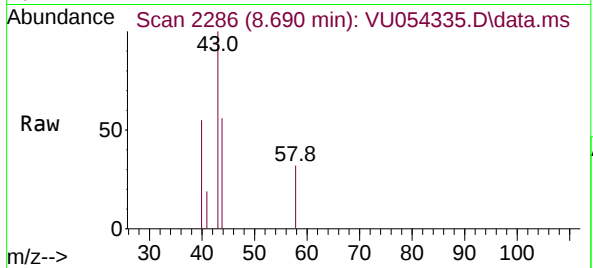




#59
2-Hexanone
Concen: 0.317 ug/l
RT: 8.690 min Scan# 21
Delta R.T. 0.009 min
Lab File: VU054335.D
Acq: 31 May 2023 14:14

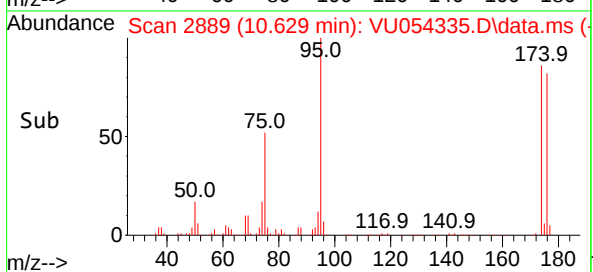
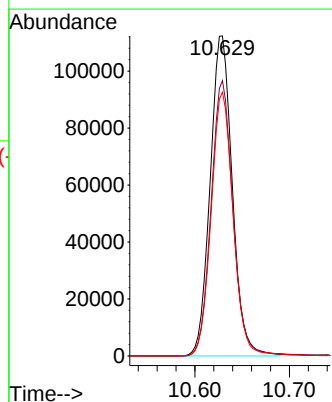
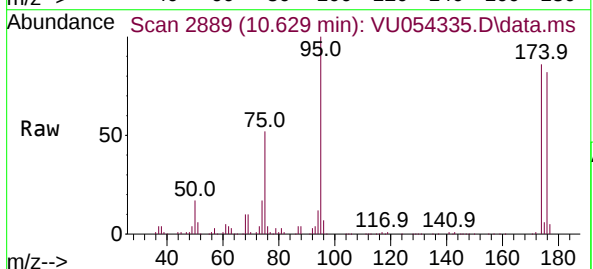
Instrument :
MSVOA_U
ClientSampleId :
20BR-20230523

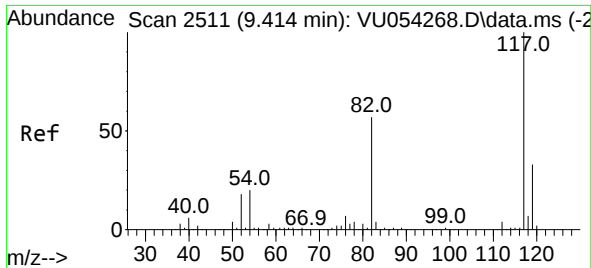
Tgt Ion: 43 Resp: 1257
Ion Ratio Lower Upper
43 100
58 43.0 30.3 90.8



#62
4-Bromofluorobenzene
Concen: 43.601 ug/l
RT: 10.629 min Scan# 2889
Delta R.T. 0.003 min
Lab File: VU054335.D
Acq: 31 May 2023 14:14

Tgt Ion: 95 Resp: 182985
Ion Ratio Lower Upper
95 100
174 85.1 0.0 182.0
176 82.0 0.0 177.8

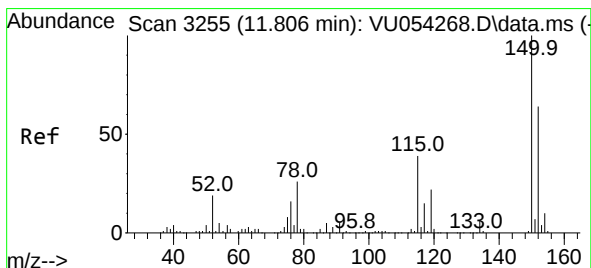
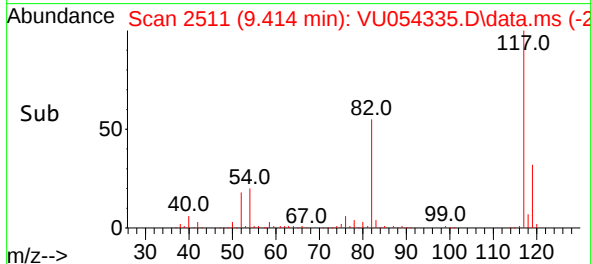
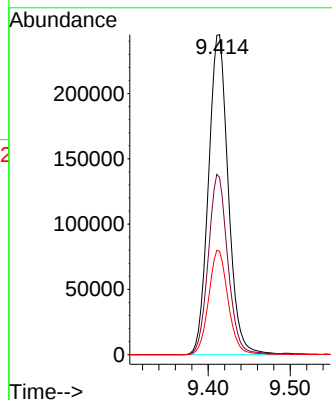
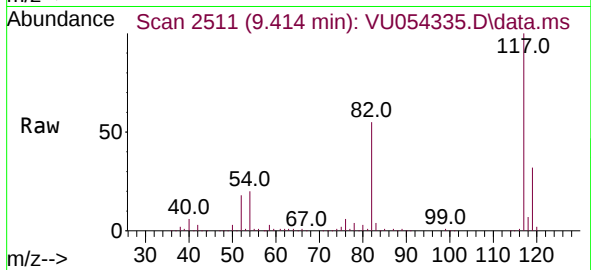




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.414 min Scan# 2511
Delta R.T. -0.000 min
Lab File: VU054335.D
Acq: 31 May 2023 14:14

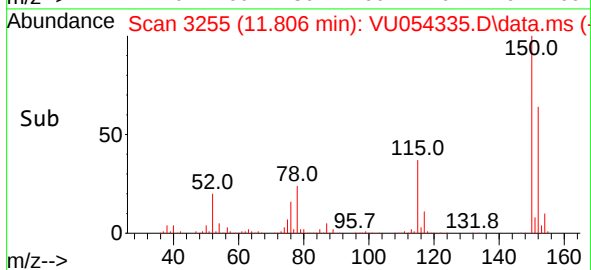
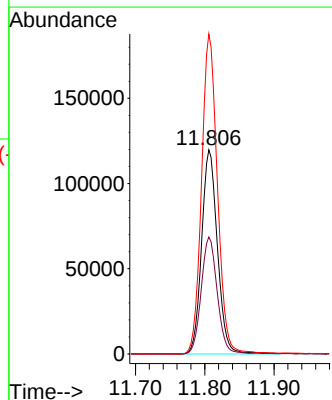
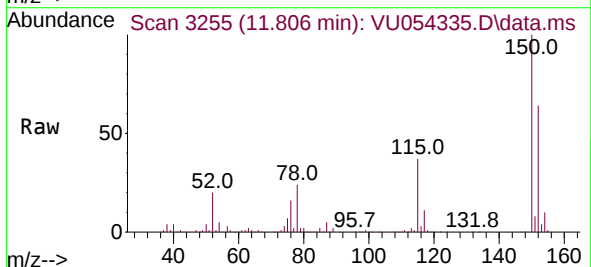
Instrument :
MSVOA_U
ClientSampleId :
20BR-20230523

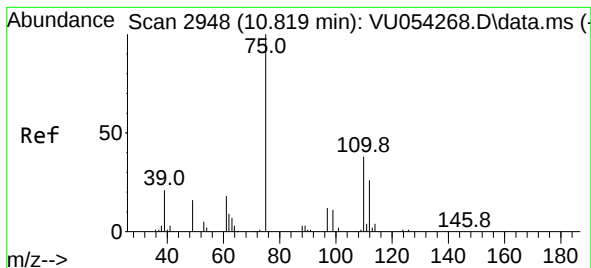
Tgt Ion:117 Resp: 411617
Ion Ratio Lower Upper
117 100
82 55.4 41.7 62.5
119 32.3 25.7 38.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.806 min Scan# 3255
Delta R.T. -0.000 min
Lab File: VU054335.D
Acq: 31 May 2023 14:14

Tgt Ion:152 Resp: 190100
Ion Ratio Lower Upper
152 100
115 57.8 37.0 110.9
150 157.1 0.0 342.2





#76

1,2,3-Trichloropropane

Concen: 16.953 ug/l

RT: 10.626 min Scan# 2888

Delta R.T. -0.193 min

Lab File: VU054335.D

Acq: 31 May 2023 14:14

Instrument :

MSVOA_U

ClientSampleId :

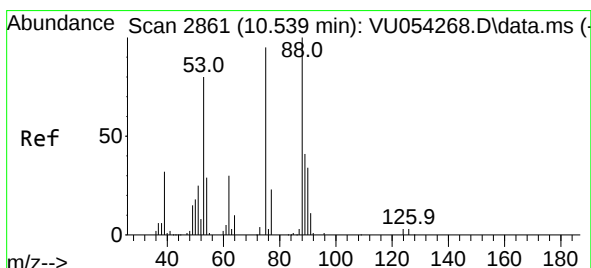
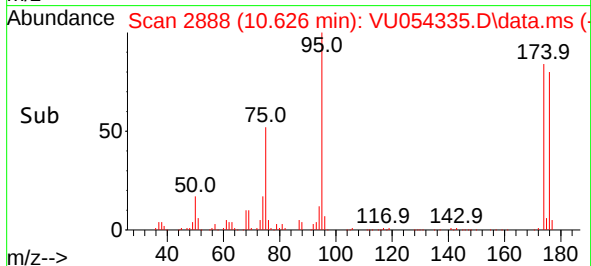
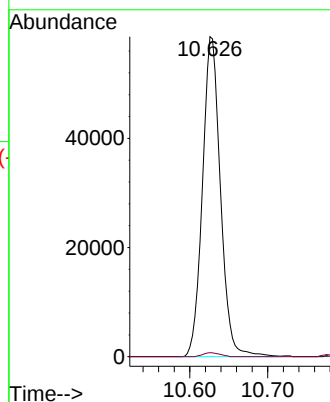
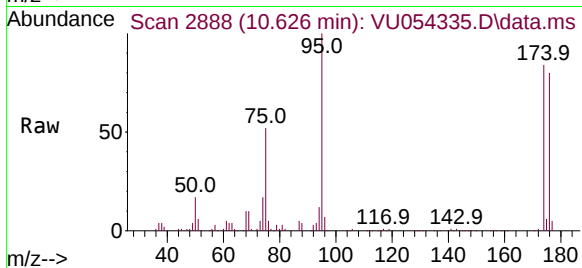
20BR-20230523

Tgt Ion: 75 Resp: 94059

Ion Ratio Lower Upper

75 100

77 1.2 15.8 47.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 64.556 ug/l

RT: 10.626 min Scan# 2888

Delta R.T. 0.087 min

Lab File: VU054335.D

Acq: 31 May 2023 14:14

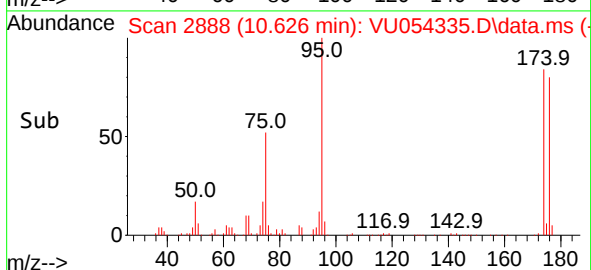
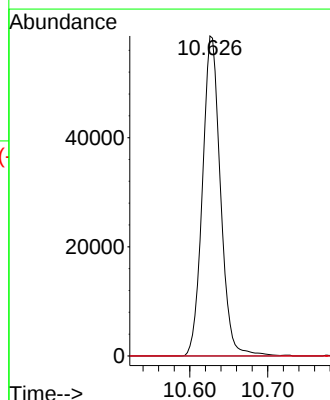
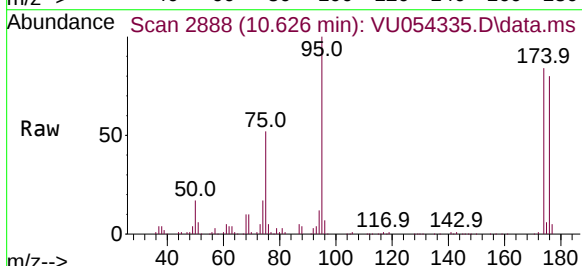
Tgt Ion: 75 Resp: 94059

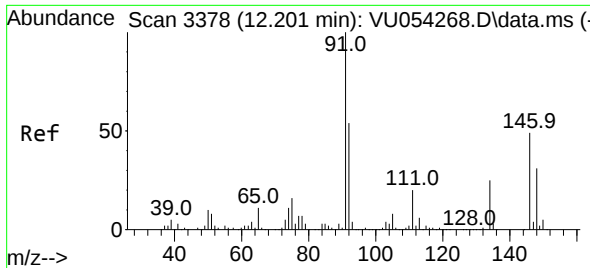
Ion Ratio Lower Upper

75 100

53 0.0 69.2 103.8#

89 0.0 37.0 55.6#

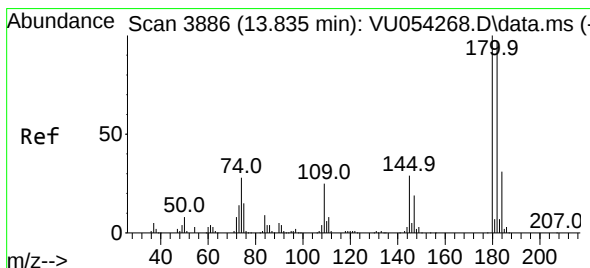
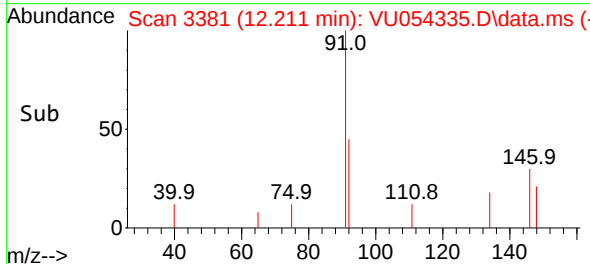
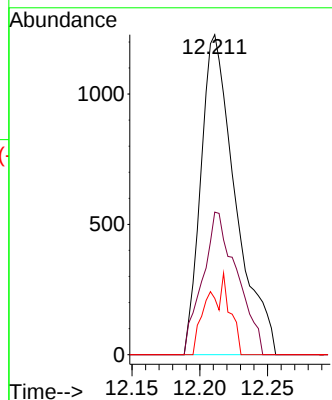
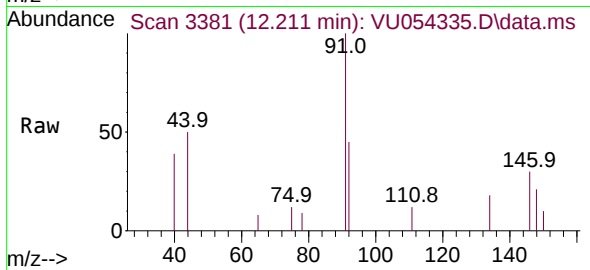




#89
n-Butylbenzene
Concen: 0.216 ug/l
RT: 12.211 min Scan# 31
Delta R.T. 0.010 min
Lab File: VU054335.D
Acq: 31 May 2023 14:14

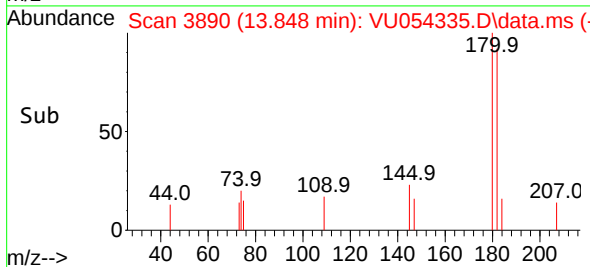
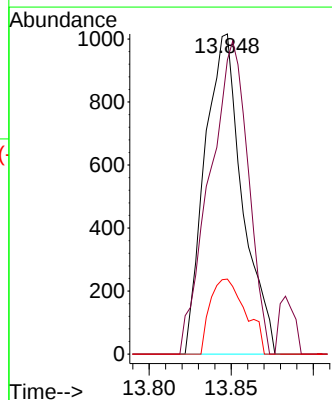
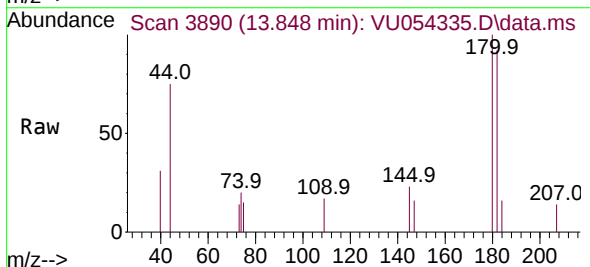
Instrument :
MSVOA_U
ClientSampleId :
20BR-20230523

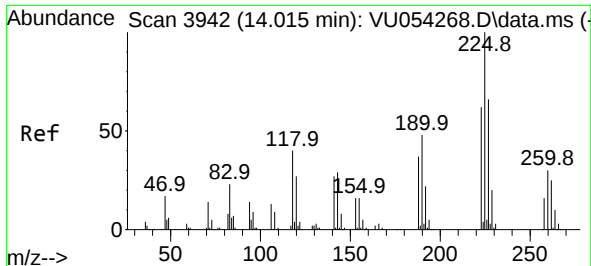
Tgt Ion: 91 Resp: 2171
Ion Ratio Lower Upper
91 100
92 44.6 26.2 78.6
134 9.8 13.5 40.4#



#93
1,2,4-Trichlorobenzene
Concen: 2.001 ug/l
RT: 13.848 min Scan# 3890
Delta R.T. 0.013 min
Lab File: VU054335.D
Acq: 31 May 2023 14:14

Tgt Ion:180 Resp: 1615
Ion Ratio Lower Upper
180 100
182 100.3 47.9 143.6
145 22.1 14.0 41.9

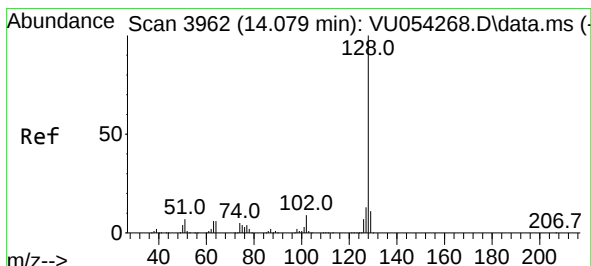
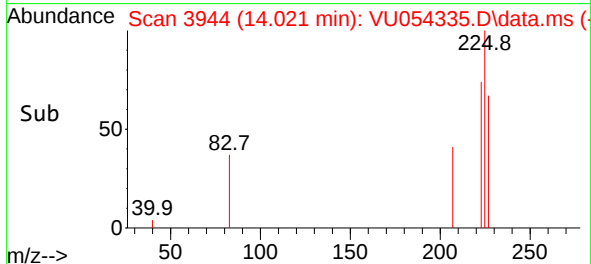
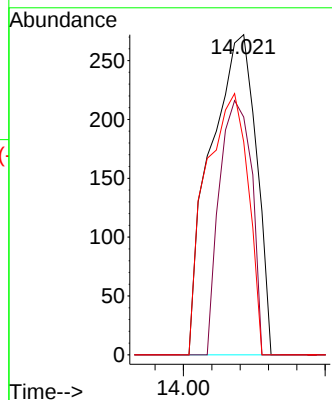
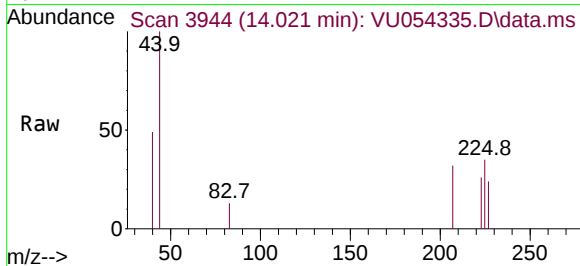




#94
Hexachlorobutadiene
Concen: 0.968 ug/l
RT: 14.021 min Scan# 3944
Delta R.T. 0.006 min
Lab File: VU054335.D
Acq: 31 May 2023 14:14

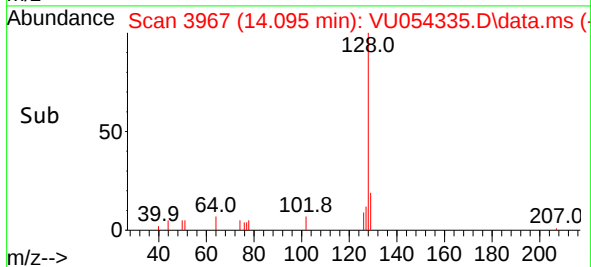
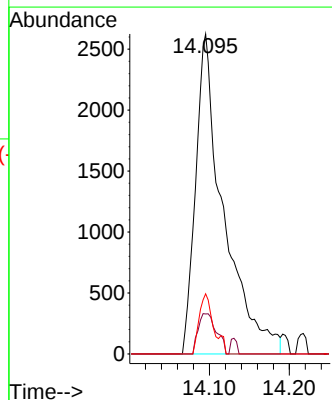
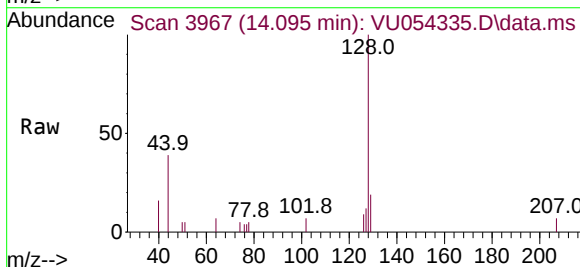
Instrument :
MSVOA_U
ClientSampleId :
20BR-20230523

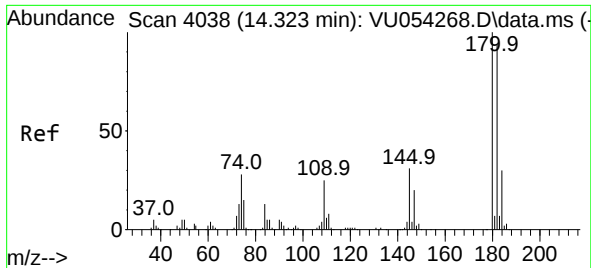
Tgt Ion:	225	Resp:	304
Ion	Ratio	Lower	Upper
225	100		
223	55.9	31.3	93.9
227	75.7	32.0	96.2



#95
Naphthalene
Concen: 2.425 ug/l
RT: 14.095 min Scan# 3967
Delta R.T. 0.016 min
Lab File: VU054335.D
Acq: 31 May 2023 14:14

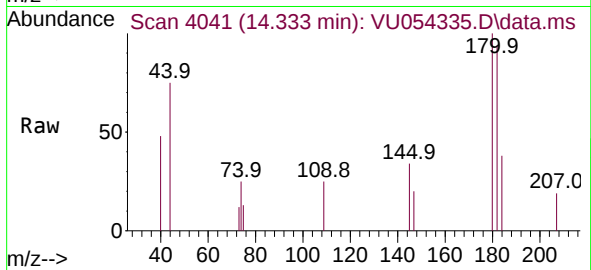
Tgt Ion:	128	Resp:	6349
Ion	Ratio	Lower	Upper
128	100		
127	8.3	10.3	15.5#
129	9.7	8.6	13.0





#96
 1,2,3-Trichlorobenzene
 Concen: 1.610 ug/l
 RT: 14.333 min Scan# 40
 Delta R.T. 0.010 min
 Lab File: VU054335.D
 Acq: 31 May 2023 14:14

Instrument :
 MSVOA_U
 ClientSampleId :
 20BR-20230523



Tgt Ion:180 Resp: 1581
 Ion Ratio Lower Upper
 180 100
 182 90.1 48.4 145.0
 145 15.0 14.8 44.4

