

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU101122\
 Data File : VU051376.D
 Acq On : 11 Oct 2022 16:52
 Operator : JC/MD
 Sample : N5041-05DL 4X
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BGS21DL

Quant Time: Oct 11 23:38:47 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR100722WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Tue Oct 11 23:36:07 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.253	114	943	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.423	117	971	5.000	ug/L	# 0.00
58) 1,4-Dichlorobenzene-d4	11.819	152	1215	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.813	65	20	0.263	ug/L	0.22
Spiked Amount	5.000	Range	40 - 130	Recovery	=	5.200%#
7) Chloroethane-d5	1.768	69	42	0.643	ug/L	-0.14
Spiked Amount	5.000	Range	65 - 130	Recovery	=	12.800%#
11) 1,1-Dichloroethene-d2	0.000	65	0	0.000	ug/L	
Spiked Amount	5.000	Range	60 - 125	Recovery	=	0.000%#
20) 2-Butanone-d5	4.639	46	165	9.852	ug/L	0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	19.700%#
24) Chloroform-d	5.070	84	21	0.148	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	3.000%#
26) 1,2-Dichloroethane-d4	5.700	65	965	13.195	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	263.800%#
32) Benzene-d6	5.729	84	122	0.457	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	9.200%#
36) 1,2-Dichloropropane-d6	6.706	67	79	0.871	ug/L	0.02
Spiked Amount	5.000	Range	60 - 140	Recovery	=	17.400%#
41) Toluene-d8	7.896	98	795	3.327	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	66.600%#
43) trans-1,3-Dichloroprop...	0.000	79	0	0.000	ug/L	
Spiked Amount	5.000	Range	55 - 130	Recovery	=	0.000%#
46) 2-Hexanone-d5	8.398	63	246	24.490	ug/L	-0.23
Spiked Amount	50.000	Range	45 - 130	Recovery	=	48.980%
56) 1,1,2,2-Tetrachloroeth...	10.758	84	223	3.077	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	61.600%#
66) 1,2-Dichlorobenzene-d4	12.198	152	731	3.462	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	69.200%#
Target Compounds						
					Qvalue	
3) Chloromethane	1.517	50	842	7.795	ug/L	84
6) Bromomethane	1.935	94	62	1.075	ug/L	# 3
8) Chloroethane	1.941	64	197	2.916	ug/L	# 43
12) 1,1-Dichloroethene	2.575	96	64	0.931	ug/L	# 1
13) Acetone	2.649	43	629	50.076	ug/L	88
14) Carbon disulfide	2.784	76	366	1.738	ug/L	# 76
15) Methyl Acetate	2.787	43	22	0.720	ug/L	# 50
16) Methylene chloride	3.044	84	12142	119.575	ug/L	93
17) Methyl tert-butyl Ether	3.362	73	2476	15.718	ug/L	# 87
18) trans-1,2-Dichloroethene	3.346	96	39	0.539	ug/L	# 53
22) cis-1,2-Dichloroethene	4.665	96	88965	1110.149	ug/L	96
25) Chloroform	5.089	83	209	1.340	ug/L	99
27) 1,2-Dichloroethane	5.816	62	243	2.601	ug/L	# 74
33) Benzene	5.771	78	21	0.065	ug/L	100
34) Trichloroethene	6.546	95	7050	87.182	ug/L	92
35) Methylcyclohexane	6.546	83	93	0.912	ug/L	# 1
42) Toluene	7.970	91	1091	3.171	ug/L	97
44) trans-1,3-Dichloropropene	8.160	75	25	0.271	ug/L	# 43
45) 1,1,2-Trichloroethane	8.404	97	1459	23.388	ug/L	92

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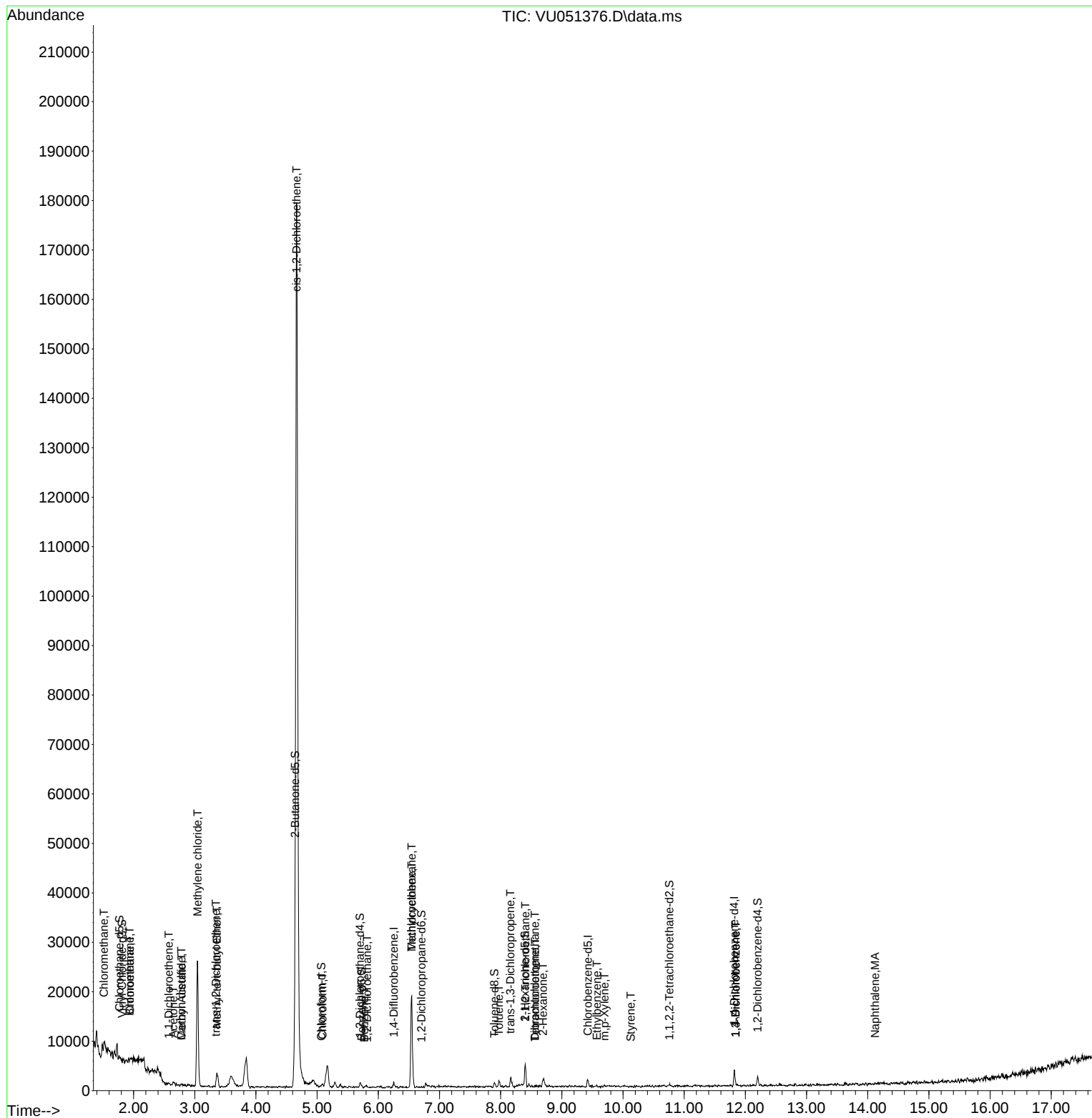
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) Tetrachloroethene	8.565	164	20	0.336	ug/L #	1
48) 2-Hexanone	8.690	43	1951	56.212	ug/L #	58
49) Dibromochloromethane	8.558	129	19	0.271	ug/L #	11
52) Ethylbenzene	9.571	91	72	0.233	ug/L #	45
53) m,p-Xylene	9.697	106	22	0.183	ug/L #	54
55) Styrene	10.127	104	21	0.108	ug/L #	30
64) 1,3-Dichlorobenzene	11.841	146	78	0.205	ug/L #	25
65) 1,4-Dichlorobenzene	11.841	146	78	0.208	ug/L #	25
71) Naphthalene	14.118	128	73	0.211	ug/L #	68

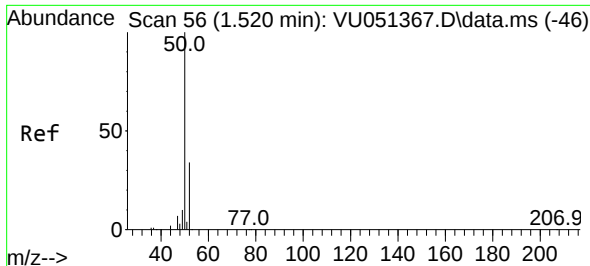
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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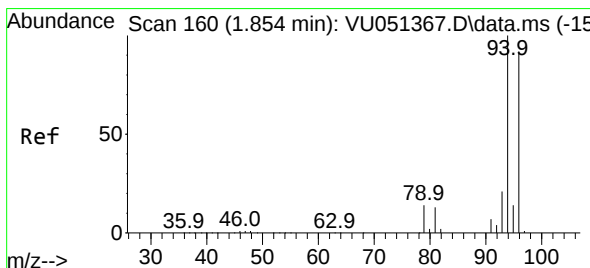
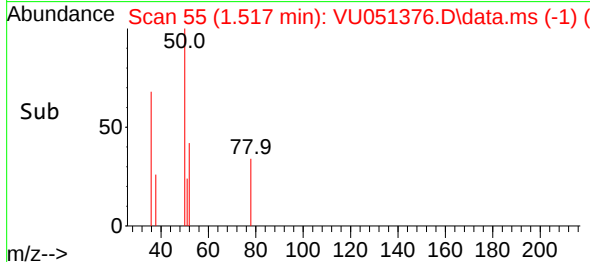
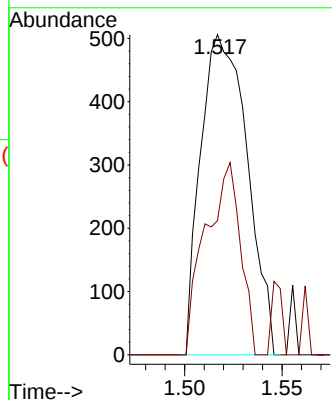
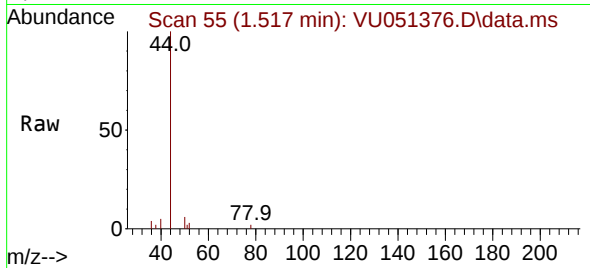




#3
Chloromethane
Concen: 7.795 ug/L
RT: 1.517 min Scan# 51
Delta R.T. -0.003 min
Lab File: VU051376.D
Acq: 11 Oct 2022 16:52

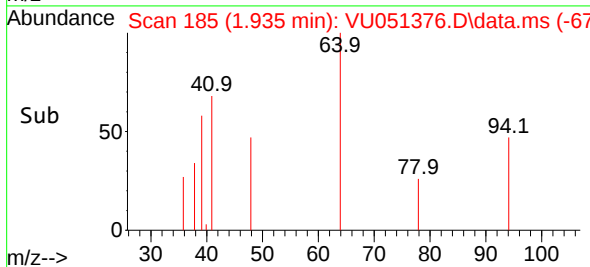
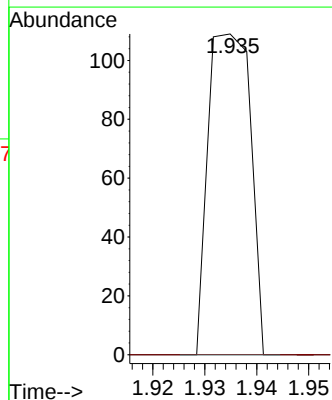
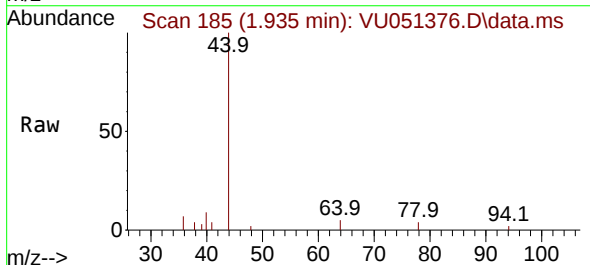
Instrument :
MSVOA_U
ClientSampleId :
BGS21DL

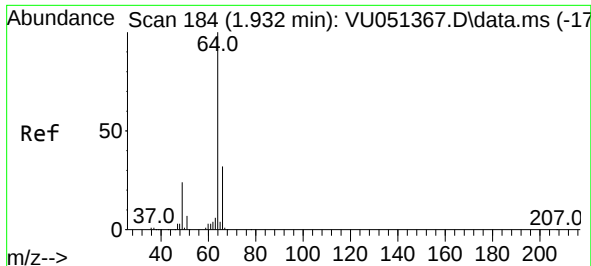
Tgt Ion: 50 Resp: 842
Ion Ratio Lower Upper
50 100
52 41.9 22.9 42.5



#6
Bromomethane
Concen: 1.075 ug/L
RT: 1.935 min Scan# 185
Delta R.T. 0.080 min
Lab File: VU051376.D
Acq: 11 Oct 2022 16:52

Tgt Ion: 94 Resp: 62
Ion Ratio Lower Upper
94 100
96 0.0 64.9 120.5#

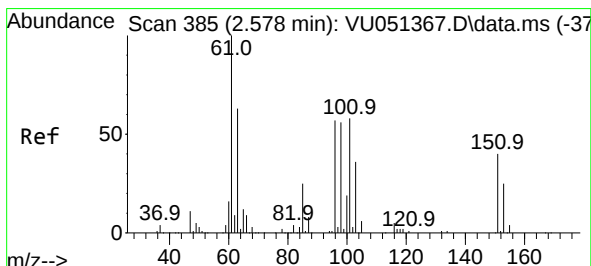
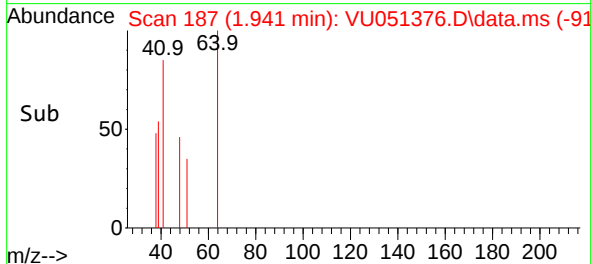
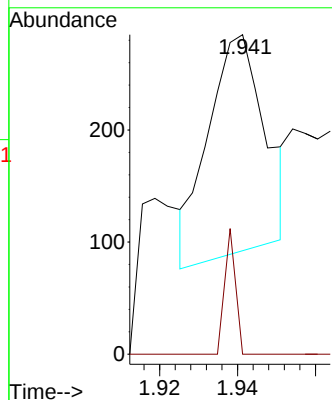
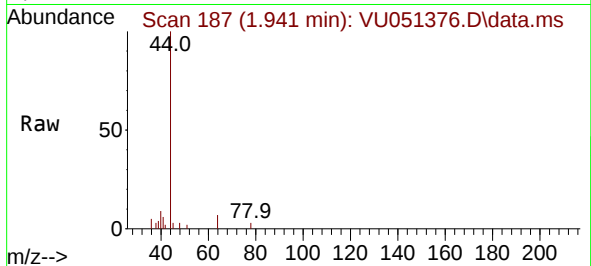




#8
Chloroethane
Concen: 2.916 ug/L
RT: 1.941 min Scan# 11
Delta R.T. 0.010 min
Lab File: VU051376.D
Acq: 11 Oct 2022 16:52

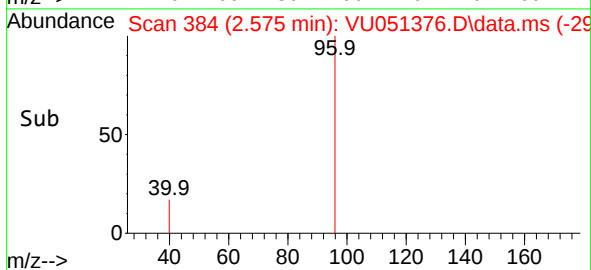
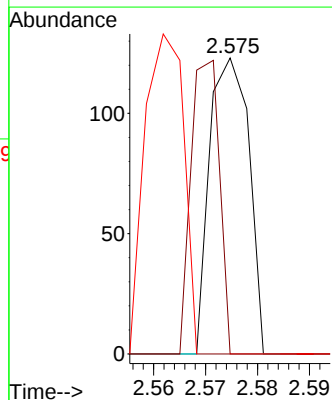
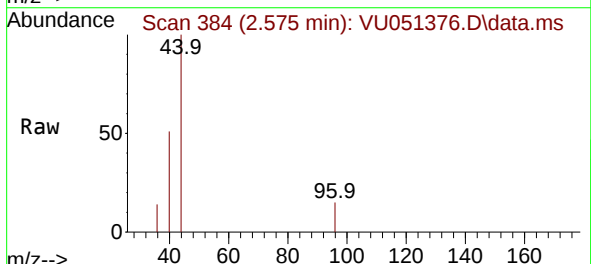
Instrument :
MSVOA_U
ClientSampleId :
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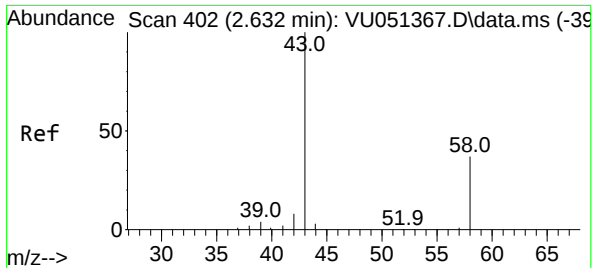
Tgt Ion: 64 Resp: 197
Ion Ratio Lower Upper
64 100
66 0.0 22.3 41.3#



#12
1,1-Dichloroethene
Concen: 0.931 ug/L
RT: 2.575 min Scan# 384
Delta R.T. -0.003 min
Lab File: VU051376.D
Acq: 11 Oct 2022 16:52

Tgt Ion: 96 Resp: 64
Ion Ratio Lower Upper
96 100
61 0.0 117.6 218.4#
63 0.0 85.2 158.2#





#13

Acetone

Concen: 50.076 ug/L

RT: 2.649 min Scan# 407

Delta R.T. 0.016 min

Lab File: VU051376.D

Acq: 11 Oct 2022 16:52

Instrument :

MSVOA_U

ClientSampleId :

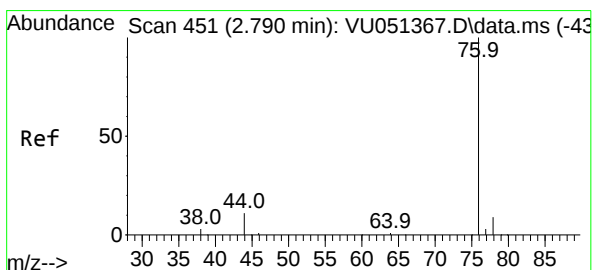
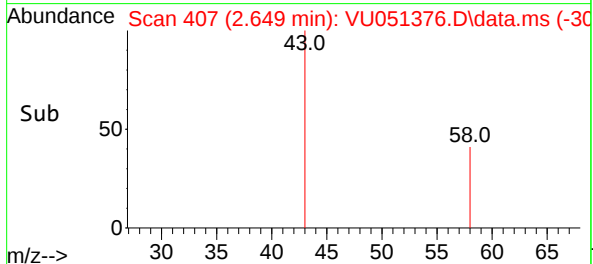
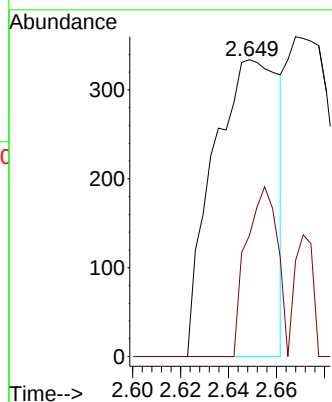
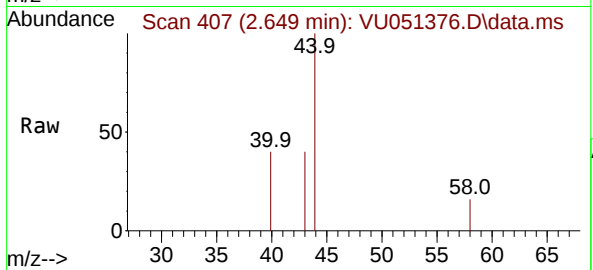
BGS21DL

Tgt Ion: 43 Resp: 629

Ion Ratio Lower Upper

43 100

58 27.3 0.0 68.8



#14

Carbon disulfide

Concen: 1.738 ug/L

RT: 2.784 min Scan# 449

Delta R.T. -0.006 min

Lab File: VU051376.D

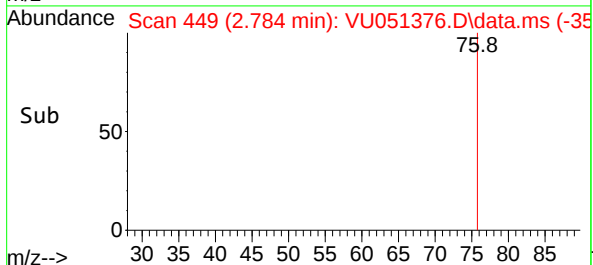
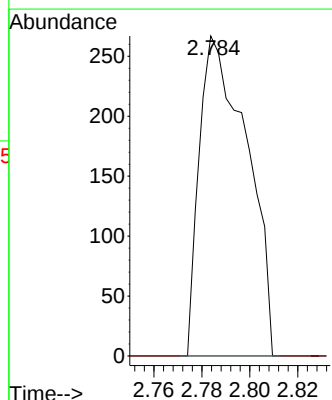
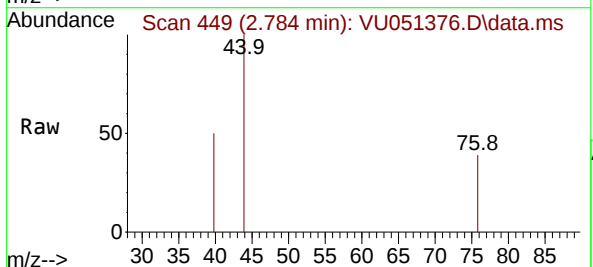
Acq: 11 Oct 2022 16:52

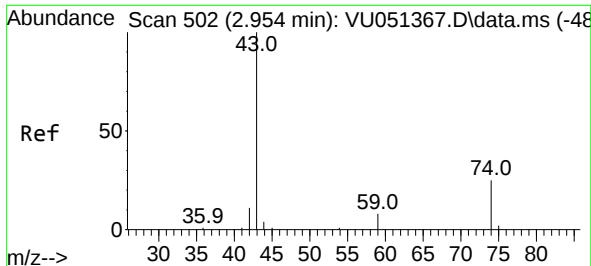
Tgt Ion: 76 Resp: 366

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.4#

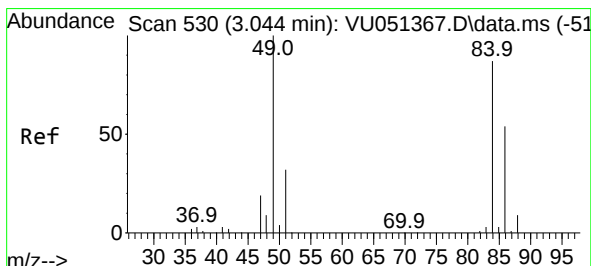
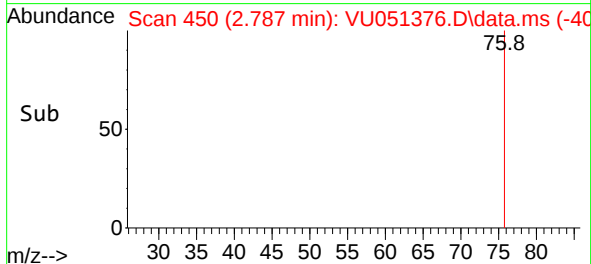
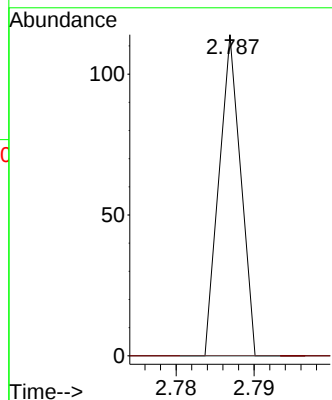
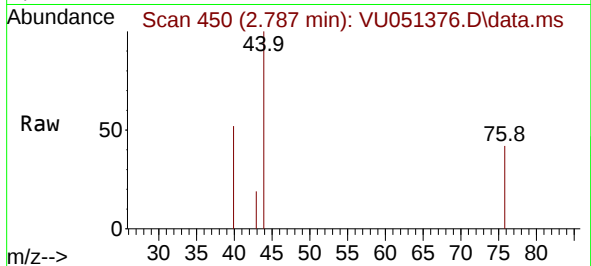




#15
Methyl Acetate
Concen: 0.720 ug/L
RT: 2.787 min Scan# 41
Delta R.T. -0.167 min
Lab File: VU051376.D
Acq: 11 Oct 2022 16:52

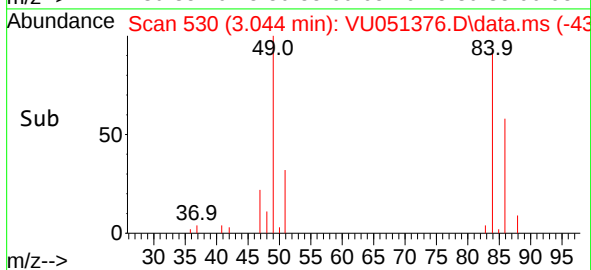
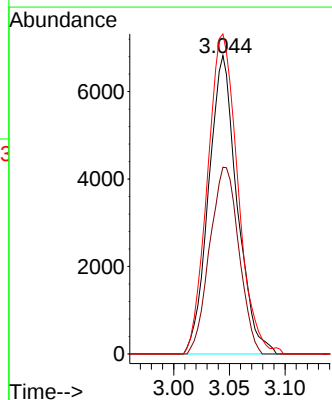
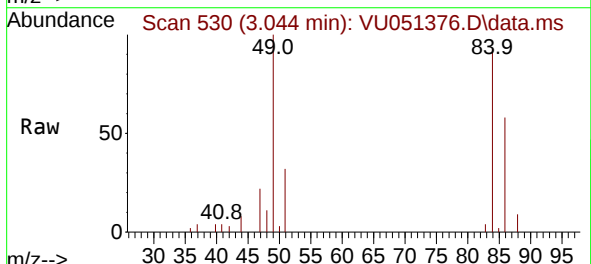
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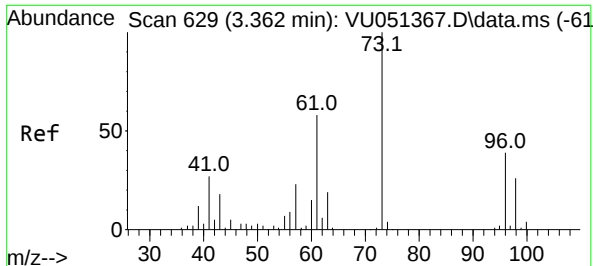
Tgt Ion: 43 Resp: 22
Ion Ratio Lower Upper
43 100
74 0.0 20.0 30.0#



#16
Methylene chloride
Concen: 119.575 ug/L
RT: 3.044 min Scan# 530
Delta R.T. 0.000 min
Lab File: VU051376.D
Acq: 11 Oct 2022 16:52

Tgt Ion: 84 Resp: 12142
Ion Ratio Lower Upper
84 100
86 62.6 46.5 86.3
49 107.3 81.3 151.1

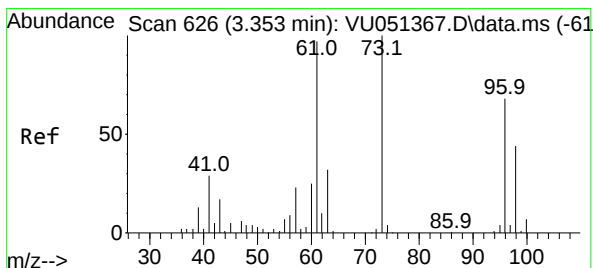
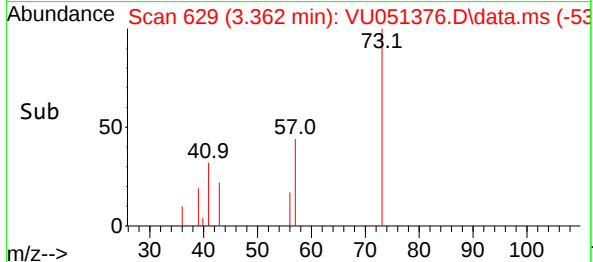
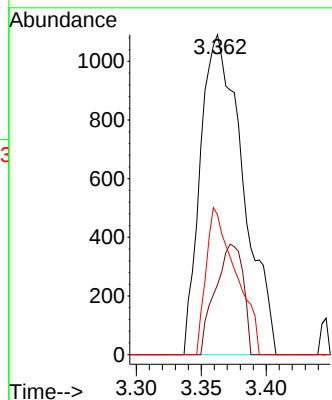
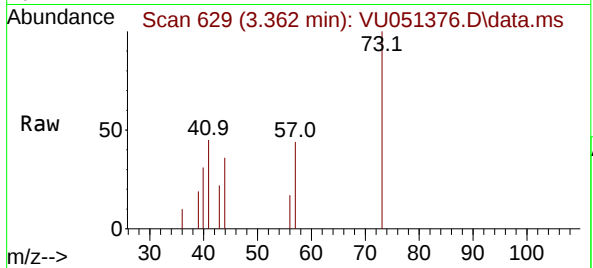




#17
Methyl tert-butyl Ether
Concen: 15.718 ug/L
RT: 3.362 min Scan# 61
Delta R.T. 0.000 min
Lab File: VU051376.D
Acq: 11 Oct 2022 16:52

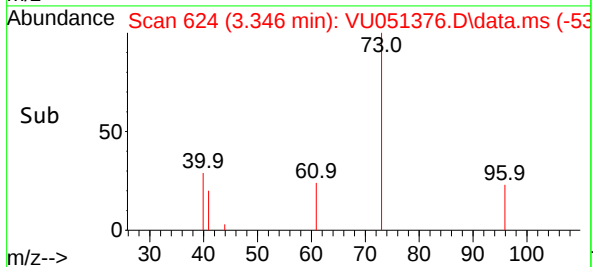
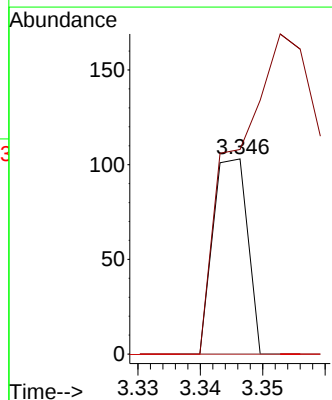
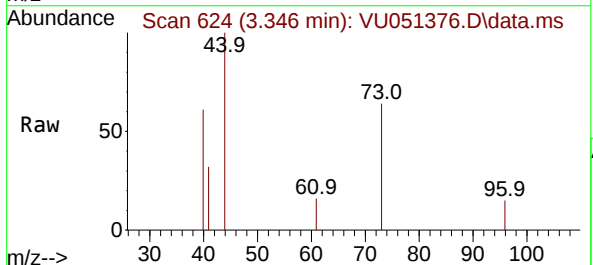
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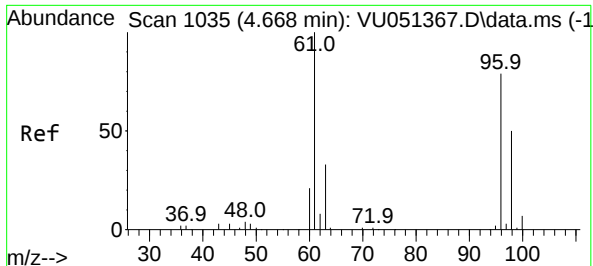
Tgt Ion: 73 Resp: 2476
Ion Ratio Lower Upper
73 100
43 22.6 15.4 23.0
57 32.3 18.9 28.3#



#18
trans-1,2-Dichloroethene
Concen: 0.539 ug/L
RT: 3.346 min Scan# 624
Delta R.T. -0.006 min
Lab File: VU051376.D
Acq: 11 Oct 2022 16:52

Tgt Ion: 96 Resp: 39
Ion Ratio Lower Upper
96 100
61 104.9 101.4 188.2
98 0.0 44.9 83.5#





#22

cis-1,2-Dichloroethene

Concen: 1110.149 ug/L

RT: 4.665 min Scan# 1034

Delta R.T. -0.003 min

Lab File: VU051376.D

Acq: 11 Oct 2022 16:52

Instrument :

MSVOA_U

ClientSampleId :

BGS21DL

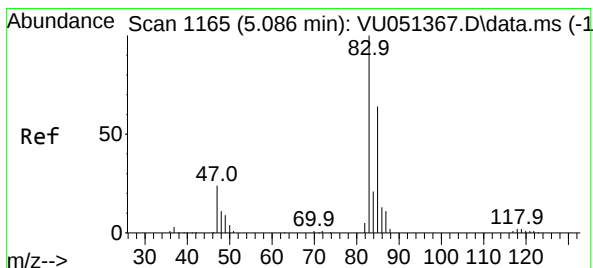
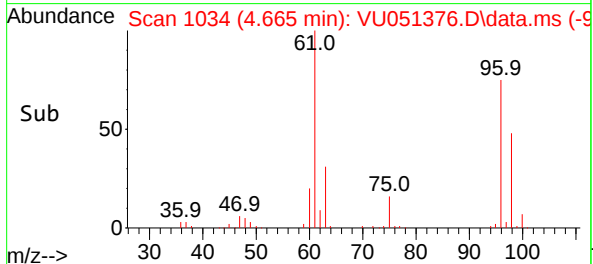
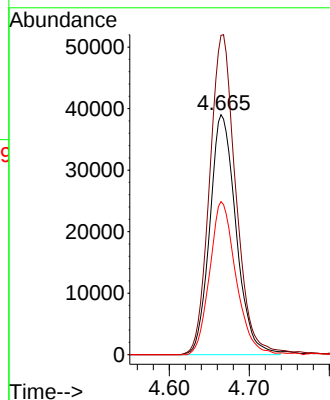
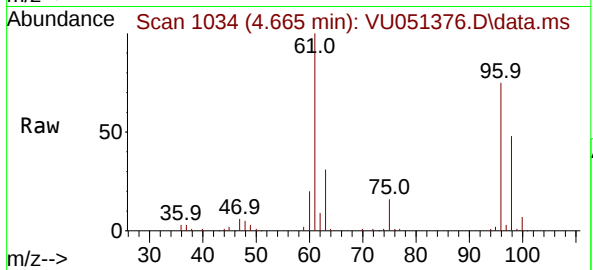
Tgt Ion: 96 Resp: 88965

Ion Ratio Lower Upper

96 100

61 133.1 90.6 168.2

98 63.8 47.5 88.3



#25

Chloroform

Concen: 1.340 ug/L

RT: 5.089 min Scan# 1166

Delta R.T. 0.003 min

Lab File: VU051376.D

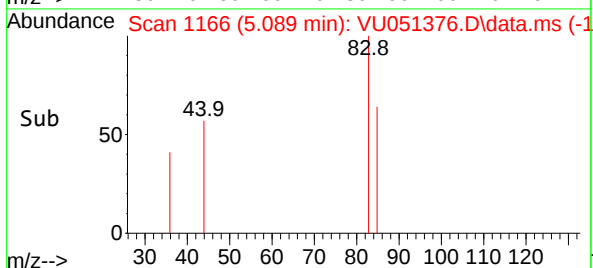
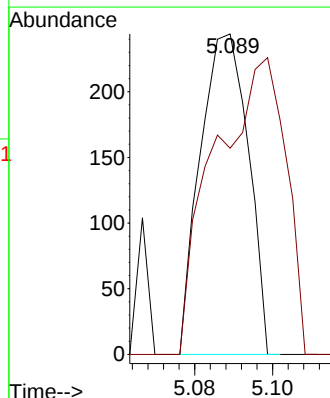
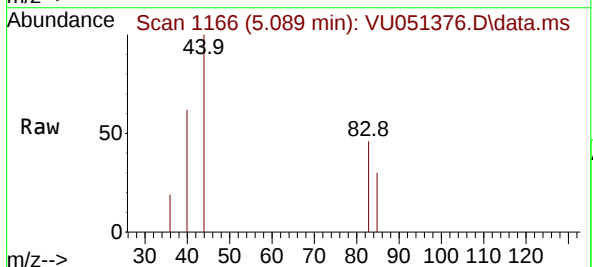
Acq: 11 Oct 2022 16:52

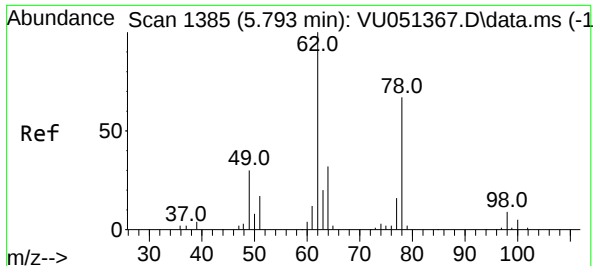
Tgt Ion: 83 Resp: 209

Ion Ratio Lower Upper

83 100

85 64.3 45.6 84.6

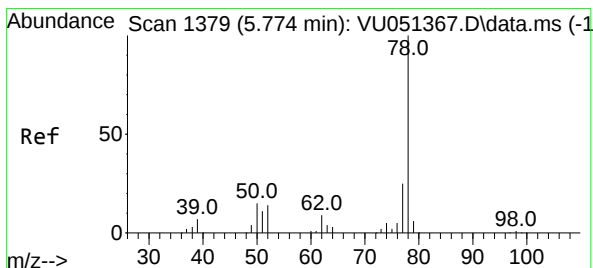
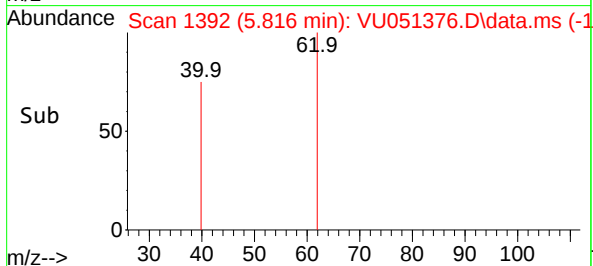
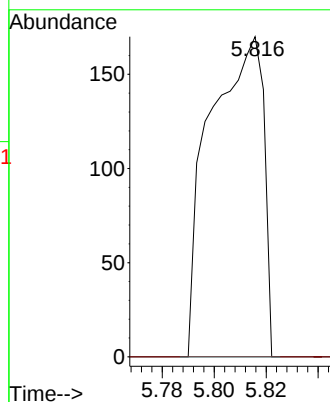
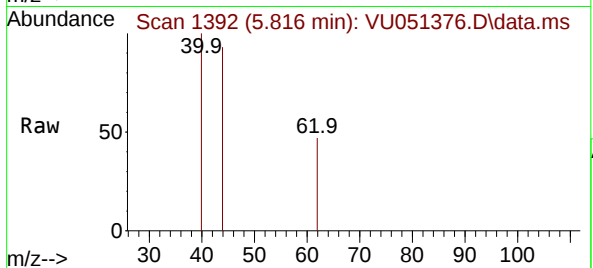




#27
1,2-Dichloroethane
Concen: 2.601 ug/L
RT: 5.816 min Scan# 1392
Delta R.T. 0.023 min
Lab File: VU051376.D
Acq: 11 Oct 2022 16:52

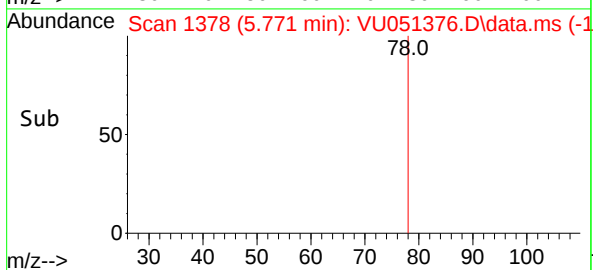
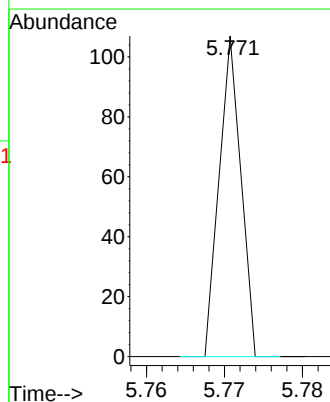
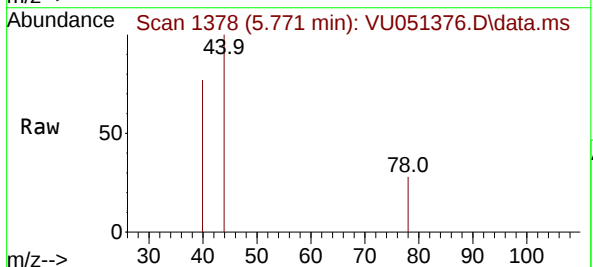
Instrument :
MSVOA_U
ClientSampleId :
BGS21DL

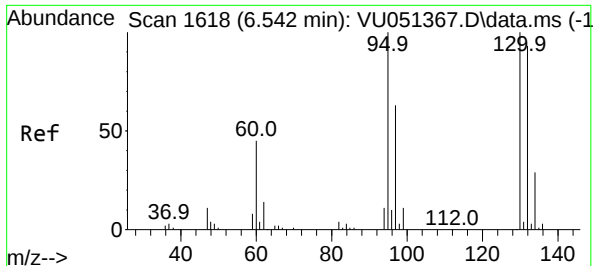
Tgt Ion: 62 Resp: 243
Ion Ratio Lower Upper
62 100
98 0.0 7.7 11.5#



#33
Benzene
Concen: 0.065 ug/L
RT: 5.771 min Scan# 1378
Delta R.T. -0.003 min
Lab File: VU051376.D
Acq: 11 Oct 2022 16:52

Tgt Ion: 78 Resp: 21





#34

Trichloroethene

Concen: 87.182 ug/L

RT: 6.546 min Scan# 1619

Delta R.T. 0.003 min

Lab File: VU051376.D

Acq: 11 Oct 2022 16:52

Instrument :

MSVOA_U

ClientSampleId :

BGS21DL

Tgt Ion: 95 Resp: 7050

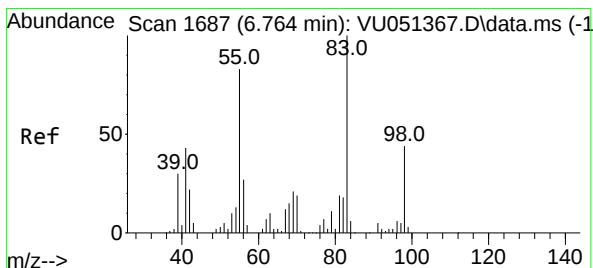
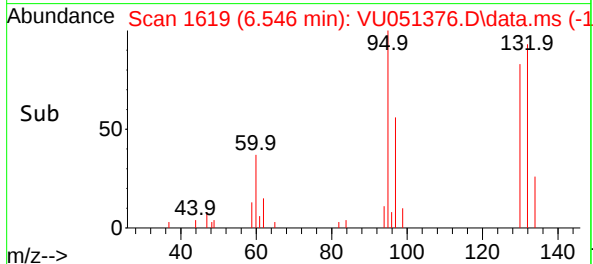
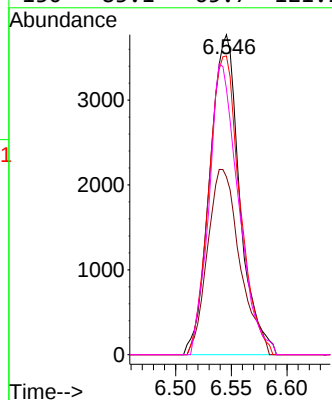
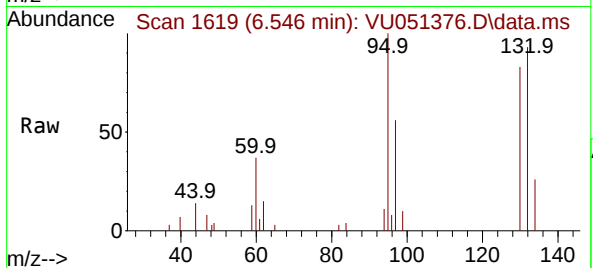
Ion Ratio Lower Upper

95 100

97 55.6 45.4 84.2

132 93.4 63.1 117.3

130 83.1 65.7 121.9



#35

Methylcyclohexane

Concen: 0.912 ug/L

RT: 6.546 min Scan# 1619

Delta R.T. -0.219 min

Lab File: VU051376.D

Acq: 11 Oct 2022 16:52

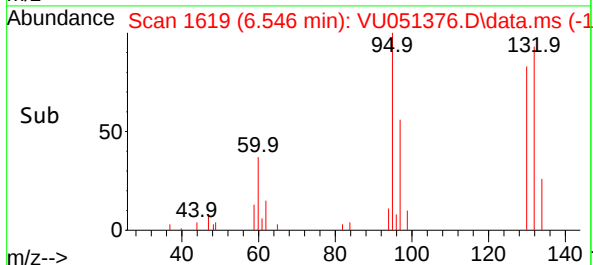
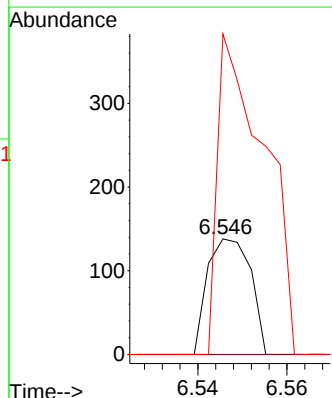
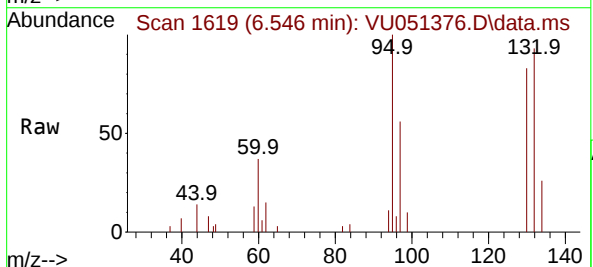
Tgt Ion: 83 Resp: 93

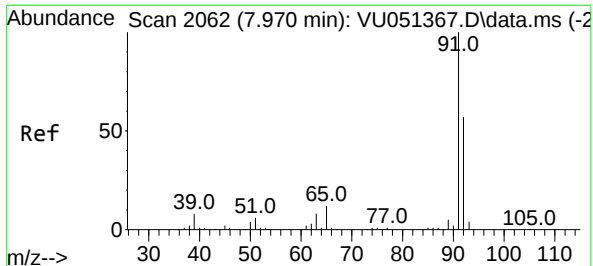
Ion Ratio Lower Upper

83 100

55 0.0 65.8 98.6#

98 300.0 35.9 53.9#

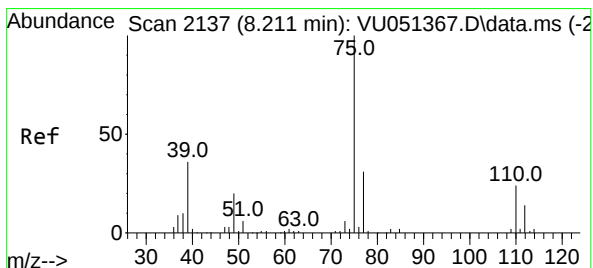
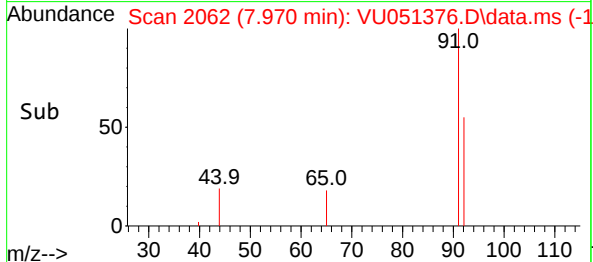
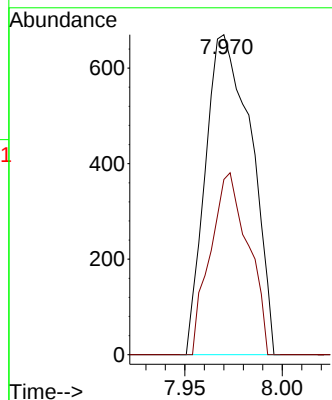
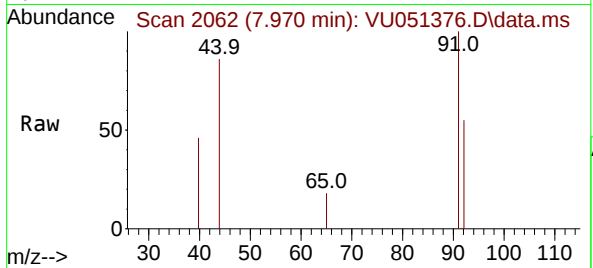




#42
Toluene
Concen: 3.171 ug/L
RT: 7.970 min Scan# 2062
Delta R.T. 0.000 min
Lab File: VU051376.D
Acq: 11 Oct 2022 16:52

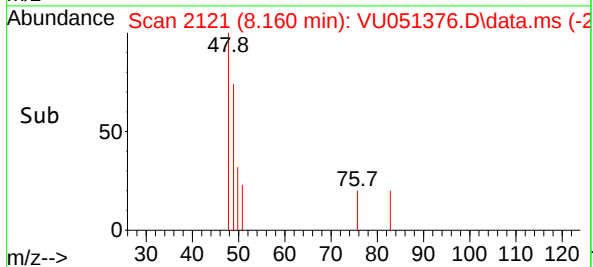
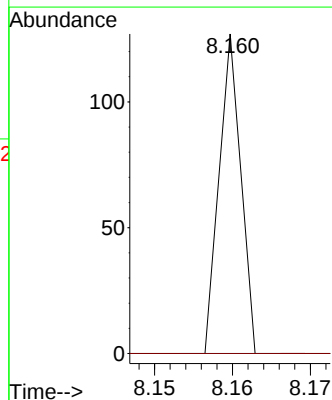
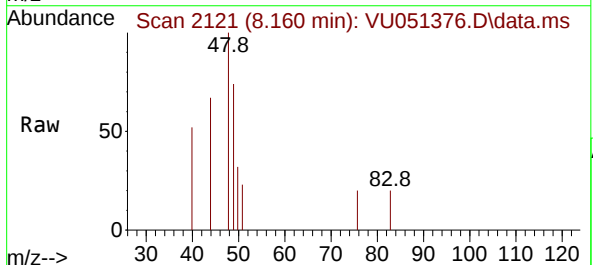
Instrument :
MSVOA_U
ClientSampleId :
BGS21DL

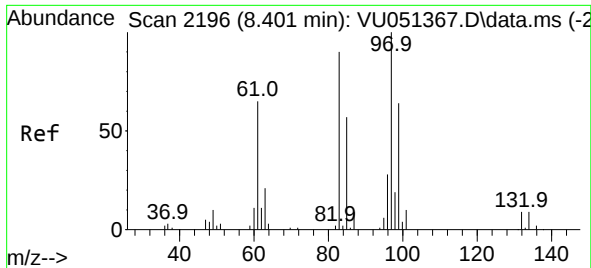
Tgt Ion: 91 Resp: 1091
Ion Ratio Lower Upper
91 100
92 54.8 39.9 74.1



#44
trans-1,3-Dichloropropene
Concen: 0.271 ug/L
RT: 8.160 min Scan# 2121
Delta R.T. -0.051 min
Lab File: VU051376.D
Acq: 11 Oct 2022 16:52

Tgt Ion: 75 Resp: 25
Ion Ratio Lower Upper
75 100
77 0.0 21.8 40.6#



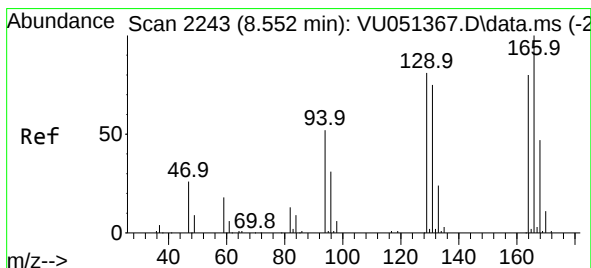
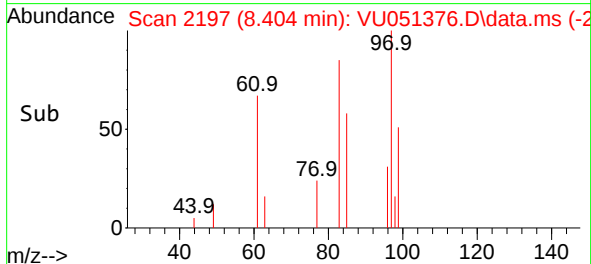
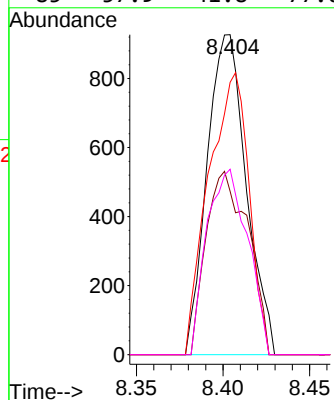
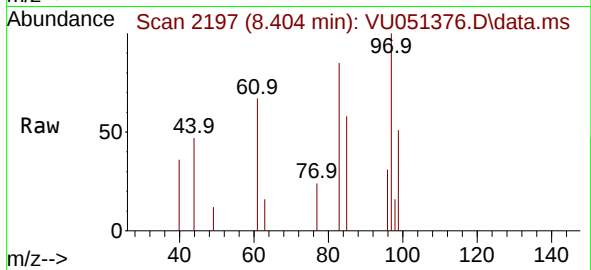


#45
1,1,2-Trichloroethane
Concen: 23.388 ug/L
RT: 8.404 min Scan# 2196
Delta R.T. 0.003 min
Lab File: VU051376.D
Acq: 11 Oct 2022 16:52

Instrument :
MSVOA_U
ClientSampleId :
BGS21DL

Tgt Ion: 97 Resp: 1459

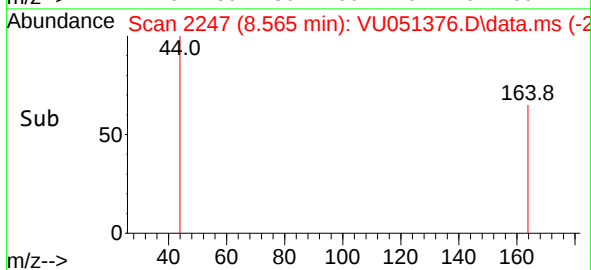
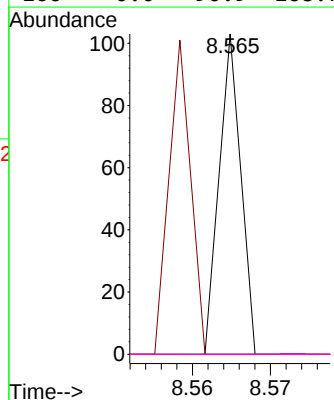
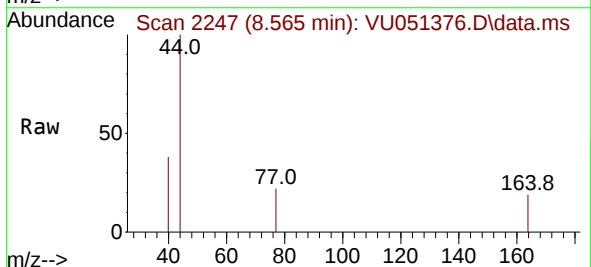
Ion	Ratio	Lower	Upper
97	100		
99	51.0	45.3	84.1
83	85.1	63.1	117.1
85	57.9	41.8	77.6

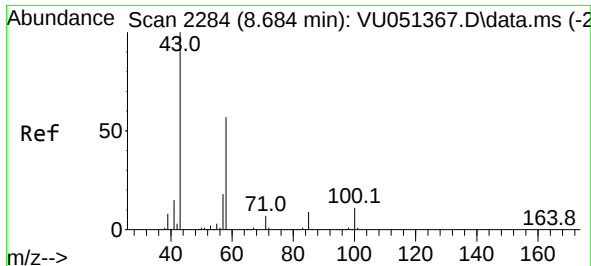


#47
Tetrachloroethene
Concen: 0.336 ug/L
RT: 8.565 min Scan# 2247
Delta R.T. 0.013 min
Lab File: VU051376.D
Acq: 11 Oct 2022 16:52

Tgt Ion: 164 Resp: 20

Ion	Ratio	Lower	Upper
164	100		
129	0.0	71.3	132.3#
131	0.0	66.9	124.3#
166	0.0	90.9	168.7#

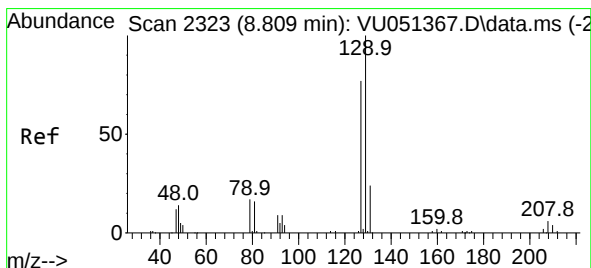
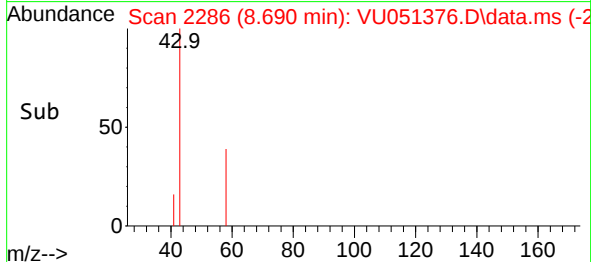
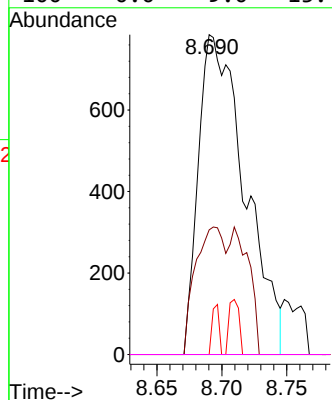
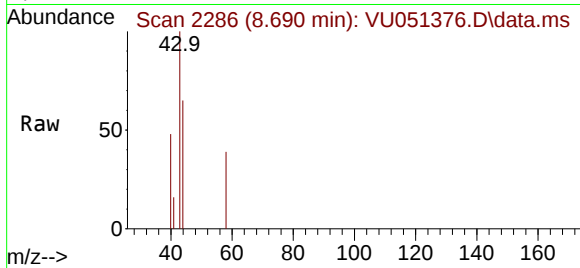




#48
2-Hexanone
Concen: 56.212 ug/L
RT: 8.690 min Scan# 21
Delta R.T. 0.007 min
Lab File: VU051376.D
Acq: 11 Oct 2022 16:52

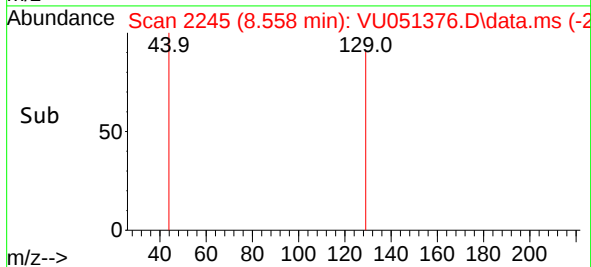
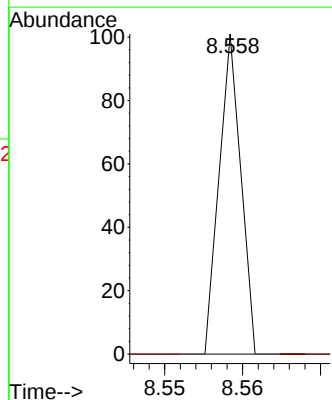
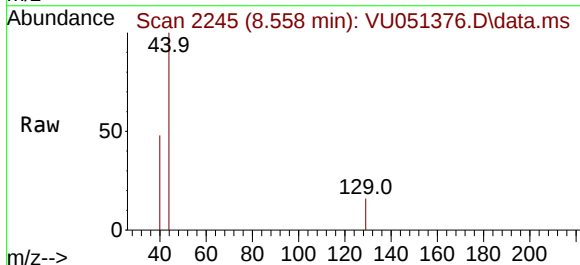
Instrument :
MSVOA_U
ClientSampleId :
BGS21DL

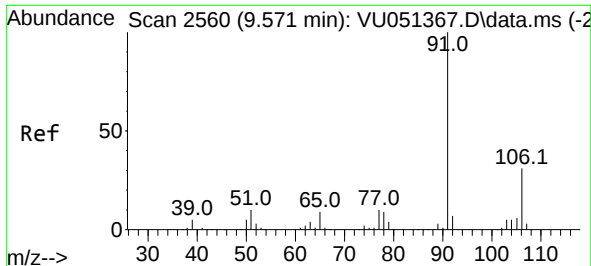
Tgt Ion: 43 Resp: 1951
Ion Ratio Lower Upper
43 100
58 25.2 48.2 72.2#
57 2.3 15.5 23.3#
100 0.0 9.0 13.4#



#49
Dibromochloromethane
Concen: 0.271 ug/L
RT: 8.558 min Scan# 2245
Delta R.T. -0.251 min
Lab File: VU051376.D
Acq: 11 Oct 2022 16:52

Tgt Ion: 129 Resp: 19
Ion Ratio Lower Upper
129 100
127 0.0 53.5 99.3#





#52

Ethylbenzene

Concen: 0.233 ug/L

RT: 9.571 min Scan# 2560

Delta R.T. 0.000 min

Lab File: VU051376.D

Acq: 11 Oct 2022 16:52

Instrument :

MSVOA_U

ClientSampleId :

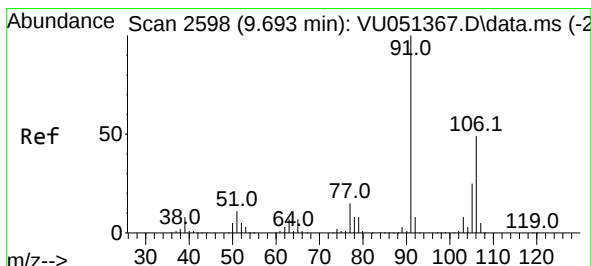
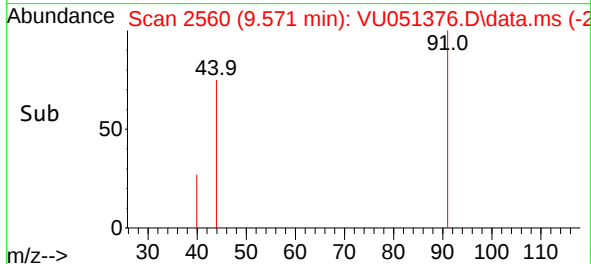
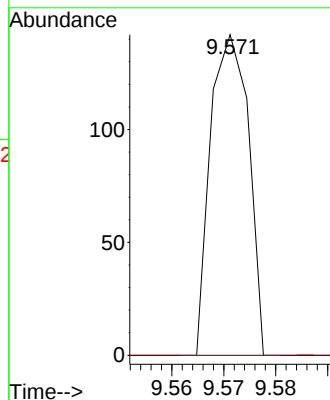
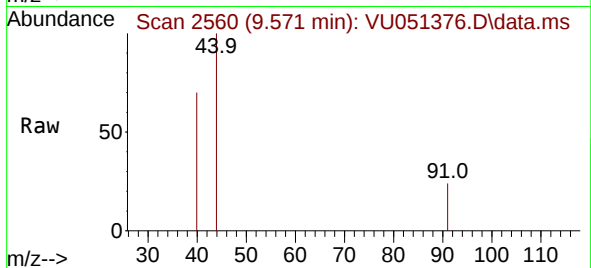
BGS21DL

Tgt Ion: 91 Resp: 72

Ion Ratio Lower Upper

91 100

106 0.0 20.9 38.7#



#53

m,p-Xylene

Concen: 0.183 ug/L

RT: 9.697 min Scan# 2599

Delta R.T. 0.003 min

Lab File: VU051376.D

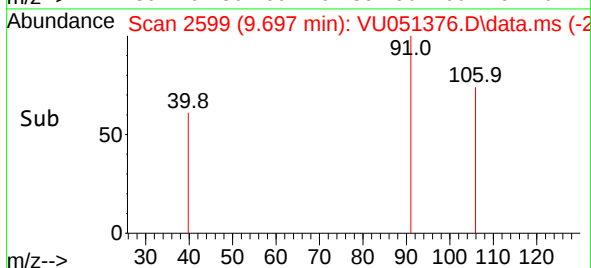
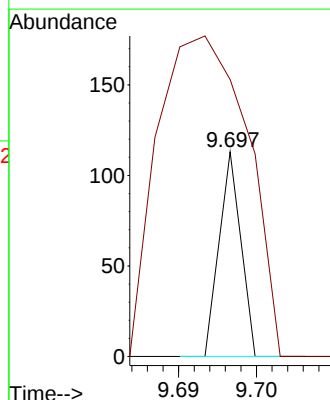
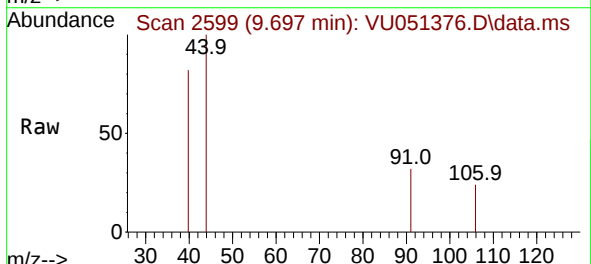
Acq: 11 Oct 2022 16:52

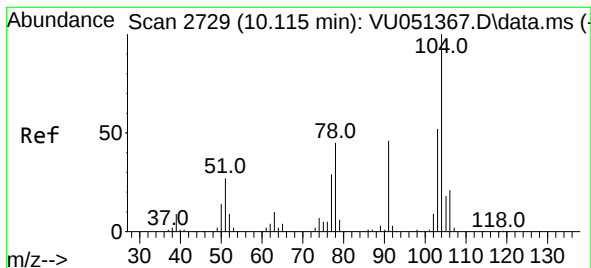
Tgt Ion: 106 Resp: 22

Ion Ratio Lower Upper

106 100

91 135.4 143.9 267.3#





#55

Styrene

Concen: 0.108 ug/L

RT: 10.127 min Scan# 21

Delta R.T. 0.013 min

Lab File: VU051376.D

Acq: 11 Oct 2022 16:52

Instrument :

MSVOA_U

ClientSampleId :

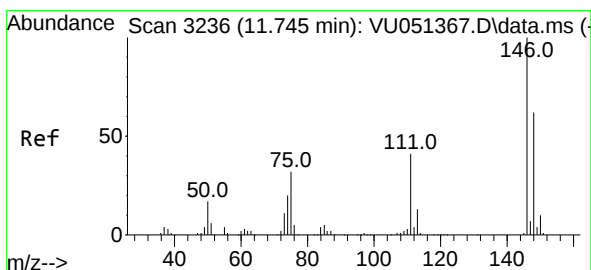
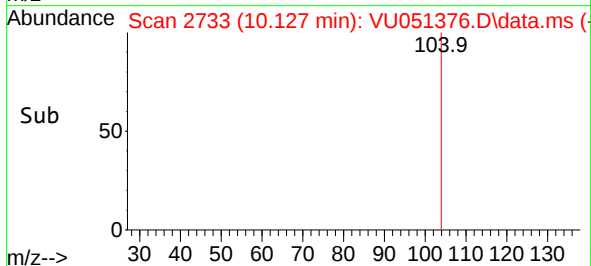
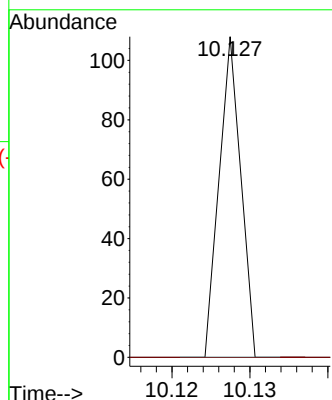
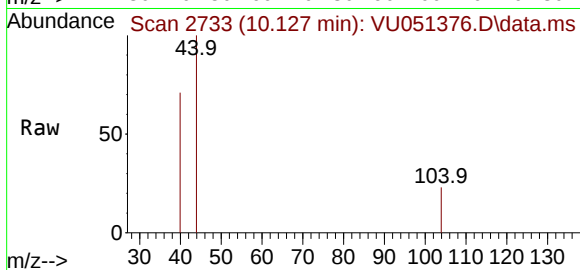
BGS21DL

Tgt Ion:104 Resp: 21

Ion Ratio Lower Upper

104 100

78 0.0 32.1 59.7#



#64

1,3-Dichlorobenzene

Concen: 0.205 ug/L

RT: 11.841 min Scan# 3266

Delta R.T. 0.097 min

Lab File: VU051376.D

Acq: 11 Oct 2022 16:52

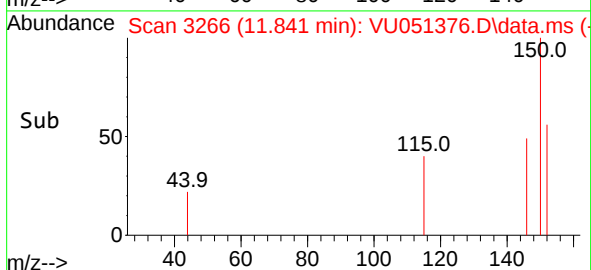
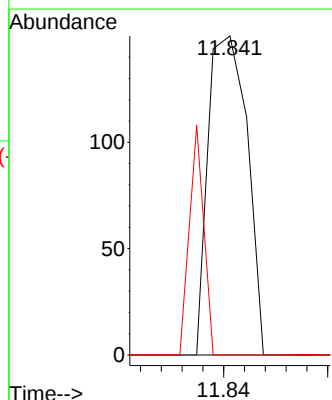
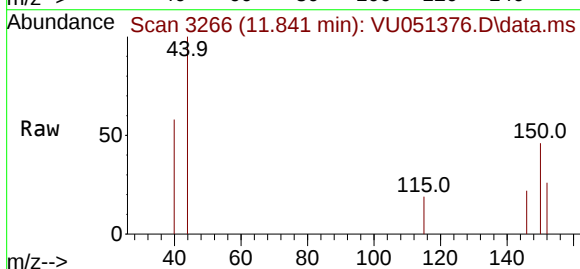
Tgt Ion:146 Resp: 78

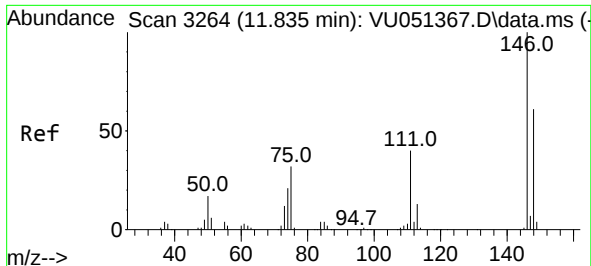
Ion Ratio Lower Upper

146 100

111 0.0 28.3 52.7#

148 0.0 43.8 81.4#





#65

1,4-Dichlorobenzene

Concen: 0.208 ug/L

RT: 11.841 min Scan# 31

Delta R.T. 0.007 min

Lab File: VU051376.D

Acq: 11 Oct 2022 16:52

Instrument :

MSVOA_U

ClientSampleId :

BGS21DL

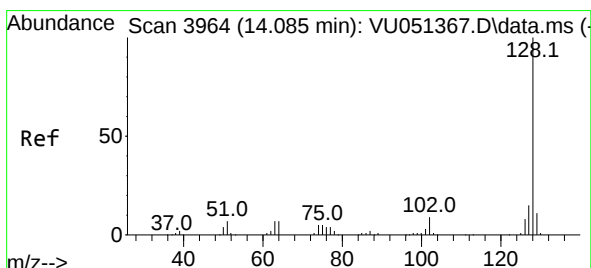
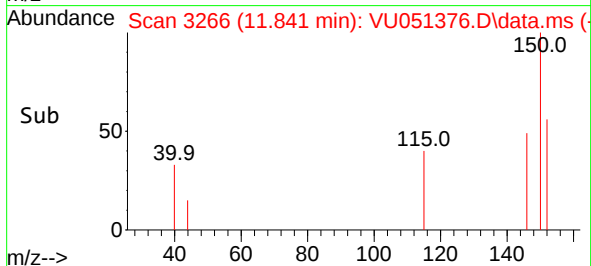
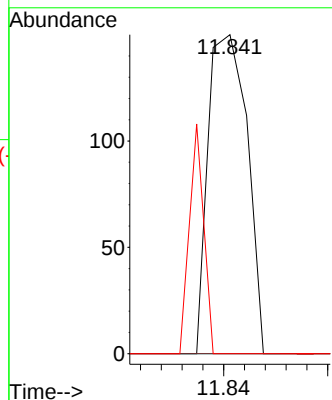
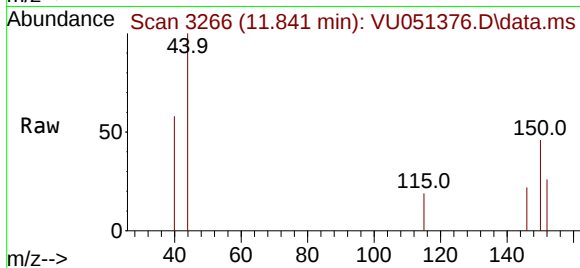
Tgt Ion:146 Resp: 78

Ion Ratio Lower Upper

146 100

111 0.0 29.1 54.1#

148 0.0 44.2 82.0#



#71

Naphthalene

Concen: 0.211 ug/L

RT: 14.118 min Scan# 3974

Delta R.T. 0.032 min

Lab File: VU051376.D

Acq: 11 Oct 2022 16:52

Tgt Ion:128 Resp: 73

Ion Ratio Lower Upper

128 100

129 0.0 8.5 12.7#

127 0.0 11.1 16.7#

