

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU090723\
 Data File : VU055207.D
 Acq On : 08 Sep 2023 00:08
 Operator : MD/SY
 Sample : 04306-06
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Sep 08 06:37:41 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR090123WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Sep 08 06:18:43 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.251	114	204887	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.418	117	205125	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.811	152	111958	5.000	ug/L	# 0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.596	65	42241	4.399	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	88.000%
7) Chloroethane-d5	1.907	69	39187	3.525	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	70.600%
11) 1,1-Dichloroethene-d2	2.563	65	19211	3.511	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	70.200%
20) 2-Butanone-d5	4.657	46	5743	2.061	ug/L	0.03
Spiked Amount	50.000	Range	40 - 130	Recovery	=	4.120%#
24) Chloroform-d	5.065	84	111875	4.390	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.800%
26) 1,2-Dichloroethane-d4	5.701	65	59367	4.657	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.200%
32) Benzene-d6	5.730	84	212999	4.207	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.200%
36) 1,2-Dichloropropane-d6	6.701	67	72550	4.505	ug/L	0.01
Spiked Amount	5.000	Range	60 - 140	Recovery	=	90.000%
41) Toluene-d8	7.898	98	191985	4.116	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	82.400%
43) trans-1,3-Dichloroprop...	8.180	79	20866	4.705	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	94.000%
46) 2-Hexanone-d5	8.634	63	93391	51.869	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	103.740%
56) 1,1,2,2-Tetrachloroeth...	10.756	84	58865	5.197	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	104.000%
66) 1,2-Dichlorobenzene-d4	12.193	152	72432	4.432	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	88.600%
Target Compounds						
					Qvalue	
3) Chloromethane	1.515	50	3439	0.284	ug/L	93
5) Vinyl chloride	1.599	62	1716960	134.275	ug/L	94
12) 1,1-Dichloroethene	2.576	96	252118	26.616	ug/L	# 76
16) Methylene chloride	3.042	84	7176	0.496	ug/L	95
17) Methyl tert-butyl Ether	3.364	73	7833	0.315	ug/L	# 82
18) trans-1,2-Dichloroethene	3.348	96	1020946	106.234	ug/L	97
21) 2-Butanone	4.714	43	4234	1.543	ug/L	# 1
25) Chloroform	5.087	83	9928	0.459	ug/L	97
27) 1,2-Dichloroethane	5.798	62	17667	1.338	ug/L	# 88
30) Cyclohexane	5.390	56	27210	1.725	ug/L	99
33) Benzene	5.775	78	97745	2.239	ug/L	100
35) Methylcyclohexane	6.769	83	84133	4.942	ug/L	# 69
37) 1,2-Dichloropropane	6.563	63	437205	36.784	ug/L	# 89
42) Toluene	7.971	91	25851	0.555	ug/L	86
45) 1,1,2-Trichloroethane	8.399	97	173835	21.715	ug/L	98
47) Tetrachloroethene	8.553	164	93376	11.135	ug/L	95
48) 2-Hexanone	8.689	43	21157	3.984	ug/L	# 90
49) Dibromochloromethane	8.553	129	94918	10.861	ug/L	# 10
51) Chlorobenzene	9.444	112	1000553	32.460	ug/L	98

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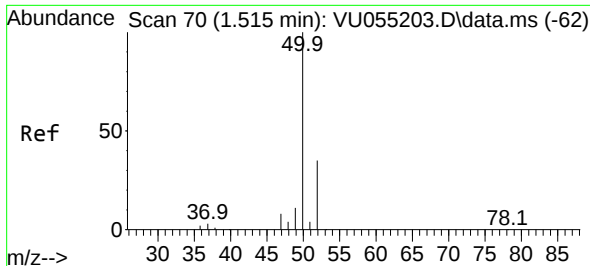
Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Sep 08 06:37:41 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR090123WMA.M
 Quant Title : TRACE VOA SFAM1.0
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

53) m,p-Xylene	9.695	106	3905	0.203	ug/L	90
54) o-Xylene	10.100	106	8030	0.424	ug/L	88
60) Isopropylbenzene	10.483	105	39462	0.756	ug/L #	84
61) 1,2,3-Trichloropropane	11.743	75	770325	103.682	ug/L #	49
62) 1,3,5-Trimethylbenzene	11.470	105	6783	0.156	ug/L	87
63) 1,2,4-Trimethylbenzene	11.470	105	6783	0.158	ug/L	92
64) 1,3-Dichlorobenzene	11.743	146	2198284	87.711	ug/L	99
65) 1,4-Dichlorobenzene	11.836	146	3598492	144.062	ug/L	97
67) 1,2-Dichlorobenzene	12.209	146	1894178	80.611	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.968	75	419	0.293	ug/L #	9
72) 1,2,3-Trichlorobenzene	14.331	180	4159726	269.849	ug/L	99

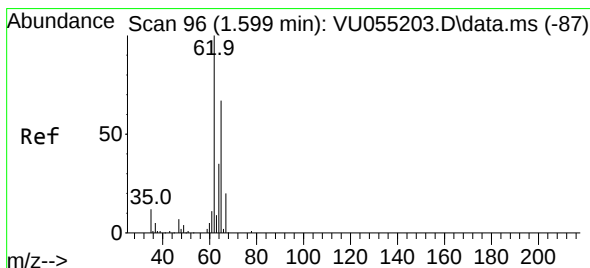
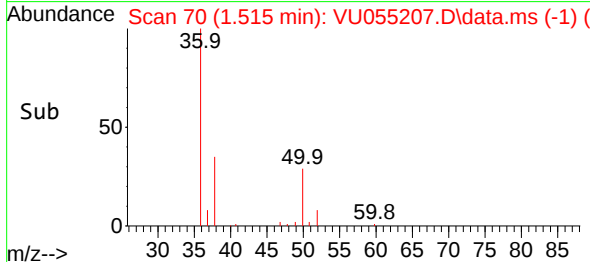
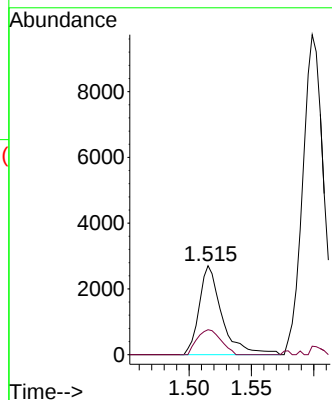
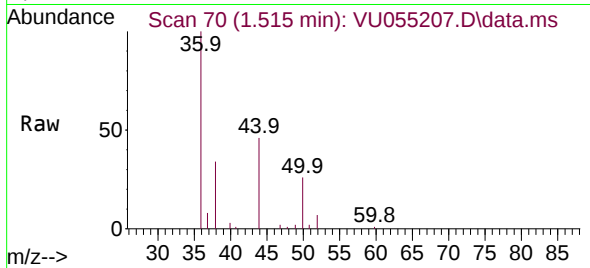
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#3
Chloromethane
Concen: 0.284 ug/L
RT: 1.515 min Scan# 70
Delta R.T. 0.000 min
Lab File: VU055207.D
Acq: 08 Sep 2023 00:08

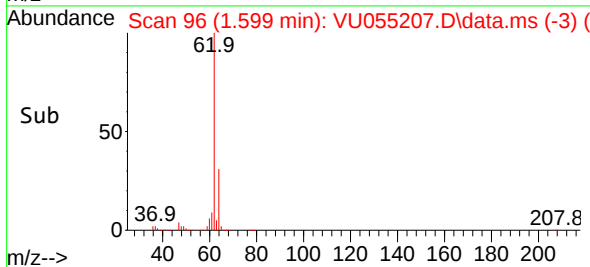
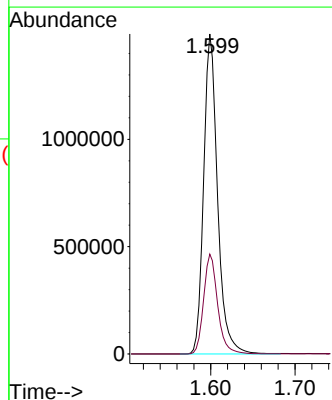
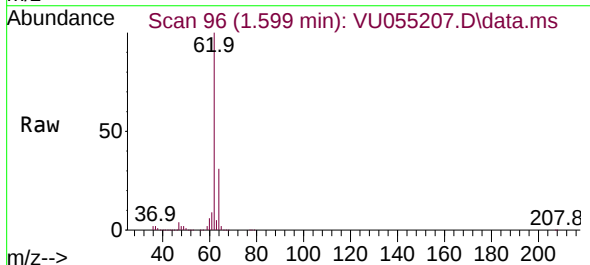
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MSVOA_U
ClientSampleId :

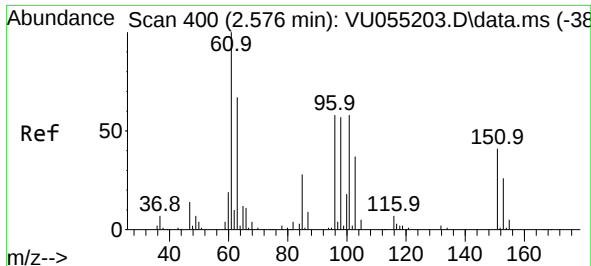
Tgt Ion: 50 Resp: 3439
Ion Ratio Lower Upper
50 100
52 28.0 22.5 41.7



#5
Vinyl chloride
Concen: 134.275 ug/L
RT: 1.599 min Scan# 96
Delta R.T. 0.000 min
Lab File: VU055207.D
Acq: 08 Sep 2023 00:08

Tgt Ion: 62 Resp: 1716960
Ion Ratio Lower Upper
62 100
64 31.2 24.2 45.0





#12

1,1-Dichloroethene

Concen: 26.616 ug/L

RT: 2.576 min Scan# 400

Delta R.T. 0.000 min

Lab File: VU055207.D

Acq: 08 Sep 2023 00:08

Instrument :

MSVOA_U

ClientSampleId :

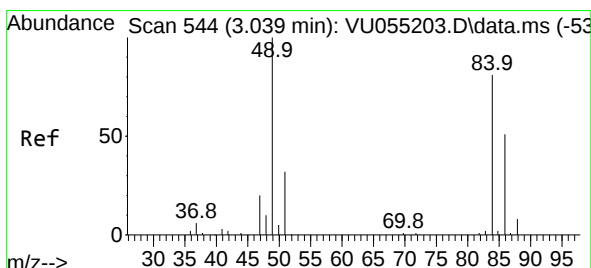
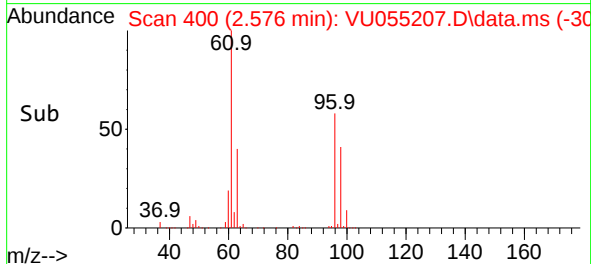
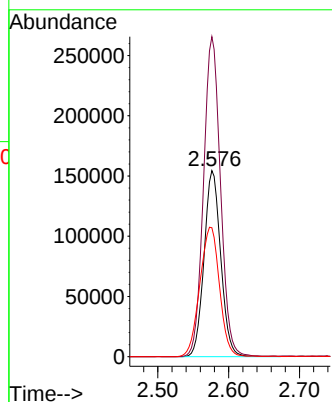
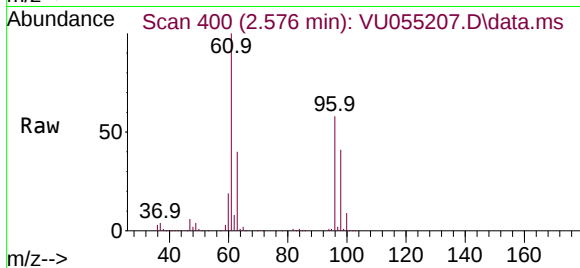
Tgt Ion: 96 Resp: 252118

Ion Ratio Lower Upper

96 100

61 172.0 120.8 224.4

63 69.3 94.5 175.5#



#16

Methylene chloride

Concen: 0.496 ug/L

RT: 3.042 min Scan# 545

Delta R.T. 0.003 min

Lab File: VU055207.D

Acq: 08 Sep 2023 00:08

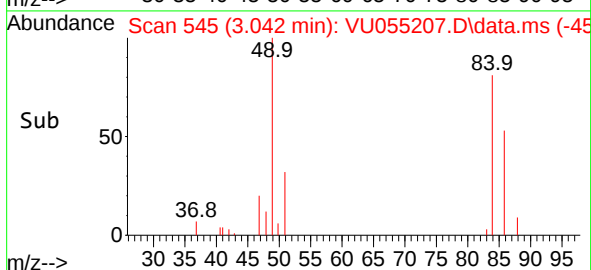
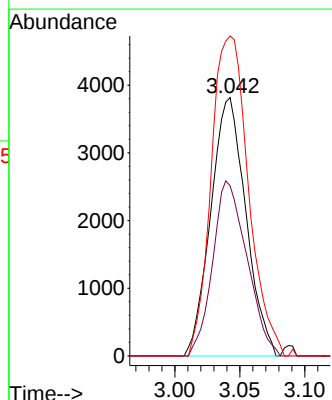
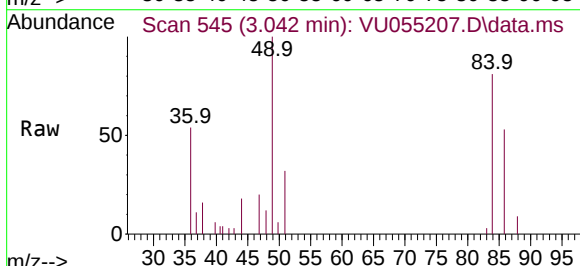
Tgt Ion: 84 Resp: 7176

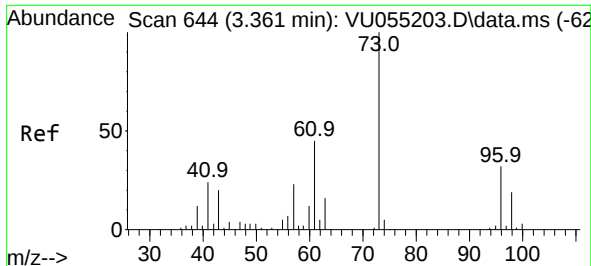
Ion Ratio Lower Upper

84 100

86 65.8 43.4 80.6

49 131.4 87.7 162.9

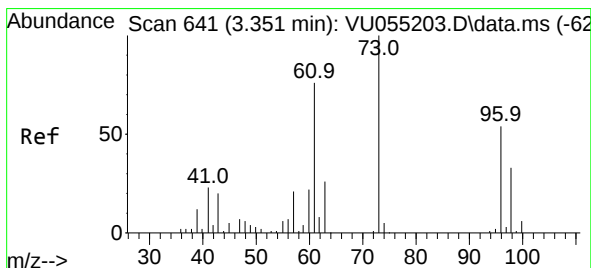
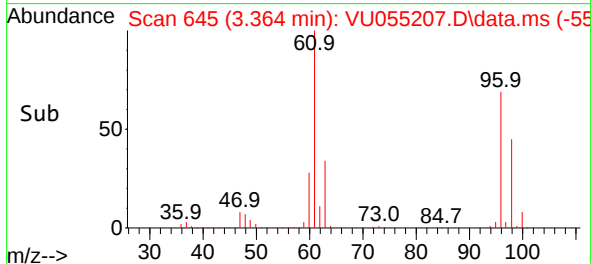
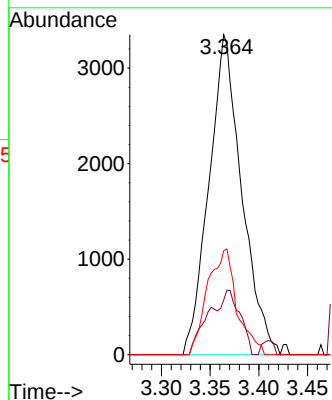
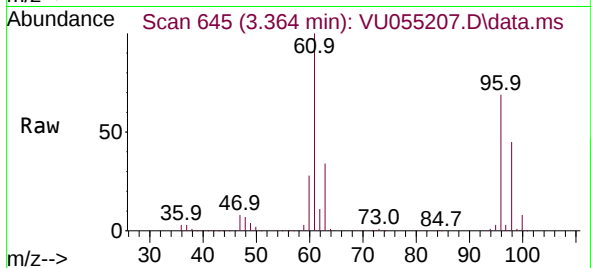




#17
Methyl tert-butyl Ether
Concen: 0.315 ug/L
RT: 3.364 min Scan# 644
Delta R.T. 0.003 min
Lab File: VU055207.D
Acq: 08 Sep 2023 00:08

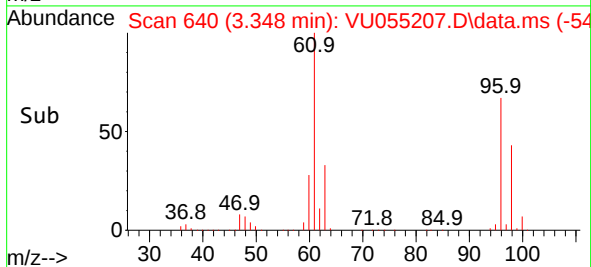
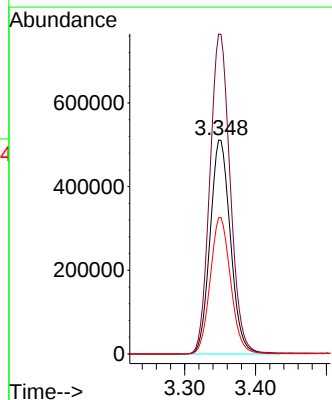
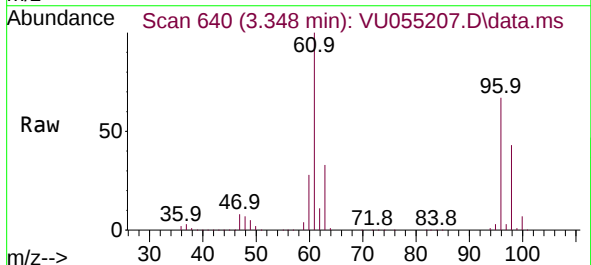
Instrument :
MSVOA_U
ClientSampleId :

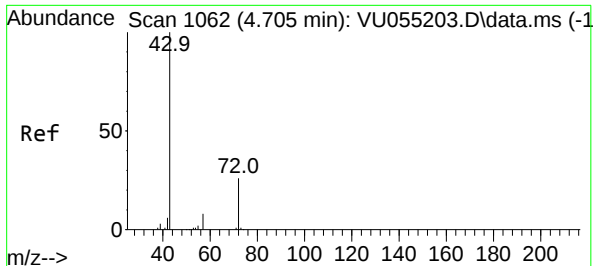
Tgt Ion: 73 Resp: 7833
Ion Ratio Lower Upper
73 100
43 11.6 16.2 24.2#
57 29.6 17.4 26.2#



#18
trans-1,2-Dichloroethene
Concen: 106.234 ug/L
RT: 3.348 min Scan# 640
Delta R.T. -0.003 min
Lab File: VU055207.D
Acq: 08 Sep 2023 00:08

Tgt Ion: 96 Resp: 1020946
Ion Ratio Lower Upper
96 100
61 149.6 108.1 200.9
98 63.7 45.4 84.4

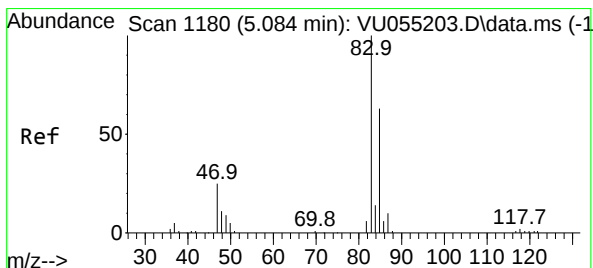
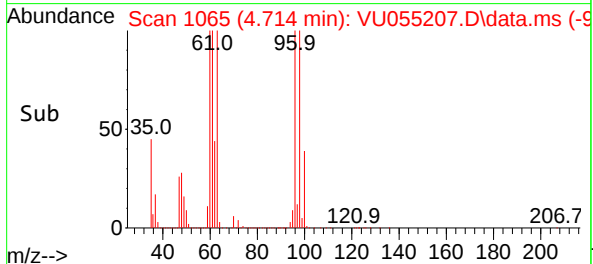
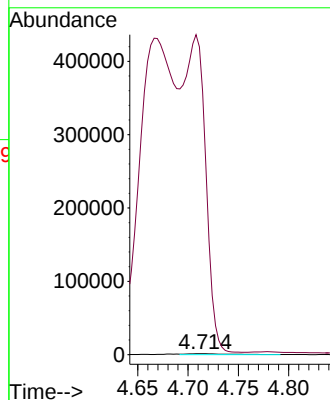
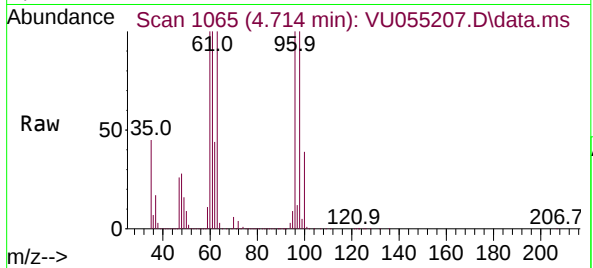




#21
2-Butanone
Concen: 1.543 ug/L
RT: 4.714 min Scan# 1065
Delta R.T. 0.010 min
Lab File: VU055207.D
Acq: 08 Sep 2023 00:08

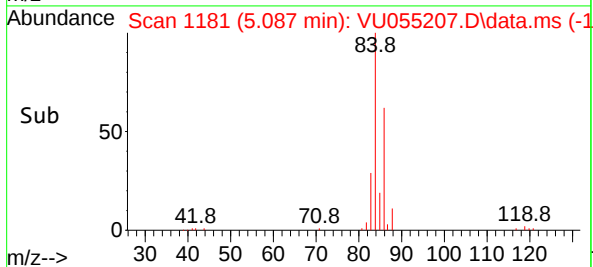
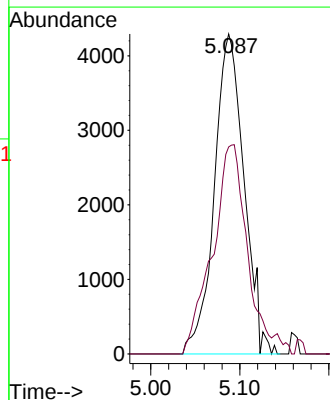
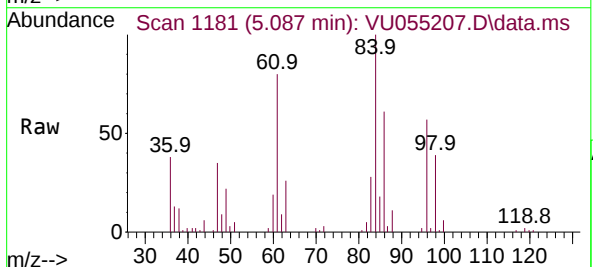
Instrument :
MSVOA_U
ClientSampleId :

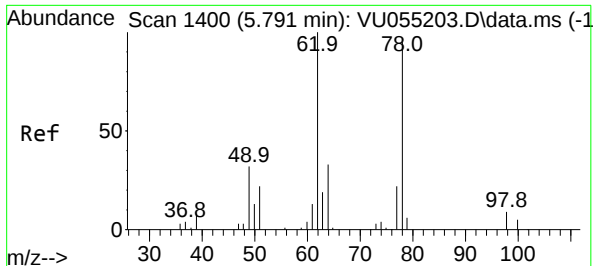
Tgt Ion: 43 Resp: 4234
Ion Ratio Lower Upper
43 100
72 13501.0 13.5 40.5#



#25
Chloroform
Concen: 0.459 ug/L
RT: 5.087 min Scan# 1181
Delta R.T. 0.003 min
Lab File: VU055207.D
Acq: 08 Sep 2023 00:08

Tgt Ion: 83 Resp: 9928
Ion Ratio Lower Upper
83 100
85 64.7 47.2 87.6

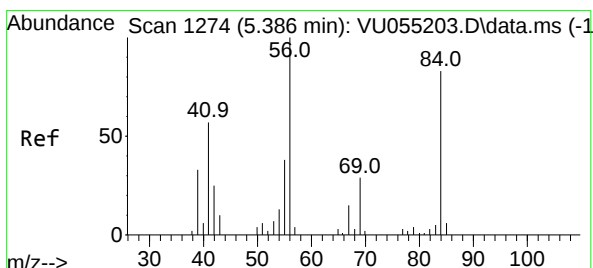
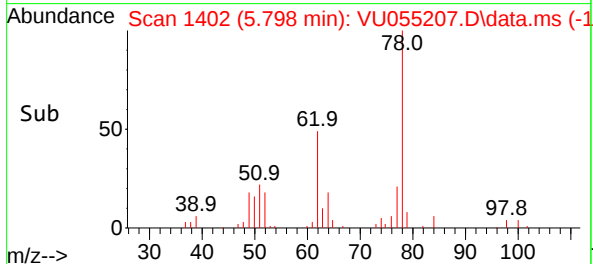
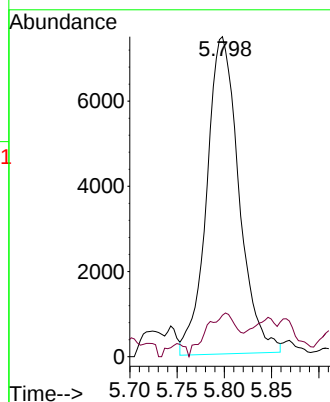
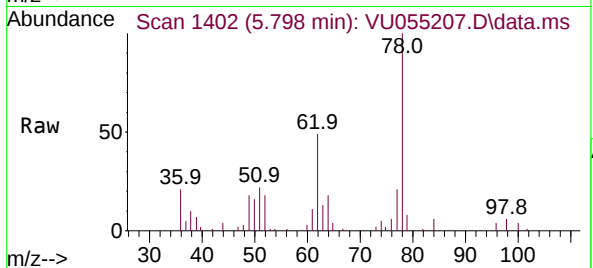




#27
1,2-Dichloroethane
Concen: 1.338 ug/L
RT: 5.798 min Scan# 1400
Delta R.T. 0.006 min
Lab File: VU055207.D
Acq: 08 Sep 2023 00:08

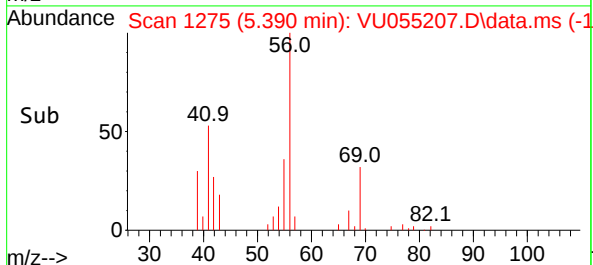
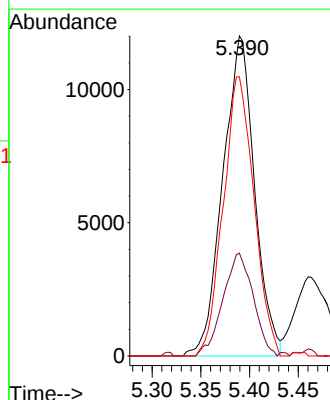
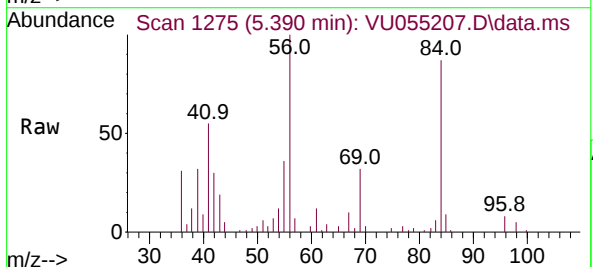
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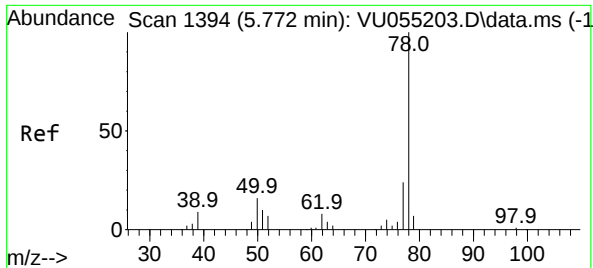
Tgt Ion: 62 Resp: 17667
Ion Ratio Lower Upper
62 100
98 12.9 6.9 10.3#



#30
Cyclohexane
Concen: 1.725 ug/L
RT: 5.390 min Scan# 1275
Delta R.T. 0.003 min
Lab File: VU055207.D
Acq: 08 Sep 2023 00:08

Tgt Ion: 56 Resp: 27210
Ion Ratio Lower Upper
56 100
69 30.6 24.6 37.0
84 84.4 68.8 103.2

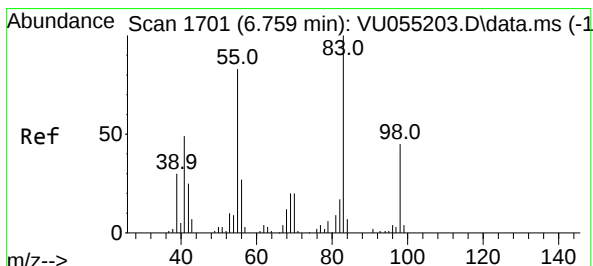
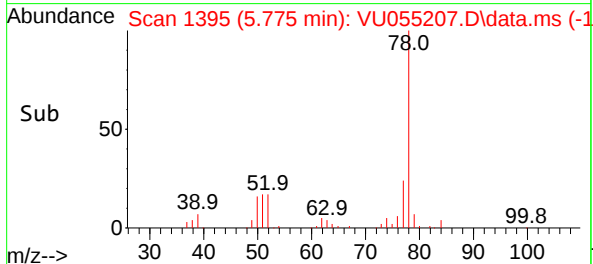
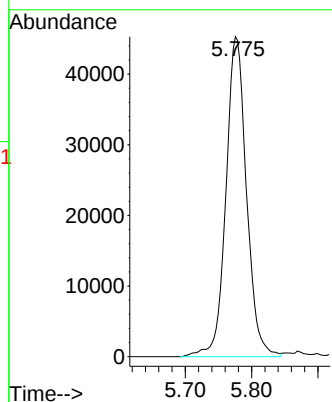
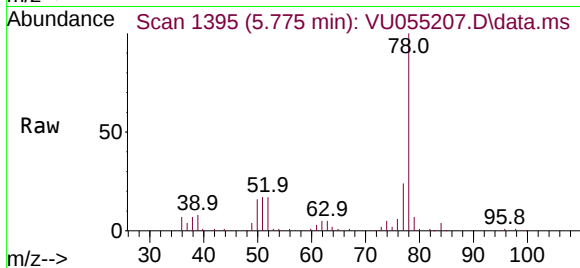




#33
Benzene
Concen: 2.239 ug/L
RT: 5.775 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU055207.D
Acq: 08 Sep 2023 00:08

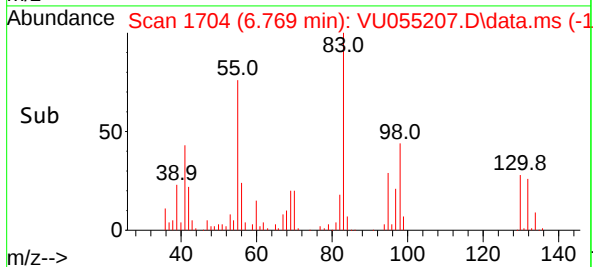
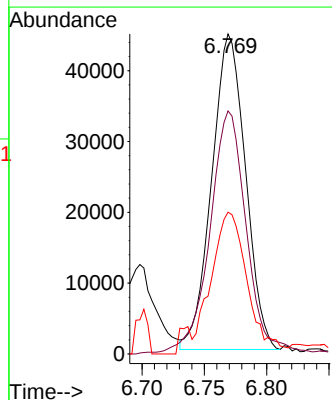
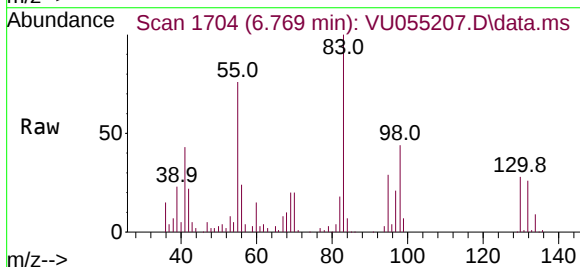
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ClientSampleId :

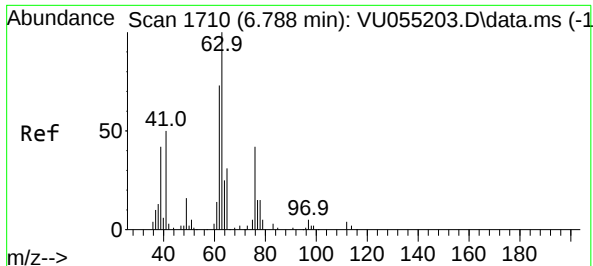
Tgt Ion: 78 Resp: 97745



#35
Methylcyclohexane
Concen: 4.942 ug/L
RT: 6.769 min Scan# 1704
Delta R.T. 0.010 min
Lab File: VU055207.D
Acq: 08 Sep 2023 00:08

Tgt Ion: 83 Resp: 84133
Ion Ratio Lower Upper
83 100
55 83.6 60.4 90.6
98 0.0 35.3 52.9#





#37

1,2-Dichloropropane

Concen: 36.784 ug/L

RT: 6.563 min Scan# 1

Delta R.T. -0.225 min

Lab File: VU055207.D

Acq: 08 Sep 2023 00:08

Instrument :

MSVOA_U

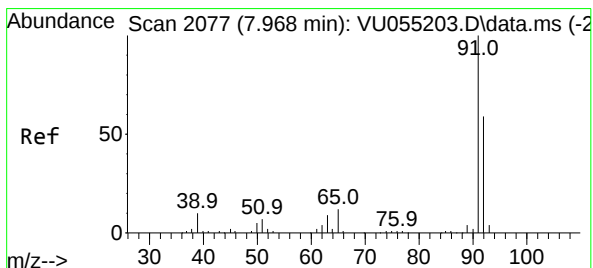
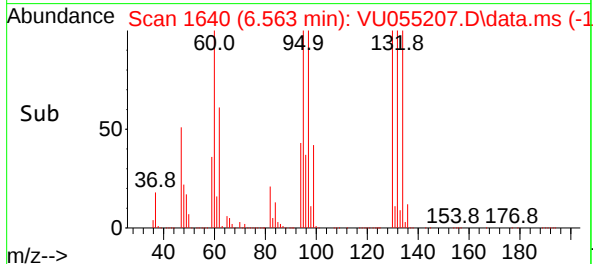
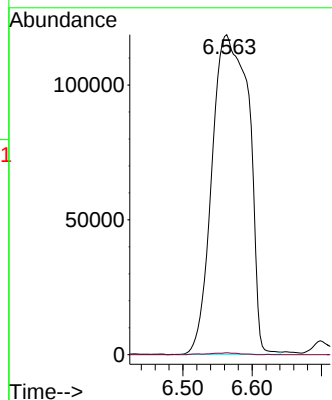
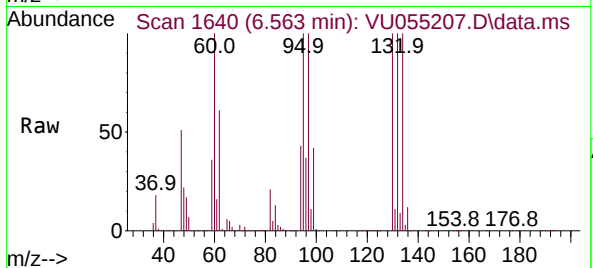
ClientSampleId :

Tgt Ion: 63 Resp: 437205

Ion Ratio Lower Upper

63 100

112 0.4 3.2 4.8#



#42

Toluene

Concen: 0.555 ug/L

RT: 7.971 min Scan# 2078

Delta R.T. 0.003 min

Lab File: VU055207.D

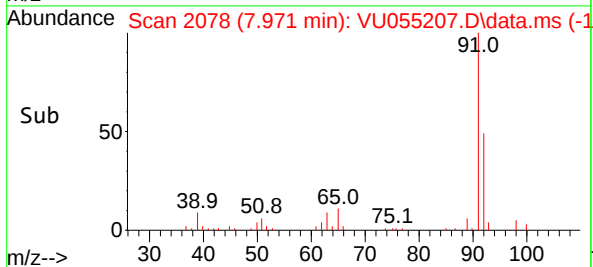
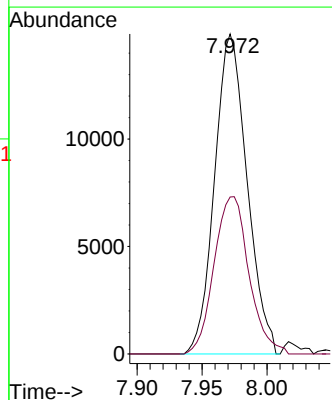
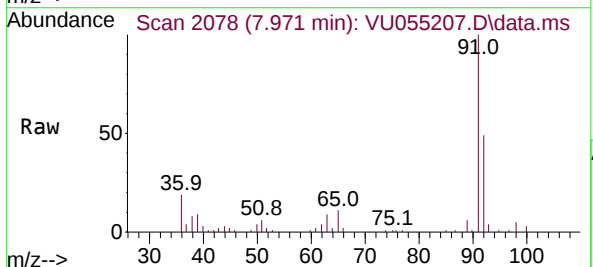
Acq: 08 Sep 2023 00:08

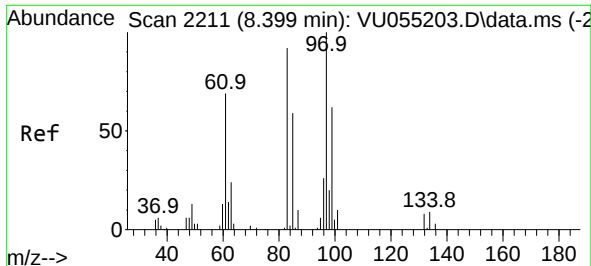
Tgt Ion: 91 Resp: 25851

Ion Ratio Lower Upper

91 100

92 49.1 41.9 77.9



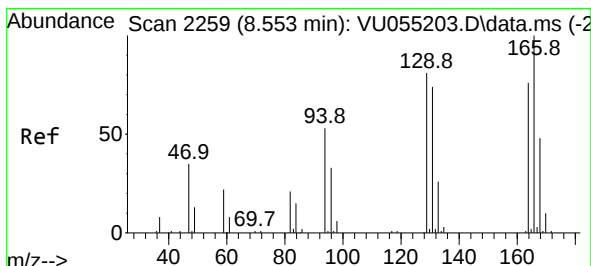
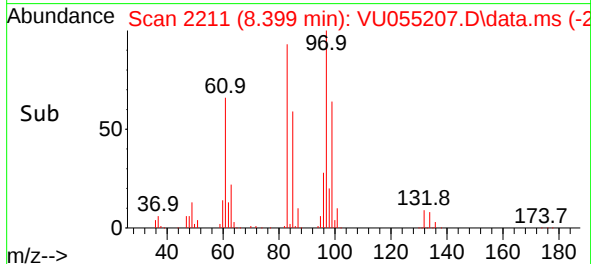
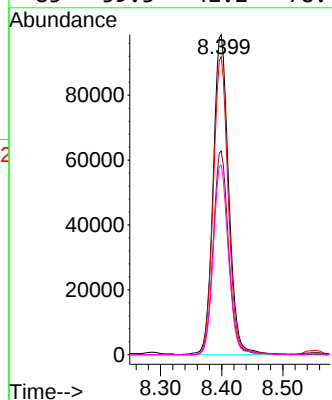
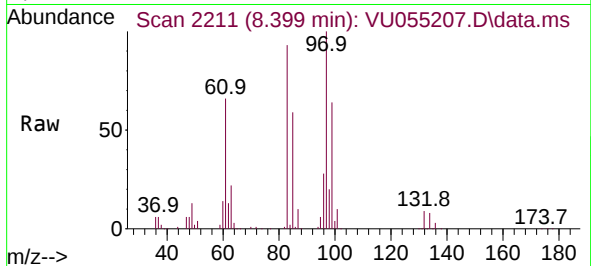


#45
1,1,2-Trichloroethane
Concen: 21.715 ug/L
RT: 8.399 min Scan# 211
Delta R.T. 0.000 min
Lab File: VU055207.D
Acq: 08 Sep 2023 00:08

Instrument :
MSVOA_U
ClientSampleId :

Tgt Ion: 97 Resp: 173835

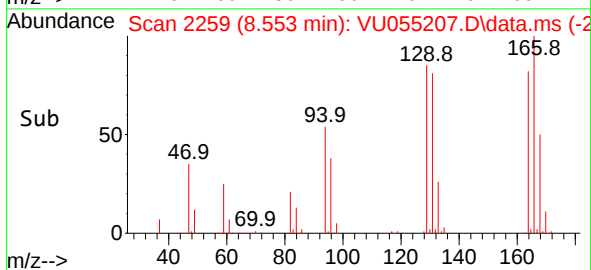
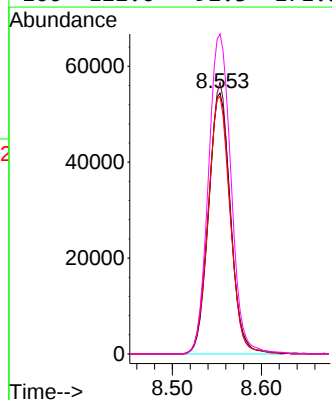
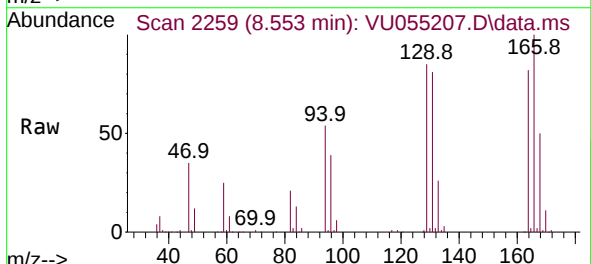
Ion	Ratio	Lower	Upper
97	100		
99	63.7	44.9	83.5
83	93.2	66.9	124.3
85	59.3	42.2	78.4

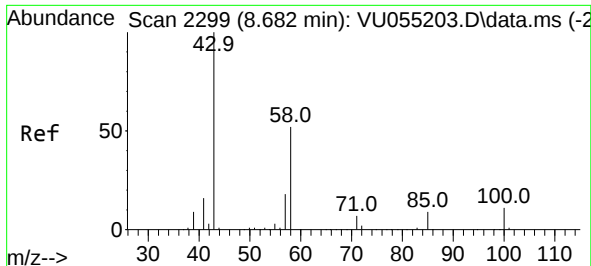


#47
Tetrachloroethene
Concen: 11.135 ug/L
RT: 8.553 min Scan# 2259
Delta R.T. 0.000 min
Lab File: VU055207.D
Acq: 08 Sep 2023 00:08

Tgt Ion: 164 Resp: 93376

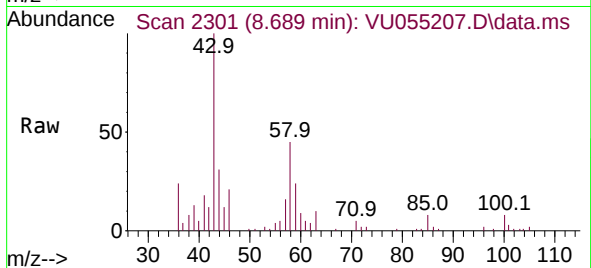
Ion	Ratio	Lower	Upper
164	100		
129	104.0	69.2	128.6
131	98.7	68.8	127.8
166	122.6	92.3	171.5



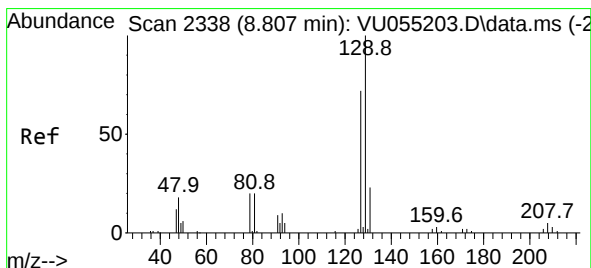
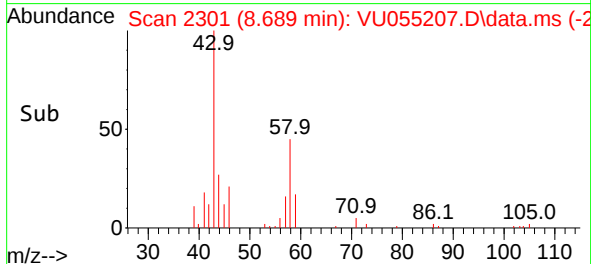
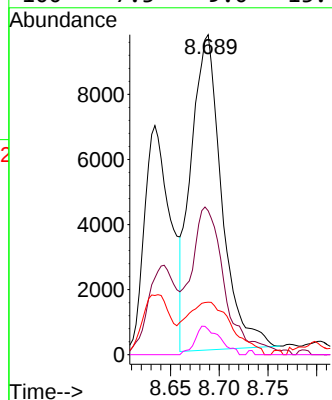


#48
2-Hexanone
Concen: 3.984 ug/L
RT: 8.689 min Scan# 21157
Delta R.T. 0.006 min
Lab File: VU055207.D
Acq: 08 Sep 2023 00:08

Instrument :
MSVOA_U
ClientSampleId :

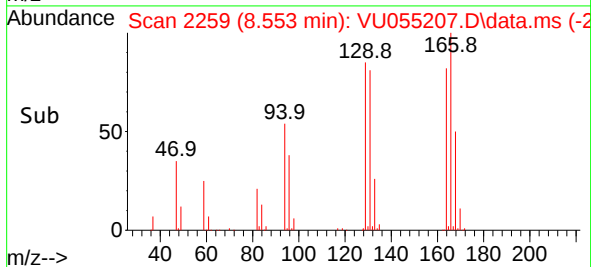
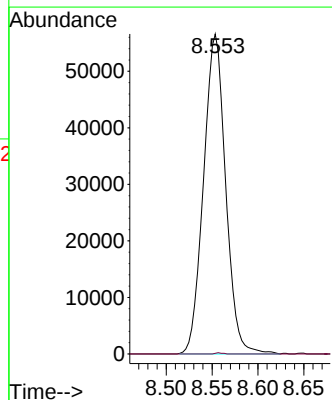
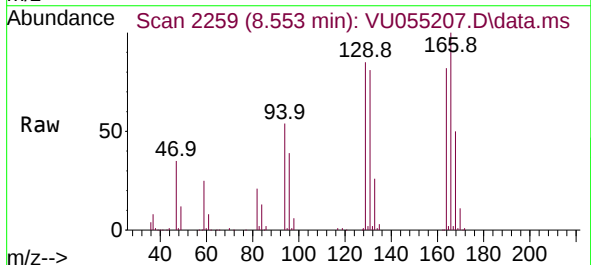


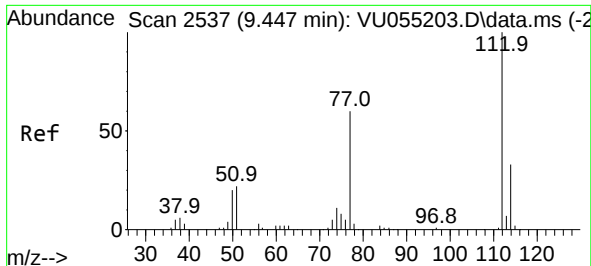
Tgt Ion	Ratio	Lower	Upper
43	100		
58	47.3	44.0	66.0
57	24.7	16.2	24.2#
100	7.3	9.0	13.4#



#49
Dibromochloromethane
Concen: 10.861 ug/L
RT: 8.553 min Scan# 2259
Delta R.T. -0.254 min
Lab File: VU055207.D
Acq: 08 Sep 2023 00:08

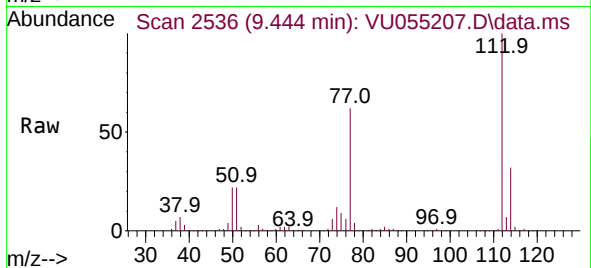
Tgt Ion	Ratio	Lower	Upper
129	100		
127	0.2	55.9	103.7#



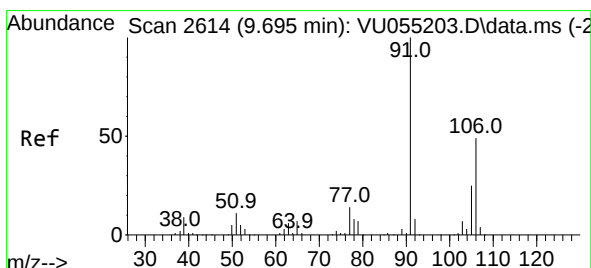
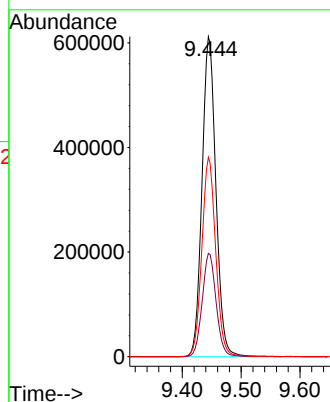
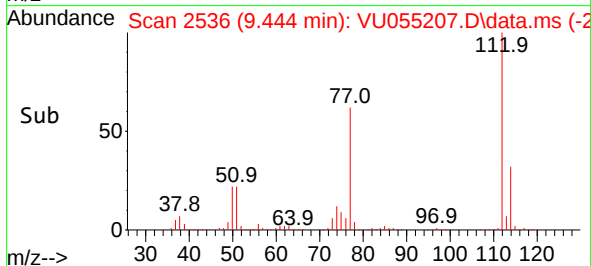


#51
Chlorobenzene
Concen: 32.460 ug/L
RT: 9.444 min Scan# 2112
Delta R.T. -0.003 min
Lab File: VU055207.D
Acq: 08 Sep 2023 00:08

Instrument :
MSVOA_U
ClientSampleId :

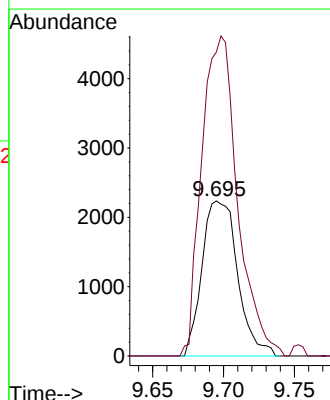
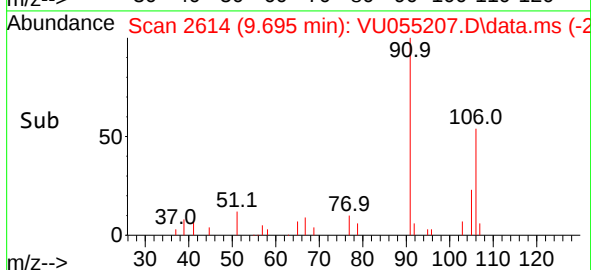
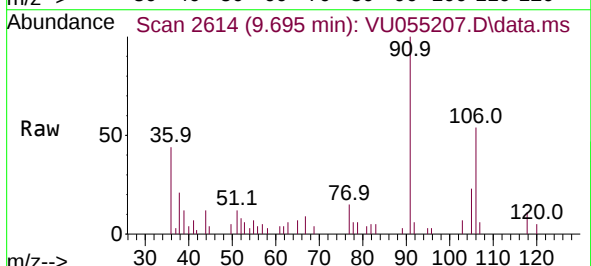


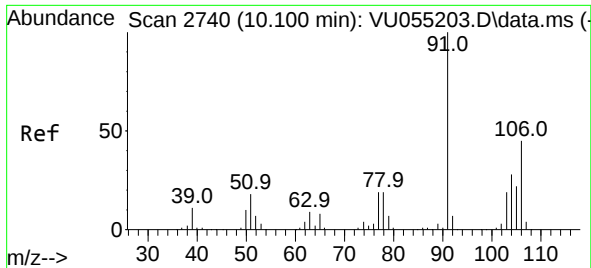
Tgt Ion:112 Resp: 1000553
Ion Ratio Lower Upper
112 100
114 32.3 21.7 40.3
77 62.3 48.6 72.8



#53
m,p-Xylene
Concen: 0.203 ug/L
RT: 9.695 min Scan# 2614
Delta R.T. 0.000 min
Lab File: VU055207.D
Acq: 08 Sep 2023 00:08

Tgt Ion:106 Resp: 3905
Ion Ratio Lower Upper
106 100
91 196.2 148.3 275.5

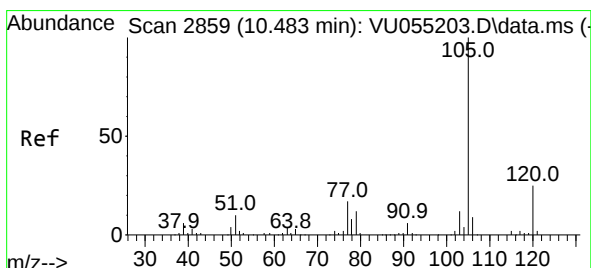
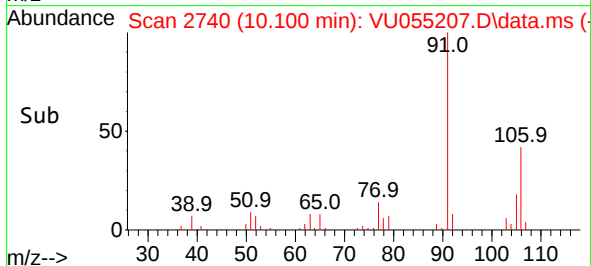
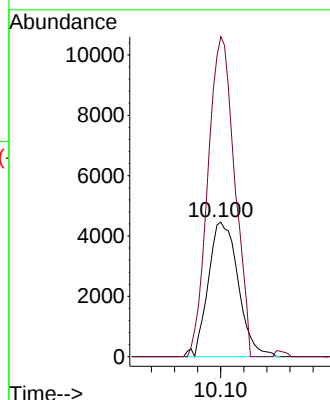
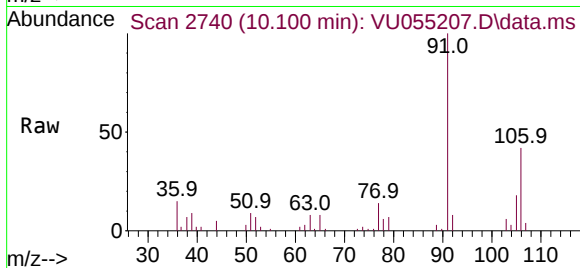




#54
o-Xylene
Concen: 0.424 ug/L
RT: 10.100 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU055207.D
Acq: 08 Sep 2023 00:08

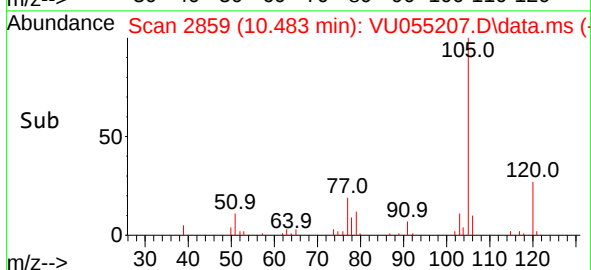
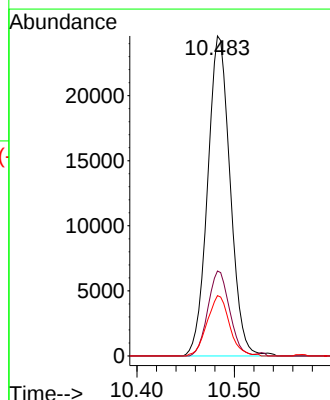
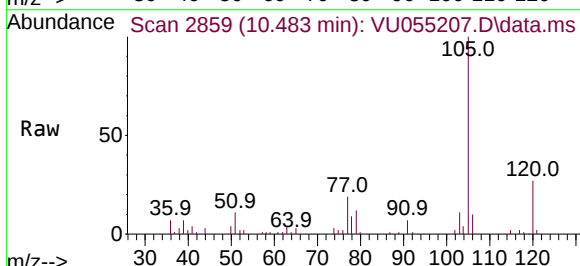
Instrument :
MSVOA_U
ClientSampleId :

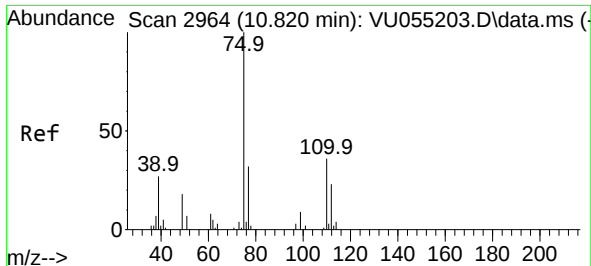
Tgt Ion:106 Resp: 8030
Ion Ratio Lower Upper
106 100
91 237.8 152.9 284.1



#60
Isopropylbenzene
Concen: 0.756 ug/L
RT: 10.483 min Scan# 2859
Delta R.T. 0.000 min
Lab File: VU055207.D
Acq: 08 Sep 2023 00:08

Tgt Ion:105 Resp: 39462
Ion Ratio Lower Upper
105 100
120 25.5 20.1 30.1
77 0.0 13.4 20.0#

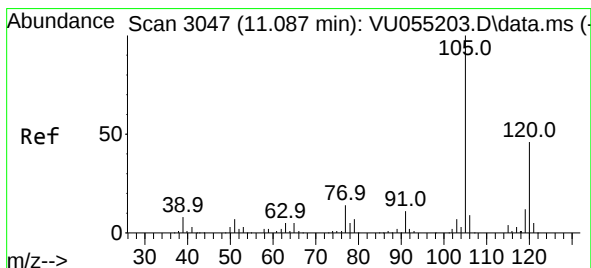
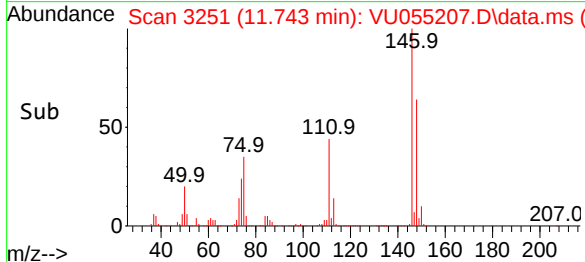
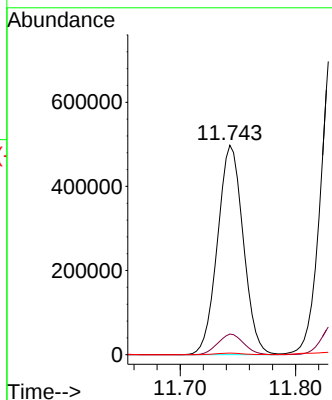
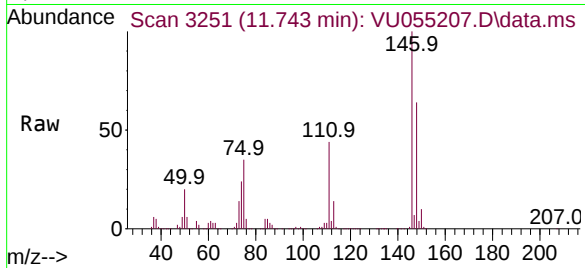




#61
1,2,3-Trichloropropane
Concen: 103.682 ug/L
RT: 11.743 min Scan# 3165
Delta R.T. 0.923 min
Lab File: VU055207.D
Acq: 08 Sep 2023 00:08

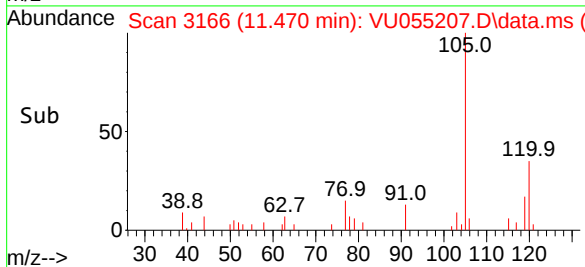
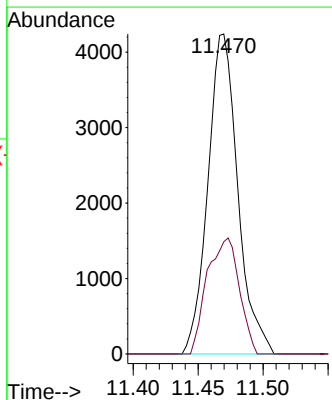
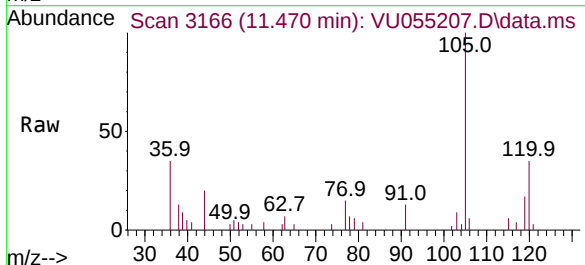
Instrument :
MSVOA_U
ClientSampleId :

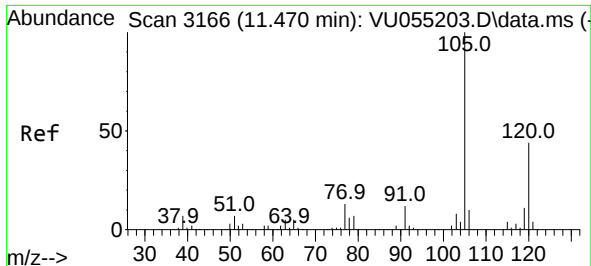
Tgt Ion: 75 Resp: 770325
Ion Ratio Lower Upper
75 100
110 9.9 28.2 42.2#
77 0.0 26.2 39.4#



#62
1,3,5-Trimethylbenzene
Concen: 0.156 ug/L
RT: 11.470 min Scan# 3166
Delta R.T. 0.383 min
Lab File: VU055207.D
Acq: 08 Sep 2023 00:08

Tgt Ion: 105 Resp: 6783
Ion Ratio Lower Upper
105 100
120 38.8 37.9 56.9





#63

1,2,4-Trimethylbenzene

Concen: 0.158 ug/L

RT: 11.470 min Scan# 3166

Delta R.T. 0.000 min

Lab File: VU055207.D

Acq: 08 Sep 2023 00:08

Instrument :

MSVOA_U

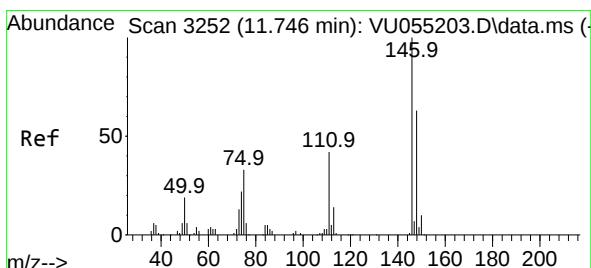
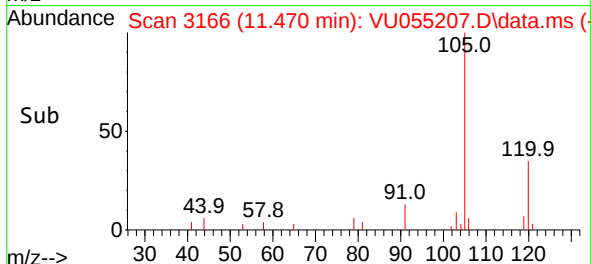
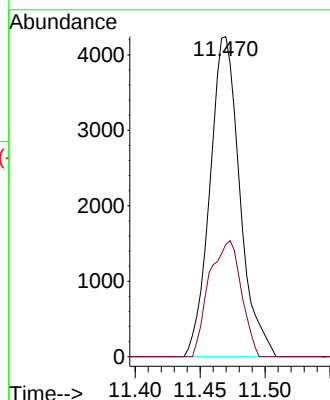
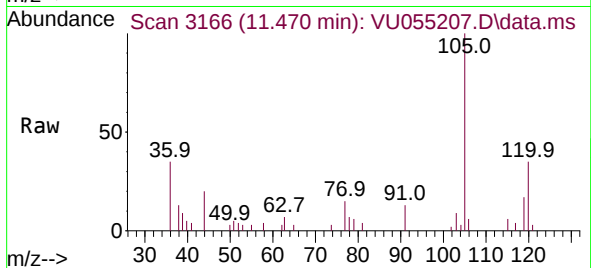
ClientSampleId :

Tgt Ion:105 Resp: 6783

Ion Ratio Lower Upper

105 100

120 38.8 35.4 53.0



#64

1,3-Dichlorobenzene

Concen: 87.711 ug/L

RT: 11.743 min Scan# 3251

Delta R.T. -0.003 min

Lab File: VU055207.D

Acq: 08 Sep 2023 00:08

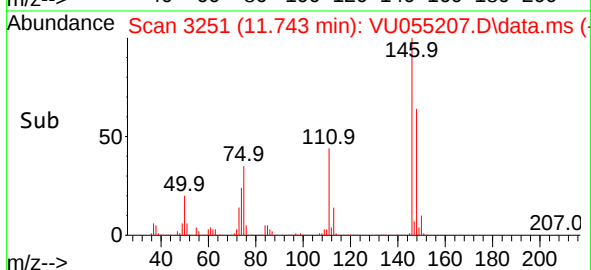
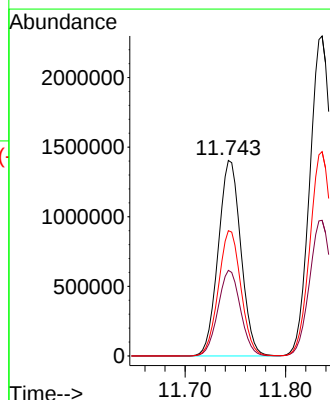
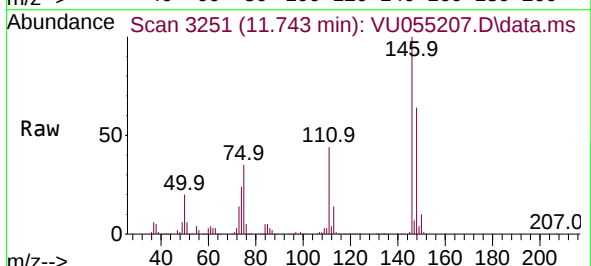
Tgt Ion:146 Resp: 2198284

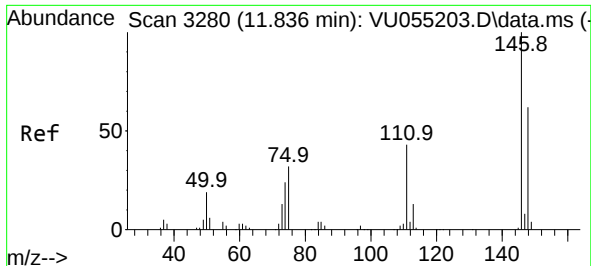
Ion Ratio Lower Upper

146 100

111 43.8 30.0 55.6

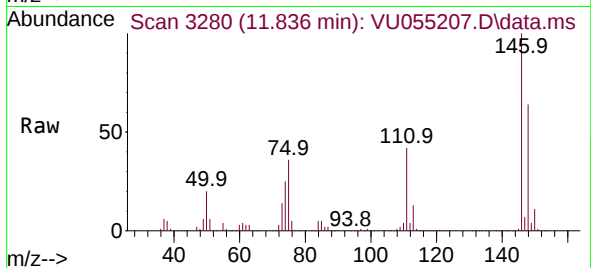
148 64.1 45.2 84.0



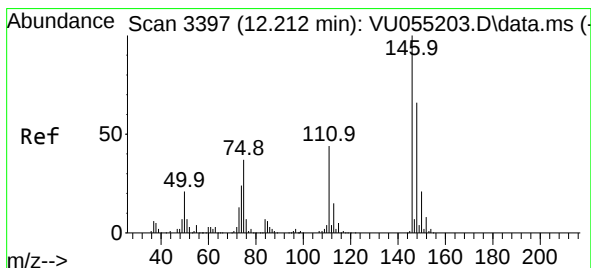
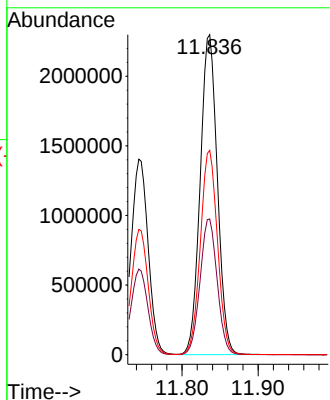
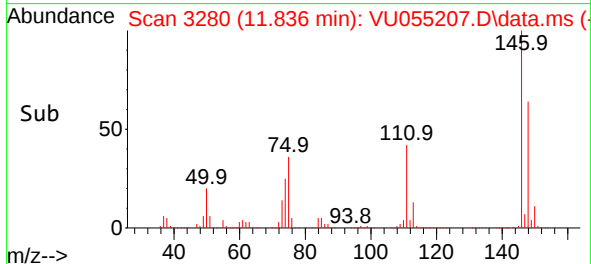


#65
1,4-Dichlorobenzene
Concen: 144.062 ug/L
RT: 11.836 min Scan# 31
Delta R.T. 0.000 min
Lab File: VU055207.D
Acq: 08 Sep 2023 00:08

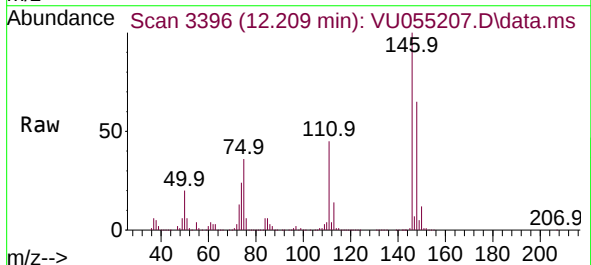
Instrument :
MSVOA_U
ClientSampleId :



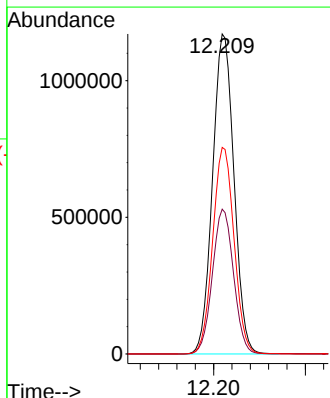
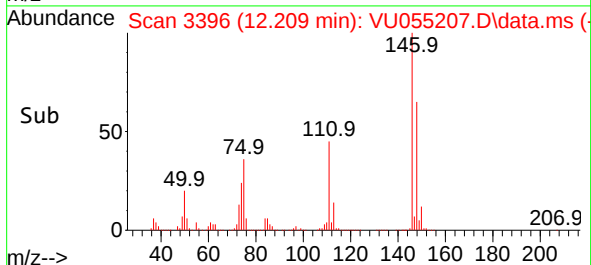
Tgt Ion:146 Resp: 3598492
Ion Ratio Lower Upper
146 100
111 42.4 28.1 52.1
148 63.8 43.8 81.3

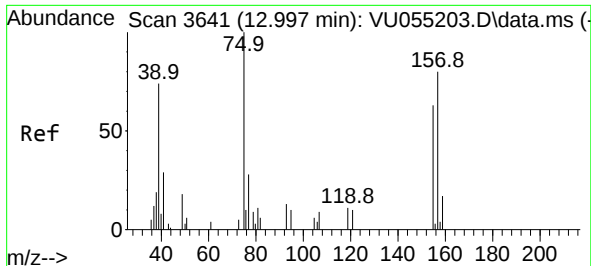


#67
1,2-Dichlorobenzene
Concen: 80.611 ug/L
RT: 12.209 min Scan# 3396
Delta R.T. -0.003 min
Lab File: VU055207.D
Acq: 08 Sep 2023 00:08



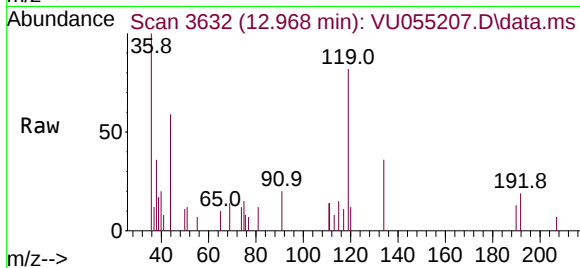
Tgt Ion:146 Resp: 1894178
Ion Ratio Lower Upper
146 100
111 45.3 35.6 53.4
148 64.5 51.3 76.9



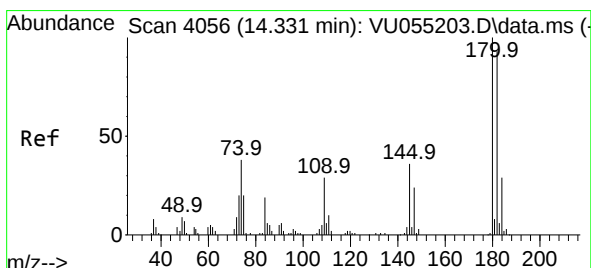
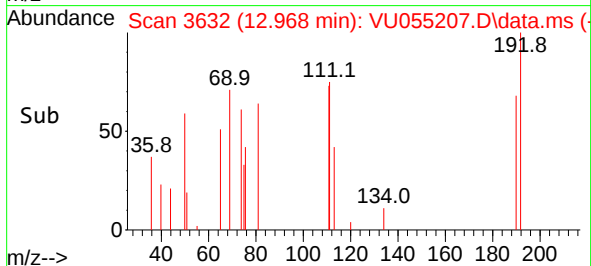
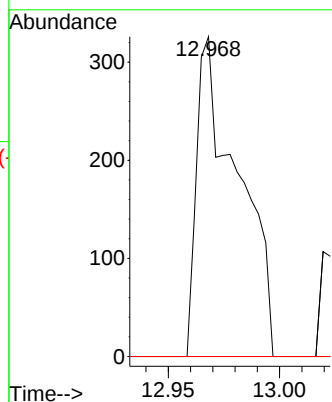


#68
 1,2-Dibromo-3-chloropropane
 Concen: 0.293 ug/L
 RT: 12.968 min Scan# 3632
 Delta R.T. -0.029 min
 Lab File: VU055207.D
 Acq: 08 Sep 2023 00:08

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion: 75 Resp: 419
 Ion Ratio Lower Upper
 75 100
 155 0.0 61.1 91.7#
 157 0.0 66.8 100.2#



#72
 1,2,3-Trichlorobenzene
 Concen: 269.849 ug/L
 RT: 14.331 min Scan# 4056
 Delta R.T. 0.000 min
 Lab File: VU055207.D
 Acq: 08 Sep 2023 00:08

Tgt Ion: 180 Resp: 4159726
 Ion Ratio Lower Upper
 180 100
 182 95.1 75.6 113.4
 145 35.2 27.0 40.6

