

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW121222\
 Data File : VW029636.D
 Acq On : 13 Dec 2022 07:30
 Operator : SY/MD
 Sample : N5928-14
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 EXZ75

Quant Time: Dec 13 07:53:13 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM120722WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Dec 13 04:57:44 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.609	114	469962	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.844	117	440822	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.236	152	243986	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.307	65	125361	43.561	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	87.120%
7) Chloroethane-d5	1.564	69	101607	46.302	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	92.600%
11) 1,1-Dichloroethene-d2	2.108	63	204930	45.655	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	91.300%
21) 2-Butanone-d5	3.876	46	143876	81.954	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	81.950%
24) Chloroform-d	4.339	84	212583	39.254	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	78.500%
26) 1,2-Dichloroethane-d4	5.024	65	125653	40.625	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	81.240%
32) Benzene-d6	5.043	84	469612	40.317	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	80.640%
36) 1,2-Dichloropropane-d6	6.063	67	140323	39.440	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	78.880%
41) Toluene-d8	7.307	98	421921	38.444	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	76.880%#
43) trans-1,3-Dichloroprop...	7.612	79	59050	32.867	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	65.740%
47) 2-Hexanone-d5	8.082	63	114489	75.356	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	75.360%
56) 1,1,2,2-Tetrachloroeth...	10.204	84	199668	39.272	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	78.540%
66) 1,2-Dichlorobenzene-d4	11.612	152	184393	39.701	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	79.400%#
Target Compounds						
					Qvalue	
9) Trichlorofluoromethane	1.751	101	14260	3.226	ug/L	98
10) 1,1,2-Trichloro-1,2,2-...	2.108	101	1936	0.788	ug/L #	22
12) 1,1-Dichloroethene	2.118	96	84651	33.698	ug/L #	80
13) Acetone	2.163	43	5960	5.211	ug/L	99
17) trans-1,2-Dichloroethene	2.757	96	60417	20.873	ug/L	92
19) 1,1-Dichloroethane	3.182	63	1317176	265.633	ug/L	99
20) cis-1,2-Dichloroethene	3.902	96	10567235	3320.090	ug/L	96
27) 1,2-Dichloroethane	5.127	62	16498	4.543	ug/L	94
30) 1,1,1-Trichloroethane	4.603	97	9219301	1919.592	ug/L	99
31) Carbon tetrachloride	4.603	117	1272319	303.366	ug/L	100
33) Benzene	5.098	78	32739	2.635	ug/L	100
34) Trichloroethene	5.912	95	22616	7.264	ug/L	94
35) Methylcyclohexane	6.063	83	33780	6.388	ug/L #	22
42) Toluene	7.381	91	348195	26.035	ug/L	98
45) 1,1,2-Trichloroethane	7.834	97	10069	3.250	ug/L	98
46) Tetrachloroethene	7.969	164	44553	17.797	ug/L	96
52) Ethylbenzene	9.005	91	90483	6.435	ug/L	99
53) m,p-Xylene	9.127	106	103870	18.665	ug/L	99
54) o-Xylene	9.535	106	102257	18.576	ug/L	99

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Quant Title : VOC Analysis
QLast Update : Tue Dec 13 04:57:44 2022
Response via : Initial Calibration

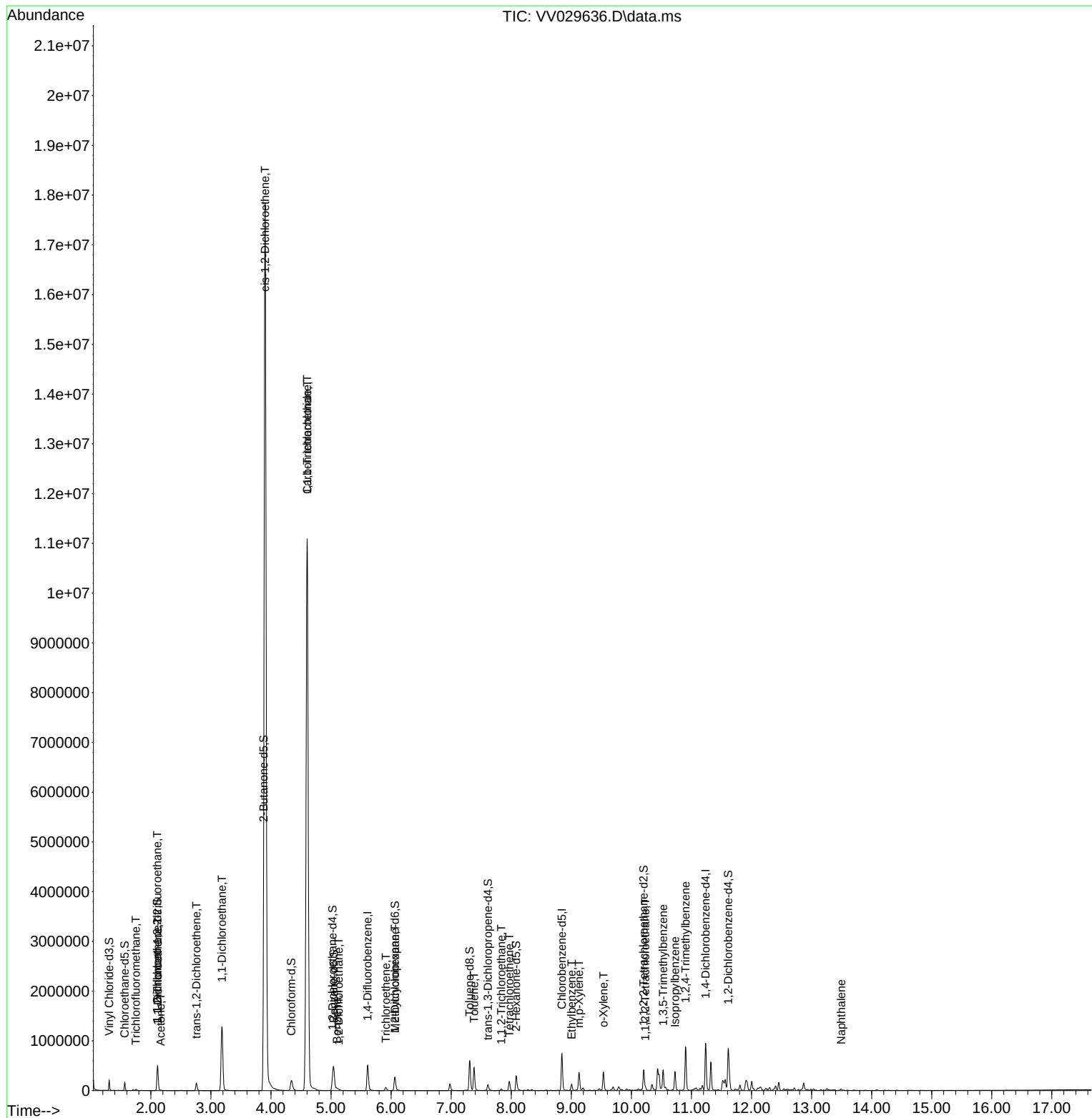
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) 1,1,2,2-Tetrachloroethane	10.230	83	6496	1.311	ug/L #	61
60) Isopropylbenzene	10.728	105	220151	15.369	ug/L	91
62) 1,3,5-Trimethylbenzene	10.529	105	216394	17.085	ug/L	100
63) 1,2,4-Trimethylbenzene	10.902	105	477484	38.031	ug/L	99
71) Naphthalene	13.493	128	25678	2.284	ug/L	98

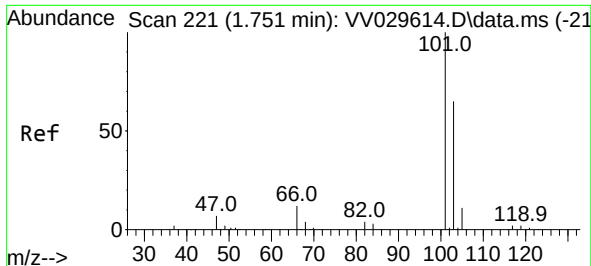
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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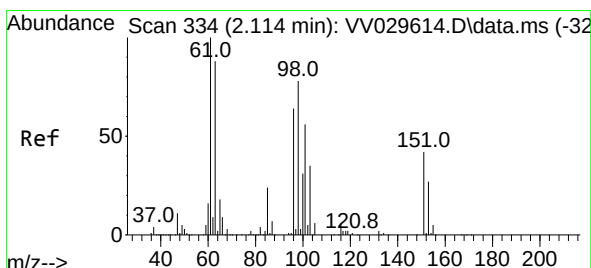
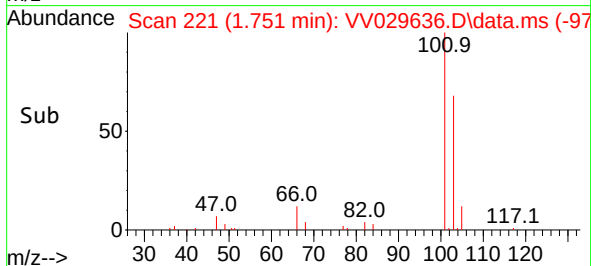
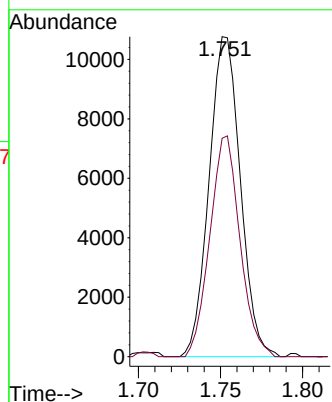
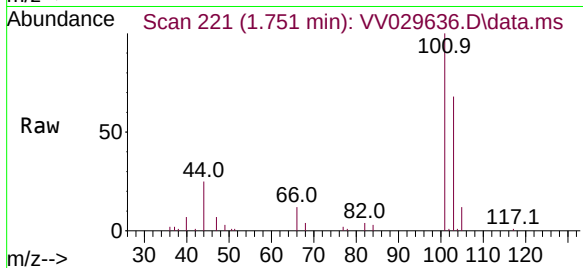




#9
 Trichlorofluoromethane
 Concen: 3.226 ug/L
 RT: 1.751 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VV029636.D
 Acq: 13 Dec 2022 07:30

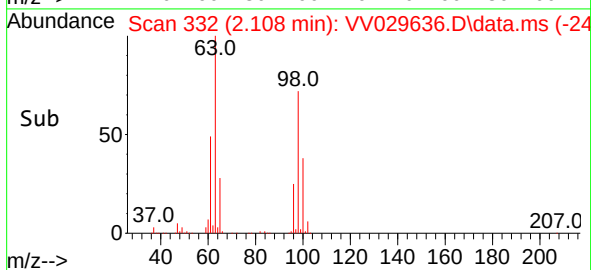
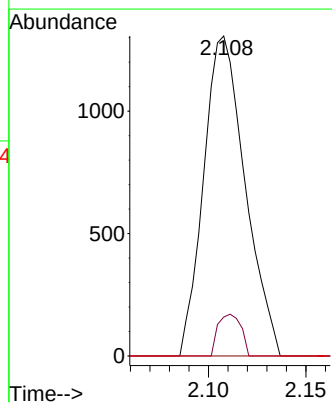
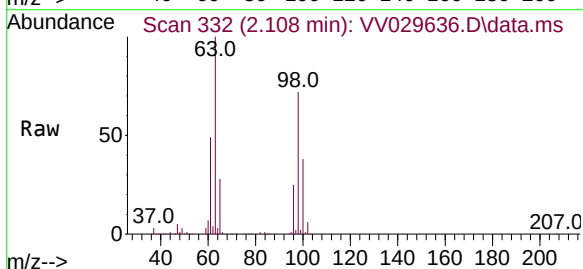
Instrument :
 MSVOA_V
 ClientSampleId :
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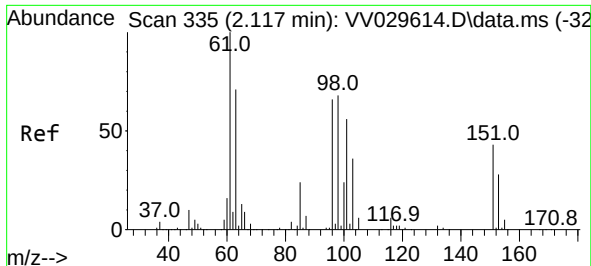
Tgt Ion:101 Resp: 14260
 Ion Ratio Lower Upper
 101 100
 103 66.4 51.8 77.8



#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.788 ug/L
 RT: 2.108 min Scan# 332
 Delta R.T. -0.006 min
 Lab File: VV029636.D
 Acq: 13 Dec 2022 07:30

Tgt Ion:101 Resp: 1936
 Ion Ratio Lower Upper
 101 100
 85 7.2 33.6 50.4#
 151 0.0 63.5 95.3#





#12

1,1-Dichloroethene

Concen: 33.698 ug/L

RT: 2.118 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV029636.D

Acq: 13 Dec 2022 07:30

Instrument :

MSVOA_V

ClientSampleId :

EXZ75

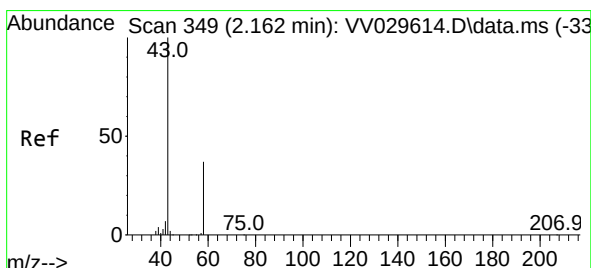
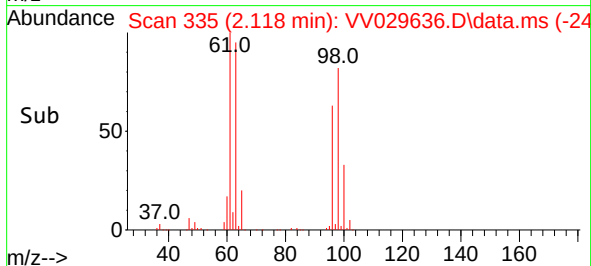
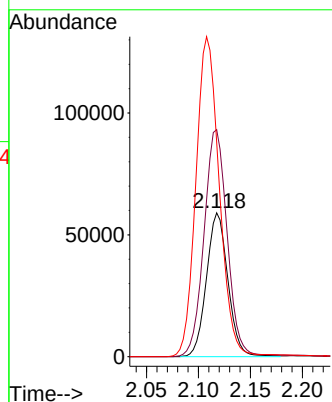
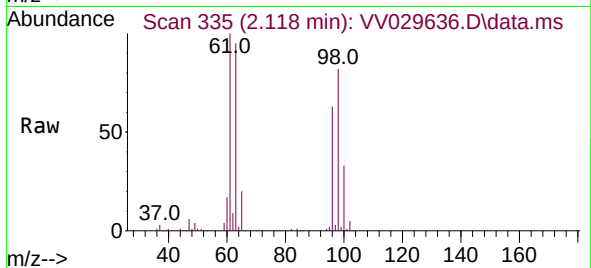
Tgt Ion: 96 Resp: 84651

Ion Ratio Lower Upper

96 100

61 157.8 103.3 191.9

63 149.2 77.3 143.7#



#13

Acetone

Concen: 5.211 ug/L

RT: 2.163 min Scan# 349

Delta R.T. 0.000 min

Lab File: VV029636.D

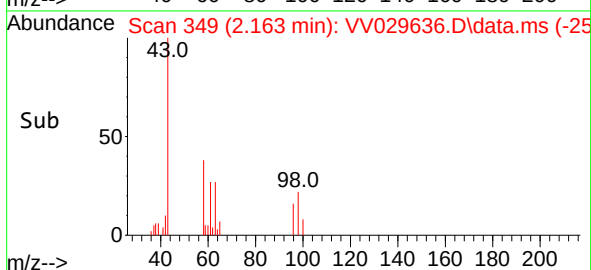
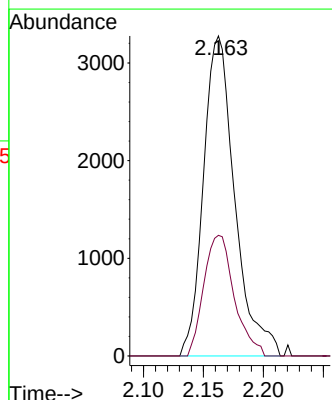
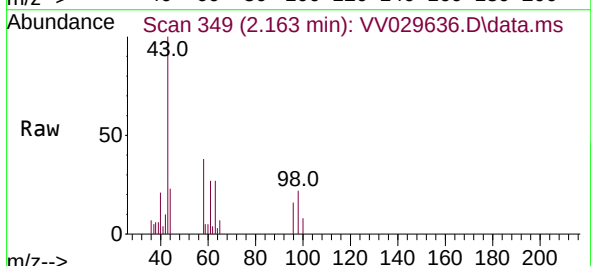
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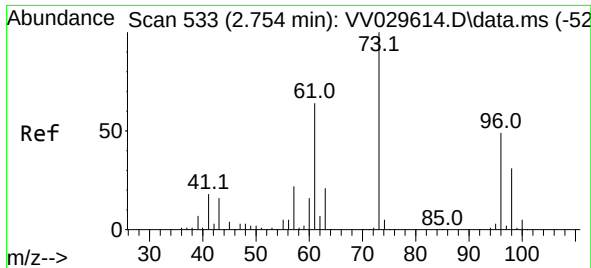
Tgt Ion: 43 Resp: 5960

Ion Ratio Lower Upper

43 100

58 36.6 0.0 74.8

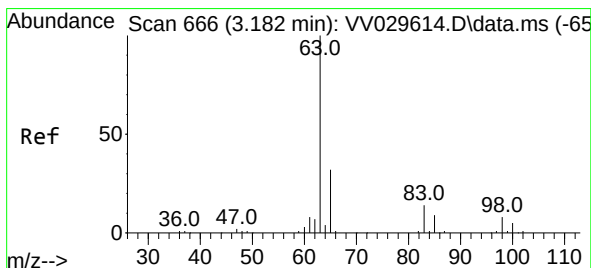
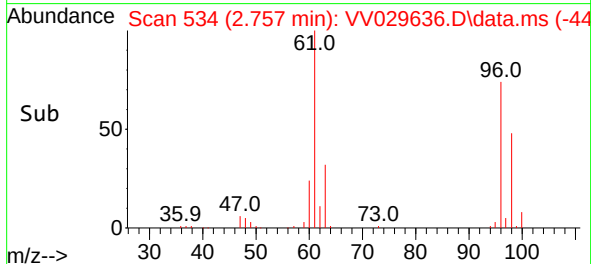
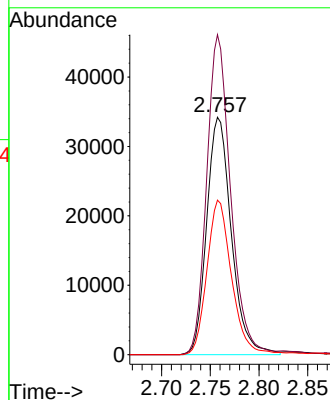
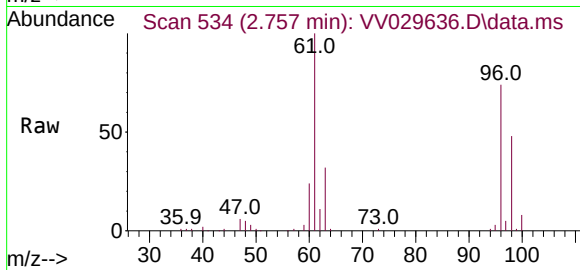




#17
trans-1,2-Dichloroethene
Concen: 20.873 ug/L
RT: 2.757 min Scan# 51
Delta R.T. 0.003 min
Lab File: VV029636.D
Acq: 13 Dec 2022 07:30

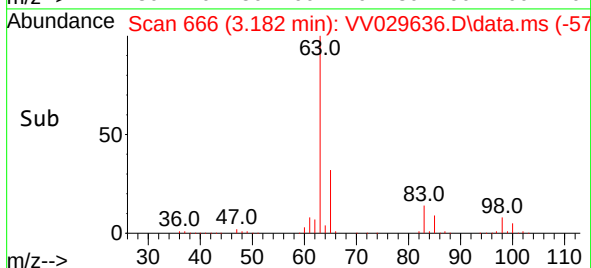
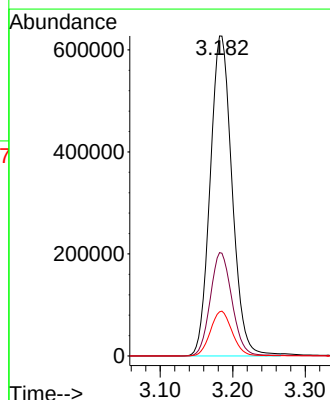
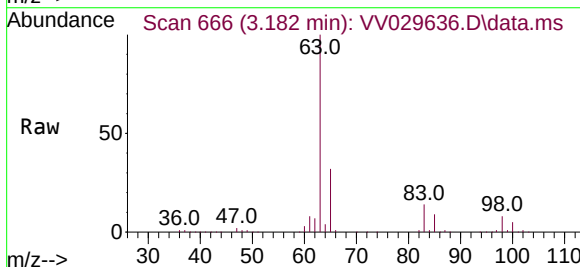
Instrument :
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EXZ75

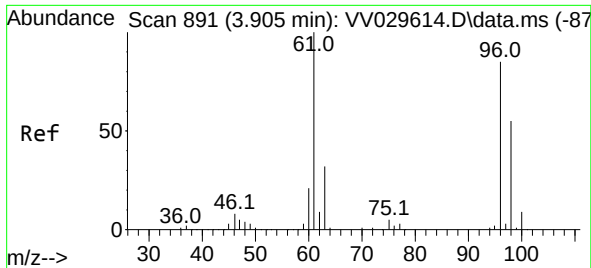
Tgt Ion: 96 Resp: 60417
Ion Ratio Lower Upper
96 100
61 134.8 86.4 160.4
98 65.1 43.4 80.6



#19
1,1-Dichloroethane
Concen: 265.633 ug/L
RT: 3.182 min Scan# 666
Delta R.T. 0.000 min
Lab File: VV029636.D
Acq: 13 Dec 2022 07:30

Tgt Ion: 63 Resp: 1317176
Ion Ratio Lower Upper
63 100
65 32.3 22.5 41.7
83 13.8 10.4 19.2

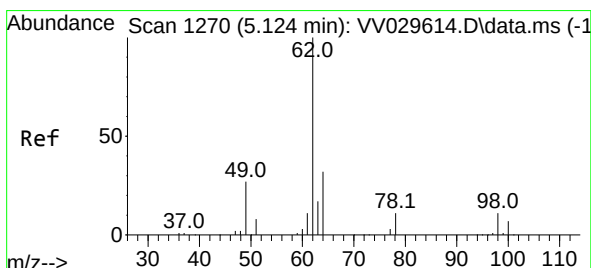
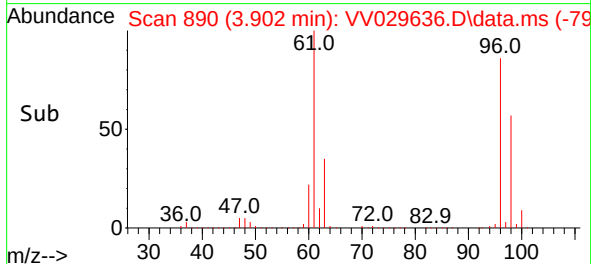
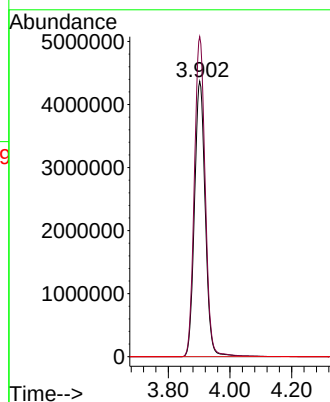
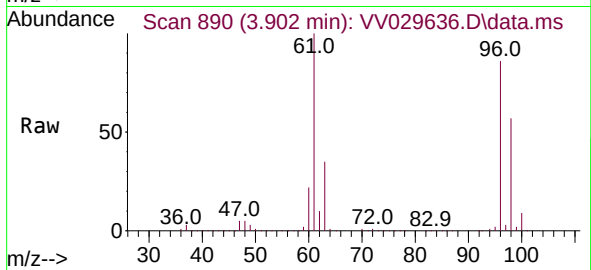




#20
 cis-1,2-Dichloroethene
 Concen: 3320.090 ug/L
 RT: 3.902 min Scan# 891
 Delta R.T. -0.003 min
 Lab File: VV029636.D
 Acq: 13 Dec 2022 07:30

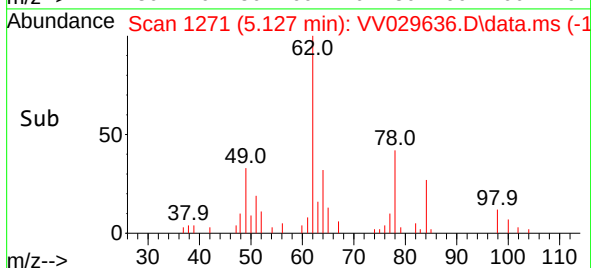
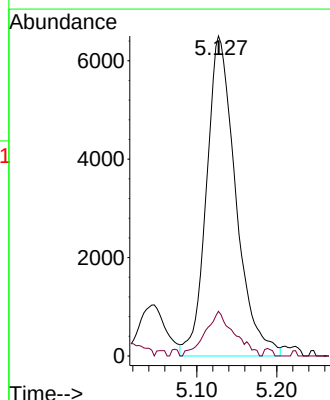
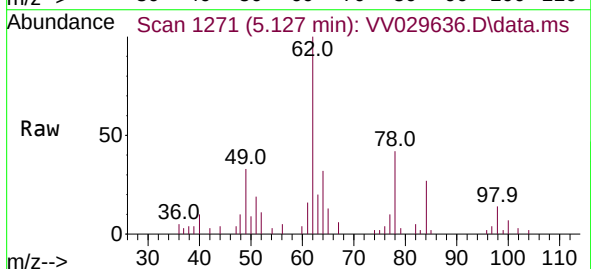
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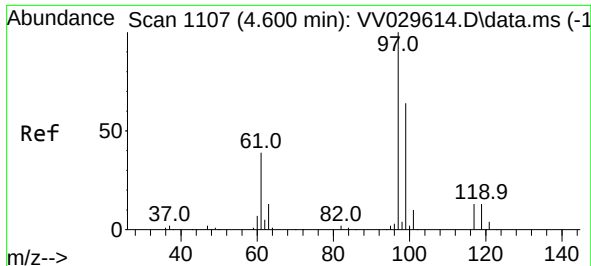
Tgt Ion: 96 Resp:10567235
 Ion Ratio Lower Upper
 96 100
 61 116.2 78.0 144.9
 68 0.0 0.0 0.0



#27
 1,2-Dichloroethane
 Concen: 4.543 ug/L
 RT: 5.127 min Scan# 1271
 Delta R.T. 0.003 min
 Lab File: VV029636.D
 Acq: 13 Dec 2022 07:30

Tgt Ion: 62 Resp: 16498
 Ion Ratio Lower Upper
 62 100
 98 13.9 9.4 14.0

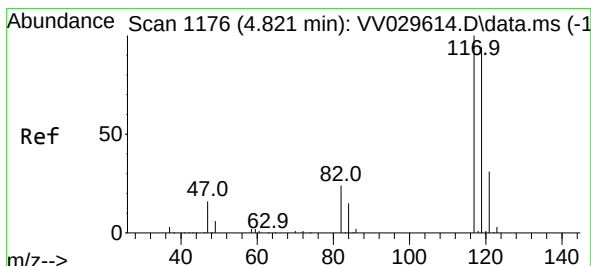
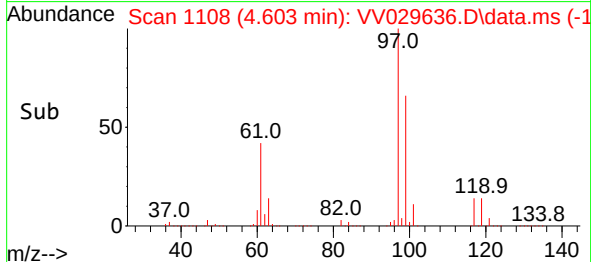
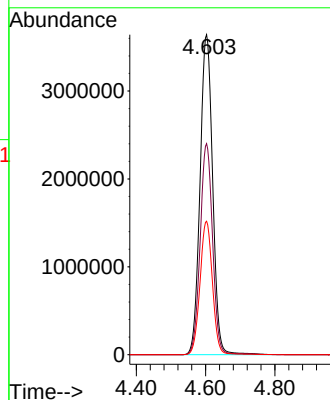
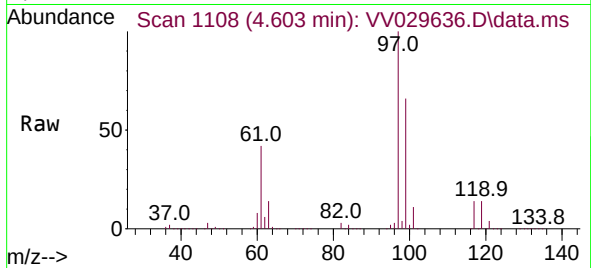




#30
 1,1,1-Trichloroethane
 Concen: 1919.592 ug/L
 RT: 4.603 min Scan# 1107
 Delta R.T. 0.003 min
 Lab File: VV029636.D
 Acq: 13 Dec 2022 07:30

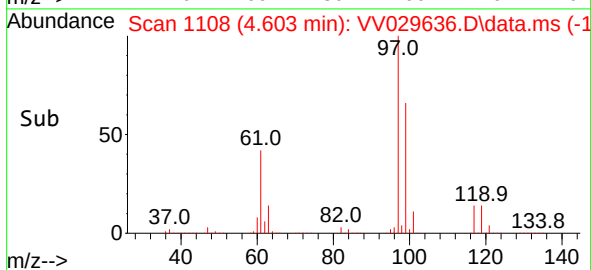
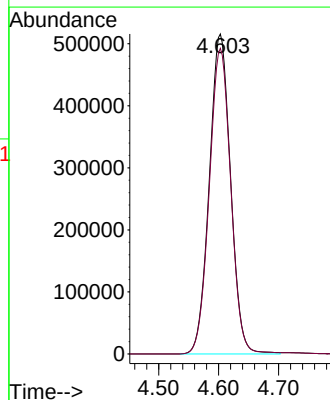
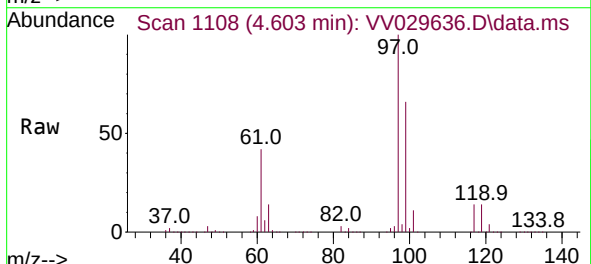
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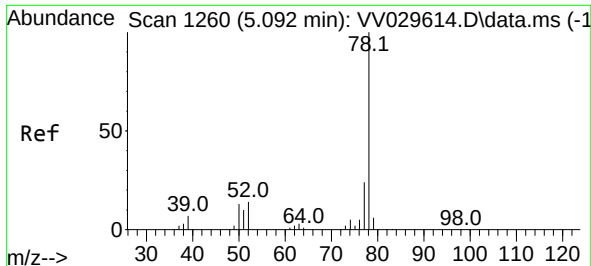
Tgt Ion: 97 Resp: 9219301
 Ion Ratio Lower Upper
 97 100
 99 65.2 52.1 78.1
 61 41.0 31.8 47.8



#31
 Carbon tetrachloride
 Concen: 303.366 ug/L
 RT: 4.603 min Scan# 1108
 Delta R.T. -0.219 min
 Lab File: VV029636.D
 Acq: 13 Dec 2022 07:30

Tgt Ion: 117 Resp: 1272319
 Ion Ratio Lower Upper
 117 100
 119 96.2 76.7 115.1

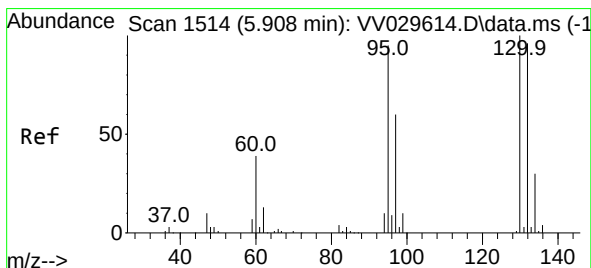
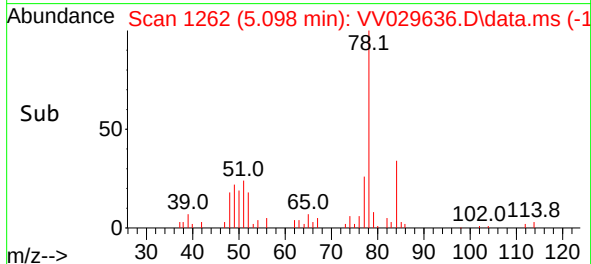
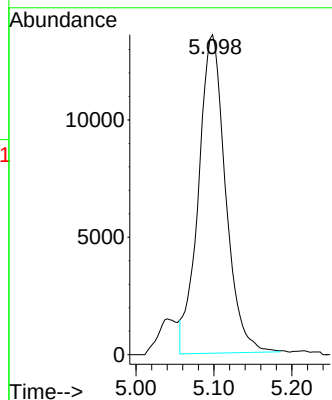
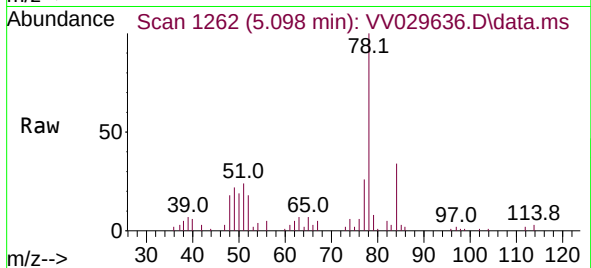




#33
Benzene
Concen: 2.635 ug/L
RT: 5.098 min Scan# 11
Delta R.T. 0.007 min
Lab File: VV029636.D
Acq: 13 Dec 2022 07:30

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ClientSampleId :
EXZ75

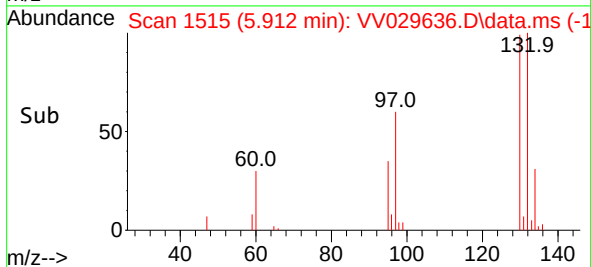
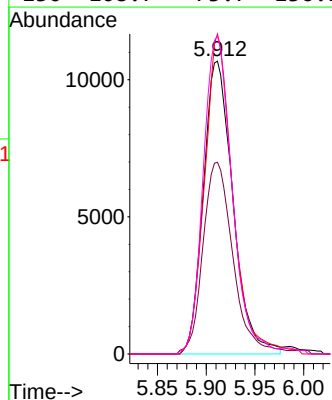
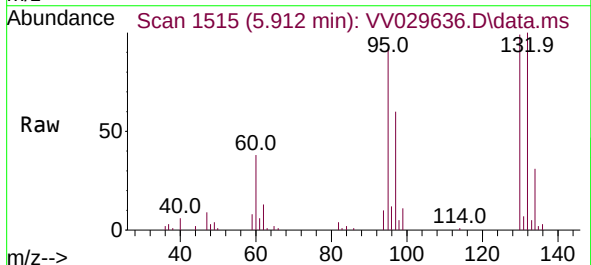
Tgt Ion: 78 Resp: 32739

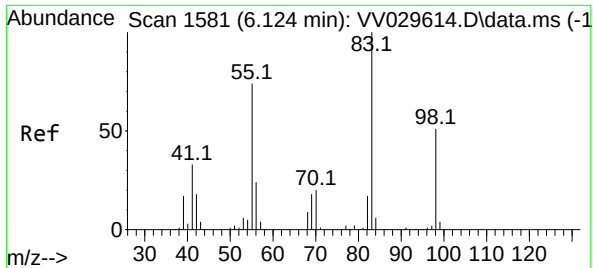


#34
Trichloroethene
Concen: 7.264 ug/L
RT: 5.912 min Scan# 1515
Delta R.T. 0.003 min
Lab File: VV029636.D
Acq: 13 Dec 2022 07:30

Tgt Ion: 95 Resp: 22616

Ion	Ratio	Lower	Upper
95	100		
97	65.4	44.0	81.8
132	109.3	69.9	129.9
130	108.7	73.7	136.9

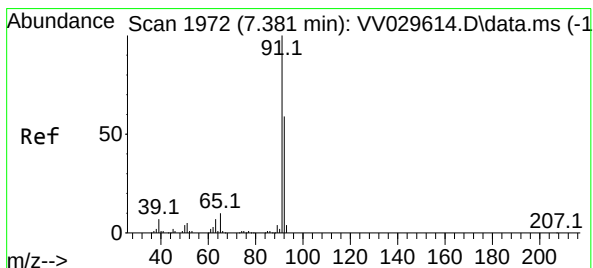
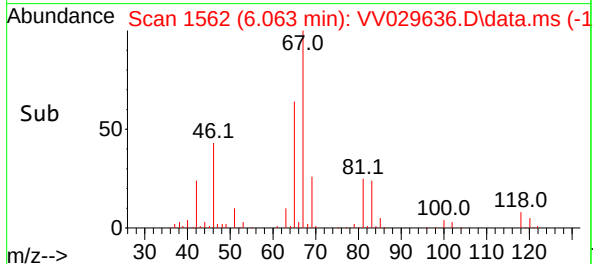
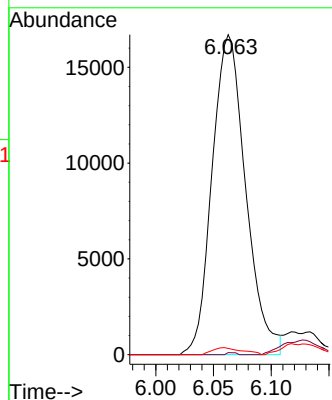
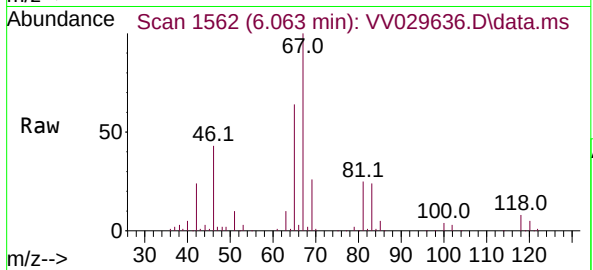




#35
Methylcyclohexane
Concen: 6.388 ug/L
RT: 6.063 min Scan# 1562
Delta R.T. -0.061 min
Lab File: VV029636.D
Acq: 13 Dec 2022 07:30

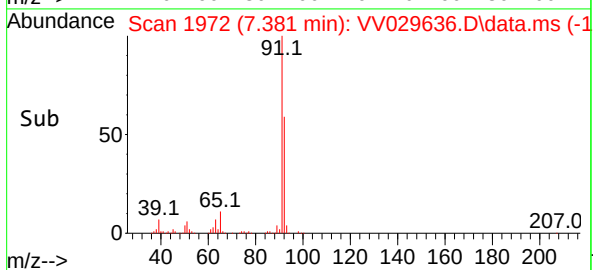
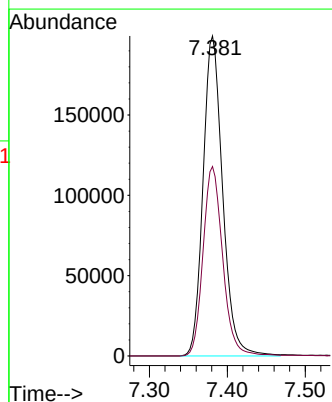
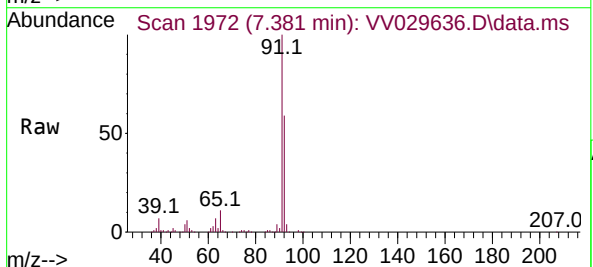
Instrument :
MSVOA_V
ClientSampleId :
EXZ75

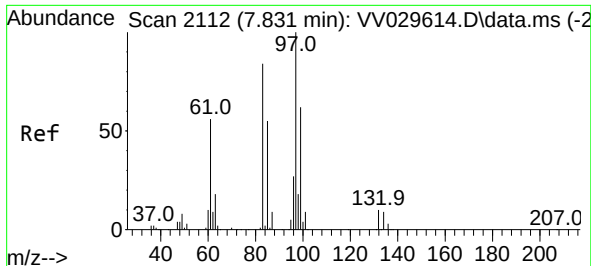
Tgt Ion: 83 Resp: 33780
Ion Ratio Lower Upper
83 100
55 0.2 55.5 83.3#
98 1.9 39.8 59.8#



#42
Toluene
Concen: 26.035 ug/L
RT: 7.381 min Scan# 1972
Delta R.T. 0.000 min
Lab File: VV029636.D
Acq: 13 Dec 2022 07:30

Tgt Ion: 91 Resp: 348195
Ion Ratio Lower Upper
91 100
92 59.2 40.6 75.4

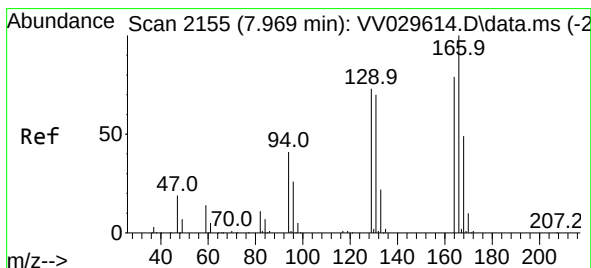
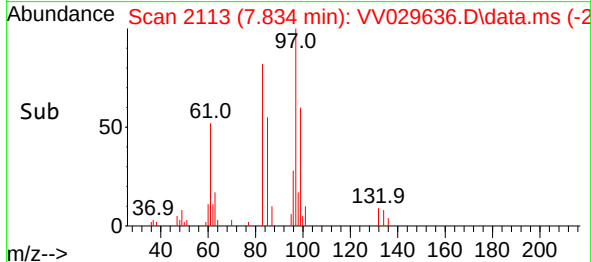
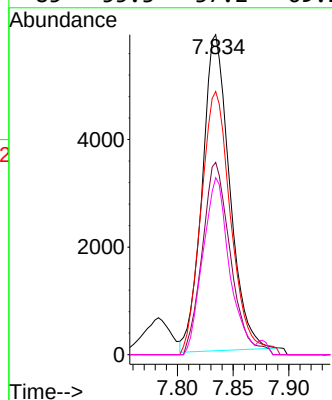
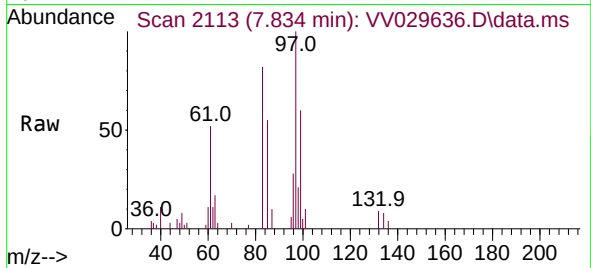




#45
1,1,2-Trichloroethane
Concen: 3.250 ug/L
RT: 7.834 min Scan# 2112
Delta R.T. 0.003 min
Lab File: VV029636.D
Acq: 13 Dec 2022 07:30

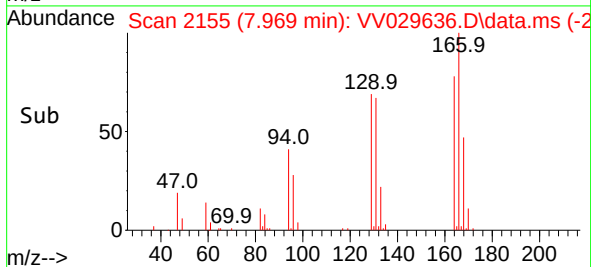
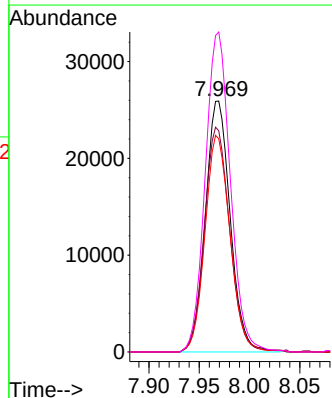
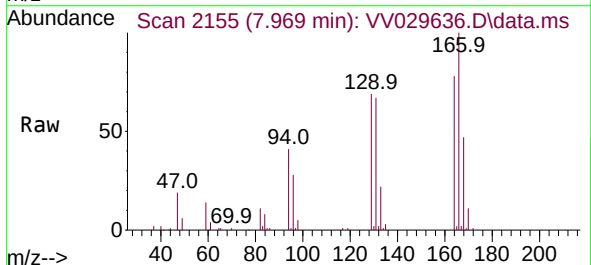
Instrument :
MSVOA_V
ClientSampleId :
EXZ75

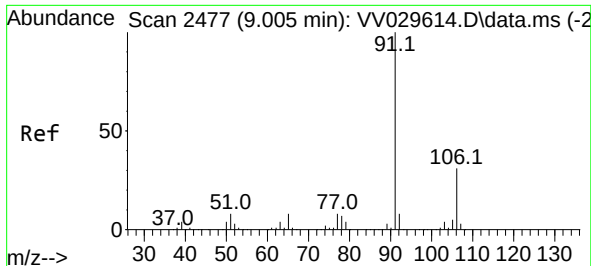
Tgt Ion: 97	Resp: 10069
Ion Ratio	Lower Upper
97 100	
99 60.1	43.8 81.3
83 82.2	58.6 108.8
85 55.3	37.2 69.2



#46
Tetrachloroethene
Concen: 17.797 ug/L
RT: 7.969 min Scan# 2155
Delta R.T. 0.000 min
Lab File: VV029636.D
Acq: 13 Dec 2022 07:30

Tgt Ion: 164	Resp: 44553
Ion Ratio	Lower Upper
164 100	
129 88.1	65.3 121.3
131 84.9	63.1 117.1
166 127.5	90.8 168.6

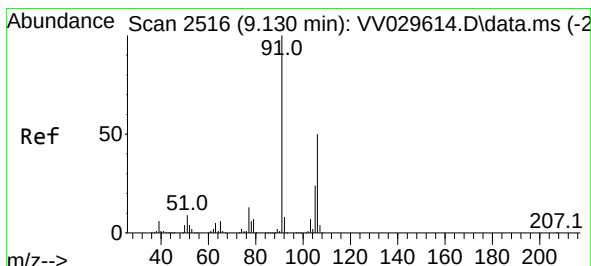
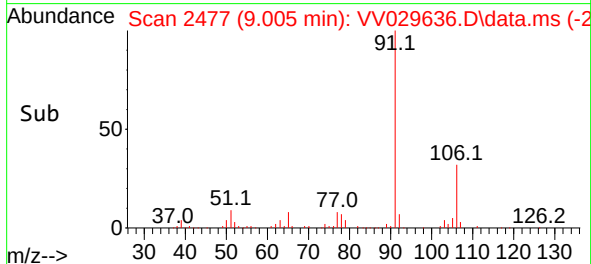
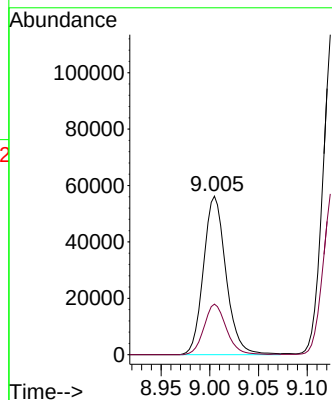
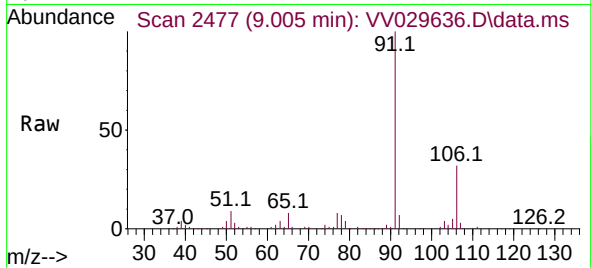




#52
Ethylbenzene
Concen: 6.435 ug/L
RT: 9.005 min Scan# 2477
Delta R.T. 0.000 min
Lab File: VV029636.D
Acq: 13 Dec 2022 07:30

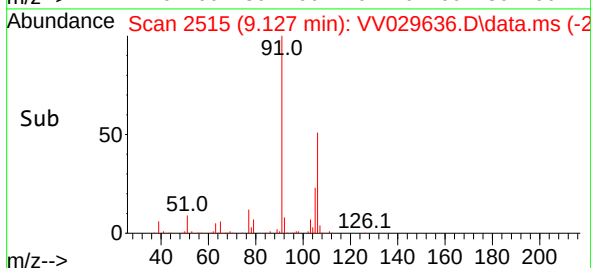
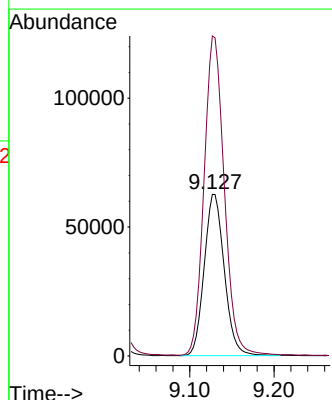
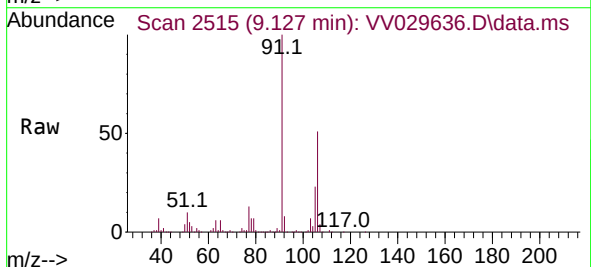
Instrument :
MSVOA_V
ClientSampleId :
EXZ75

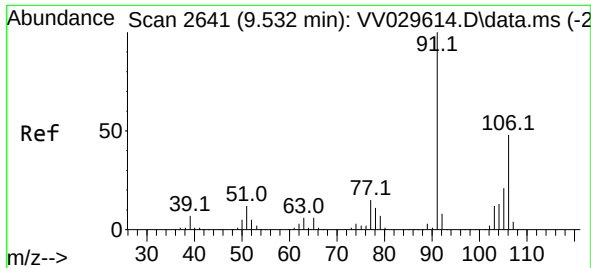
Tgt Ion: 91 Resp: 90483
Ion Ratio Lower Upper
91 100
106 31.9 21.8 40.6



#53
m,p-Xylene
Concen: 18.665 ug/L
RT: 9.127 min Scan# 2515
Delta R.T. -0.003 min
Lab File: VV029636.D
Acq: 13 Dec 2022 07:30

Tgt Ion: 106 Resp: 103870
Ion Ratio Lower Upper
106 100
91 198.0 139.5 259.1

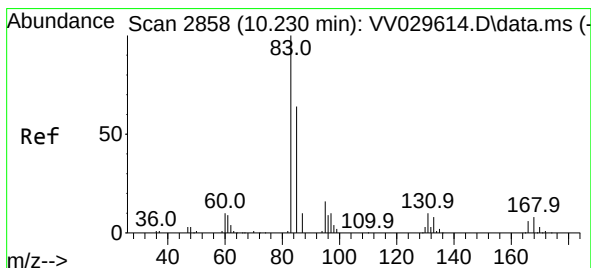
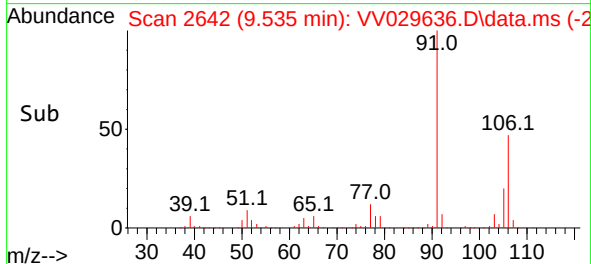
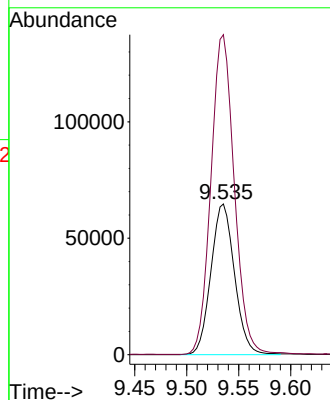
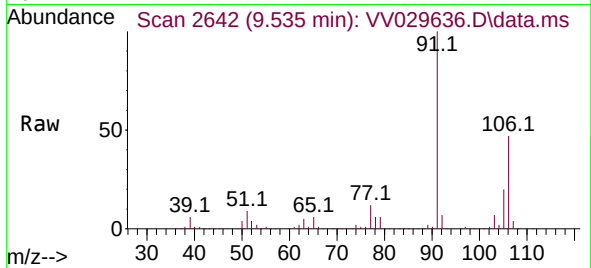




#54
o-Xylene
Concen: 18.576 ug/L
RT: 9.535 min Scan# 210
Delta R.T. 0.003 min
Lab File: VV029636.D
Acq: 13 Dec 2022 07:30

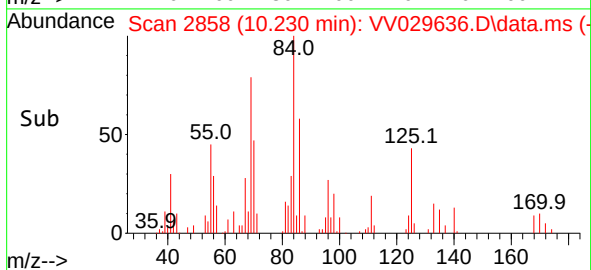
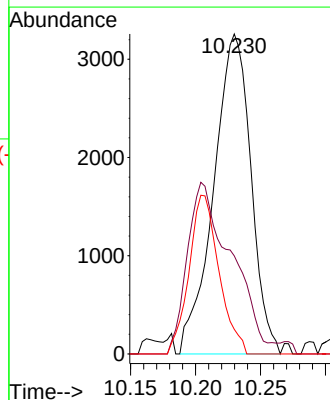
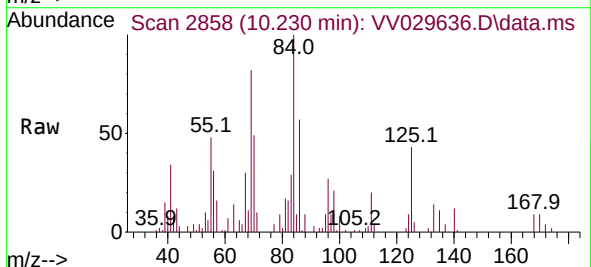
Instrument :
MSVOA_V
ClientSampleId :
EXZ75

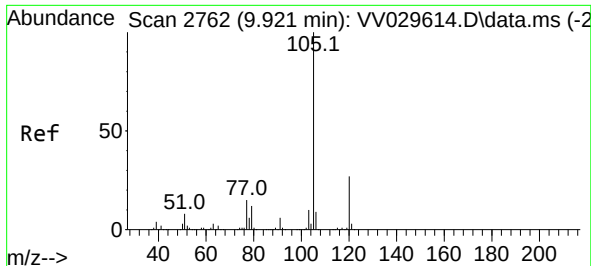
Tgt Ion:106 Resp: 102257
Ion Ratio Lower Upper
106 100
91 212.3 148.0 274.8



#57
1,1,2,2-Tetrachloroethane
Concen: 1.311 ug/L
RT: 10.230 min Scan# 2858
Delta R.T. 0.000 min
Lab File: VV029636.D
Acq: 13 Dec 2022 07:30

Tgt Ion: 83 Resp: 6496
Ion Ratio Lower Upper
83 100
85 30.7 45.7 84.9#
131 7.7 7.9 11.9#

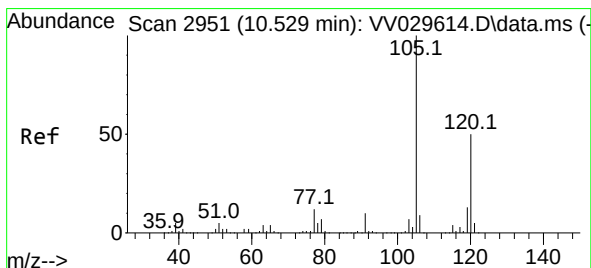
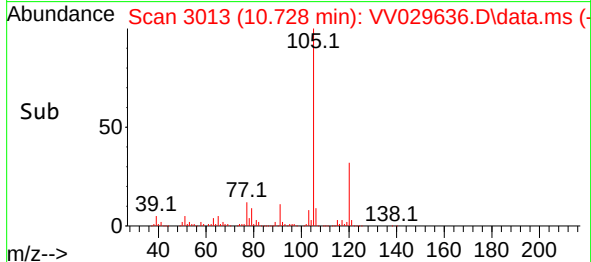
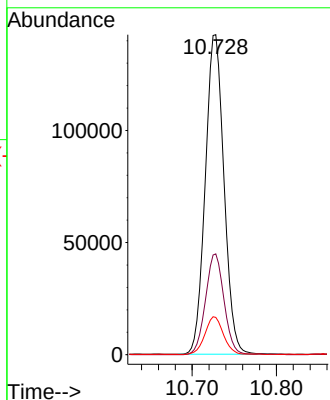
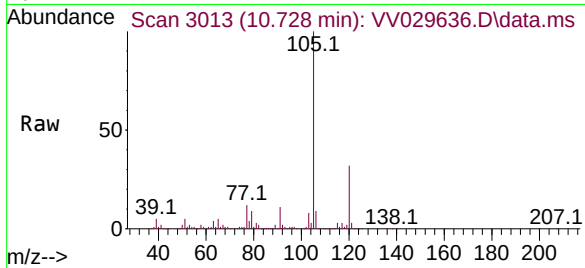




#60
Isopropylbenzene
Concen: 15.369 ug/L
RT: 10.728 min Scan# 3013
Delta R.T. 0.807 min
Lab File: VV029636.D
Acq: 13 Dec 2022 07:30

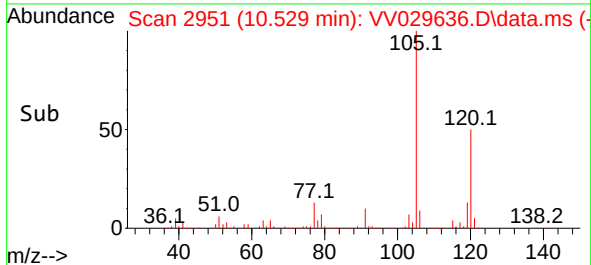
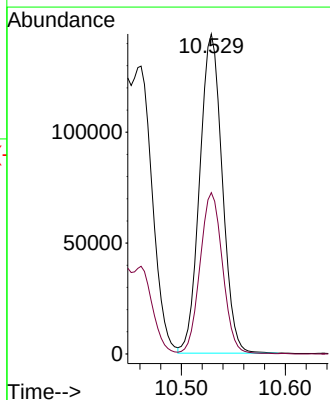
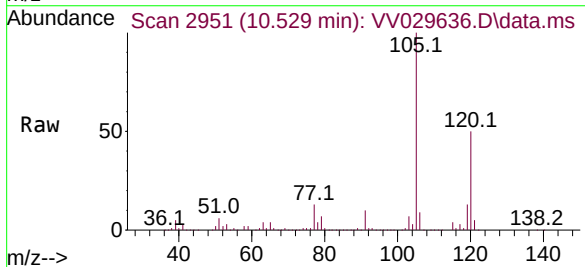
Instrument :
MSVOA_V
ClientSampleId :
EXZ75

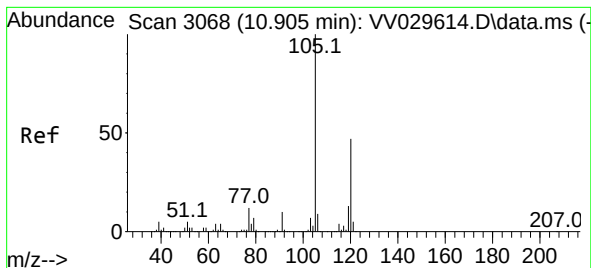
Tgt Ion:105 Resp: 220151
Ion Ratio Lower Upper
105 100
120 31.3 21.1 31.7
77 11.7 11.6 17.4



#62
1,3,5-Trimethylbenzene
Concen: 17.085 ug/L
RT: 10.529 min Scan# 2951
Delta R.T. 0.000 min
Lab File: VV029636.D
Acq: 13 Dec 2022 07:30

Tgt Ion:105 Resp: 216394
Ion Ratio Lower Upper
105 100
120 50.3 40.0 60.0





#63

1,2,4-Trimethylbenzene

Concen: 38.031 ug/L

RT: 10.902 min Scan# 3067

Delta R.T. -0.003 min

Lab File: VV029636.D

Acq: 13 Dec 2022 07:30

Instrument :

MSVOA_V

ClientSampleId :

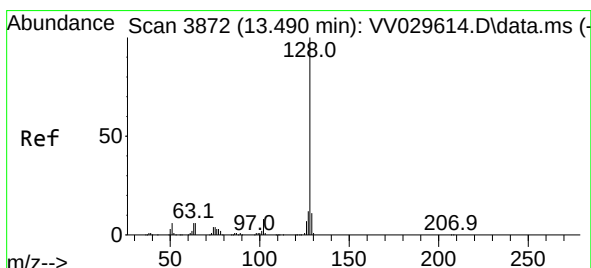
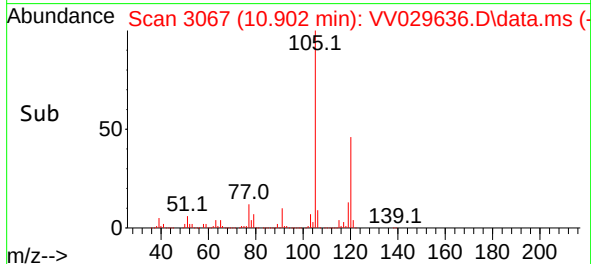
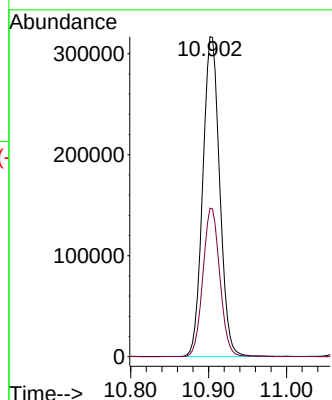
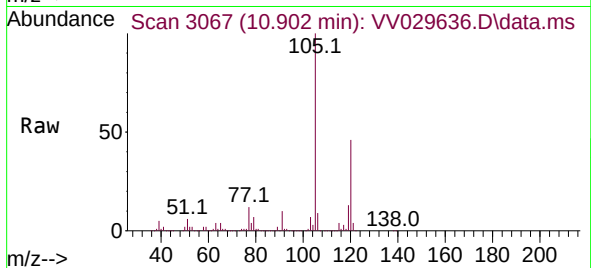
EXZ75

Tgt Ion:105 Resp: 477484

Ion Ratio Lower Upper

105 100

120 46.4 36.7 55.1



#71

Naphthalene

Concen: 2.284 ug/L

RT: 13.493 min Scan# 3873

Delta R.T. 0.003 min

Lab File: VV029636.D

Acq: 13 Dec 2022 07:30

Tgt Ion:128 Resp: 25678

Ion Ratio Lower Upper

128 100

127 12.9 10.2 15.4

129 12.0 8.5 12.7

