

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW102023\
 Data File : VW027377.D
 Acq On : 20 Oct 2023 16:34
 Operator : SY/MD
 Sample : 04922-03
 Misc : 5.98g/10mL/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Oct 21 04:30:29 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM101123SMA.M
 Quant Title : SFAM01.0
 QLast Update : Sat Oct 21 04:25:20 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.843	114	374780	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.629	117	256456	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.555	152	81907	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.368	65	106318	18.588	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	74.360%
7) Chloroethane-d5	2.899	69	81950	19.954	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	79.800%
11) 1,1-Dichloroethene-d2	4.027	65	48386	16.883	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	67.520%
21) 2-Butanone-d5	7.081	46	121776	64.055	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	128.120%
24) Chloroform-d	7.654	84	212328	19.008	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	76.040%
26) 1,2-Dichloroethane-d4	8.215	65	149	0.025	ug/L	-0.09
Spiked Amount	25.000	Range	70 - 130	Recovery	=	0.080%#
32) Benzene-d6	8.276	84	417922	24.086	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	96.360%
36) 1,2-Dichloropropane-d6	9.276	67	145144	27.387	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	109.560%
41) Toluene-d8	10.324	98	290994	18.494	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	73.960%
43) trans-1,3-Dichloroprop...	10.574	79	46166	19.106	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	76.440%
47) 2-Hexanone-d5	10.922	63	88914	81.090	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	162.180%#
56) 1,1,2,2-Tetrachloroeth...	12.690	84	113450	28.692	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	114.760%
66) 1,2-Dichlorobenzene-d4	13.848	152	47238	15.915	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	63.640%#
Target Compounds						
					Qvalue	
13) Acetone	4.136	43	39956	24.334	ug/L	97
16) Methylene chloride	4.923	84	15857	2.311	ug/L	97
18) Methyl tert-butyl Ether	5.429	73	6824	0.749	ug/L #	68
22) 2-Butanone	7.179	43	16633	6.768	ug/L	98
29) Cyclohexane	7.953	56	11136	1.430	ug/L	92
33) Benzene	8.325	78	132301	7.894	ug/L	100
35) Methylcyclohexane	9.337	83	26574	3.357	ug/L #	73
42) Toluene	10.385	91	34743	1.976	ug/L	97
45) 1,1,2-Trichloroethane	10.757	97	10903	3.496	ug/L #	24
48) 2-Hexanone	10.928	43	25129	10.894	ug/L #	50
51) Chlorobenzene	11.653	112	6841	0.621	ug/L	89
52) Ethylbenzene	11.726	91	34054	1.667	ug/L	99
53) m,p-Xylene	11.836	106	270447	34.899	ug/L	97
54) o-Xylene	12.159	106	312283	42.081	ug/L	96
55) Styrene	12.165	104	15557	1.227	ug/L #	1
60) Isopropylbenzene	12.458	105	75358	5.857	ug/L	98
62) 1,3,5-Trimethylbenzene	12.940	105	94434	8.798	ug/L	99
63) 1,2,4-Trimethylbenzene	13.245	105	171726	16.353	ug/L	100
64) 1,3-Dichlorobenzene	13.501	146	2998	0.575	ug/L #	44

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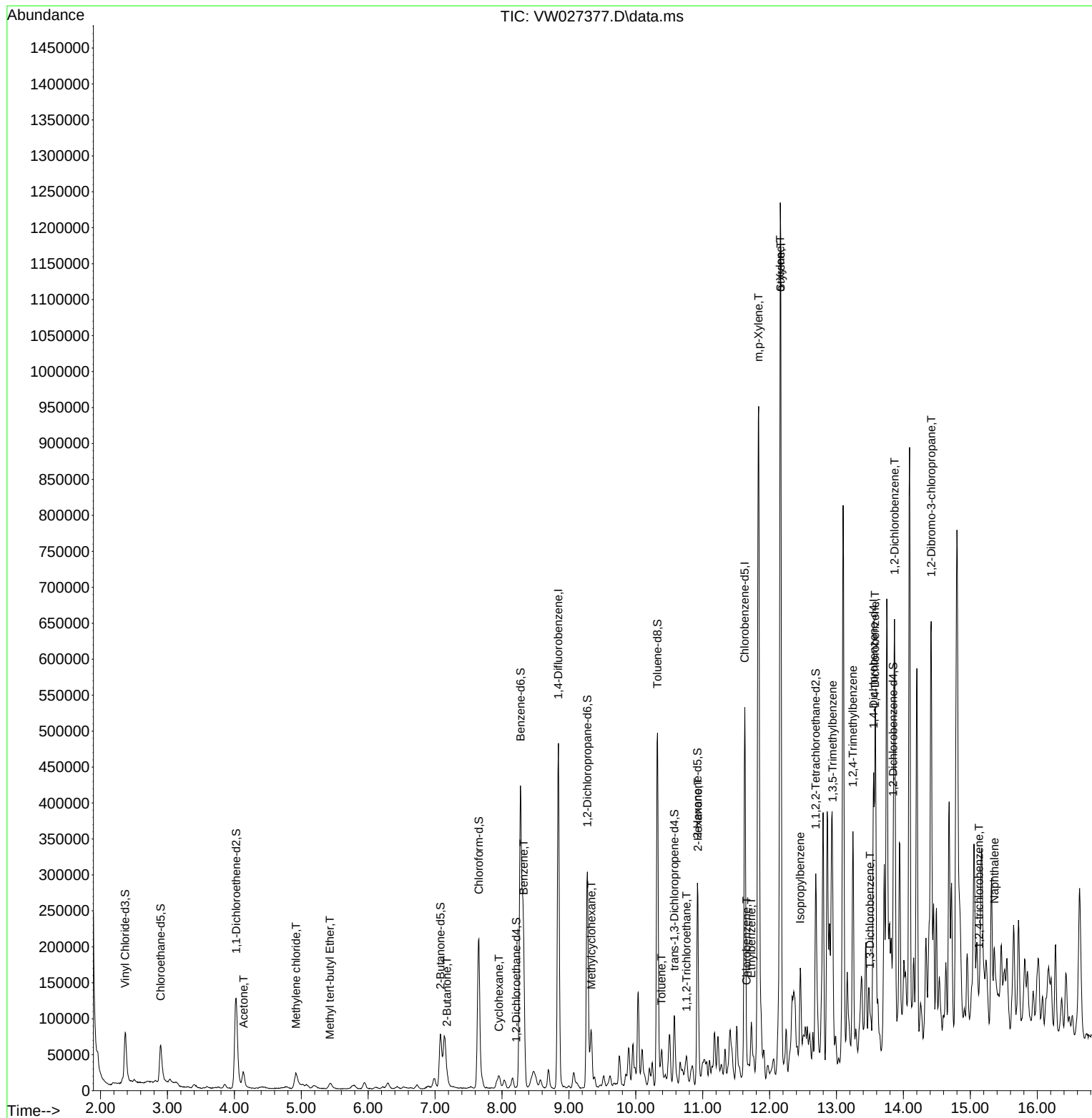
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) 1,4-Dichlorobenzene	13.574	146	8134	1.561	ug/L #	76
67) 1,2-Dichlorobenzene	13.866	146	75654	16.340	ug/L	95
68) 1,2-Dibromo-3-chloropr...	14.415	75	3436	7.687	ug/L #	22
70) 1,2,4-trichlorobenzene	15.128	180	4372	1.516	ug/L #	84
71) Naphthalene	15.360	128	88551	14.936	ug/L	97

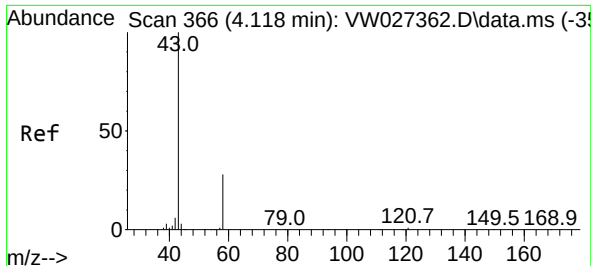
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

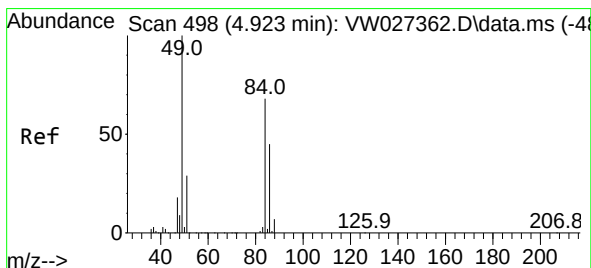
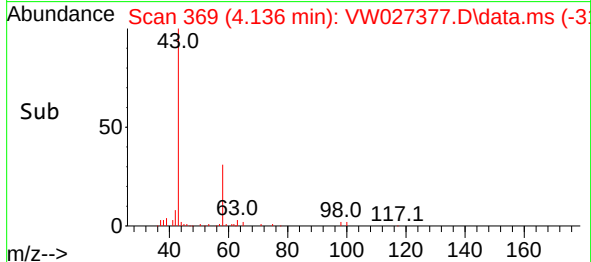
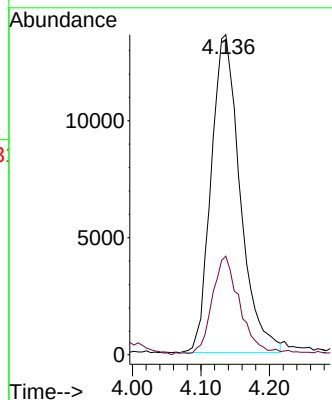
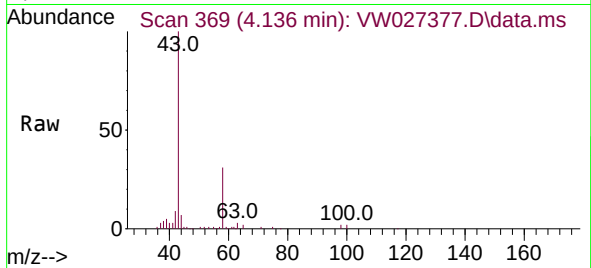




#13
Acetone
Concen: 24.334 ug/L
RT: 4.136 min Scan# 369
Delta R.T. 0.018 min
Lab File: VW027377.D
Acq: 20 Oct 2023 16:34

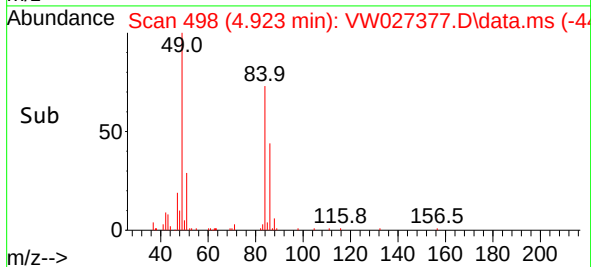
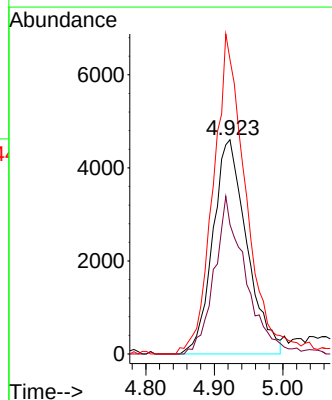
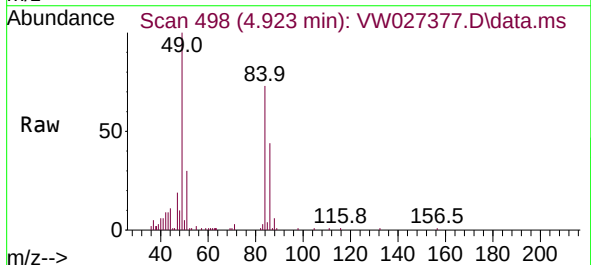
Instrument :
MSVOA_W
ClientSampleId :

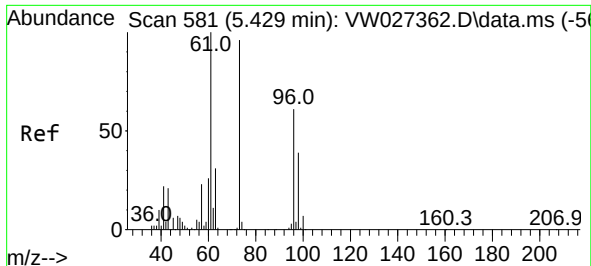
Tgt Ion: 43 Resp: 39956
Ion Ratio Lower Upper
43 100
58 28.8 0.0 60.8



#16
Methylene chloride
Concen: 2.311 ug/L
RT: 4.923 min Scan# 498
Delta R.T. 0.000 min
Lab File: VW027377.D
Acq: 20 Oct 2023 16:34

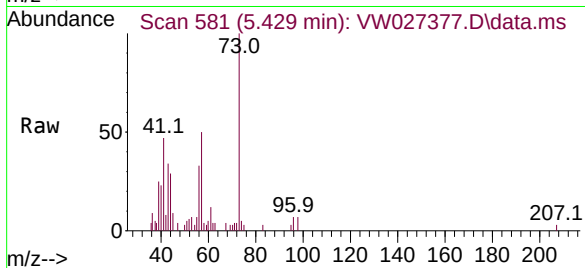
Tgt Ion: 84 Resp: 15857
Ion Ratio Lower Upper
84 100
86 60.4 41.3 76.7
49 137.5 92.8 172.4



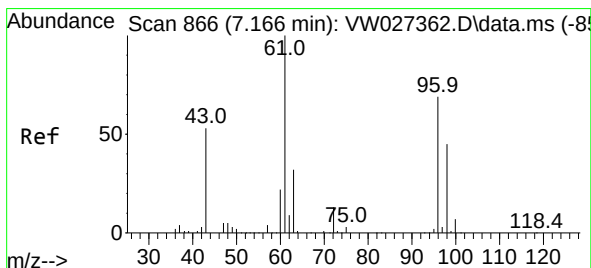
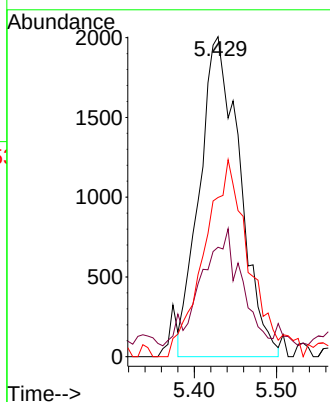
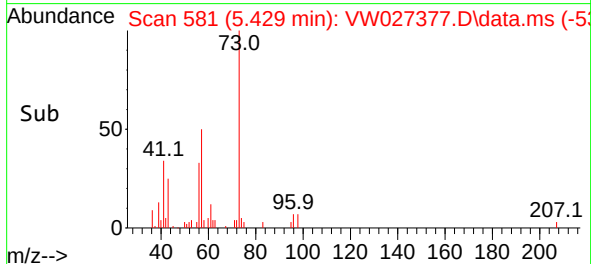


#18
Methyl tert-butyl Ether
Concen: 0.749 ug/L
RT: 5.429 min Scan# 581
Delta R.T. 0.000 min
Lab File: VW027377.D
Acq: 20 Oct 2023 16:34

Instrument :
MSVOA_W
ClientSampleId :

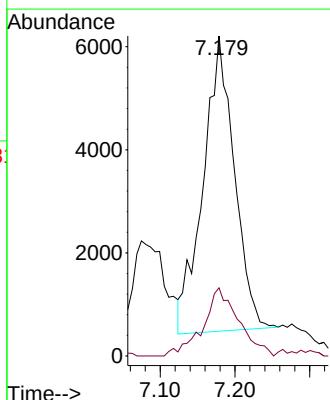
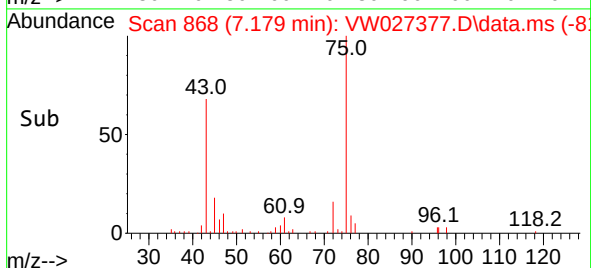
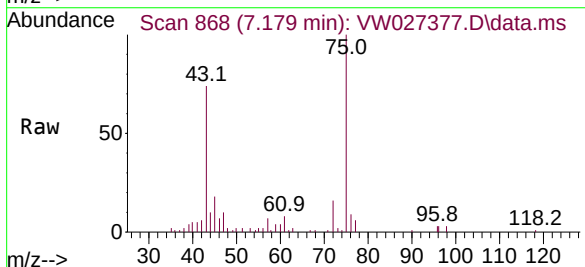


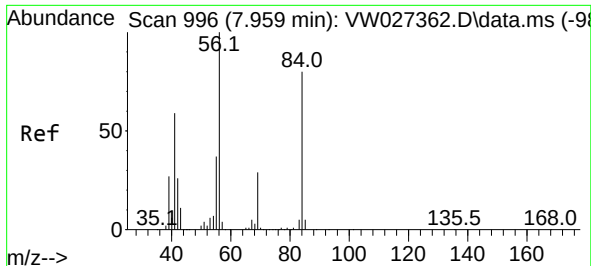
Tgt Ion: 73 Resp: 6824
Ion Ratio Lower Upper
73 100
43 14.9 17.7 26.5#
57 0.0 18.5 27.7#



#22
2-Butanone
Concen: 6.768 ug/L
RT: 7.179 min Scan# 868
Delta R.T. 0.012 min
Lab File: VW027377.D
Acq: 20 Oct 2023 16:34

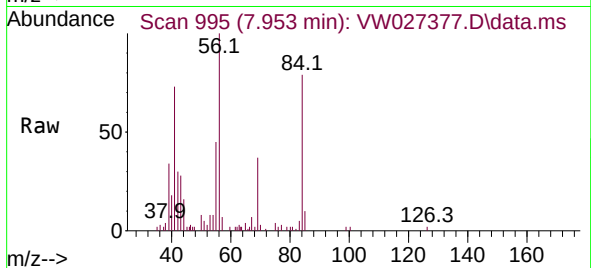
Tgt Ion: 43 Resp: 16633
Ion Ratio Lower Upper
43 100
72 25.5 12.3 36.8



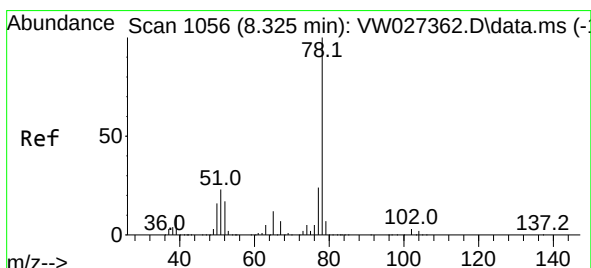
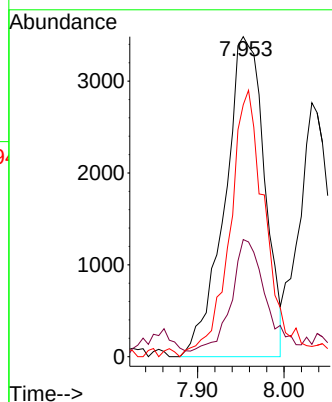
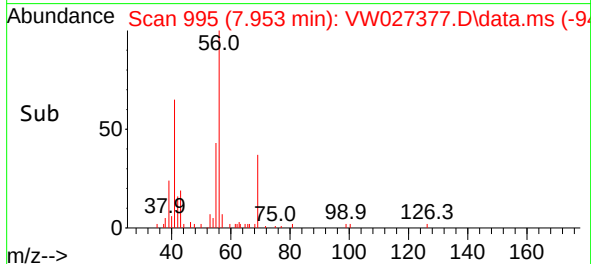


#29
Cyclohexane
Concen: 1.430 ug/L
RT: 7.953 min Scan# 995
Delta R.T. -0.006 min
Lab File: VW027377.D
Acq: 20 Oct 2023 16:34

Instrument :
MSVOA_W
ClientSampleId :

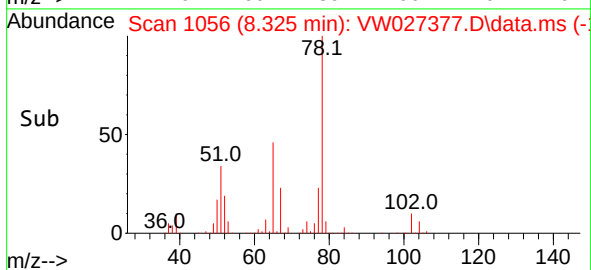
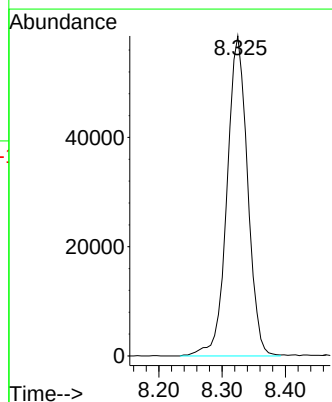
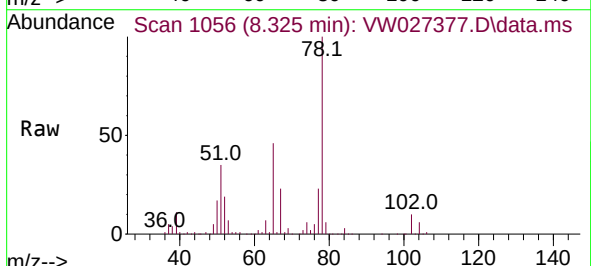


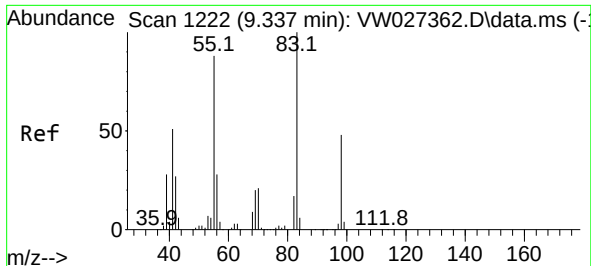
Tgt Ion: 56 Resp: 11136
Ion Ratio Lower Upper
56 100
69 31.0 24.2 36.4
84 72.6 65.1 97.7



#33
Benzene
Concen: 7.894 ug/L
RT: 8.325 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VW027377.D
Acq: 20 Oct 2023 16:34

Tgt Ion: 78 Resp: 132301

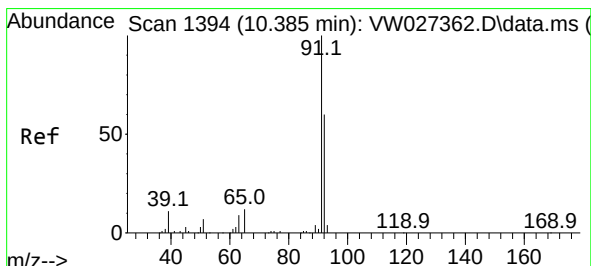
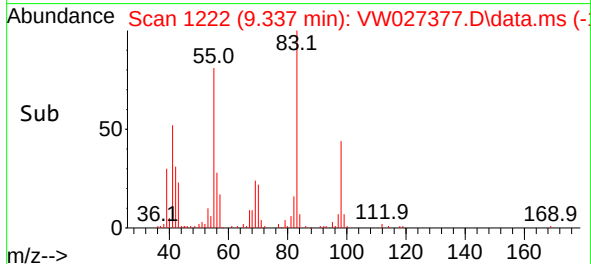
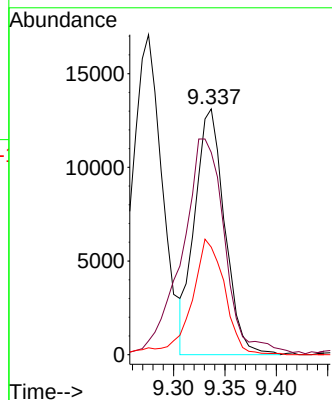
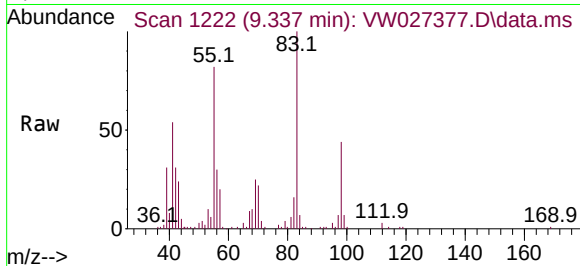




#35
Methylcyclohexane
Concen: 3.357 ug/L
RT: 9.337 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW027377.D
Acq: 20 Oct 2023 16:34

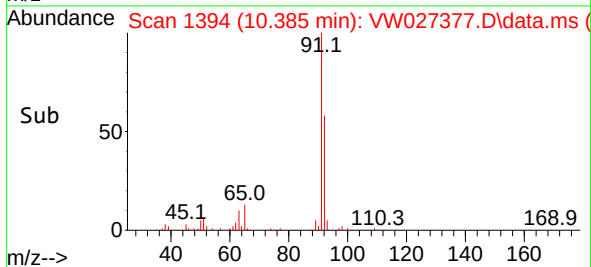
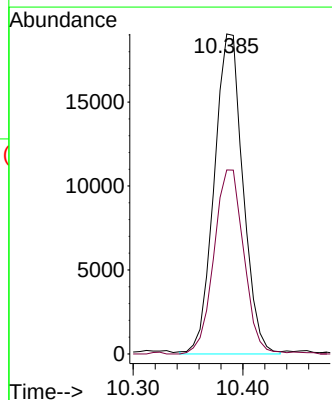
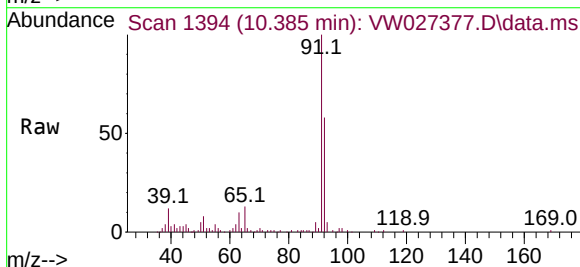
Instrument :
MSVOA_W
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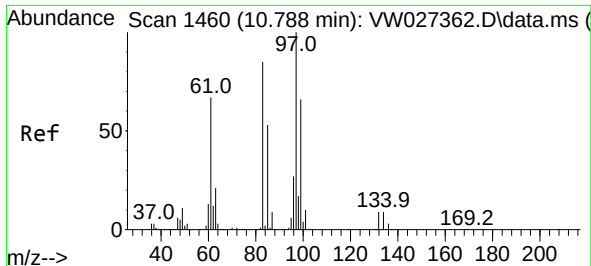
Tgt Ion: 83 Resp: 26574
Ion Ratio Lower Upper
83 100
55 118.9 65.8 98.8#
98 49.6 38.1 57.1



#42
Toluene
Concen: 1.976 ug/L
RT: 10.385 min Scan# 1394
Delta R.T. 0.000 min
Lab File: VW027377.D
Acq: 20 Oct 2023 16:34

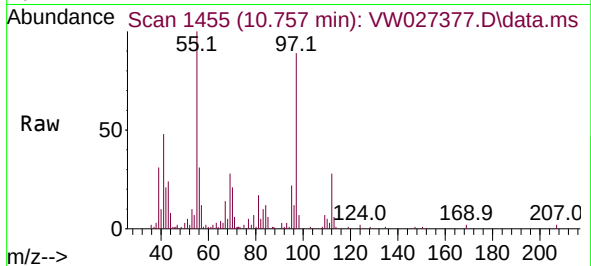
Tgt Ion: 91 Resp: 34743
Ion Ratio Lower Upper
91 100
92 57.5 42.1 78.1



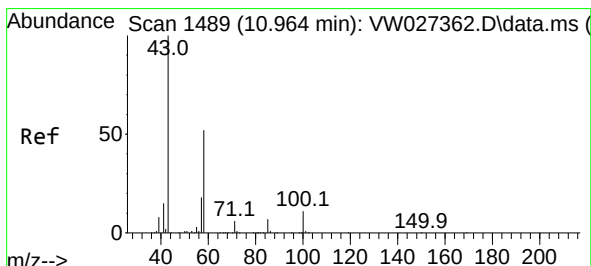
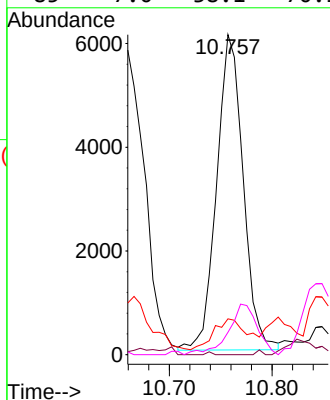
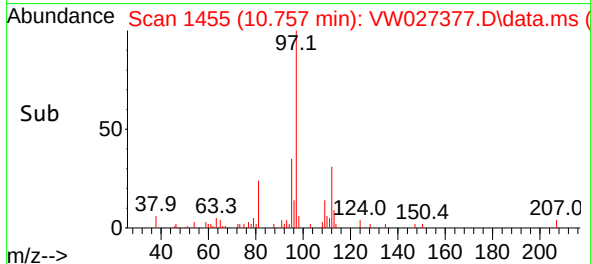


#45
1,1,2-Trichloroethane
Concen: 3.496 ug/L
RT: 10.757 min Scan# 1455
Delta R.T. -0.030 min
Lab File: VW027377.D
Acq: 20 Oct 2023 16:34

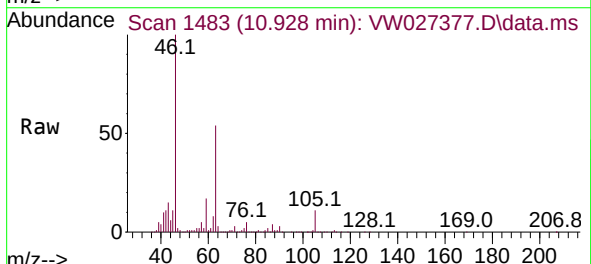
Instrument :
MSVOA_W
ClientSampleId :



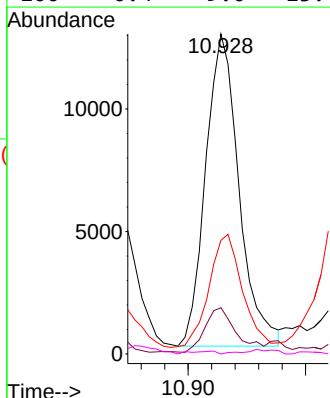
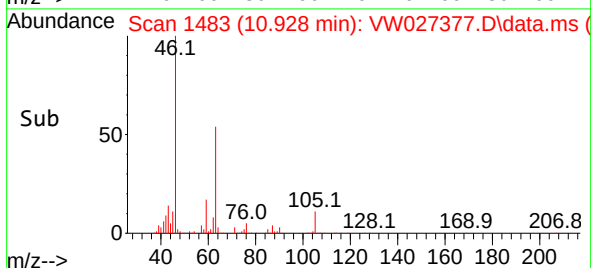
Tgt Ion:	97	Resp:	10903
Ion	Ratio	Lower	Upper
97	100		
99	0.0	43.8	81.4#
83	11.2	57.5	106.7#
85	7.0	38.1	70.9#

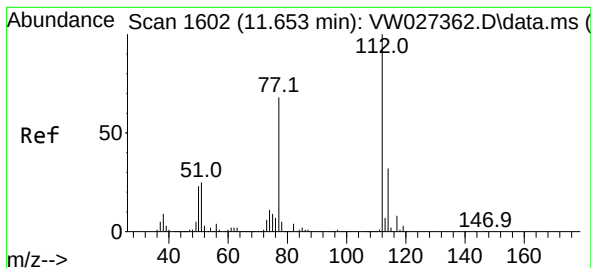


#48
2-Hexanone
Concen: 10.894 ug/L
RT: 10.928 min Scan# 1483
Delta R.T. -0.037 min
Lab File: VW027377.D
Acq: 20 Oct 2023 16:34



Tgt Ion:	43	Resp:	25129
Ion	Ratio	Lower	Upper
43	100		
58	12.3	42.2	63.4#
57	0.0	15.1	22.7#
100	0.4	9.0	13.4#





#51

Chlorobenzene

Concen: 0.621 ug/L

RT: 11.653 min Scan# 1

Delta R.T. 0.000 min

Lab File: VW027377.D

Acq: 20 Oct 2023 16:34

Instrument :

MSVOA_W

ClientSampleId :

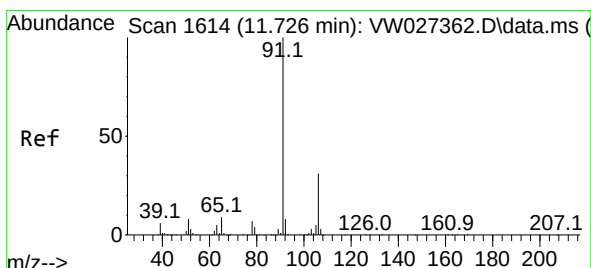
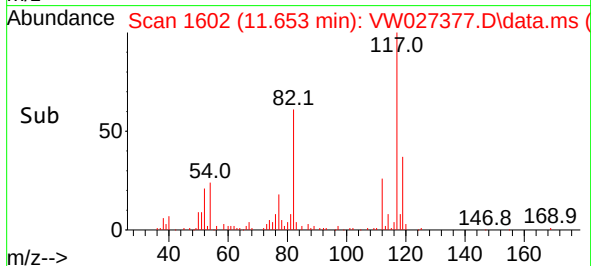
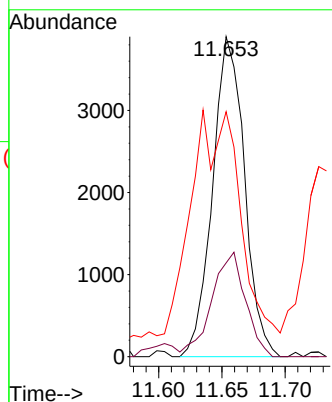
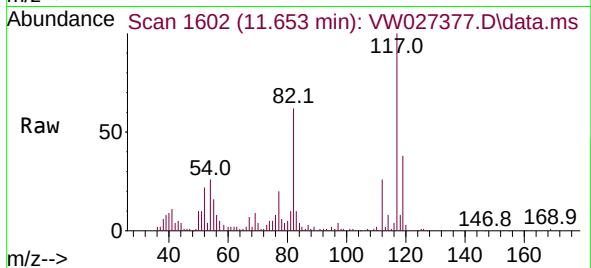
Tgt Ion:112 Resp: 6841

Ion Ratio Lower Upper

112 100

114 29.3 21.8 40.6

77 76.6 52.2 78.4



#52

Ethylbenzene

Concen: 1.667 ug/L

RT: 11.726 min Scan# 1614

Delta R.T. 0.000 min

Lab File: VW027377.D

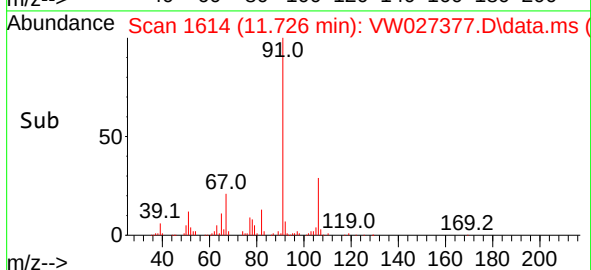
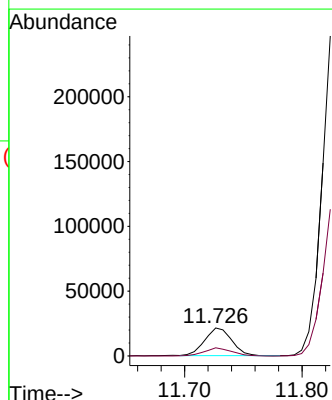
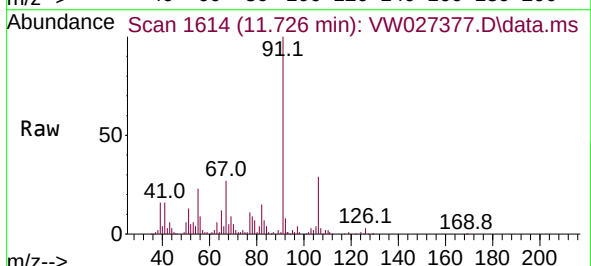
Acq: 20 Oct 2023 16:34

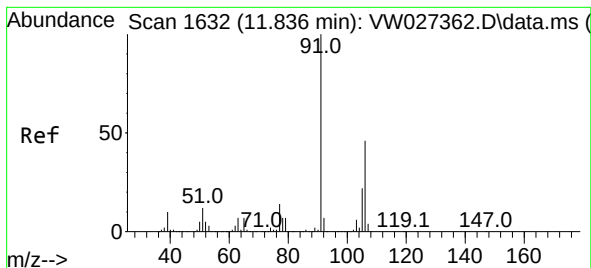
Tgt Ion: 91 Resp: 34054

Ion Ratio Lower Upper

91 100

106 29.1 19.8 36.8

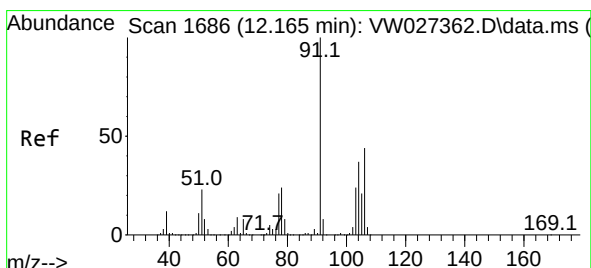
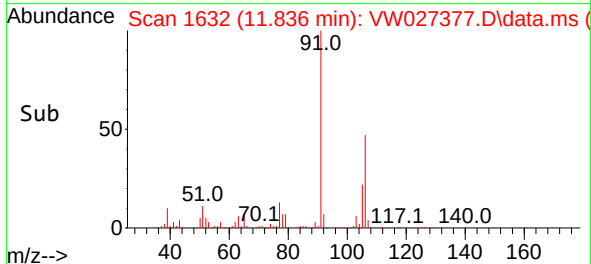
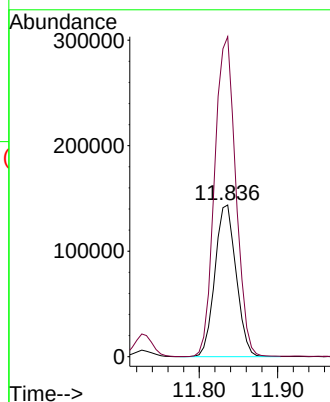
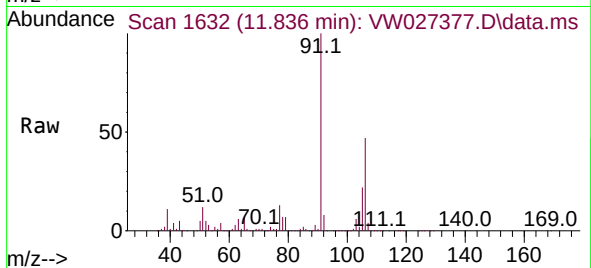




#53
m,p-Xylene
Concen: 34.899 ug/L
RT: 11.836 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW027377.D
Acq: 20 Oct 2023 16:34

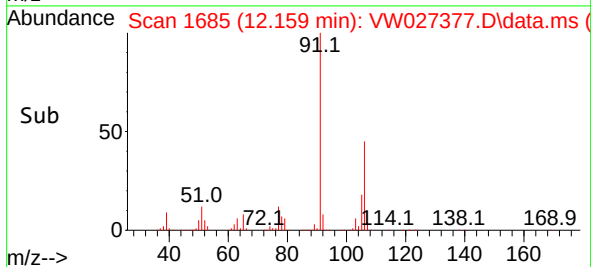
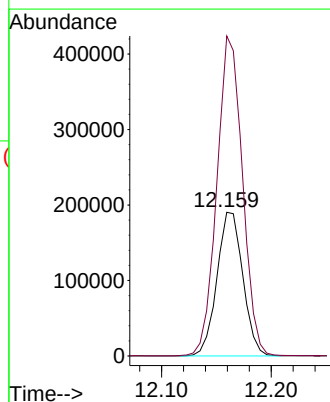
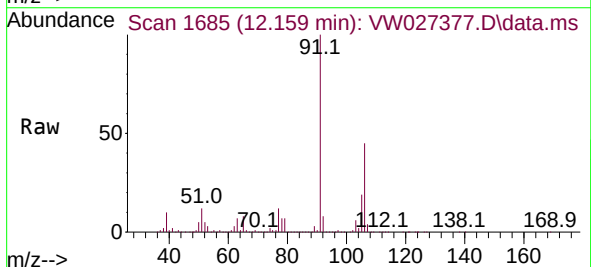
Instrument :
MSVOA_W
ClientSampleId :

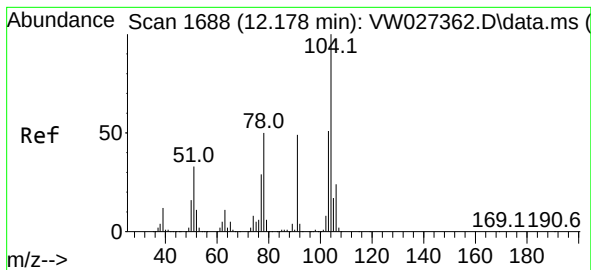
Tgt Ion:106 Resp: 270447
Ion Ratio Lower Upper
106 100
91 210.9 144.5 268.4



#54
o-Xylene
Concen: 42.081 ug/L
RT: 12.159 min Scan# 1685
Delta R.T. -0.006 min
Lab File: VW027377.D
Acq: 20 Oct 2023 16:34

Tgt Ion:106 Resp: 312283
Ion Ratio Lower Upper
106 100
91 222.8 152.0 282.2





#55

Styrene

Concen: 1.227 ug/L

RT: 12.165 min Scan# 1

Delta R.T. -0.012 min

Lab File: VW027377.D

Acq: 20 Oct 2023 16:34

Instrument :

MSVOA_W

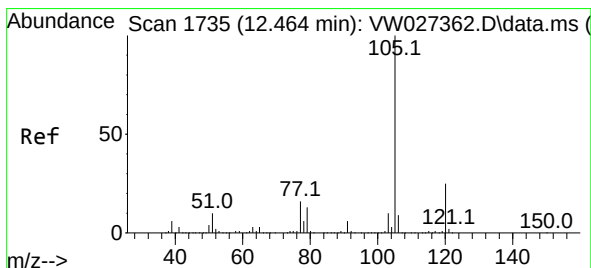
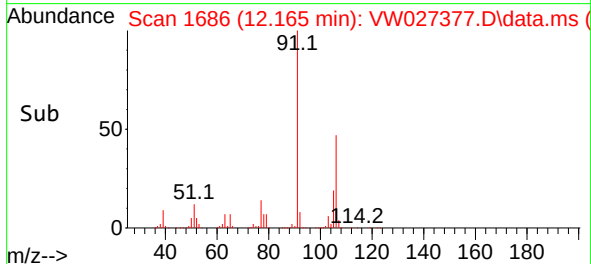
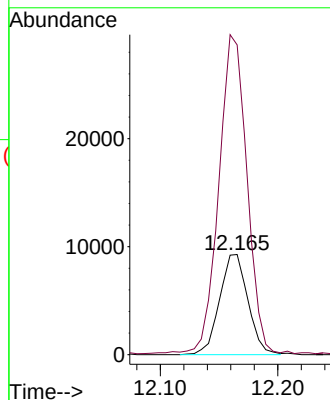
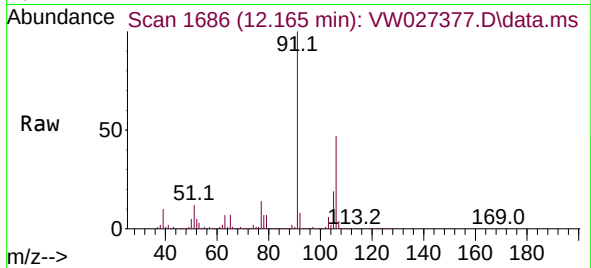
ClientSampleId :

Tgt Ion:104 Resp: 15557

Ion Ratio Lower Upper

104 100

78 309.1 33.2 61.6#



#60

Isopropylbenzene

Concen: 5.857 ug/L

RT: 12.458 min Scan# 1734

Delta R.T. -0.006 min

Lab File: VW027377.D

Acq: 20 Oct 2023 16:34

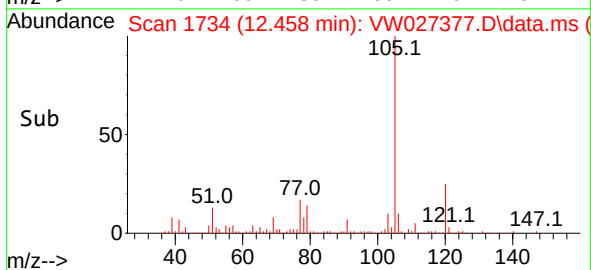
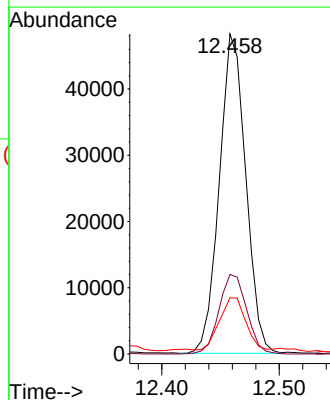
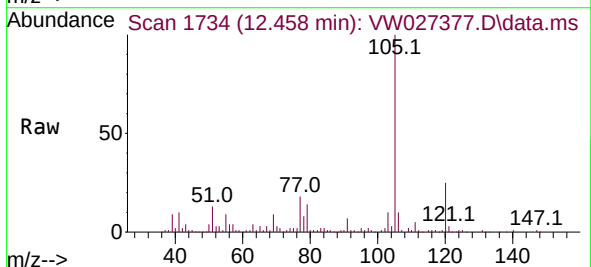
Tgt Ion:105 Resp: 75358

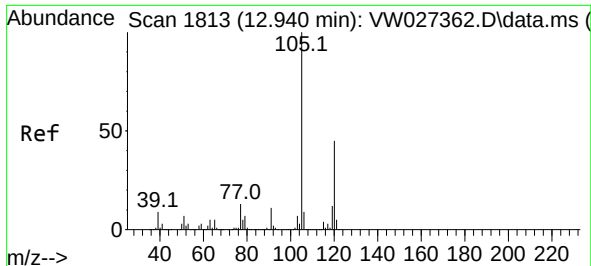
Ion Ratio Lower Upper

105 100

120 26.0 20.1 30.1

77 17.0 12.9 19.3

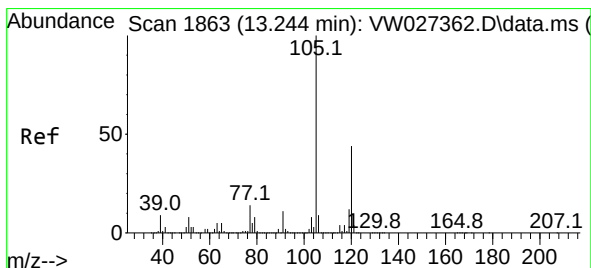
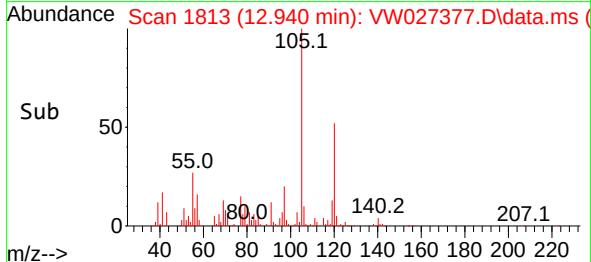
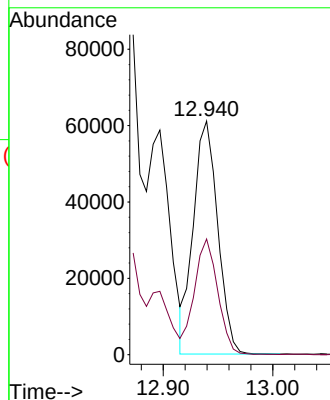
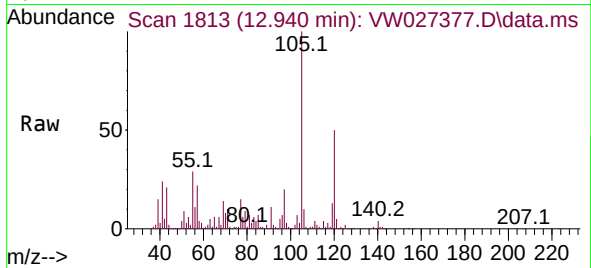




#62
1,3,5-Trimethylbenzene
Concen: 8.798 ug/L
RT: 12.940 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VW027377.D
Acq: 20 Oct 2023 16:34

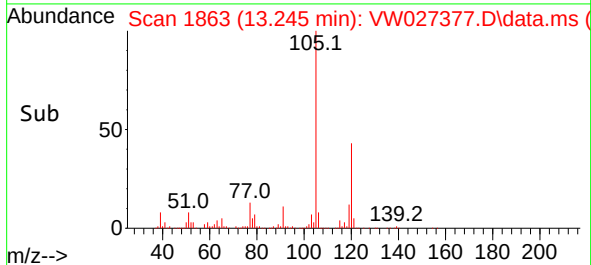
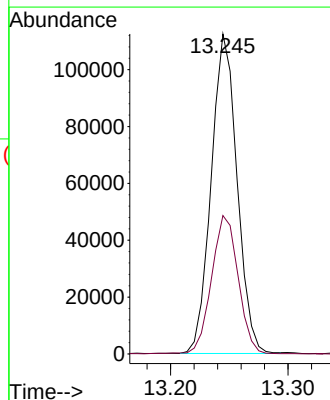
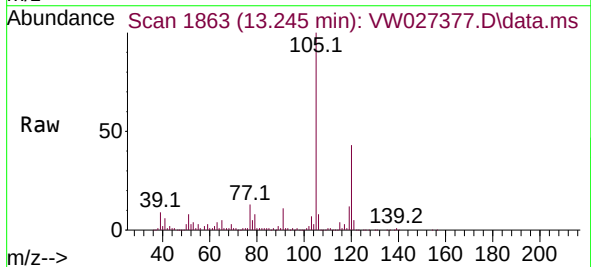
Instrument :
MSVOA_W
ClientSampleId :

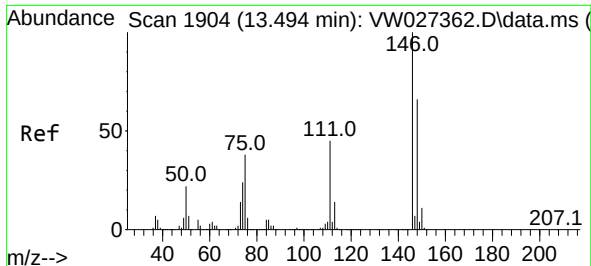
Tgt Ion:105 Resp: 94434
Ion Ratio Lower Upper
105 100
120 47.5 38.8 58.2



#63
1,2,4-Trimethylbenzene
Concen: 16.353 ug/L
RT: 13.245 min Scan# 1863
Delta R.T. 0.000 min
Lab File: VW027377.D
Acq: 20 Oct 2023 16:34

Tgt Ion:105 Resp: 171726
Ion Ratio Lower Upper
105 100
120 44.5 35.4 53.2

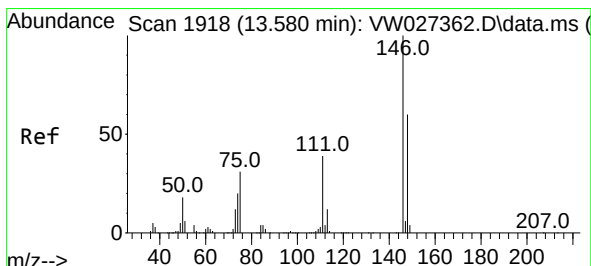
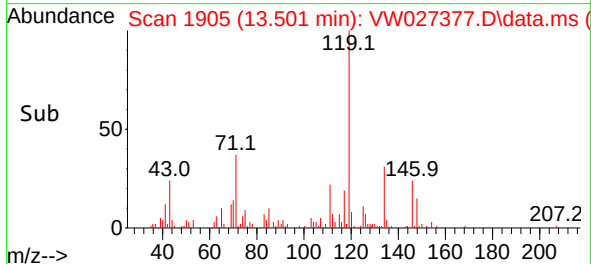
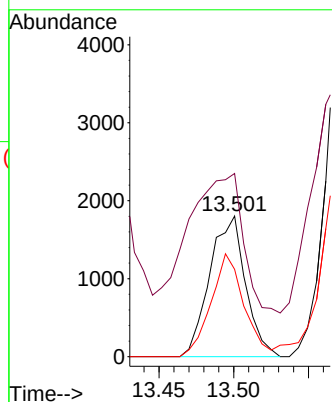
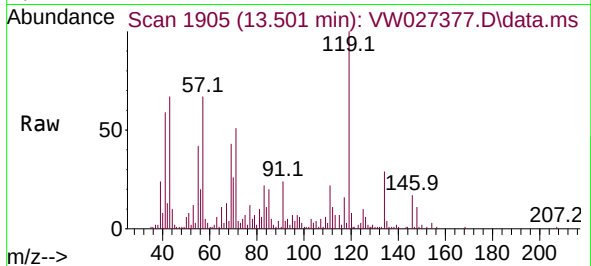




#64
1,3-Dichlorobenzene
Concen: 0.575 ug/L
RT: 13.501 min Scan# 1905
Delta R.T. 0.006 min
Lab File: VW027377.D
Acq: 20 Oct 2023 16:34

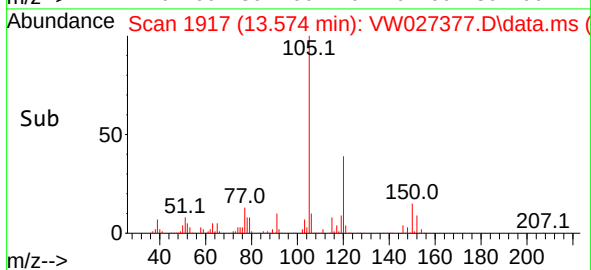
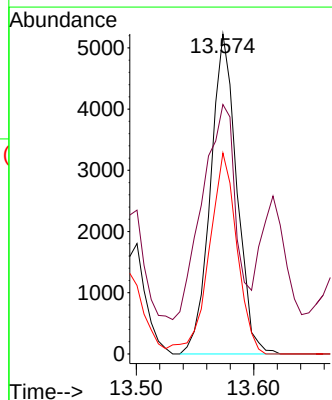
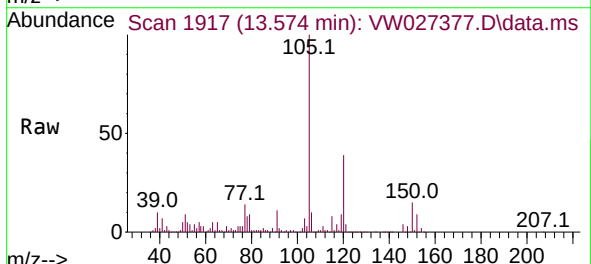
Instrument :
MSVOA_W
ClientSampleId :

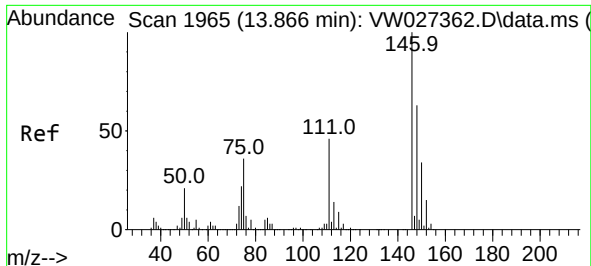
Tgt Ion:146 Resp: 2998
Ion Ratio Lower Upper
146 100
111 130.3 30.8 57.2#
148 62.1 46.3 85.9



#65
1,4-Dichlorobenzene
Concen: 1.561 ug/L
RT: 13.574 min Scan# 1917
Delta R.T. -0.006 min
Lab File: VW027377.D
Acq: 20 Oct 2023 16:34

Tgt Ion:146 Resp: 8134
Ion Ratio Lower Upper
146 100
111 78.0 29.5 54.9#
148 62.8 43.0 79.8





#67

1,2-Dichlorobenzene

Concen: 16.340 ug/L

RT: 13.866 min Scan# 1965

Delta R.T. 0.000 min

Lab File: VW027377.D

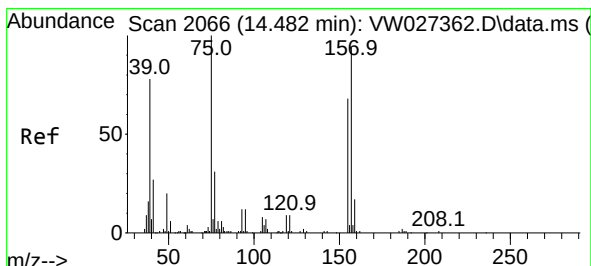
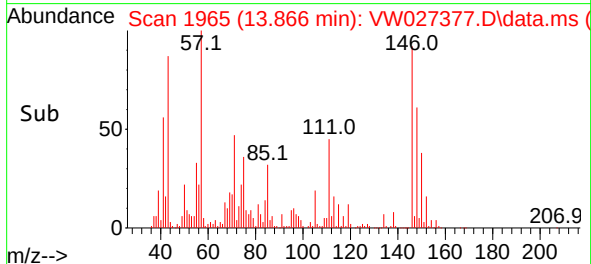
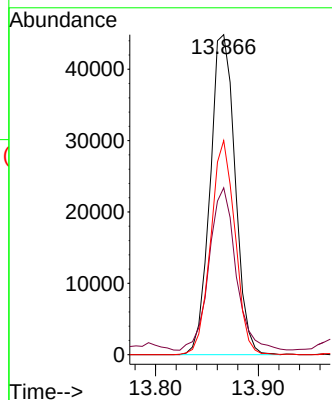
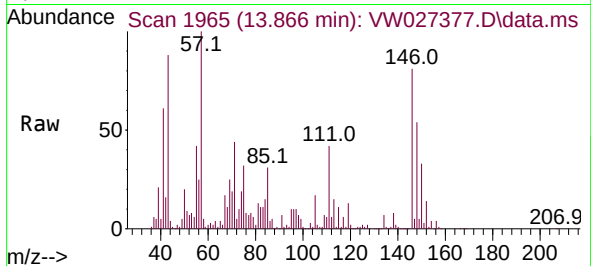
Acq: 20 Oct 2023 16:34

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion:	146	Resp:	75654
Ion	Ratio	Lower	Upper
146	100		
111	52.1	36.8	55.2
148	66.9	52.3	78.5



#68

1,2-Dibromo-3-chloropropane

Concen: 7.687 ug/L

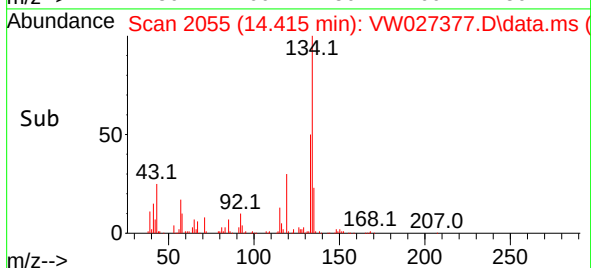
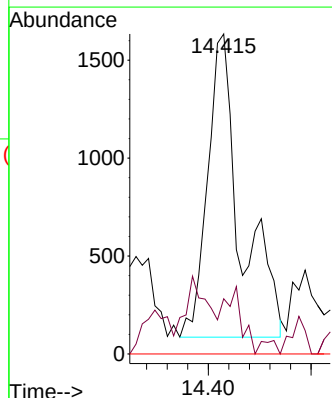
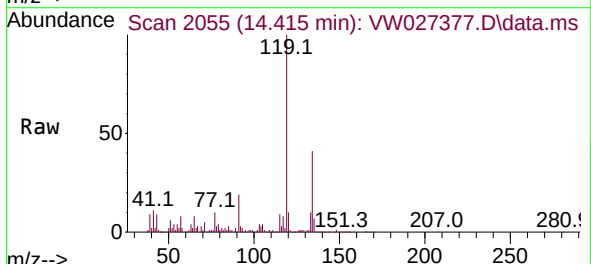
RT: 14.415 min Scan# 2055

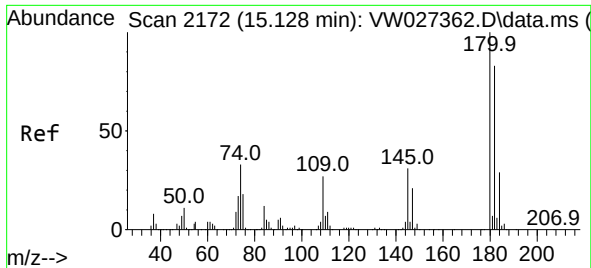
Delta R.T. -0.067 min

Lab File: VW027377.D

Acq: 20 Oct 2023 16:34

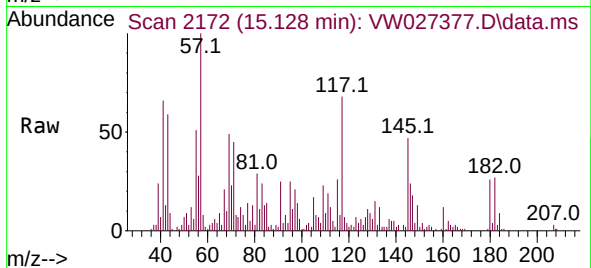
Tgt Ion:	75	Resp:	3436
Ion	Ratio	Lower	Upper
75	100		
155	17.3	54.9	82.3#
157	0.0	64.7	97.1#



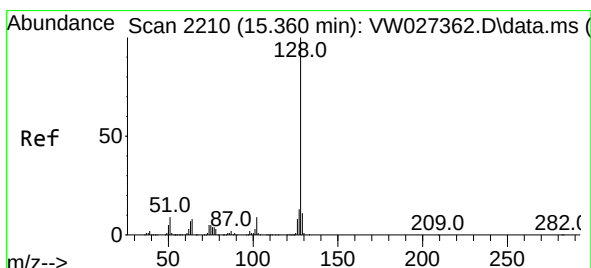
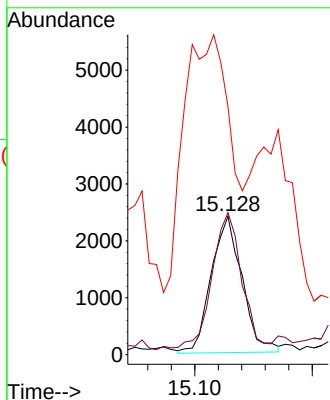
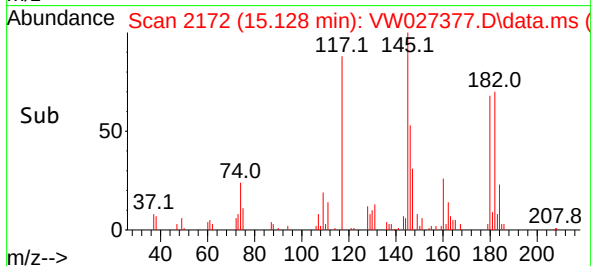


#70
1,2,4-trichlorobenzene
Concen: 1.516 ug/L
RT: 15.128 min Scan# 2172
Delta R.T. 0.000 min
Lab File: VW027377.D
Acq: 20 Oct 2023 16:34

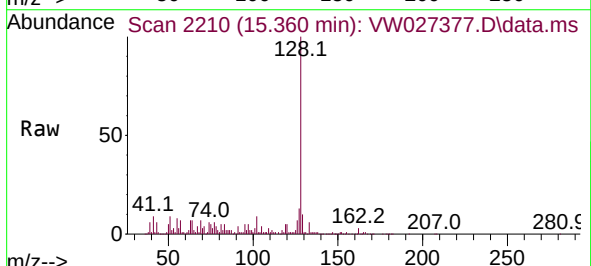
Instrument :
MSVOA_W
ClientSampleId :



Tgt Ion:180 Resp: 4372
Ion Ratio Lower Upper
180 100
182 93.6 75.5 113.3
145 0.0 26.4 39.6#



#71
Naphthalene
Concen: 14.936 ug/L
RT: 15.360 min Scan# 2210
Delta R.T. 0.000 min
Lab File: VW027377.D
Acq: 20 Oct 2023 16:34



Tgt Ion:128 Resp: 88551
Ion Ratio Lower Upper
128 100
127 14.5 10.0 15.0
129 10.7 8.5 12.7

