

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW110621\
 Data File : VW020791.D
 Acq On : 05 Nov 2021 20:01
 Operator : SY/VA
 Sample : M4464-09
 Misc : 6.31g/10.0mL/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Nov 08 04:54:58 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM110621SMA.M
 Quant Title : SFAM01.0
 QLast Update : Mon Nov 08 04:38:07 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.842	114	189805	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.628	117	167826	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.554	152	87283	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.349	65	43669	24.470	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	97.880%
7) Chloroethane-d5	2.879	69	26764	26.473	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	105.880%
11) 1,1-Dichloroethene-d2	4.019	63	75611	20.186	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	80.760%
21) 2-Butanone-d5	7.080	46	28345	47.826	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	95.660%
24) Chloroform-d	7.647	84	88632	21.016	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	84.080%
26) 1,2-Dichloroethane-d4	8.305	65	50951	22.694	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	90.760%
32) Benzene-d6	8.275	84	176309	23.252	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	93.000%
36) 1,2-Dichloropropane-d6	9.274	67	53793	22.914	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	91.640%
41) Toluene-d8	10.323	98	173402	23.506	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	94.040%
43) trans-1,3-Dichloroprop...	10.579	79	27134	23.303	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	93.200%
47) 2-Hexanone-d5	10.921	63	24798	52.206	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	104.420%
56) 1,1,2,2-Tetrachloroeth...	12.688	84	46711	24.009	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	96.040%
66) 1,2-Dichlorobenzene-d4	13.853	152	62117	22.646	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	90.600%
Target Compounds						
					Qvalue	
10) 1,1,2-Trichloro-1,2,2-...	4.056	101	62156	24.393	ug/L	91
12) 1,1-Dichloroethene	4.038	96	38758	15.961	ug/L	84
13) Acetone	4.117	43	262198	481.460	ug/L	94
17) trans-1,2-Dichloroethene	5.428	96	7151	2.770	ug/L	89
19) 1,1-Dichloroethane	6.214	63	162761	36.407	ug/L	98
20) cis-1,2-Dichloroethene	7.171	96	2091994	768.822	ug/L	81
22) 2-Butanone	7.171	43	35309	48.290	ug/L #	1
27) 1,2-Dichloroethane	8.403	62	7248	2.406	ug/L	100
29) Cyclohexane	7.952	56	7614	1.739	ug/L #	92
30) 1,1,1-Trichloroethane	7.872	97	583162	146.220	ug/L	95
31) Carbon tetrachloride	7.872	117	75062	19.778	ug/L	99
33) Benzene	8.323	78	13458	1.339	ug/L	100
34) Trichloroethene	9.092	95	652913	244.043	ug/L	94
35) Methylcyclohexane	9.335	83	10243	2.194	ug/L	95
39) cis-1,3-Dichloropropene	10.037	75	2107	0.544	ug/L #	70
40) 4-Methyl-2-pentanone	10.207	43	57318	36.854	ug/L #	95
42) Toluene	10.390	91	9633216	891.282	ug/L	90
45) 1,1,2-Trichloroethane	10.774	97	912	0.516	ug/L #	70
46) Tetrachloroethene	10.866	164	22799	9.501	ug/L	98

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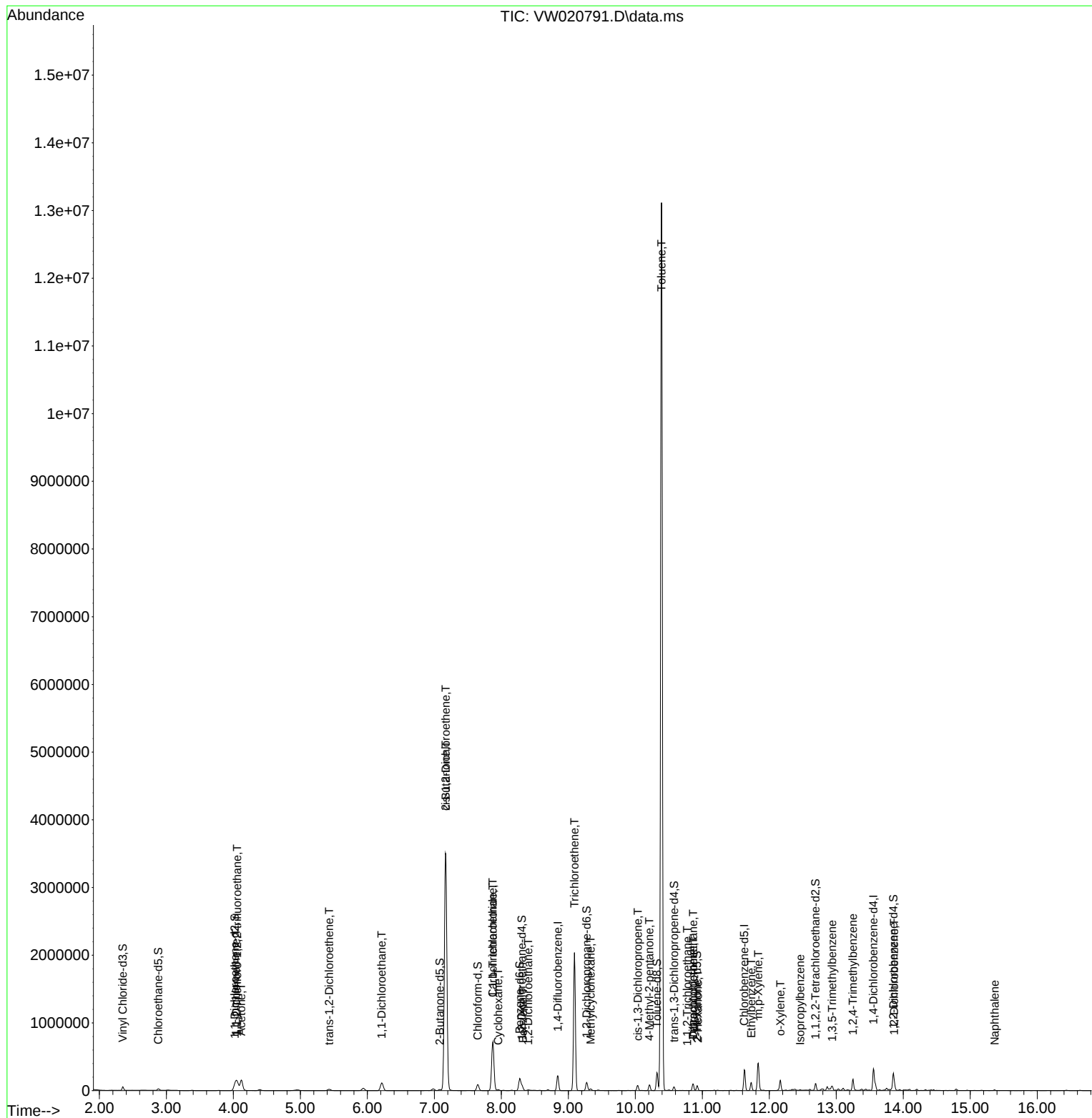
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 2-Hexanone	10.933	43	6169	5.432	ug/L #	60
49) Dibromochloromethane	10.866	129	19471	8.073	ug/L #	10
52) Ethylbenzene	11.731	91	82051	6.776	ug/L	97
53) m,p-Xylene	11.835	106	119426	24.614	ug/L	92
54) o-Xylene	12.164	106	39108	8.509	ug/L	97
60) Isopropylbenzene	12.463	105	5591	0.465	ug/L	97
62) 1,3,5-Trimethylbenzene	12.938	105	20900	2.022	ug/L	95
63) 1,2,4-Trimethylbenzene	13.249	105	89644	8.729	ug/L	97
67) 1,2-Dichlorobenzene	13.865	146	20503	4.161	ug/L	90
71) Naphthalene	15.365	128	9944	1.594	ug/L	99

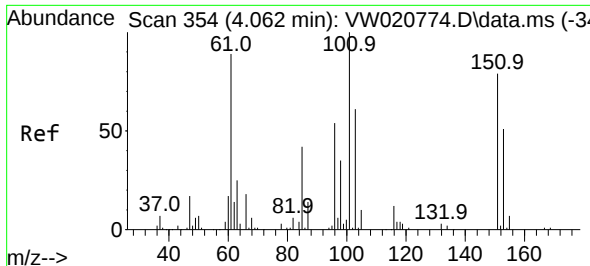
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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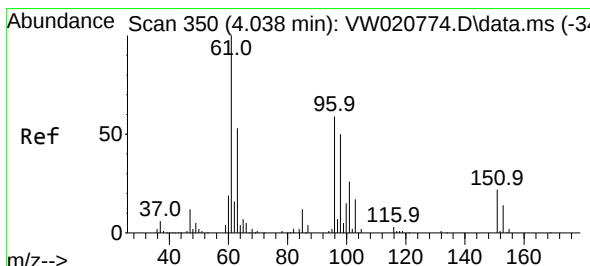
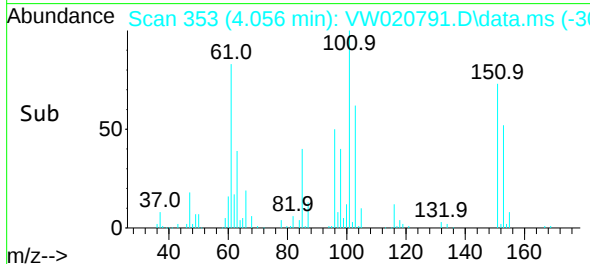
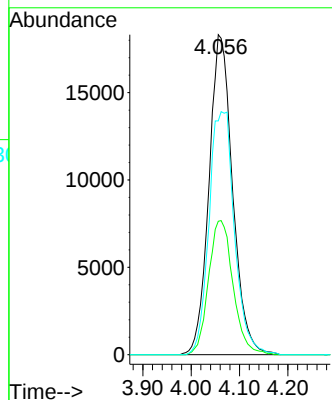
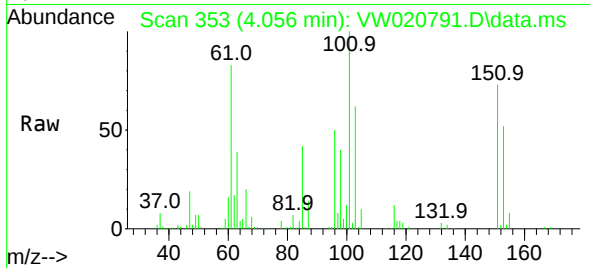




#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 24.393 ug/L
 RT: 4.056 min Scan# 31
 Delta R.T. -0.012 min
 Lab File: VW020791.D
 Acq: 05 Nov 2021 20:01

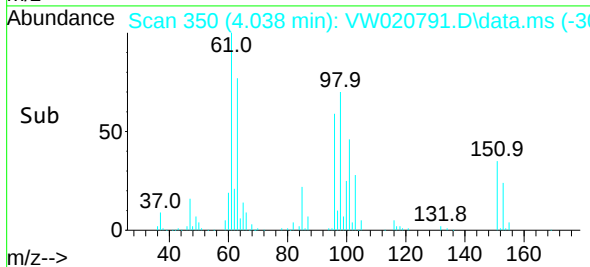
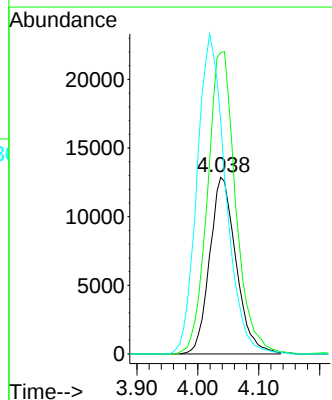
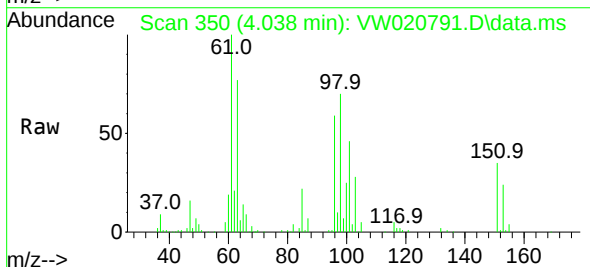
Instrument :
 MSVOA_W
 ClientSampleId :

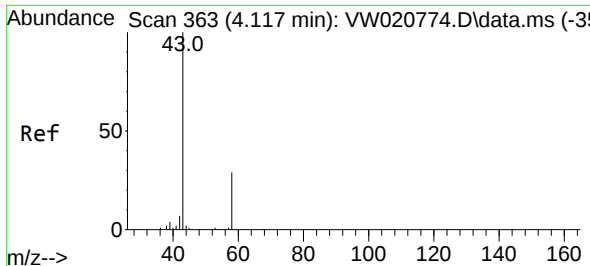
Tgt Ion:101 Resp: 62156
 Ion Ratio Lower Upper
 101 100
 85 43.4 36.6 54.8
 151 82.0 57.4 86.0



#12
 1,1-Dichloroethene
 Concen: 15.961 ug/L
 RT: 4.038 min Scan# 350
 Delta R.T. -0.000 min
 Lab File: VW020791.D
 Acq: 05 Nov 2021 20:01

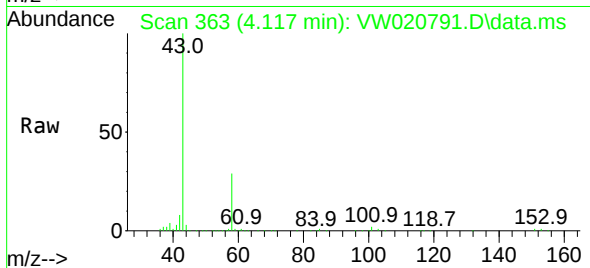
Tgt Ion: 96 Resp: 38758
 Ion Ratio Lower Upper
 96 100
 61 170.6 138.3 256.9
 63 132.2 82.6 153.4



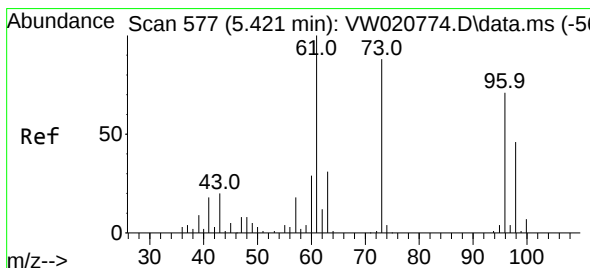
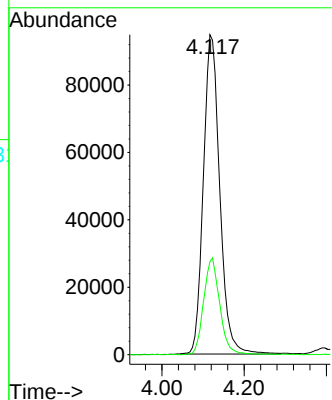
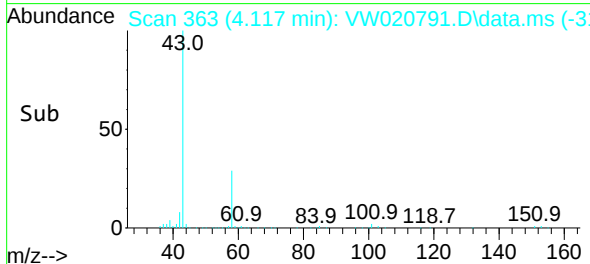


#13
Acetone
Concen: 481.460 ug/L
RT: 4.117 min Scan# 30
Delta R.T. -0.006 min
Lab File: VW020791.D
Acq: 05 Nov 2021 20:01

Instrument :
MSVOA_W
ClientSampleId :

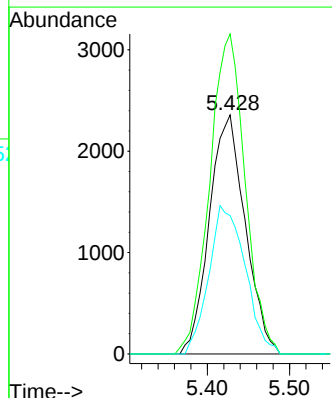
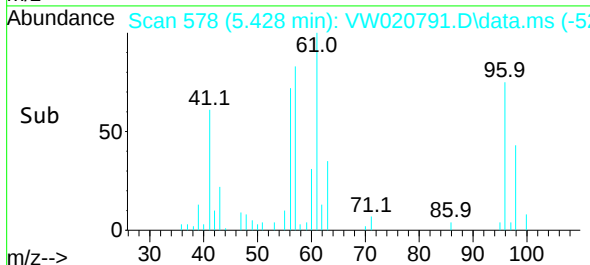
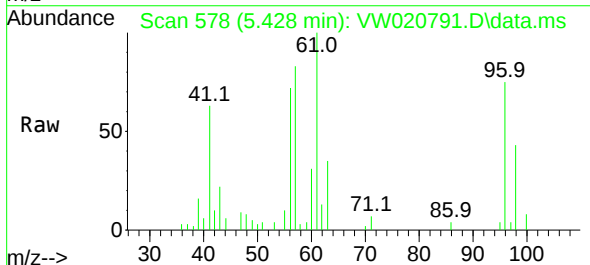


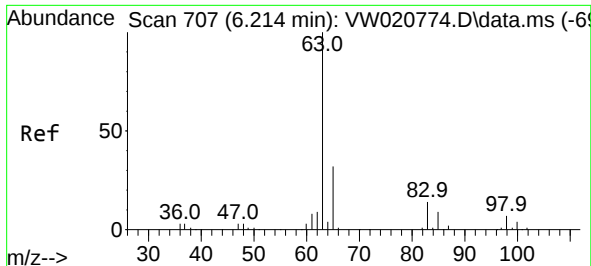
Tgt Ion: 43 Resp: 262198
Ion Ratio Lower Upper
43 100
58 29.7 0.0 52.8



#17
trans-1,2-Dichloroethene
Concen: 2.770 ug/L
RT: 5.428 min Scan# 578
Delta R.T. -0.000 min
Lab File: VW020791.D
Acq: 05 Nov 2021 20:01

Tgt Ion: 96 Resp: 7151
Ion Ratio Lower Upper
96 100
61 133.8 107.4 199.4
98 57.9 41.2 76.6





#19

1,1-Dichloroethane

Concen: 36.407 ug/L

RT: 6.214 min Scan# 707

Delta R.T. -0.006 min

Lab File: VW020791.D

Acq: 05 Nov 2021 20:01

Instrument :

MSVOA_W

ClientSampleId :

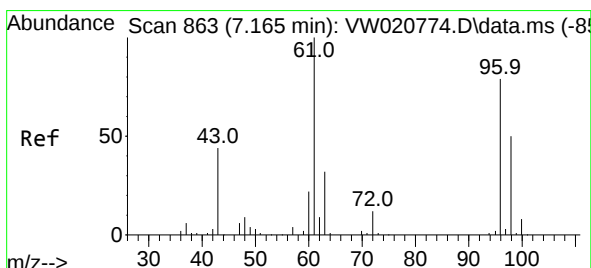
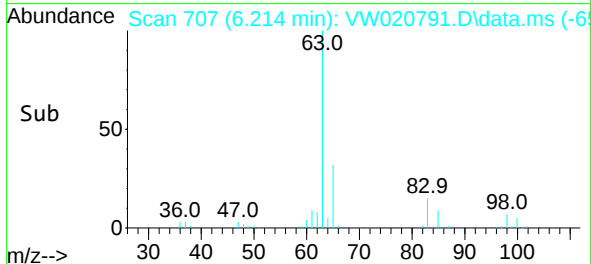
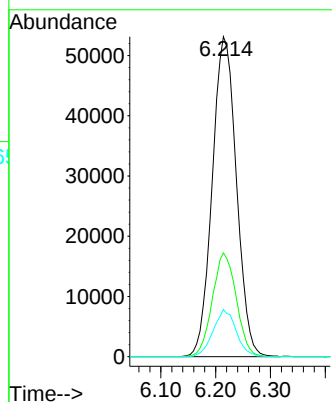
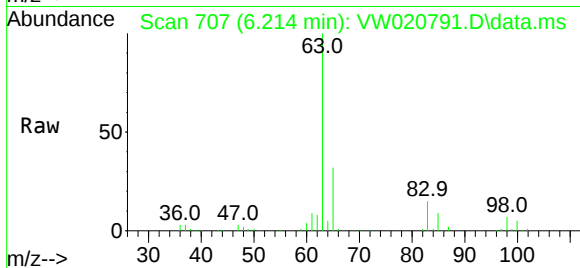
Tgt Ion: 63 Resp: 162761

Ion Ratio Lower Upper

63 100

65 32.5 22.1 41.1

83 14.8 9.2 17.2



#20

cis-1,2-Dichloroethene

Concen: 768.822 ug/L

RT: 7.171 min Scan# 864

Delta R.T. -0.000 min

Lab File: VW020791.D

Acq: 05 Nov 2021 20:01

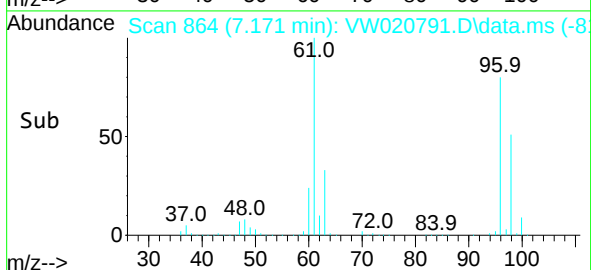
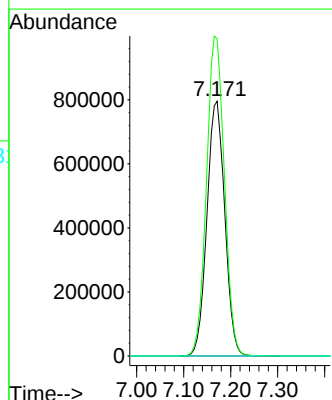
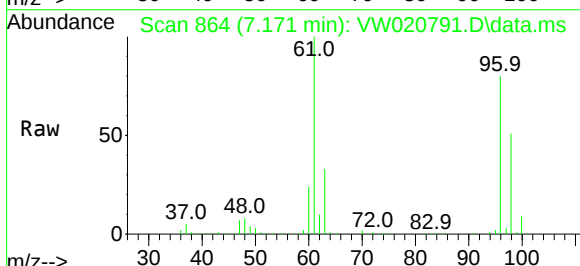
Tgt Ion: 96 Resp: 2091994

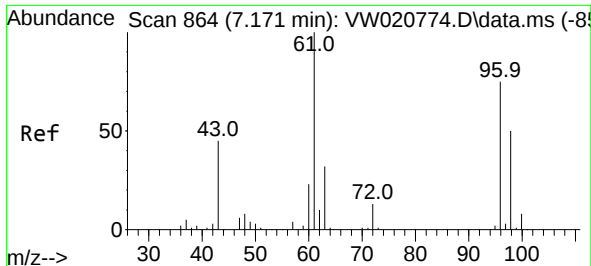
Ion Ratio Lower Upper

96 100

61 124.5 103.7 192.7

68 0.0 0.0 0.0





#22

2-Butanone

Concen: 48.290 ug/L

RT: 7.171 min Scan# 864

Delta R.T. -0.000 min

Lab File: VW020791.D

Acq: 05 Nov 2021 20:01

Instrument :

MSVOA_W

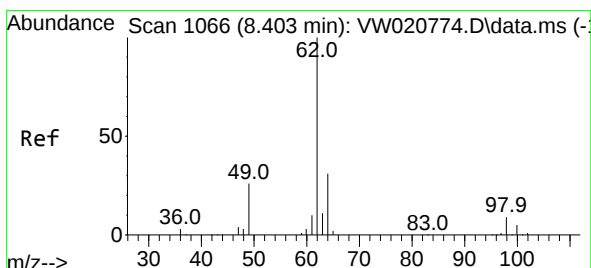
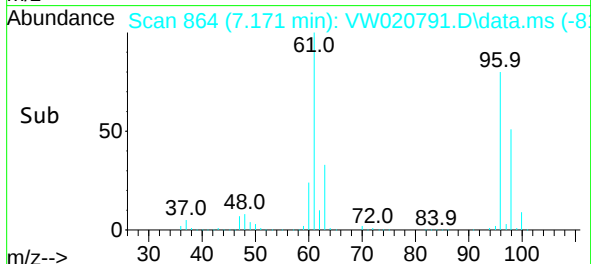
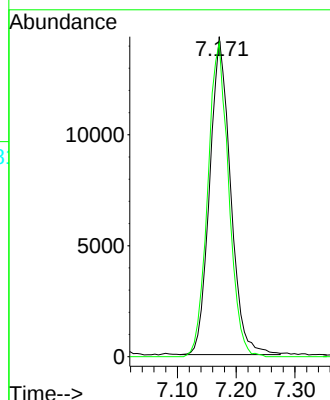
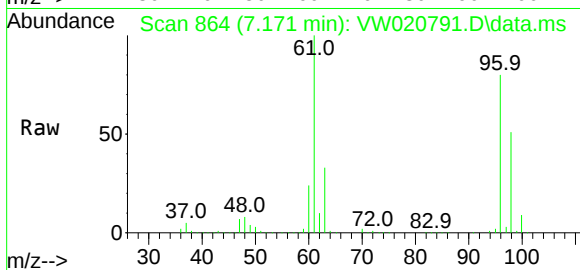
ClientSampleId :

Tgt Ion: 43 Resp: 35309

Ion Ratio Lower Upper

43 100

72 98.7 11.8 35.4#



#27

1,2-Dichloroethane

Concen: 2.406 ug/L

RT: 8.403 min Scan# 1066

Delta R.T. -0.000 min

Lab File: VW020791.D

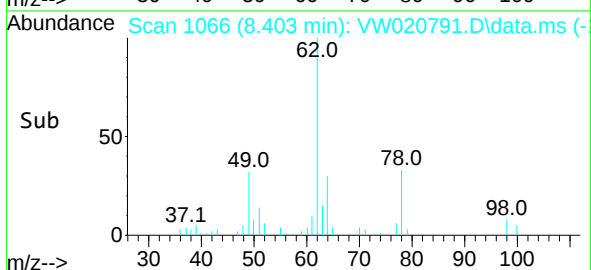
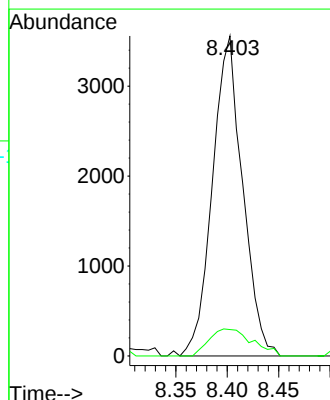
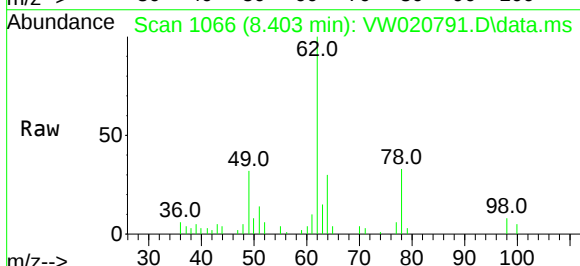
Acq: 05 Nov 2021 20:01

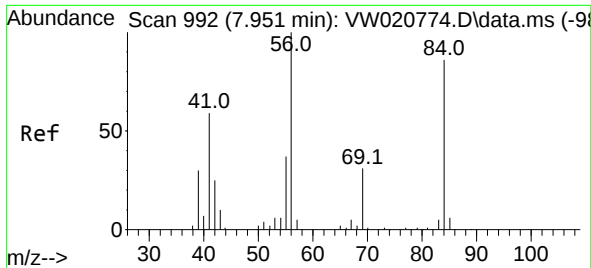
Tgt Ion: 62 Resp: 7248

Ion Ratio Lower Upper

62 100

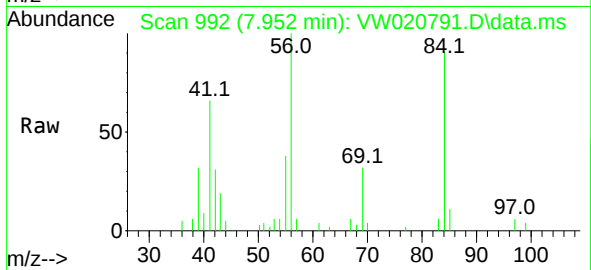
98 8.3 6.5 9.7



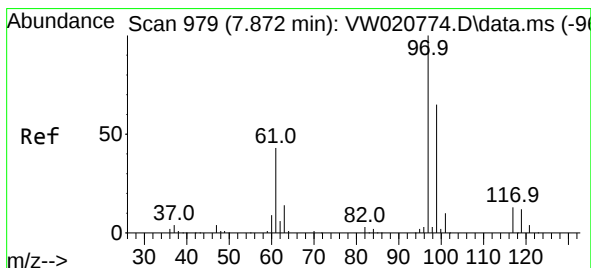
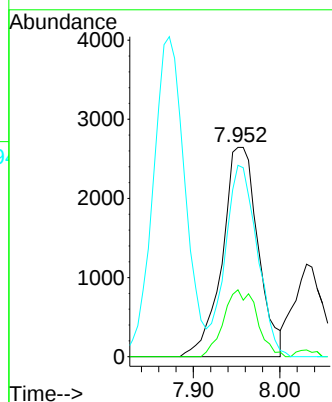
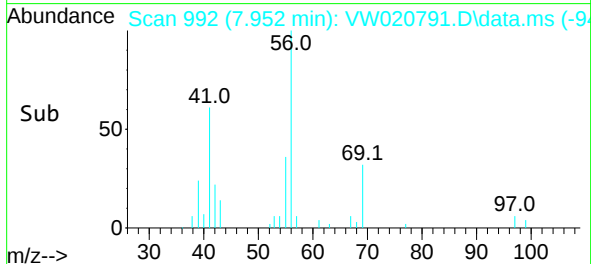


#29
Cyclohexane
Concen: 1.739 ug/L
RT: 7.952 min Scan# 992
Delta R.T. -0.006 min
Lab File: VW020791.D
Acq: 05 Nov 2021 20:01

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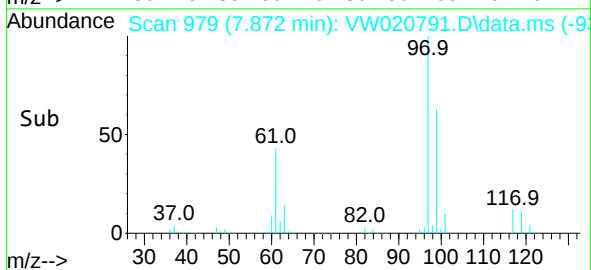
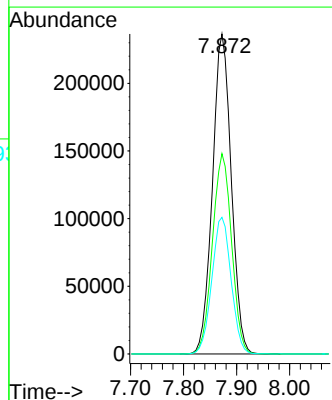
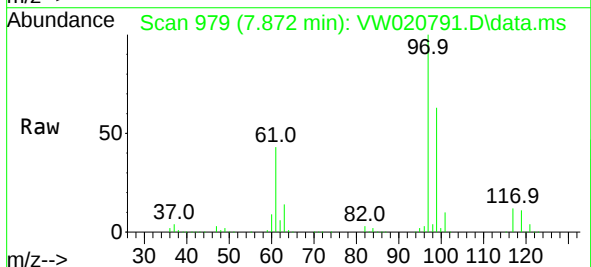


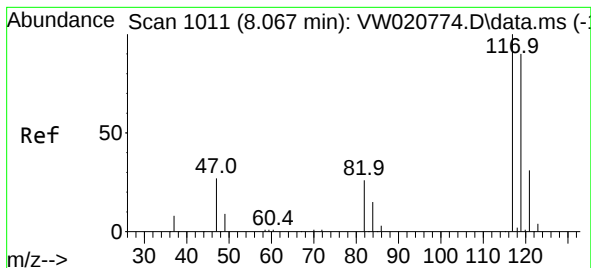
Tgt Ion:	56	Resp:	7614
Ion	Ratio	Lower	Upper
56	100		
69	18.4	23.5	35.3
84	82.2	63.4	95.2



#30
1,1,1-Trichloroethane
Concen: 146.220 ug/L
RT: 7.872 min Scan# 979
Delta R.T. 0.000 min
Lab File: VW020791.D
Acq: 05 Nov 2021 20:01

Tgt Ion:	97	Resp:	583162
Ion	Ratio	Lower	Upper
97	100		
99	63.8	51.6	77.4
61	43.7	40.9	61.3





#31

Carbon tetrachloride

Concen: 19.778 ug/L

RT: 7.872 min Scan# 91

Delta R.T. -0.195 min

Lab File: VW020791.D

Acq: 05 Nov 2021 20:01

Instrument :

MSVOA_W

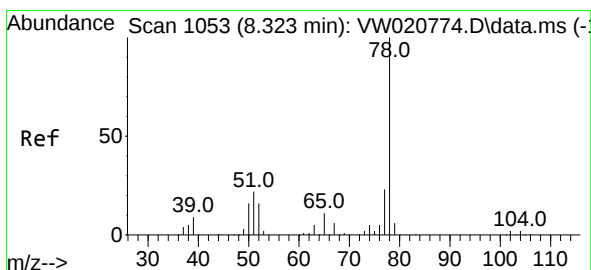
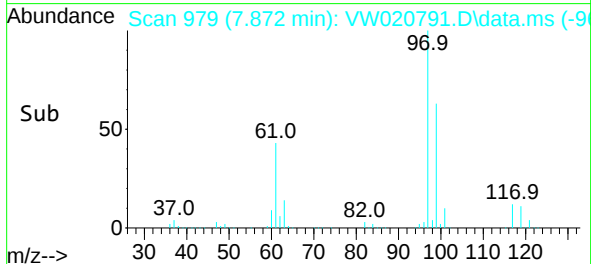
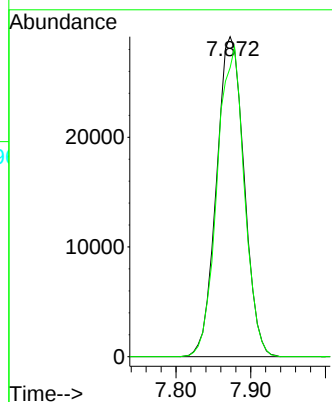
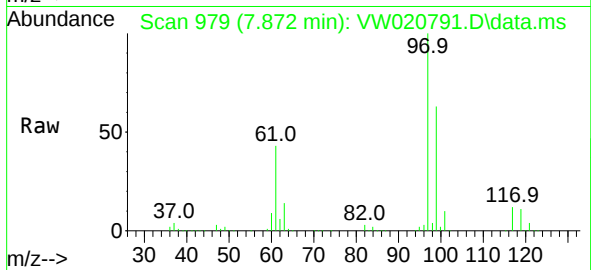
ClientSampleId :

Tgt Ion:117 Resp: 75062

Ion Ratio Lower Upper

117 100

119 95.4 75.7 113.5



#33

Benzene

Concen: 1.339 ug/L

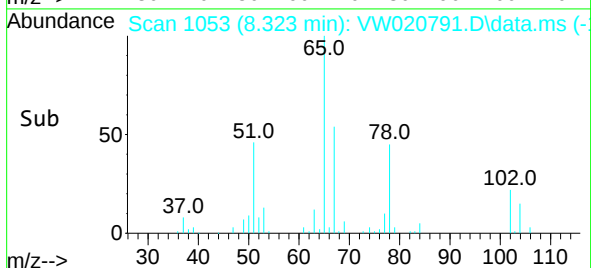
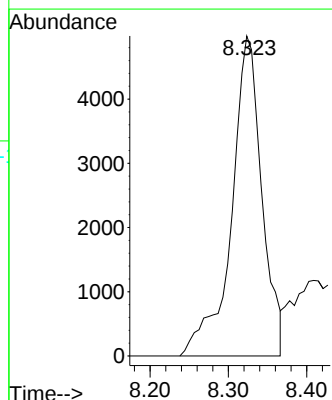
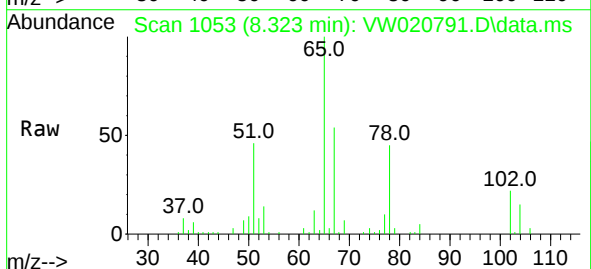
RT: 8.323 min Scan# 1053

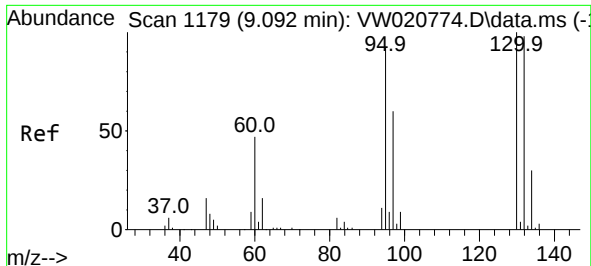
Delta R.T. -0.000 min

Lab File: VW020791.D

Acq: 05 Nov 2021 20:01

Tgt Ion: 78 Resp: 13458





#34

Trichloroethene

Concen: 244.043 ug/L

RT: 9.092 min Scan# 1179

Delta R.T. -0.000 min

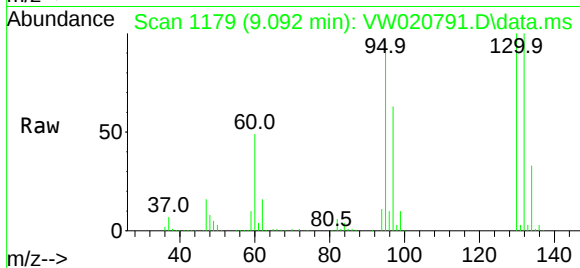
Lab File: VW020791.D

Acq: 05 Nov 2021 20:01

Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion: 95 Resp: 652913

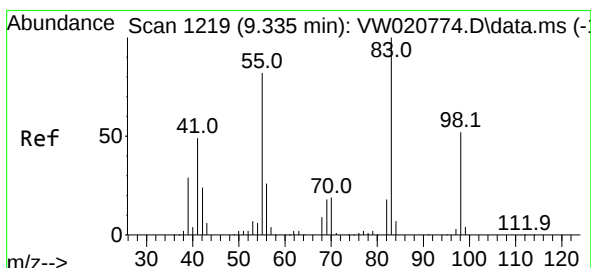
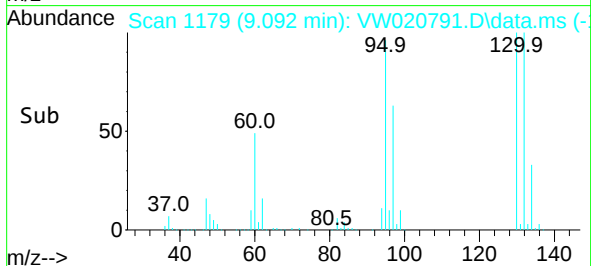
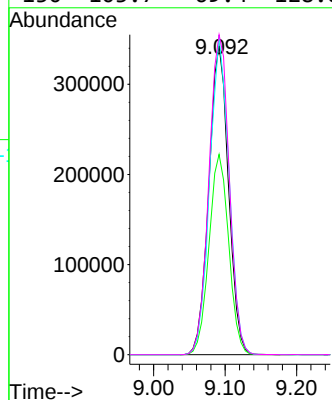
Ion Ratio Lower Upper

95 100

97 64.9 47.0 87.2

132 103.5 65.5 121.6

130 103.7 69.4 128.8



#35

Methylcyclohexane

Concen: 2.194 ug/L

RT: 9.335 min Scan# 1219

Delta R.T. -0.000 min

Lab File: VW020791.D

Acq: 05 Nov 2021 20:01

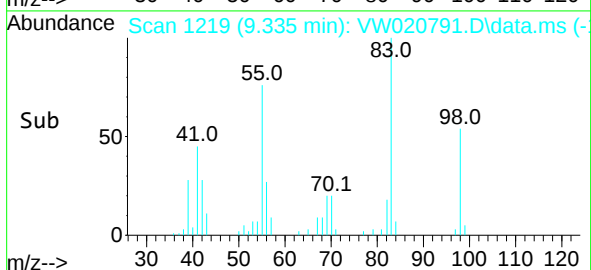
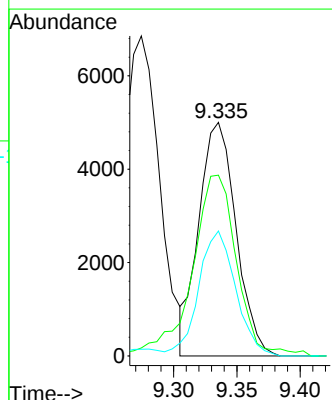
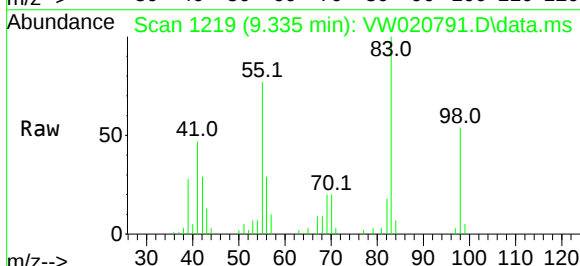
Tgt Ion: 83 Resp: 10243

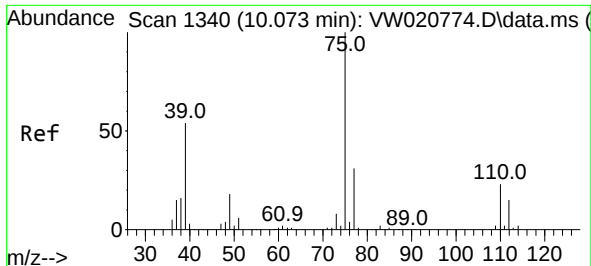
Ion Ratio Lower Upper

83 100

55 91.5 70.8 106.2

98 53.1 37.7 56.5





#39

cis-1,3-Dichloropropene

Concen: 0.544 ug/L

RT: 10.037 min Scan# 11

Delta R.T. -0.036 min

Lab File: VW020791.D

Acq: 05 Nov 2021 20:01

Instrument :

MSVOA_W

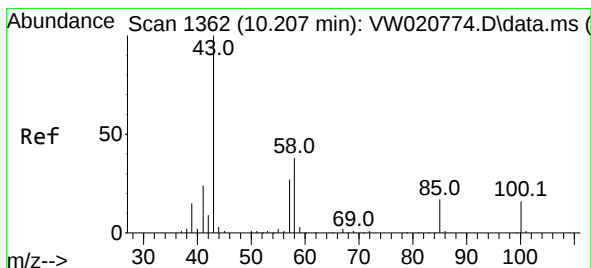
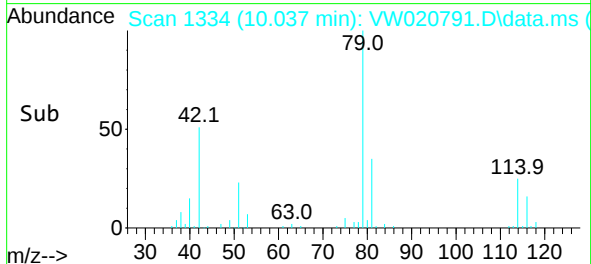
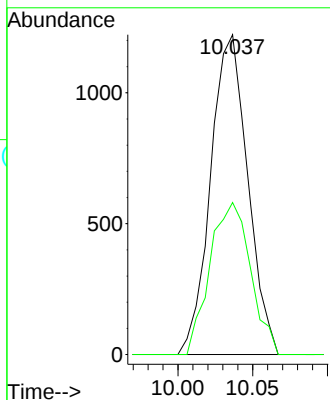
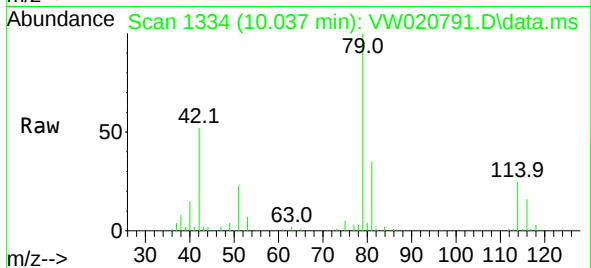
ClientSampleId :

Tgt Ion: 75 Resp: 2107

Ion Ratio Lower Upper

75 100

77 47.5 21.8 40.6#



#40

4-Methyl-2-pentanone

Concen: 36.854 ug/L

RT: 10.207 min Scan# 1362

Delta R.T. 0.000 min

Lab File: VW020791.D

Acq: 05 Nov 2021 20:01

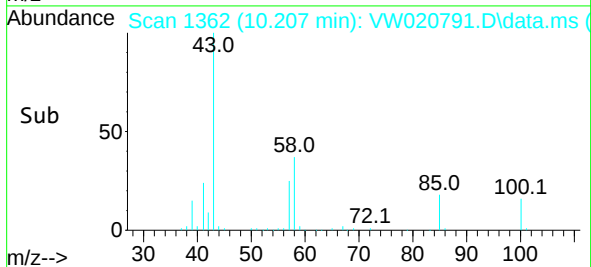
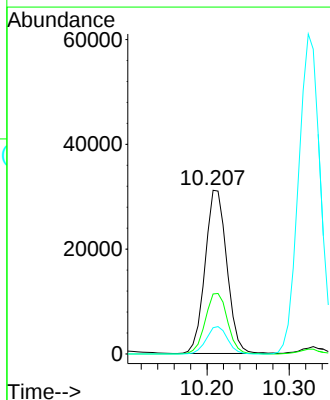
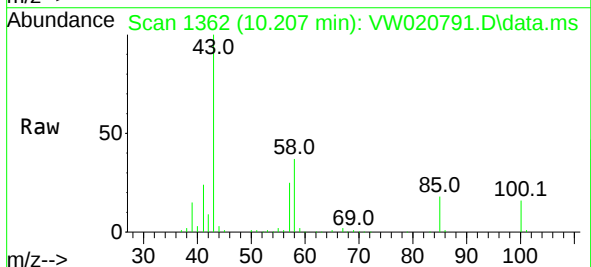
Tgt Ion: 43 Resp: 57318

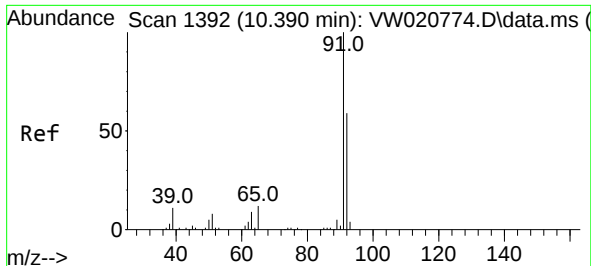
Ion Ratio Lower Upper

43 100

58 37.8 28.8 43.2

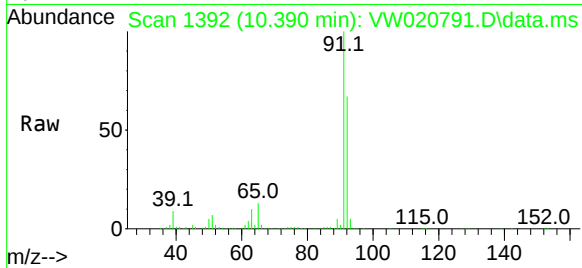
100 16.3 10.0 15.0#



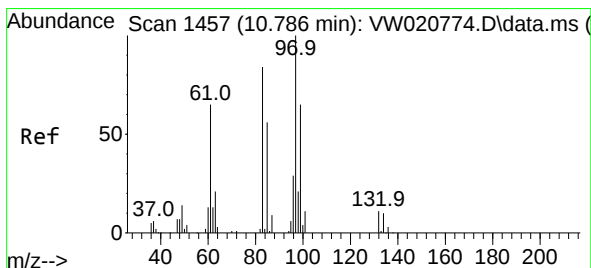
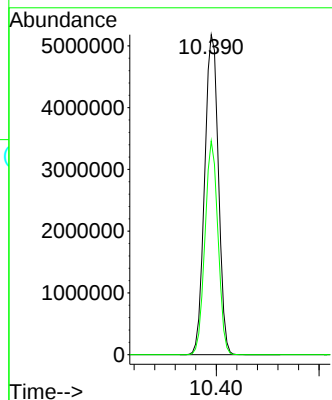
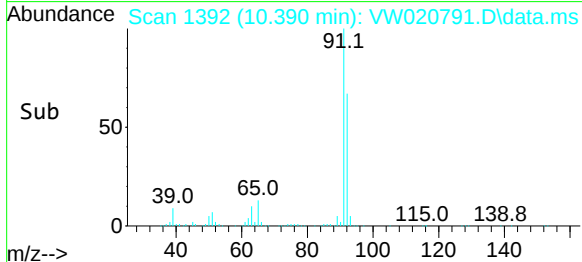


#42
Toluene
Concen: 891.282 ug/L
RT: 10.390 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW020791.D
Acq: 05 Nov 2021 20:01

Instrument :
MSVOA_W
ClientSampleId :

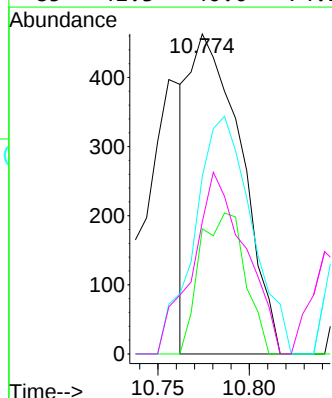
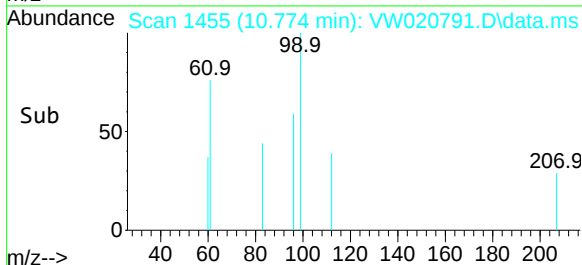
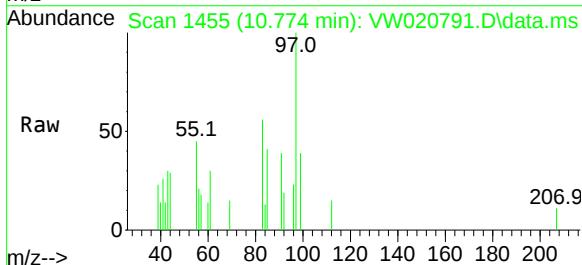


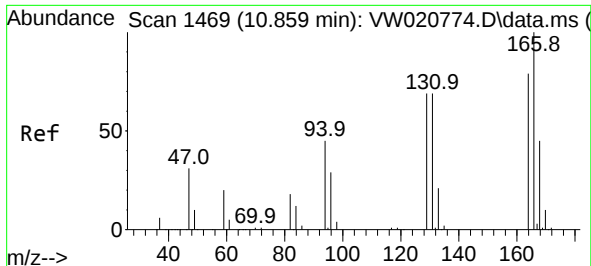
Tgt Ion: 91 Resp: 9633216
Ion Ratio Lower Upper
91 100
92 66.8 41.7 77.5



#45
1,1,2-Trichloroethane
Concen: 0.516 ug/L
RT: 10.774 min Scan# 1455
Delta R.T. -0.012 min
Lab File: VW020791.D
Acq: 05 Nov 2021 20:01

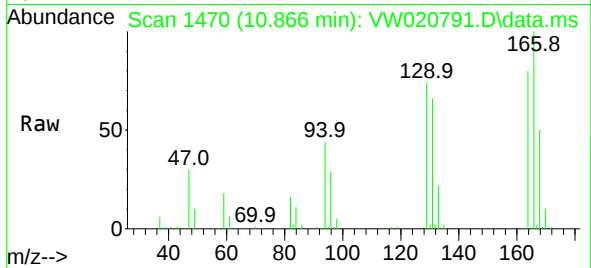
Tgt Ion: 97 Resp: 912
Ion Ratio Lower Upper
97 100
99 39.1 43.0 79.8#
83 55.5 62.6 116.3#
85 41.3 40.0 74.2



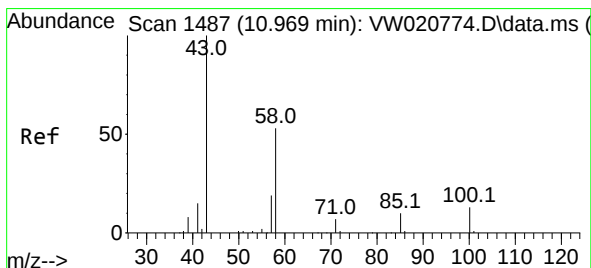
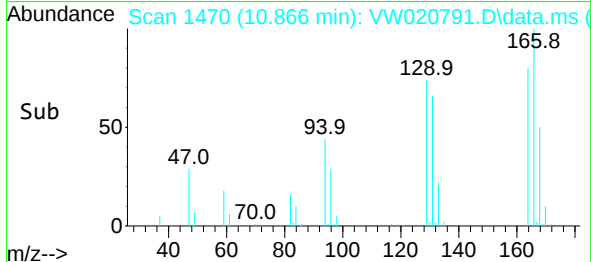
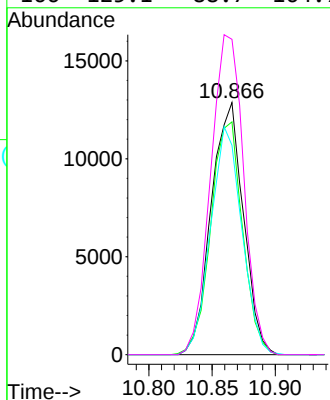


#46
Tetrachloroethene
Concen: 9.501 ug/L
RT: 10.866 min Scan# 1469
Delta R.T. 0.006 min
Lab File: VW020791.D
Acq: 05 Nov 2021 20:01

Instrument :
MSVOA_W
ClientSampleId :

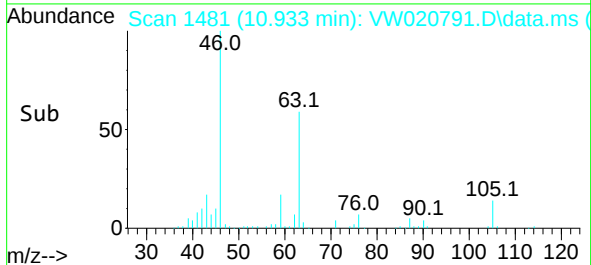
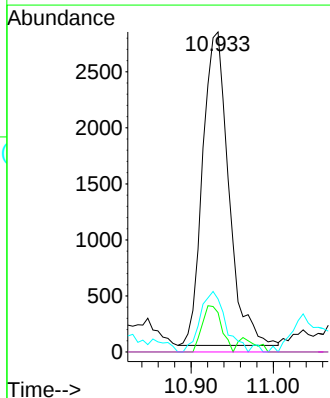
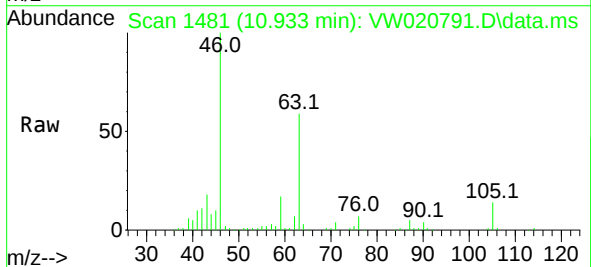


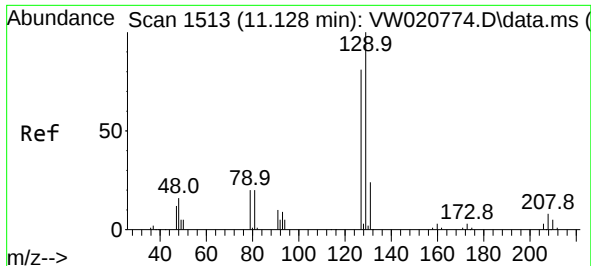
Tgt Ion:164 Resp: 22799
Ion Ratio Lower Upper
164 100
129 92.3 65.5 121.7
131 83.1 59.7 110.9
166 125.1 88.7 164.7



#48
2-Hexanone
Concen: 5.432 ug/L
RT: 10.933 min Scan# 1481
Delta R.T. -0.036 min
Lab File: VW020791.D
Acq: 05 Nov 2021 20:01

Tgt Ion: 43 Resp: 6169
Ion Ratio Lower Upper
43 100
58 10.9 40.2 60.2#
57 18.6 14.3 21.5
100 0.0 8.0 12.0#





#49

Dibromochloromethane

Concen: 8.073 ug/L

RT: 10.866 min Scan# 14

Delta R.T. -0.262 min

Lab File: VW020791.D

Acq: 05 Nov 2021 20:01

Instrument :

MSVOA_W

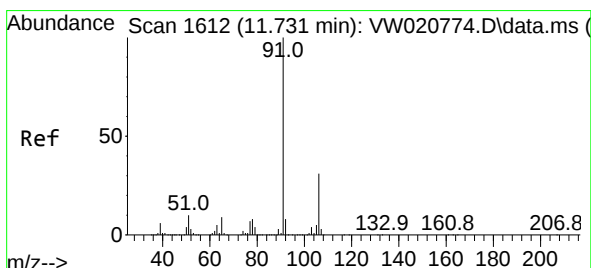
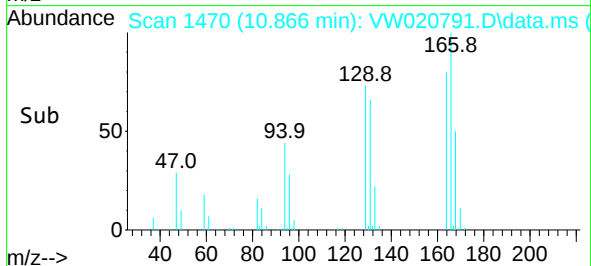
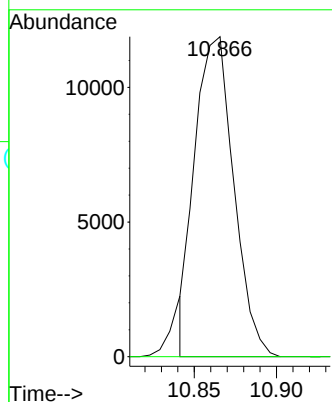
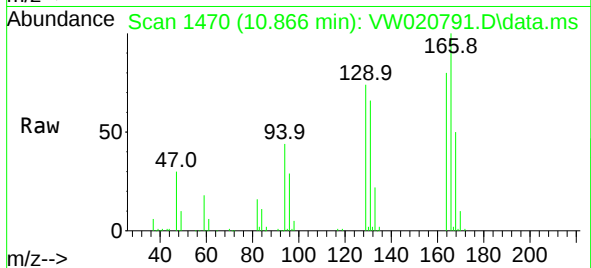
ClientSampleId :

Tgt Ion:129 Resp: 19471

Ion Ratio Lower Upper

129 100

127 0.0 55.7 103.5#



#52

Ethylbenzene

Concen: 6.776 ug/L

RT: 11.731 min Scan# 1612

Delta R.T. -0.000 min

Lab File: VW020791.D

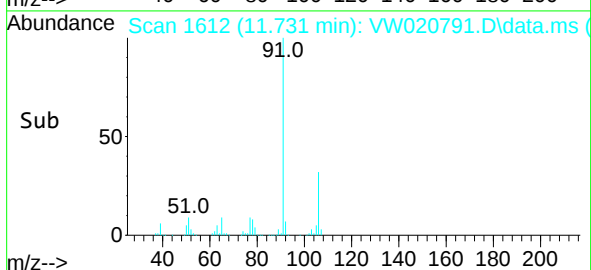
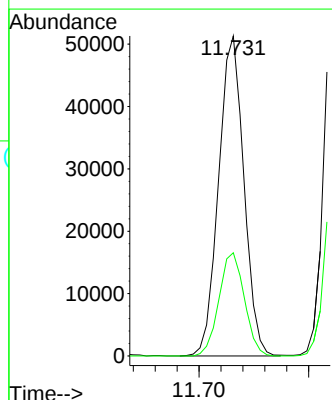
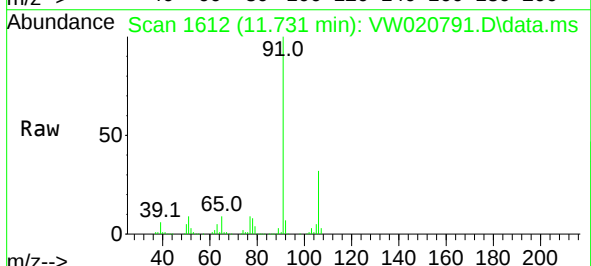
Acq: 05 Nov 2021 20:01

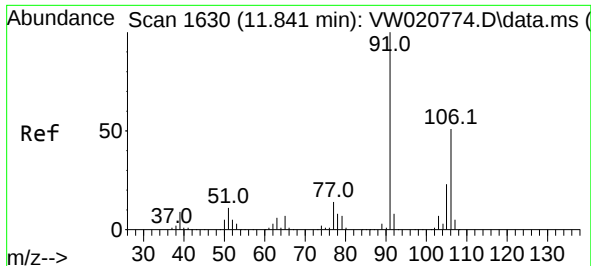
Tgt Ion: 91 Resp: 82051

Ion Ratio Lower Upper

91 100

106 32.3 21.5 39.9

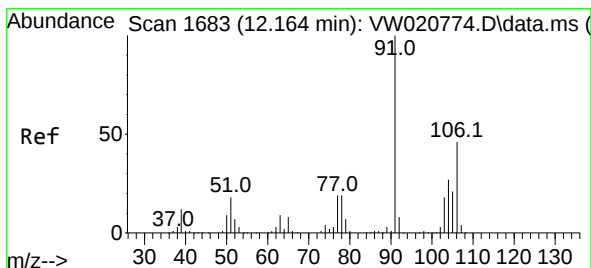
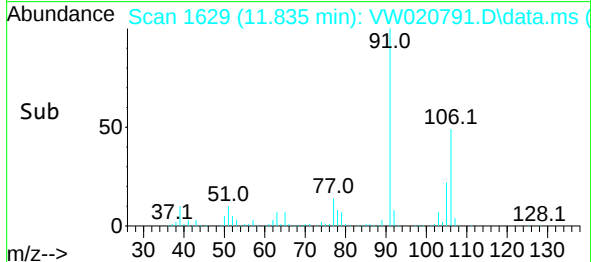
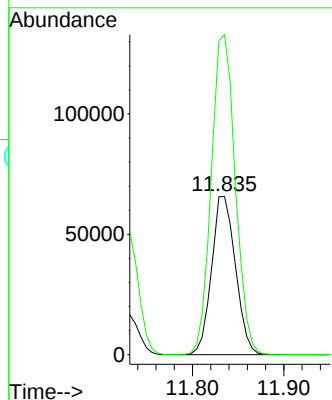
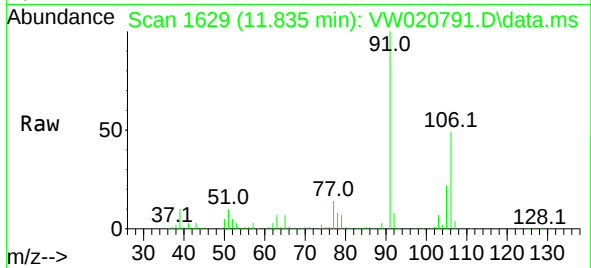




#53
m,p-Xylene
Concen: 24.614 ug/L
RT: 11.835 min Scan# 1629
Delta R.T. -0.006 min
Lab File: VW020791.D
Acq: 05 Nov 2021 20:01

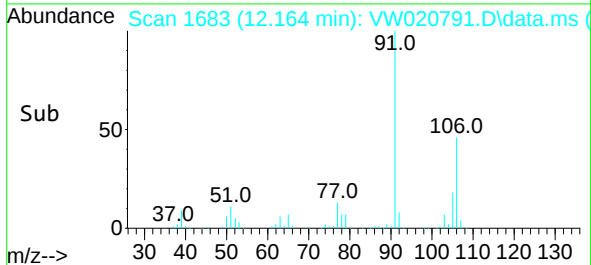
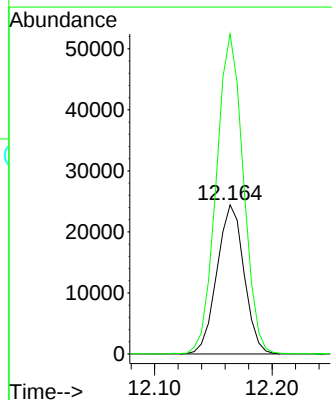
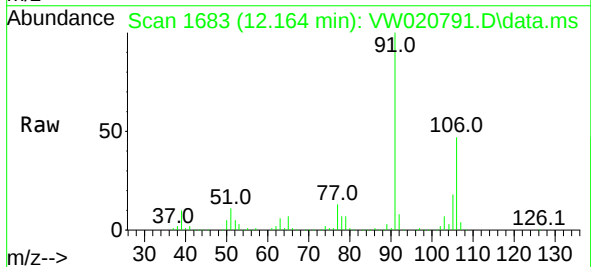
Instrument :
MSVOA_W
ClientSampleId :

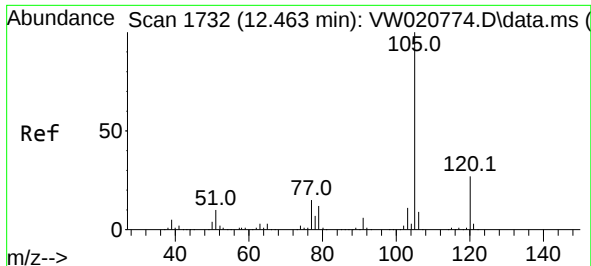
Tgt Ion:106 Resp: 119426
Ion Ratio Lower Upper
106 100
91 202.2 149.9 278.3



#54
o-Xylene
Concen: 8.509 ug/L
RT: 12.164 min Scan# 1683
Delta R.T. 0.000 min
Lab File: VW020791.D
Acq: 05 Nov 2021 20:01

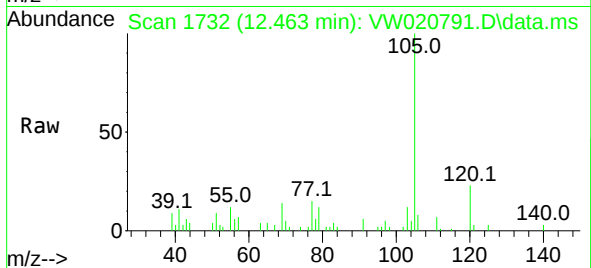
Tgt Ion:106 Resp: 39108
Ion Ratio Lower Upper
106 100
91 214.6 153.6 285.3



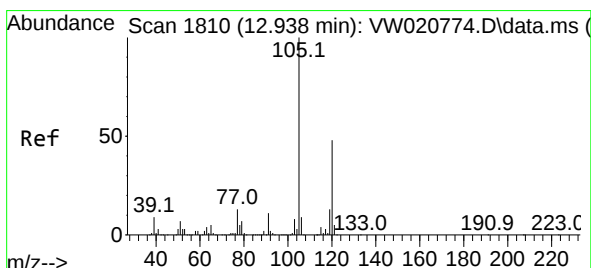
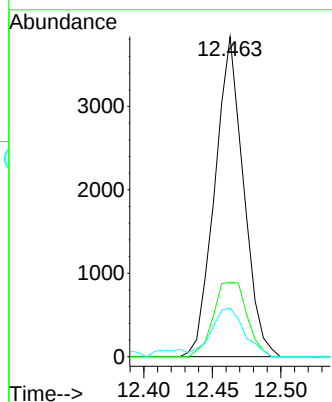
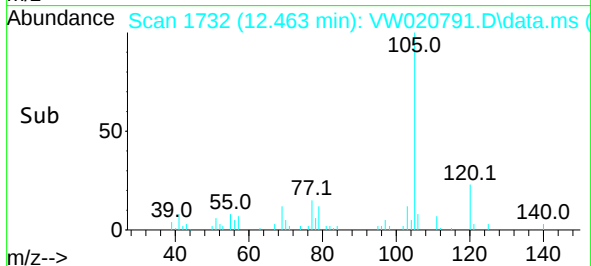


#60
Isopropylbenzene
Concen: 0.465 ug/L
RT: 12.463 min Scan# 1732
Delta R.T. -0.000 min
Lab File: VW020791.D
Acq: 05 Nov 2021 20:01

Instrument :
MSVOA_W
ClientSampleId :

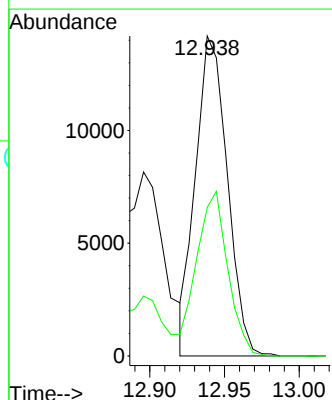
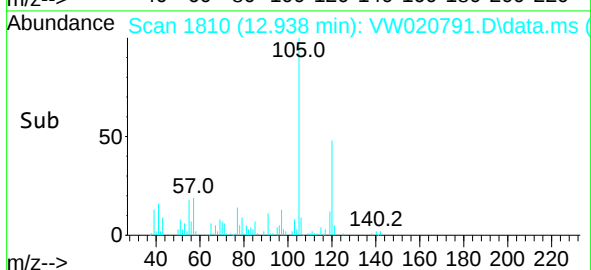
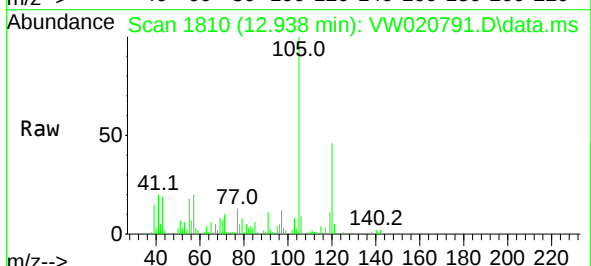


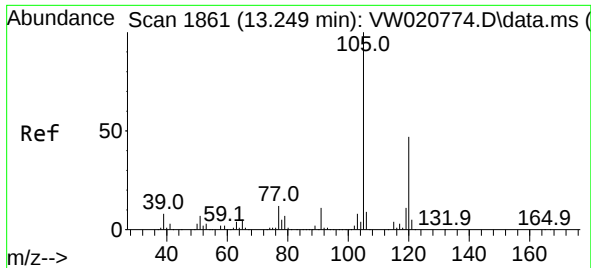
Tgt Ion:105 Resp: 5591
Ion Ratio Lower Upper
105 100
120 27.3 20.1 30.1
77 17.4 13.8 20.8



#62
1,3,5-Trimethylbenzene
Concen: 2.022 ug/L
RT: 12.938 min Scan# 1810
Delta R.T. -0.006 min
Lab File: VW020791.D
Acq: 05 Nov 2021 20:01

Tgt Ion:105 Resp: 20900
Ion Ratio Lower Upper
105 100
120 50.3 37.4 56.2

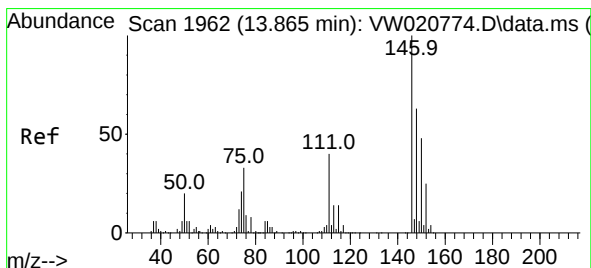
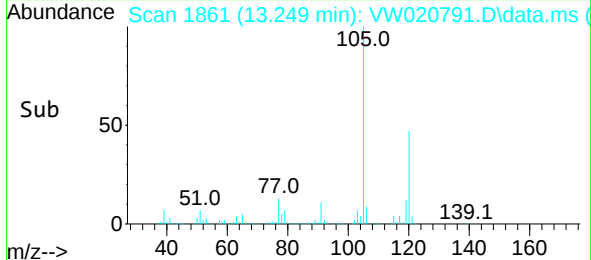
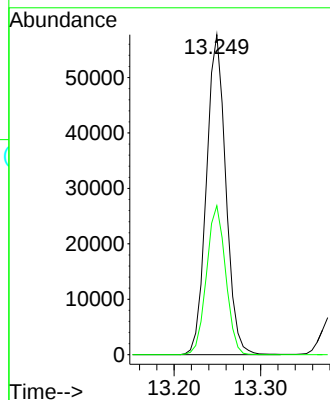
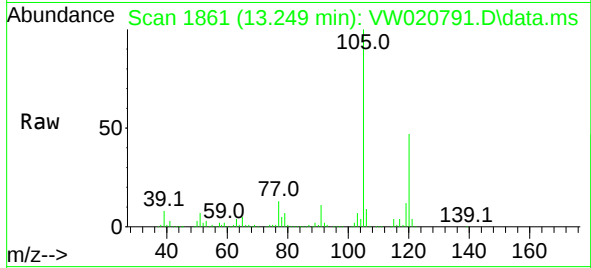




#63
 1,2,4-Trimethylbenzene
 Concen: 8.729 ug/L
 RT: 13.249 min Scan# 1861
 Delta R.T. -0.000 min
 Lab File: VW020791.D
 Acq: 05 Nov 2021 20:01

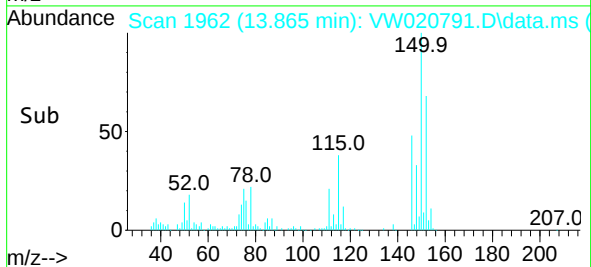
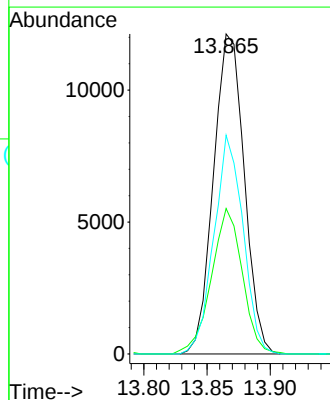
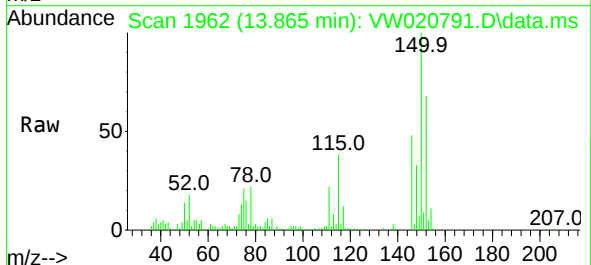
Instrument :
 MSVOA_W
 ClientSampleId :

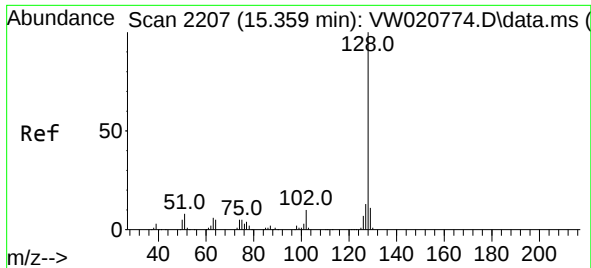
Tgt Ion:105 Resp: 89644
 Ion Ratio Lower Upper
 105 100
 120 45.8 35.0 52.6



#67
 1,2-Dichlorobenzene
 Concen: 4.161 ug/L
 RT: 13.865 min Scan# 1962
 Delta R.T. -0.006 min
 Lab File: VW020791.D
 Acq: 05 Nov 2021 20:01

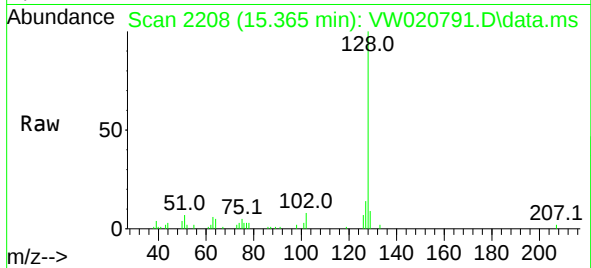
Tgt Ion:146 Resp: 20503
 Ion Ratio Lower Upper
 146 100
 111 45.4 33.1 49.7
 148 68.4 47.4 71.2





#71
Naphthalene
Concen: 1.594 ug/L
RT: 15.365 min Scan# 21
Delta R.T. -0.000 min
Lab File: VW020791.D
Acq: 05 Nov 2021 20:01

Instrument :
MSVOA_W
ClientSampleId :



Tgt Ion:128 Resp: 9944
Ion Ratio Lower Upper
128 100
127 13.4 10.7 16.1
129 9.7 8.6 12.8

