

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW110621\
 Data File : VW020795.D
 Acq On : 05 Nov 2021 21:37
 Operator : SY/VA
 Sample : M4464-11
 Misc : 5.57g/10.0mL/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Nov 08 04:55:32 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	154345	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.634	117	124979	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.560	152	44656	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.349	65	43811	30.190	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	120.760%
7) Chloroethane-d5	3.087	69	146	0.178	ug/L	0.20
Spiked Amount	25.000	Range	30 - 150	Recovery	=	0.720%#
11) 1,1-Dichloroethene-d2	4.019	63	64706	21.243	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	84.960%
21) 2-Butanone-d5	7.074	46	30713	63.728	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	127.460%
24) Chloroform-d	7.647	84	84709	24.700	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	98.800%
26) 1,2-Dichloroethane-d4	8.305	65	51582	28.253	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	113.000%
32) Benzene-d6	8.275	84	165597	29.327	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	117.320%
36) 1,2-Dichloropropane-d6	9.275	67	52871	30.242	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	120.960%#
41) Toluene-d8	10.323	98	151812	27.635	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	110.520%
43) trans-1,3-Dichloroprop...	10.579	79	26176	30.187	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	120.760%
47) 2-Hexanone-d5	10.921	63	25702	72.660	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	145.320%#
56) 1,1,2,2-Tetrachloroeth...	12.689	84	46647	32.195	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	128.800%#
66) 1,2-Dichlorobenzene-d4	13.853	152	40525	28.877	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	115.520%
Target Compounds						Qvalue
5) Vinyl chloride	2.355	62	19327	8.137	ug/L	87
10) 1,1,2-Trichloro-1,2,2-...	4.056	101	160019	77.228	ug/L	90
12) 1,1-Dichloroethene	4.038	96	26766	13.555	ug/L	78
13) Acetone	4.123	43	52217	117.912	ug/L	93
14) Carbon disulfide	4.385	76	6163	1.034	ug/L	99
17) trans-1,2-Dichloroethene	5.428	96	7305	3.480	ug/L	88
19) 1,1-Dichloroethane	6.214	63	467526	128.605	ug/L	99
20) cis-1,2-Dichloroethene	7.165	96	2124459	960.127	ug/L	84
22) 2-Butanone	7.171	43	8726	14.676	ug/L #	1
27) 1,2-Dichloroethane	8.397	62	4974	2.030	ug/L #	94
29) Cyclohexane	7.958	56	82543	25.314	ug/L	93
30) 1,1,1-Trichloroethane	7.872	97	138224	46.540	ug/L	95
31) Carbon tetrachloride	7.872	117	17777	6.290	ug/L	98
33) Benzene	8.323	78	19703	2.632	ug/L	100
34) Trichloroethene	9.092	95	30761	15.439	ug/L	95
35) Methylcyclohexane	9.335	83	18211	5.238	ug/L	95
40) 4-Methyl-2-pentanone	10.213	43	21684	18.722	ug/L #	97
42) Toluene	10.396	91	13394274	1664.122	ug/L	90
45) 1,1,2-Trichloroethane	10.780	97	2213	1.683	ug/L	86

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

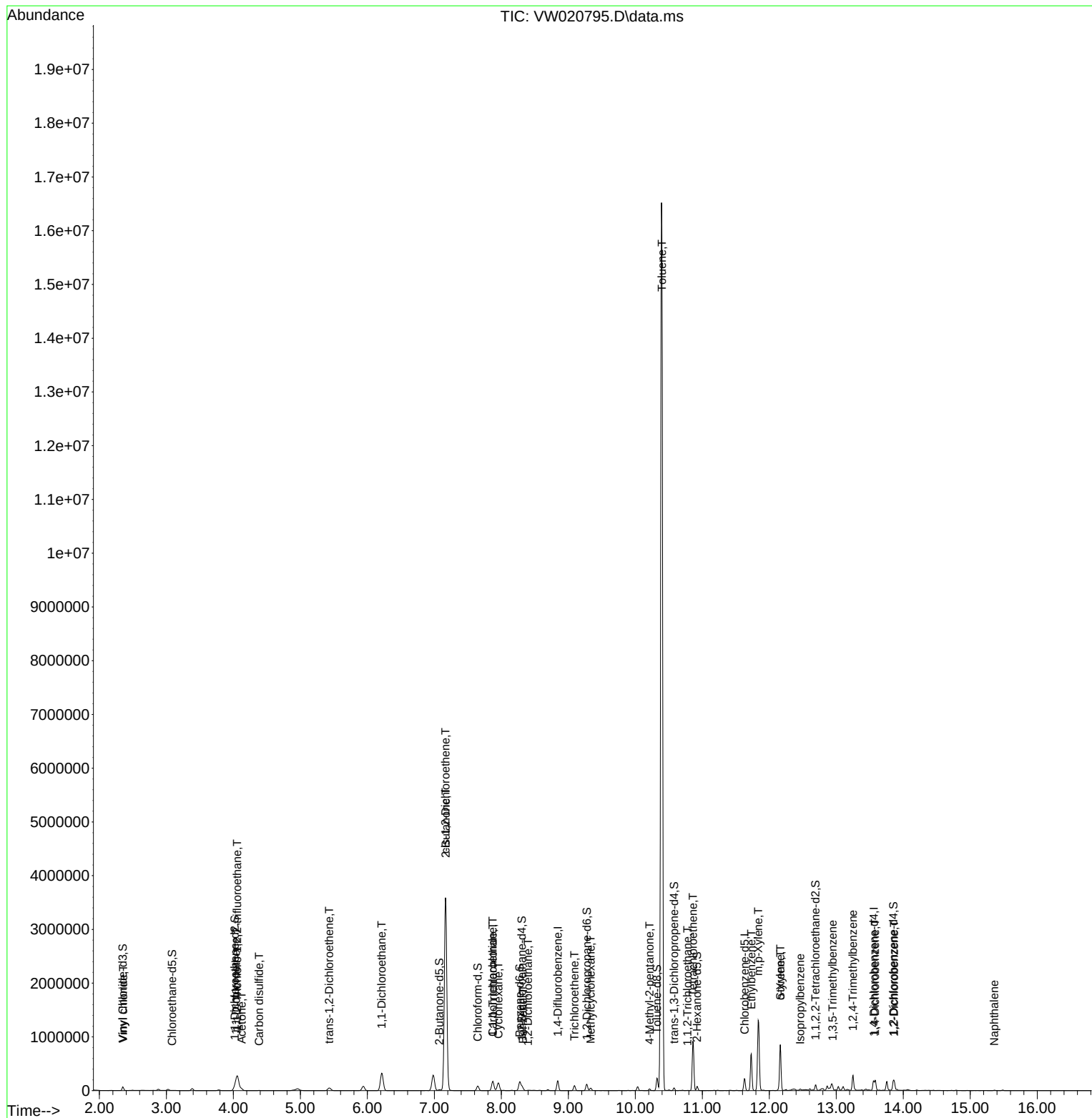
46) Tetrachloroethene	10.860	164	211552	118.381	ug/L	97
52) Ethylbenzene	11.731	91	481978	53.446	ug/L	99
53) m,p-Xylene	11.835	106	407167	112.690	ug/L	91
54) o-Xylene	12.164	106	224329	65.543	ug/L	98
55) Styrene	12.164	104	11206	1.926	ug/L #	1
60) Isopropylbenzene	12.463	105	14817	2.407	ug/L	97
62) 1,3,5-Trimethylbenzene	12.945	105	31290	5.916	ug/L	95
63) 1,2,4-Trimethylbenzene	13.249	105	152157	28.960	ug/L	99
65) 1,4-Dichlorobenzene	13.579	146	2587	0.910	ug/L	92
67) 1,2-Dichlorobenzene	13.865	146	33783	13.402	ug/L	96
71) Naphthalene	15.359	128	7266	2.276	ug/L	98

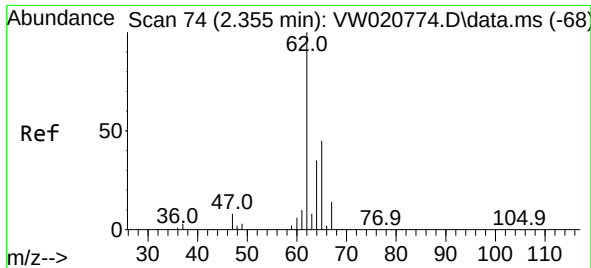
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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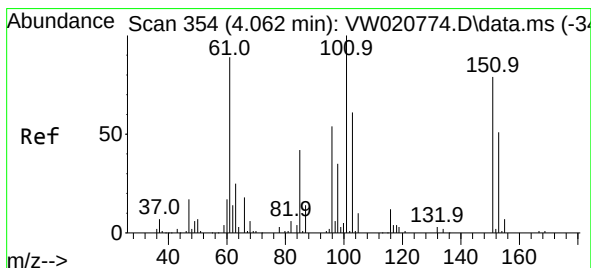
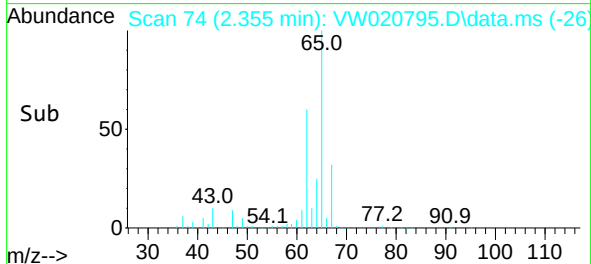
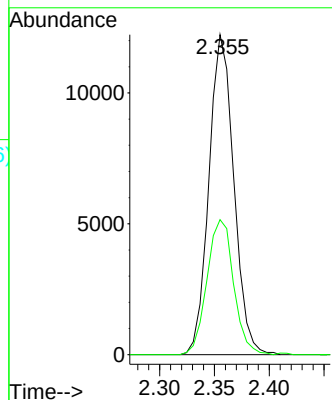
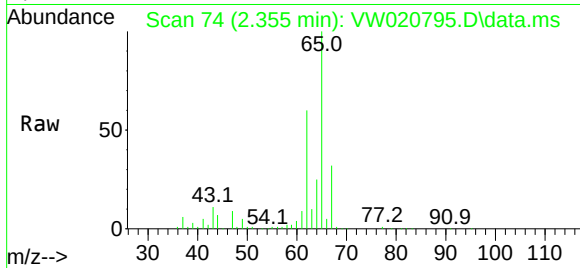




#5
 Vinyl chloride
 Concen: 8.137 ug/L
 RT: 2.355 min Scan# 74
 Delta R.T. -0.006 min
 Lab File: VW020795.D
 Acq: 05 Nov 2021 21:37

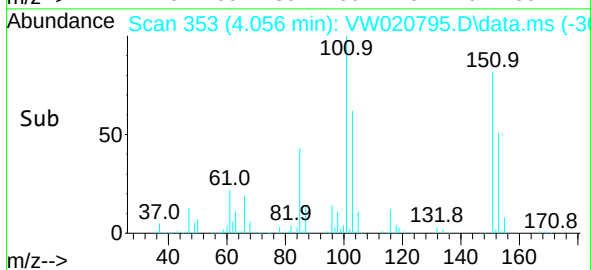
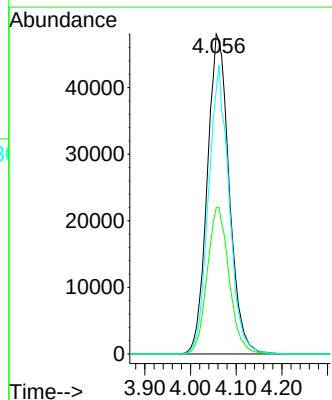
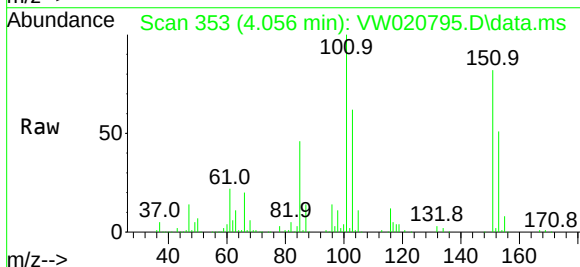
Instrument :
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 ClientSampleId :

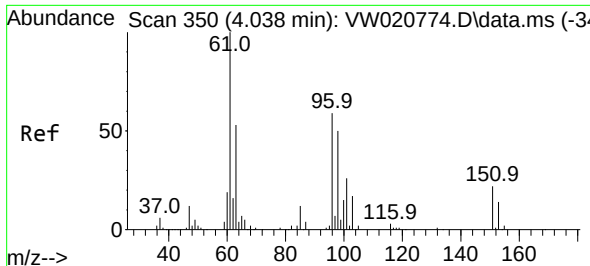
Tgt Ion: 62 Resp: 19327
 Ion Ratio Lower Upper
 62 100
 64 42.2 24.4 45.2



#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 77.228 ug/L
 RT: 4.056 min Scan# 353
 Delta R.T. -0.012 min
 Lab File: VW020795.D
 Acq: 05 Nov 2021 21:37

Tgt Ion: 101 Resp: 160019
 Ion Ratio Lower Upper
 101 100
 85 45.7 36.6 54.8
 151 84.6 57.4 86.0

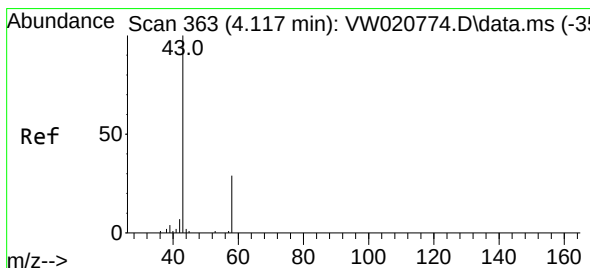
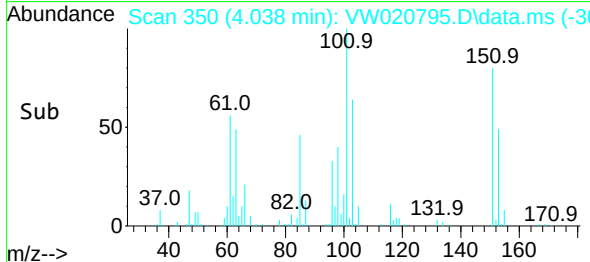
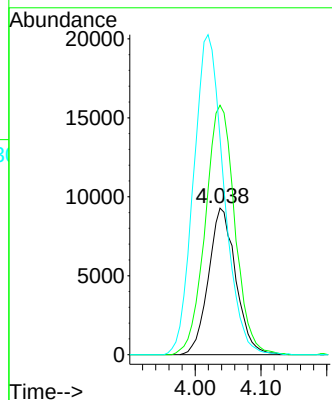
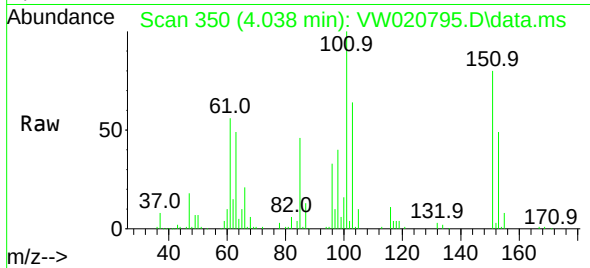




#12
 1,1-Dichloroethene
 Concen: 13.555 ug/L
 RT: 4.038 min Scan# 350
 Delta R.T. 0.000 min
 Lab File: VW020795.D
 Acq: 05 Nov 2021 21:37

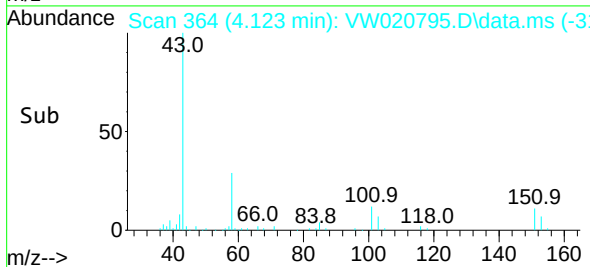
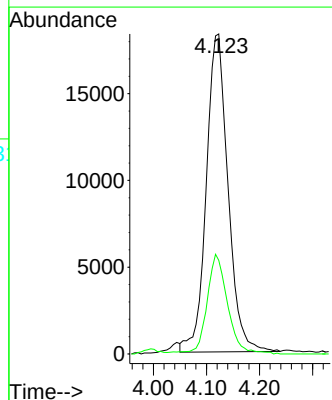
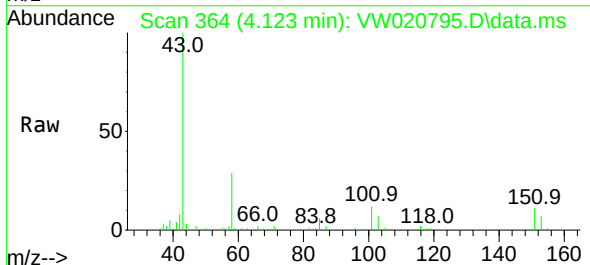
Instrument :
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 ClientSampleId :

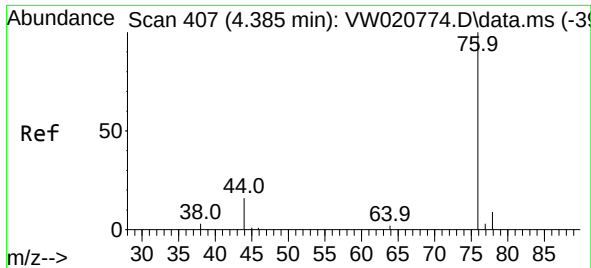
Tgt Ion: 96 Resp: 26766
 Ion Ratio Lower Upper
 96 100
 61 170.1 138.3 256.9
 63 147.7 82.6 153.4



#13
 Acetone
 Concen: 117.912 ug/L
 RT: 4.123 min Scan# 364
 Delta R.T. 0.000 min
 Lab File: VW020795.D
 Acq: 05 Nov 2021 21:37

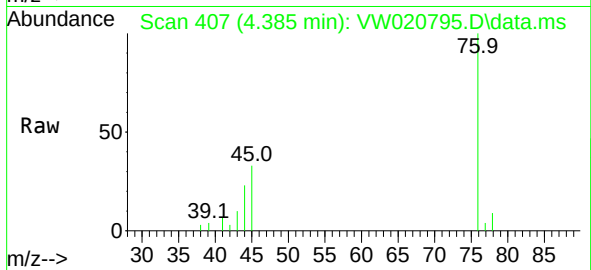
Tgt Ion: 43 Resp: 52217
 Ion Ratio Lower Upper
 43 100
 58 29.8 0.0 52.8



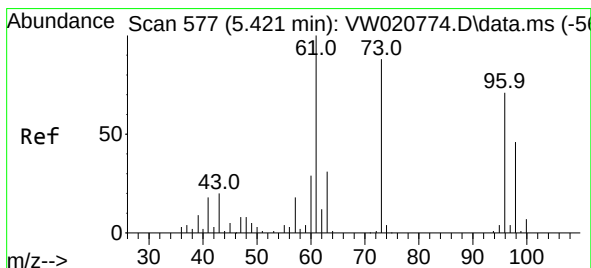
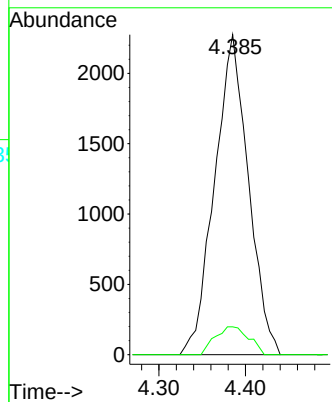
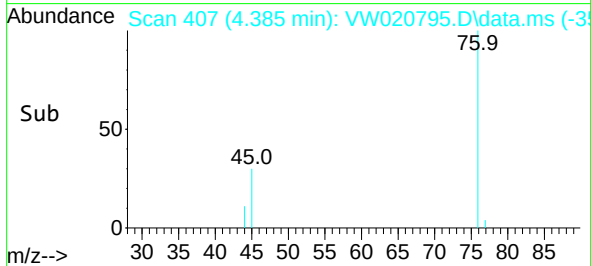


#14
Carbon disulfide
Concen: 1.034 ug/L
RT: 4.385 min Scan# 407
Delta R.T. 0.000 min
Lab File: VW020795.D
Acq: 05 Nov 2021 21:37

Instrument :
MSVOA_W
ClientSampleId :

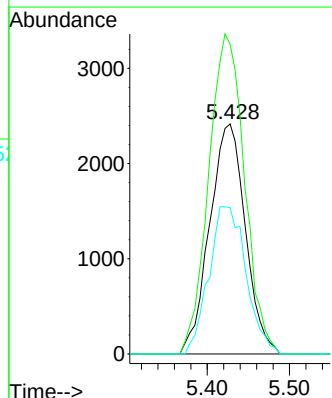
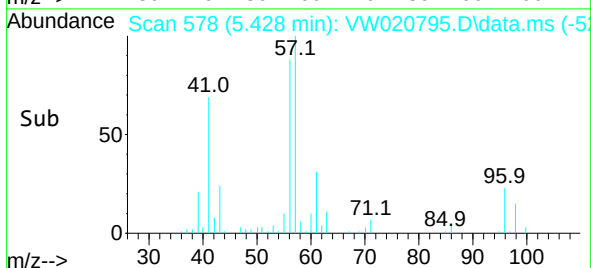
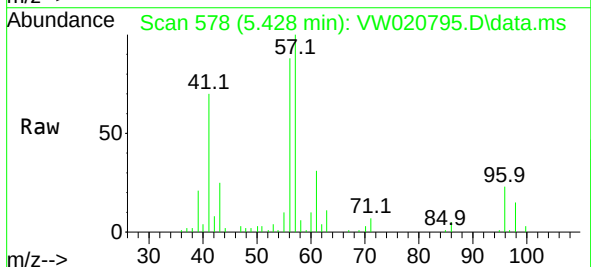


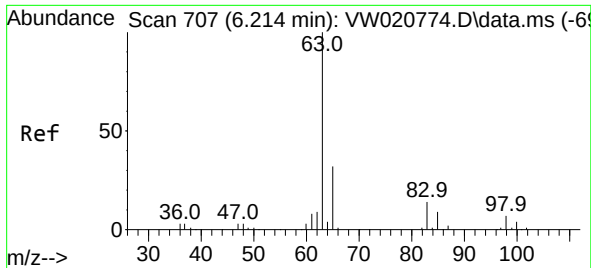
Tgt Ion: 76 Resp: 6163
Ion Ratio Lower Upper
76 100
78 8.7 7.1 10.7



#17
trans-1,2-Dichloroethene
Concen: 3.480 ug/L
RT: 5.428 min Scan# 578
Delta R.T. -0.000 min
Lab File: VW020795.D
Acq: 05 Nov 2021 21:37

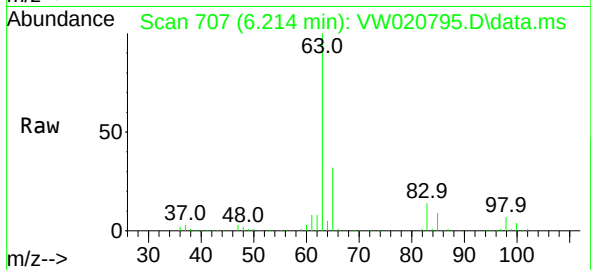
Tgt Ion: 96 Resp: 7305
Ion Ratio Lower Upper
96 100
61 134.6 107.4 199.4
98 63.6 41.2 76.6



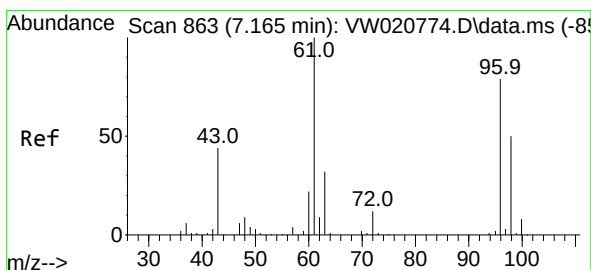
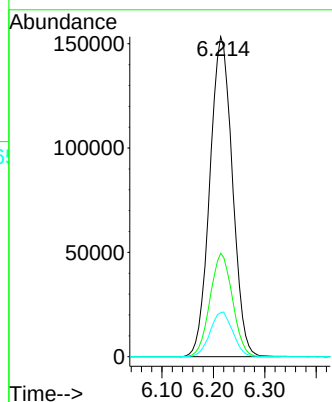
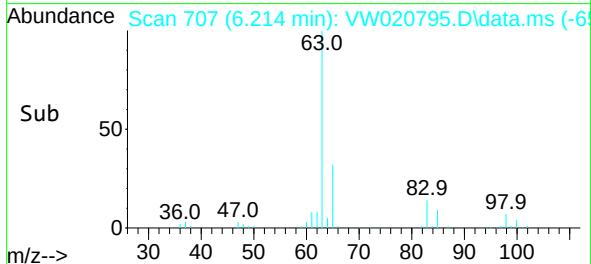


#19
1,1-Dichloroethane
Concen: 128.605 ug/L
RT: 6.214 min Scan# 707
Delta R.T. -0.006 min
Lab File: VW020795.D
Acq: 05 Nov 2021 21:37

Instrument :
MSVOA_W
ClientSampleId :

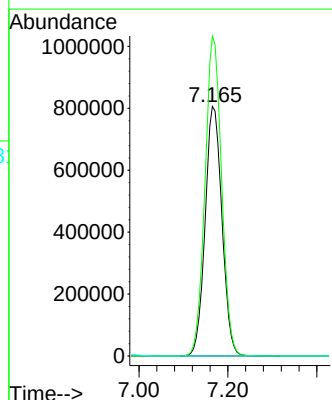
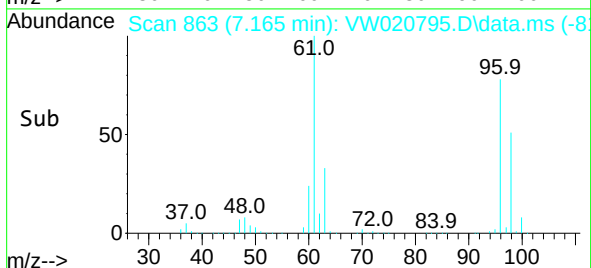
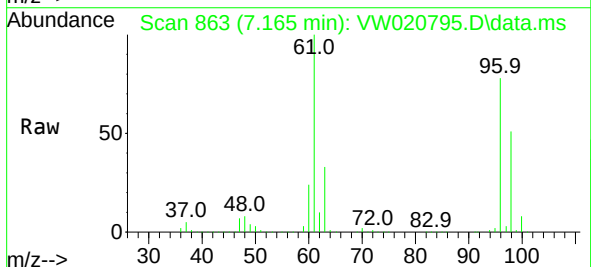


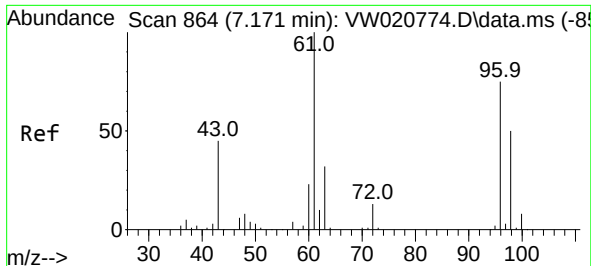
Tgt Ion: 63 Resp: 467526
Ion Ratio Lower Upper
63 100
65 32.3 22.1 41.1
83 13.8 9.2 17.2



#20
cis-1,2-Dichloroethene
Concen: 960.127 ug/L
RT: 7.165 min Scan# 863
Delta R.T. -0.006 min
Lab File: VW020795.D
Acq: 05 Nov 2021 21:37

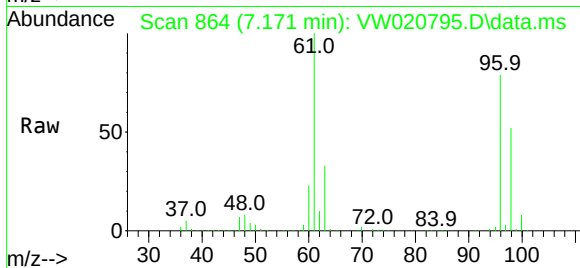
Tgt Ion: 96 Resp: 2124459
Ion Ratio Lower Upper
96 100
61 128.2 103.7 192.7
68 0.0 0.0 0.0



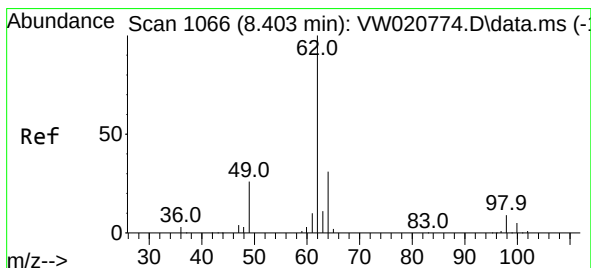
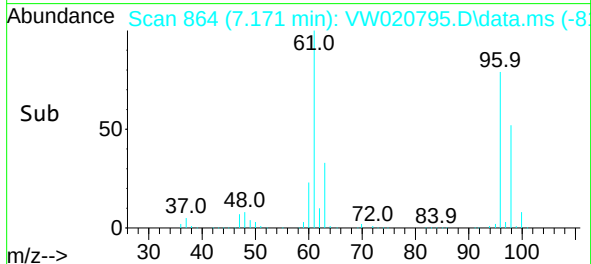
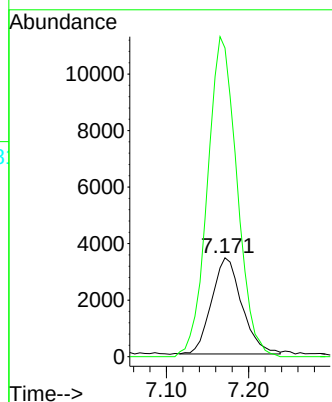


#22
2-Butanone
Concen: 14.676 ug/L
RT: 7.171 min Scan# 864
Delta R.T. 0.000 min
Lab File: VW020795.D
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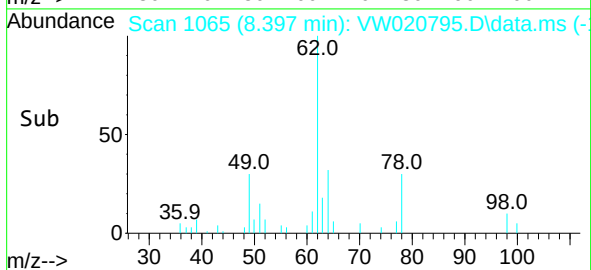
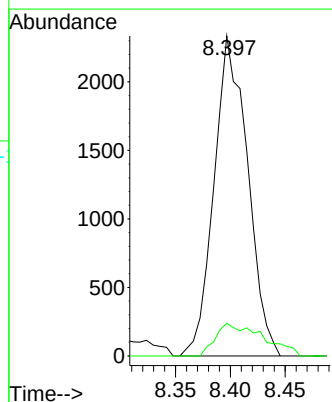
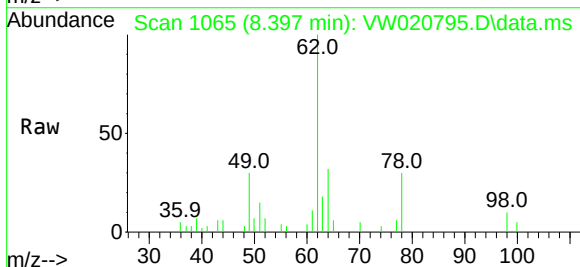


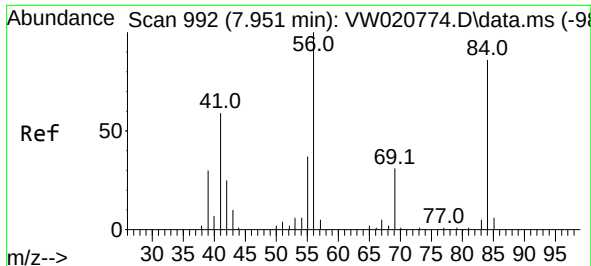
Tgt Ion: 43 Resp: 8726
Ion Ratio Lower Upper
43 100
72 324.3 11.8 35.4#



#27
1,2-Dichloroethane
Concen: 2.030 ug/L
RT: 8.397 min Scan# 1065
Delta R.T. -0.006 min
Lab File: VW020795.D
Acq: 05 Nov 2021 21:37

Tgt Ion: 62 Resp: 4974
Ion Ratio Lower Upper
62 100
98 10.2 6.5 9.7#





#29

Cyclohexane

Concen: 25.314 ug/L

RT: 7.958 min Scan# 992

Delta R.T. 0.000 min

Lab File: VW020795.D

Acq: 05 Nov 2021 21:37

Instrument :

MSVOA_W

ClientSampleId :

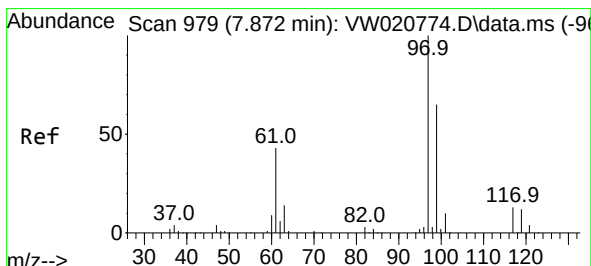
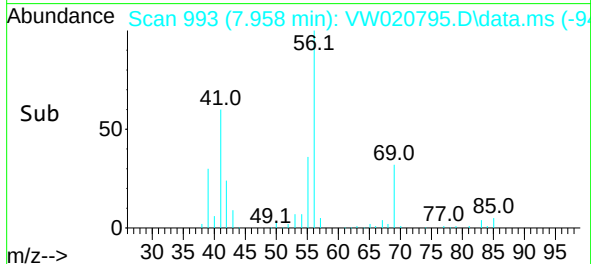
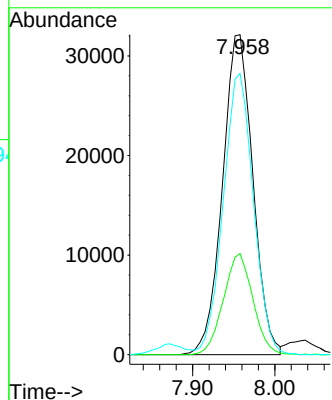
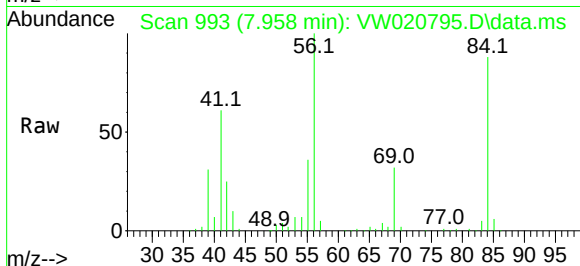
Tgt Ion: 56 Resp: 82543

Ion Ratio Lower Upper

56 100

69 30.7 23.5 35.3

84 87.3 63.4 95.2



#30

1,1,1-Trichloroethane

Concen: 46.540 ug/L

RT: 7.872 min Scan# 979

Delta R.T. 0.000 min

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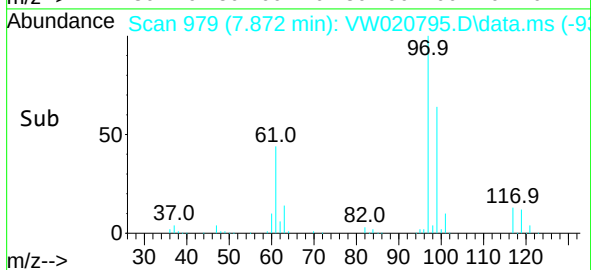
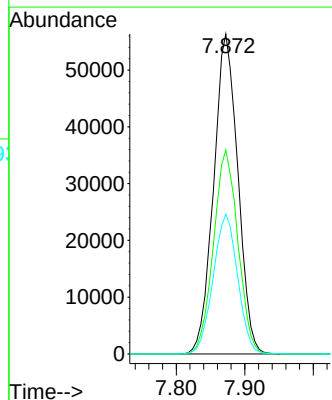
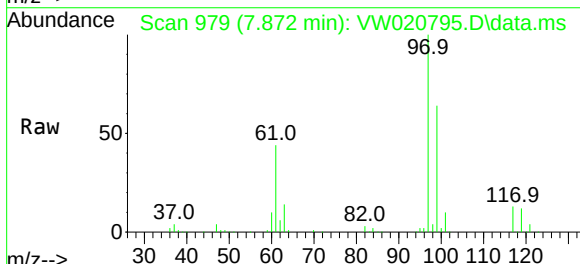
Tgt Ion: 97 Resp: 138224

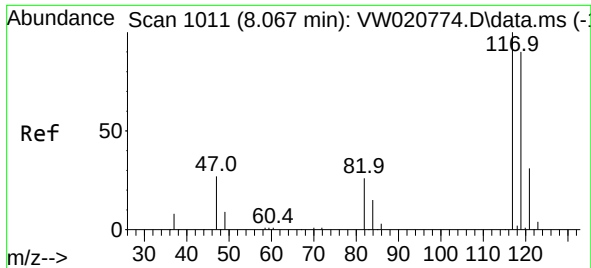
Ion Ratio Lower Upper

97 100

99 64.2 51.6 77.4

61 44.2 40.9 61.3

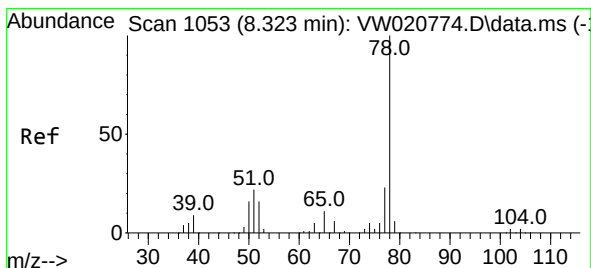
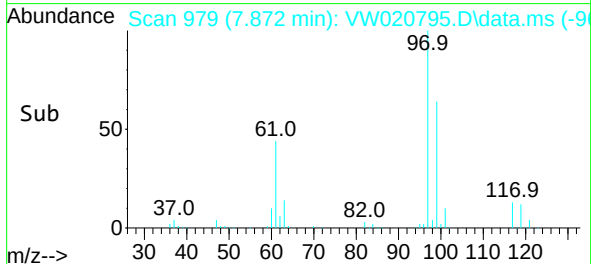
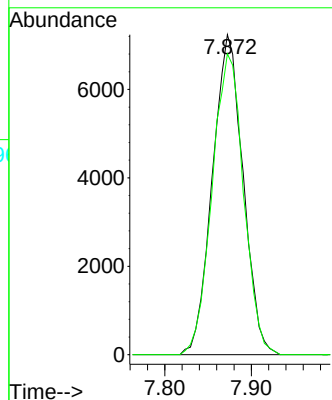
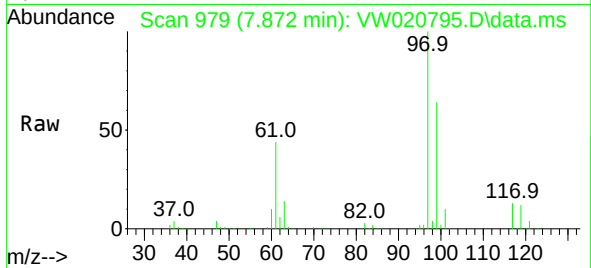




#31
Carbon tetrachloride
Concen: 6.290 ug/L
RT: 7.872 min Scan# 91
Delta R.T. -0.195 min
Lab File: VW020795.D
Acq: 05 Nov 2021 21:37

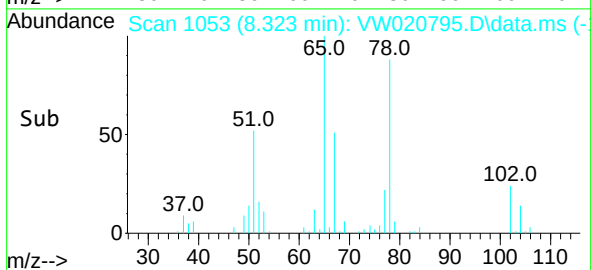
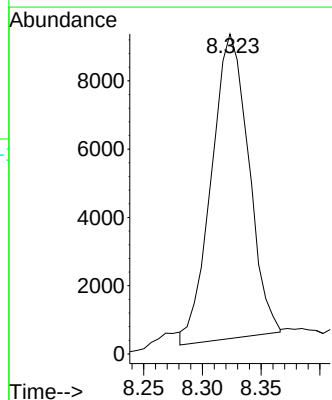
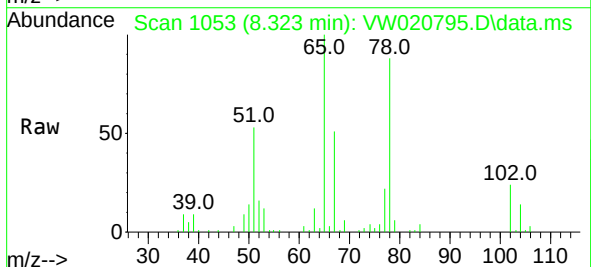
Instrument :
MSVOA_W
ClientSampleId :

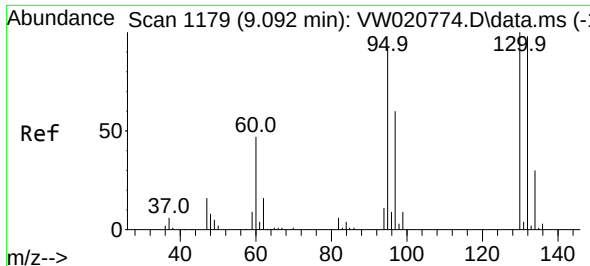
Tgt Ion:117 Resp: 17777
Ion Ratio Lower Upper
117 100
119 96.3 75.7 113.5



#33
Benzene
Concen: 2.632 ug/L
RT: 8.323 min Scan# 1053
Delta R.T. 0.000 min
Lab File: VW020795.D
Acq: 05 Nov 2021 21:37

Tgt Ion: 78 Resp: 19703





#34

Trichloroethene

Concen: 15.439 ug/L

RT: 9.092 min Scan# 1179

Delta R.T. 0.000 min

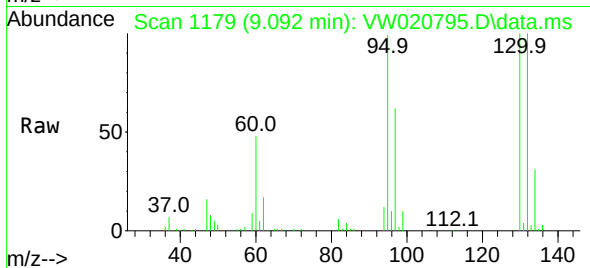
Lab File: VW020795.D

Acq: 05 Nov 2021 21:37

Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion: 95 Resp: 30761

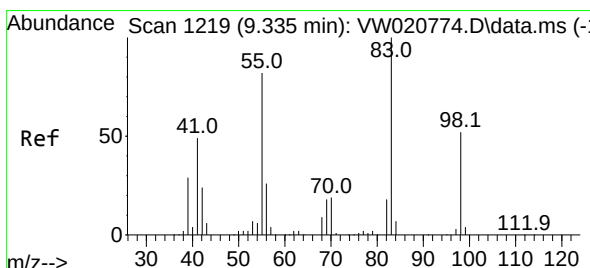
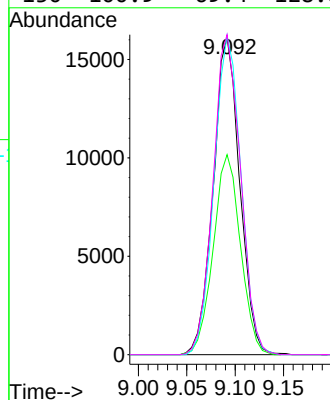
Ion Ratio Lower Upper

95 100

97 63.1 47.0 87.2

132 100.8 65.5 121.6

130 100.9 69.4 128.8



#35

Methylcyclohexane

Concen: 5.238 ug/L

RT: 9.335 min Scan# 1219

Delta R.T. 0.000 min

Lab File: VW020795.D

Acq: 05 Nov 2021 21:37

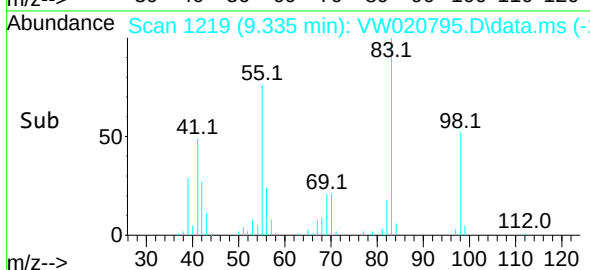
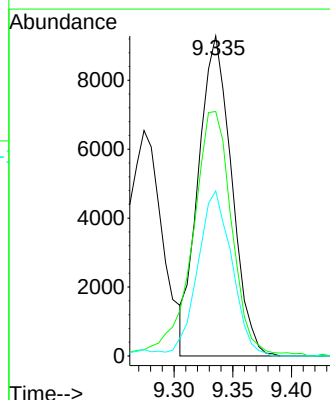
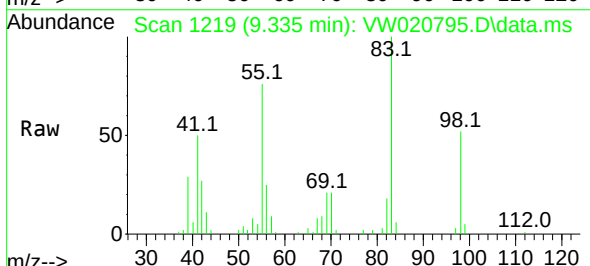
Tgt Ion: 83 Resp: 18211

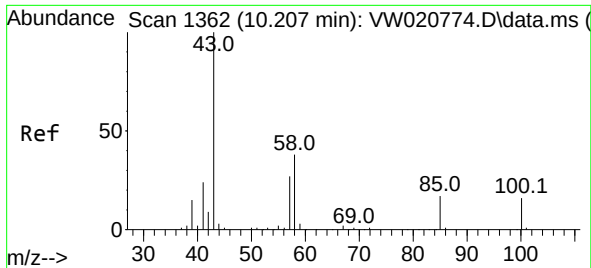
Ion Ratio Lower Upper

83 100

55 90.5 70.8 106.2

98 53.1 37.7 56.5





#40

4-Methyl-2-pentanone

Concen: 18.722 ug/L

RT: 10.213 min Scan# 11

Delta R.T. 0.006 min

Lab File: VW020795.D

Acq: 05 Nov 2021 21:37

Instrument :

MSVOA_W

ClientSampleId :

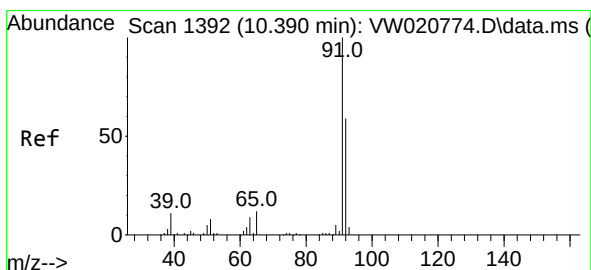
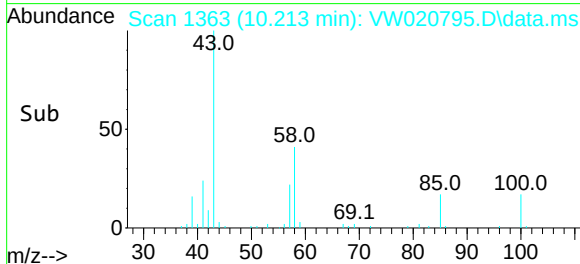
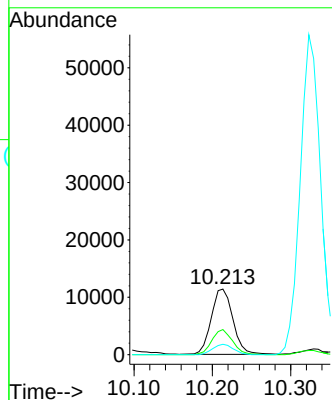
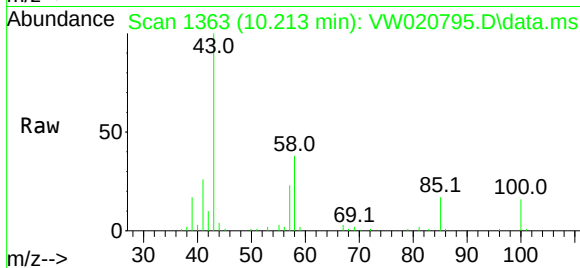
Tgt Ion: 43 Resp: 21684

Ion Ratio Lower Upper

43 100

58 36.9 28.8 43.2

100 15.3 10.0 15.0#



#42

Toluene

Concen: 1664.122 ug/L

RT: 10.396 min Scan# 1393

Delta R.T. 0.006 min

Lab File: VW020795.D

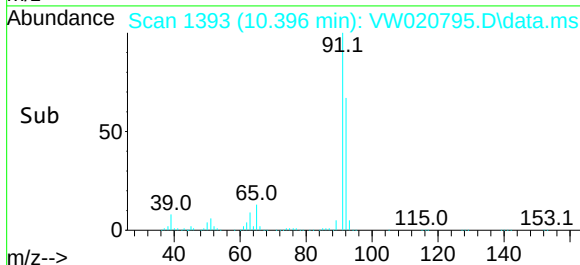
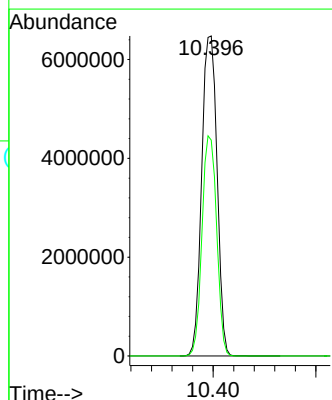
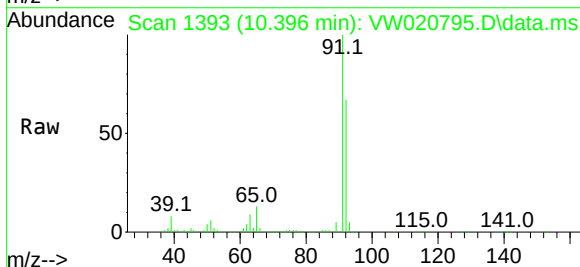
Acq: 05 Nov 2021 21:37

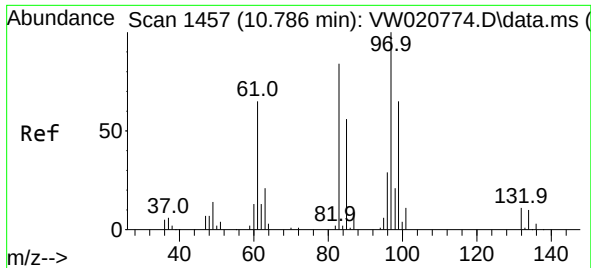
Tgt Ion: 91 Resp:13394274

Ion Ratio Lower Upper

91 100

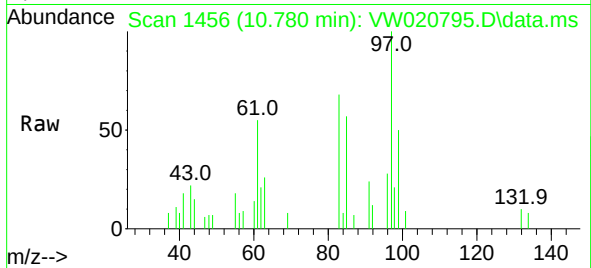
92 67.4 41.7 77.5



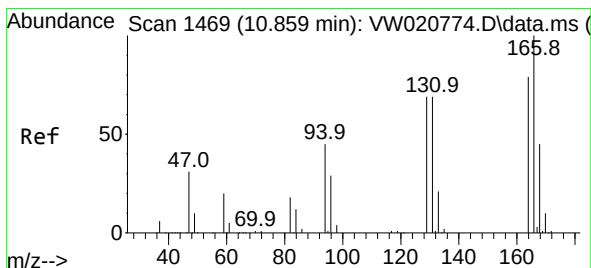
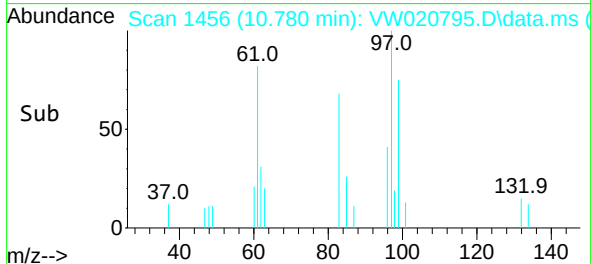
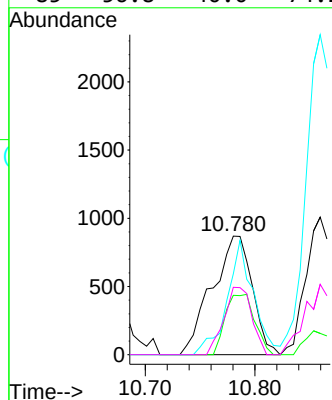


#45
1,1,2-Trichloroethane
Concen: 1.683 ug/L
RT: 10.780 min Scan# 1457
Delta R.T. -0.006 min
Lab File: VW020795.D
Acq: 05 Nov 2021 21:37

Instrument :
MSVOA_W
ClientSampleId :

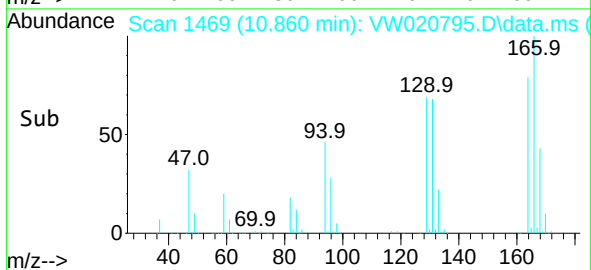
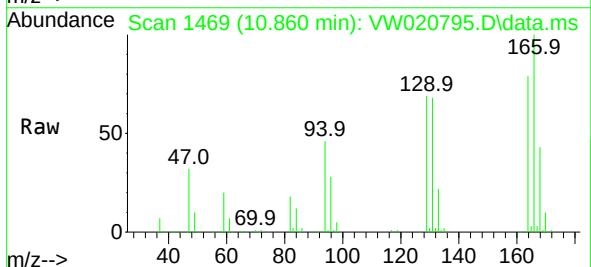
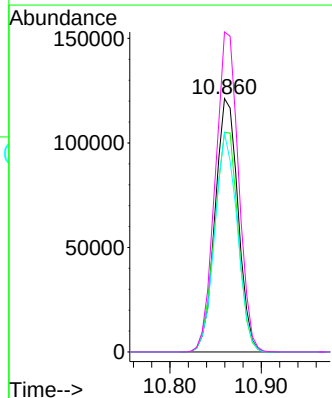


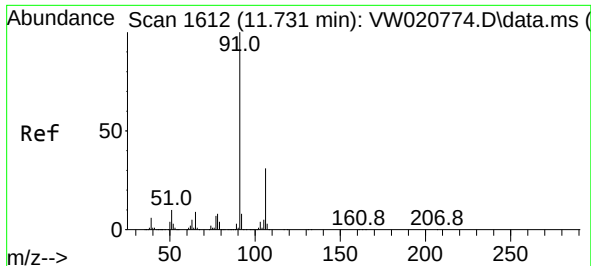
Tgt Ion: 97	Resp: 2213
Ion Ratio	Lower Upper
97 100	
99 50.1	43.0 79.8
83 68.2	62.6 116.3
85 56.8	40.0 74.2



#46
Tetrachloroethene
Concen: 118.381 ug/L
RT: 10.860 min Scan# 1469
Delta R.T. 0.000 min
Lab File: VW020795.D
Acq: 05 Nov 2021 21:37

Tgt	Ion:164	Resp:	211552
Ion	Ratio	Lower	Upper
164	100		
129	86.6	65.5	121.7
131	86.4	59.7	110.9
166	126.3	88.7	164.7

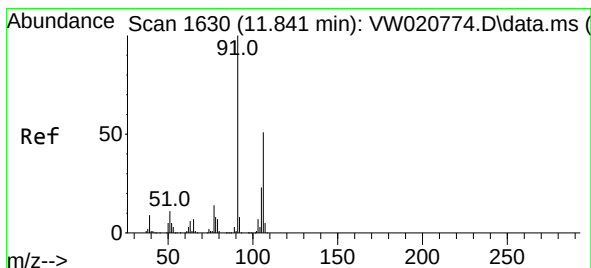
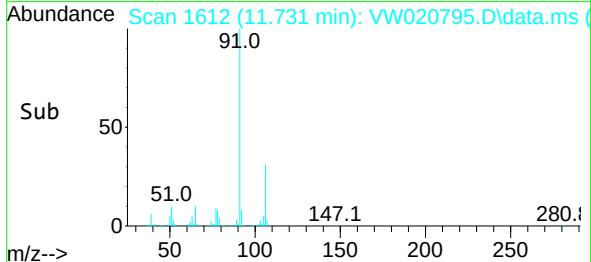
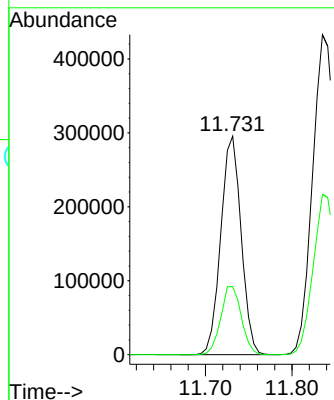
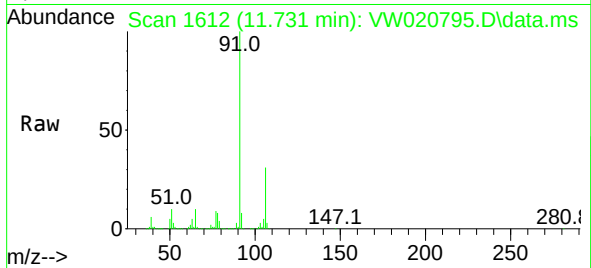




#52
Ethylbenzene
Concen: 53.446 ug/L
RT: 11.731 min Scan# 1612
Delta R.T. 0.000 min
Lab File: VW020795.D
Acq: 05 Nov 2021 21:37

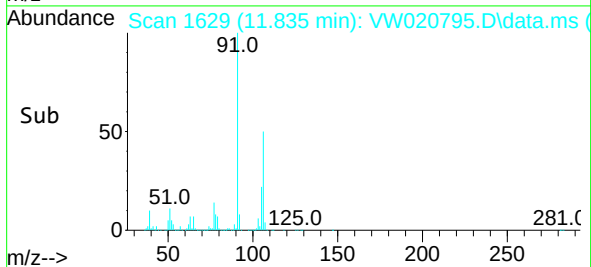
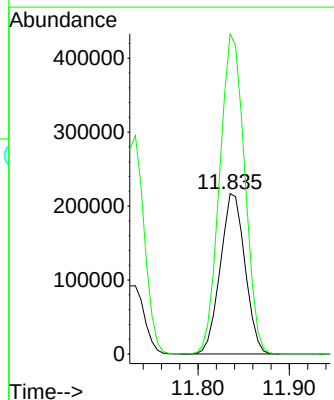
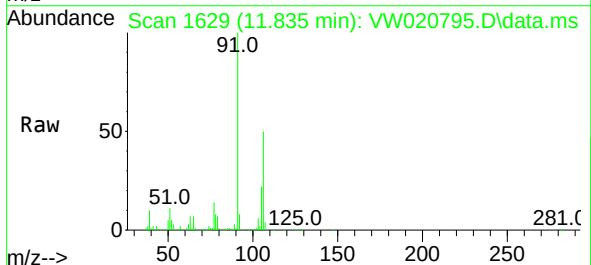
Instrument :
MSVOA_W
ClientSampleId :

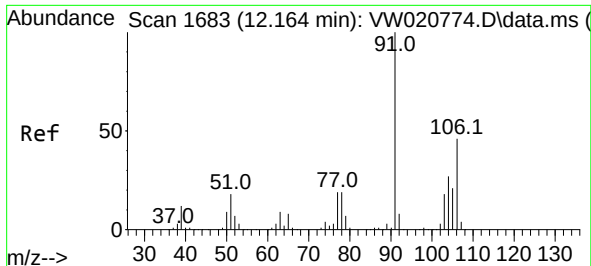
Tgt Ion: 91 Resp: 481978
Ion Ratio Lower Upper
91 100
106 31.2 21.5 39.9



#53
m,p-Xylene
Concen: 112.690 ug/L
RT: 11.835 min Scan# 1629
Delta R.T. -0.006 min
Lab File: VW020795.D
Acq: 05 Nov 2021 21:37

Tgt Ion:106 Resp: 407167
Ion Ratio Lower Upper
106 100
91 199.5 149.9 278.3

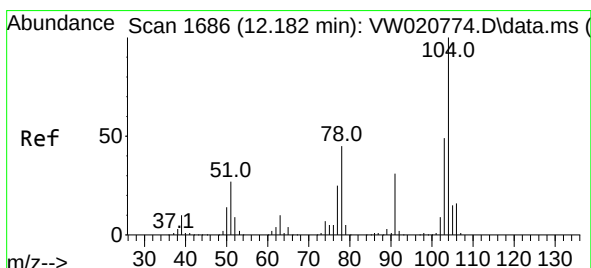
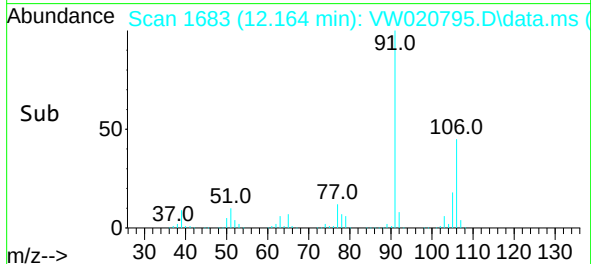
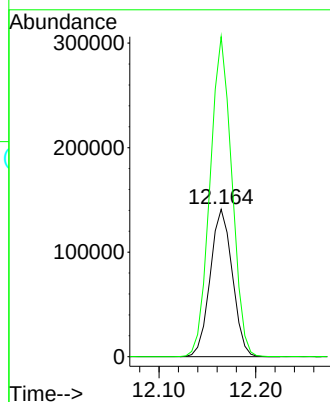
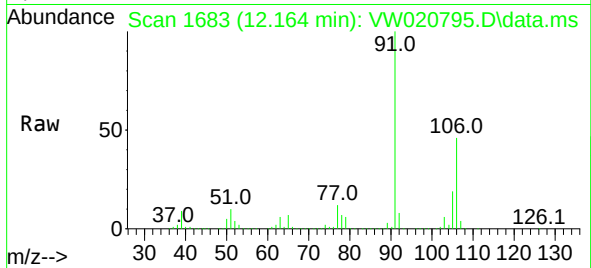




#54
o-Xylene
Concen: 65.543 ug/L
RT: 12.164 min Scan# 1683
Delta R.T. 0.000 min
Lab File: VW020795.D
Acq: 05 Nov 2021 21:37

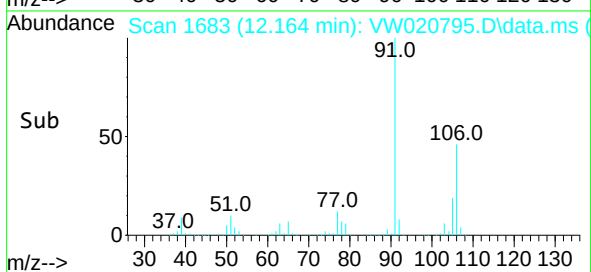
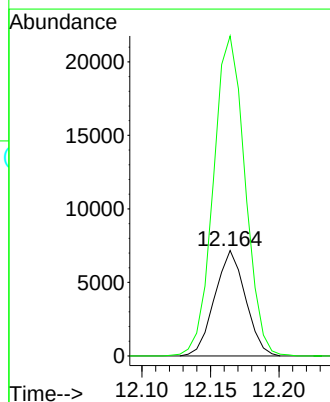
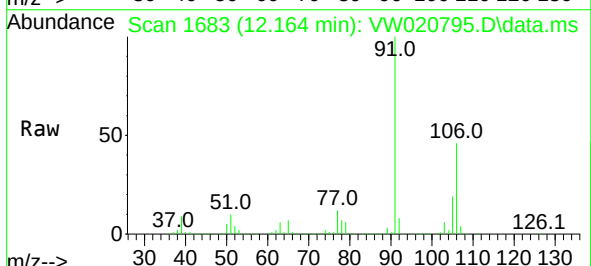
Instrument :
MSVOA_W
ClientSampleId :

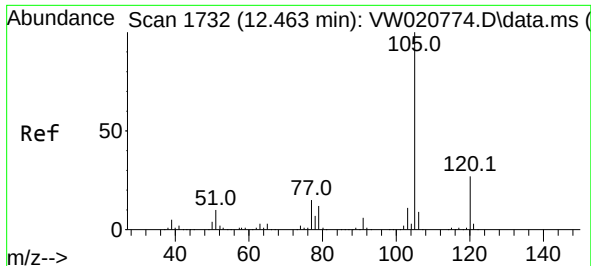
Tgt Ion:106 Resp: 224329
Ion Ratio Lower Upper
106 100
91 217.1 153.6 285.3



#55
Styrene
Concen: 1.926 ug/L
RT: 12.164 min Scan# 1683
Delta R.T. -0.018 min
Lab File: VW020795.D
Acq: 05 Nov 2021 21:37

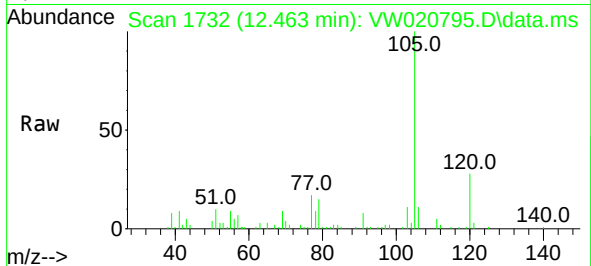
Tgt Ion:104 Resp: 11206
Ion Ratio Lower Upper
104 100
78 303.5 34.4 64.0#



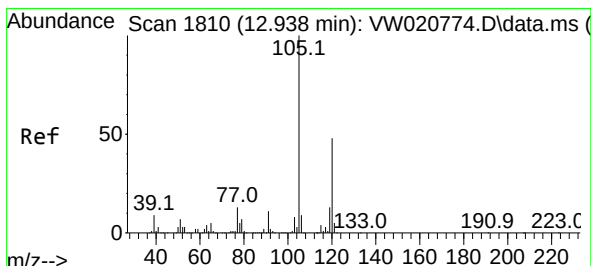
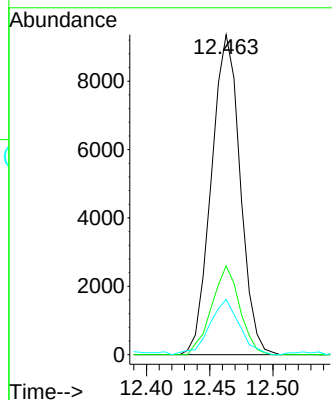
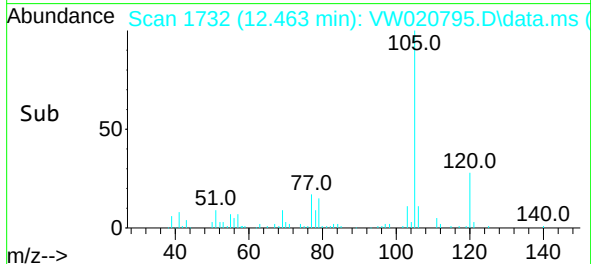


#60
Isopropylbenzene
Concen: 2.407 ug/L
RT: 12.463 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW020795.D
Acq: 05 Nov 2021 21:37

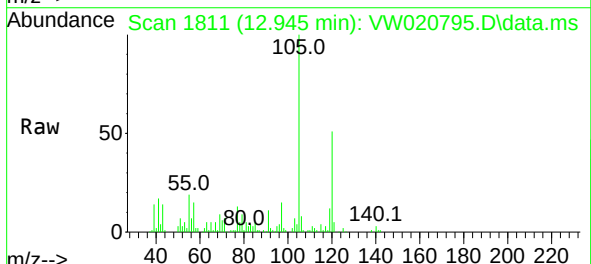
Instrument :
MSVOA_W
ClientSampleId :



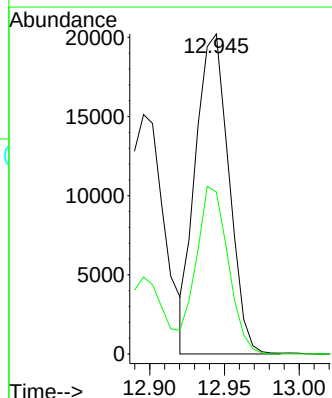
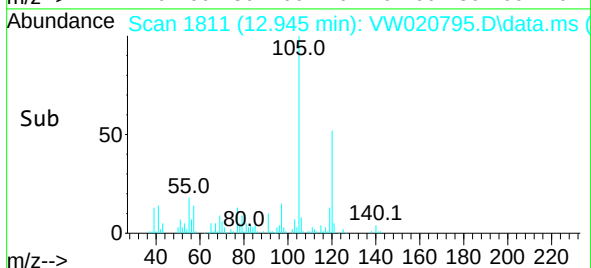
Tgt Ion:105 Resp: 14817
Ion Ratio Lower Upper
105 100
120 27.0 20.1 30.1
77 17.8 13.8 20.8

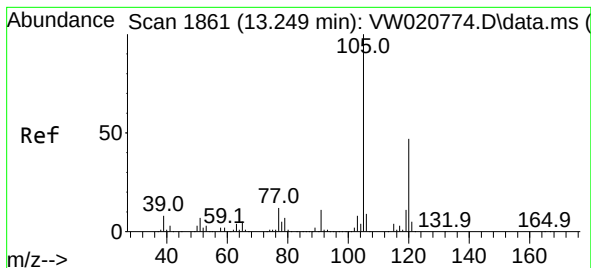


#62
1,3,5-Trimethylbenzene
Concen: 5.916 ug/L
RT: 12.945 min Scan# 1811
Delta R.T. 0.000 min
Lab File: VW020795.D
Acq: 05 Nov 2021 21:37



Tgt Ion:105 Resp: 31290
Ion Ratio Lower Upper
105 100
120 50.0 37.4 56.2





#63

1,2,4-Trimethylbenzene

Concen: 28.960 ug/L

RT: 13.249 min Scan# 1861

Delta R.T. 0.000 min

Lab File: VW020795.D

Acq: 05 Nov 2021 21:37

Instrument :

MSVOA_W

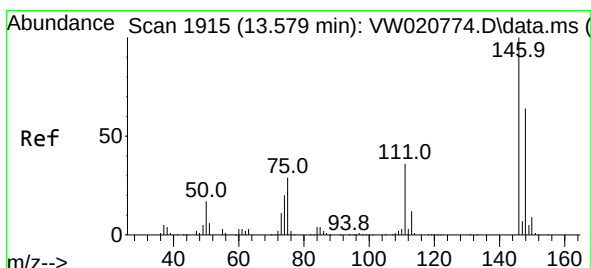
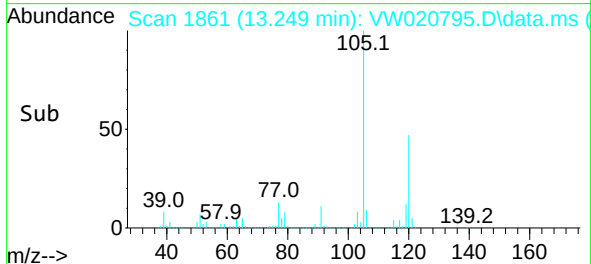
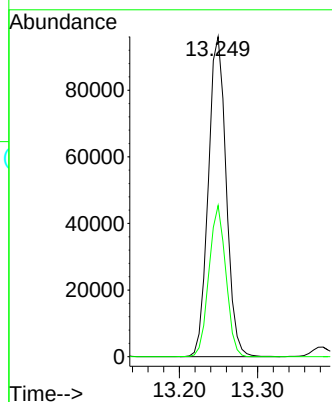
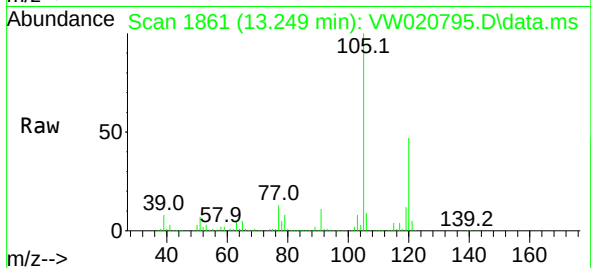
ClientSampleId :

Tgt Ion:105 Resp: 152157

Ion Ratio Lower Upper

105 100

120 44.6 35.0 52.6



#65

1,4-Dichlorobenzene

Concen: 0.910 ug/L

RT: 13.579 min Scan# 1915

Delta R.T. 0.000 min

Lab File: VW020795.D

Acq: 05 Nov 2021 21:37

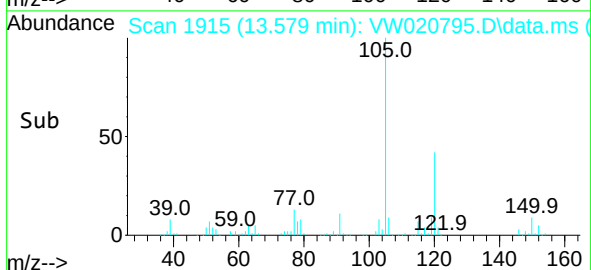
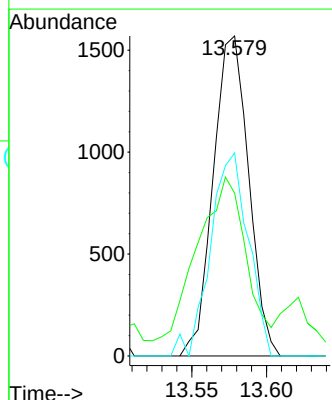
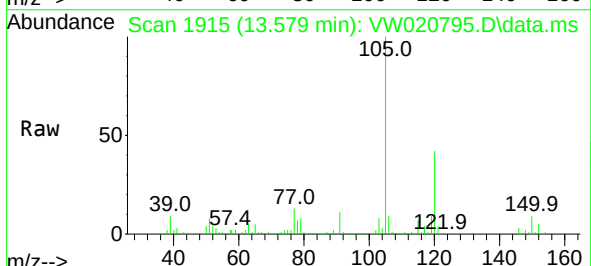
Tgt Ion:146 Resp: 2587

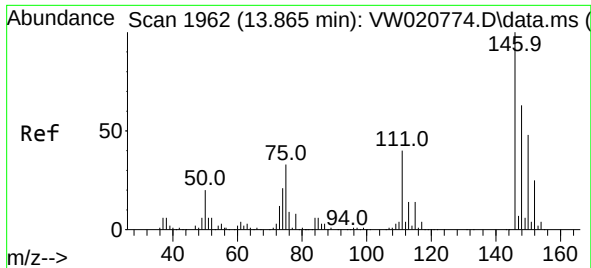
Ion Ratio Lower Upper

146 100

111 50.9 29.0 53.9

148 63.4 46.9 87.1





#67

1,2-Dichlorobenzene

Concen: 13.402 ug/L

RT: 13.865 min Scan# 1962

Delta R.T. -0.006 min

Lab File: VW020795.D

Acq: 05 Nov 2021 21:37

Instrument :

MSVOA_W

ClientSampleId :

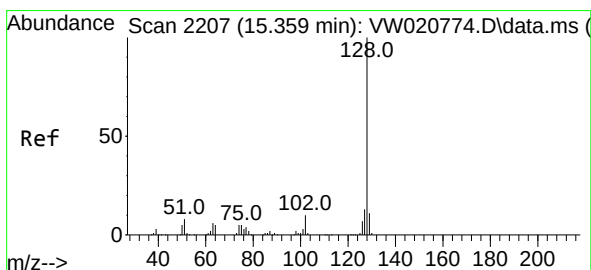
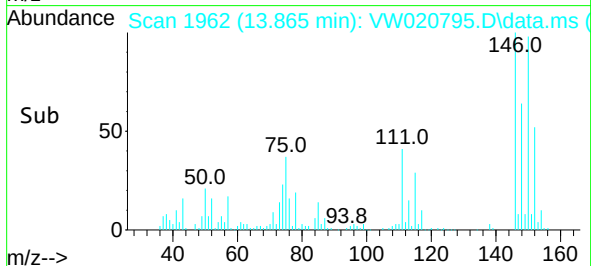
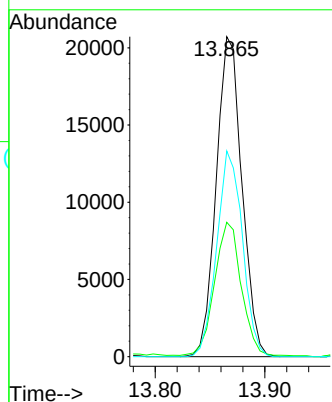
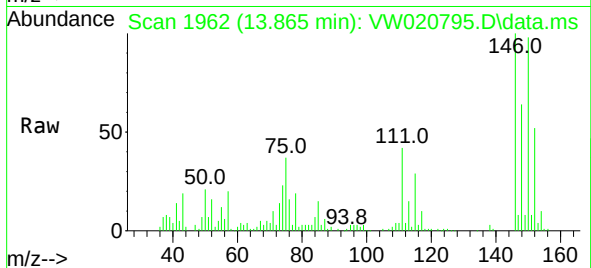
Tgt Ion:146 Resp: 33783

Ion Ratio Lower Upper

146 100

111 42.0 33.1 49.7

148 64.3 47.4 71.2



#71

Naphthalene

Concen: 2.276 ug/L

RT: 15.359 min Scan# 2207

Delta R.T. -0.006 min

Lab File: VW020795.D

Acq: 05 Nov 2021 21:37

Tgt Ion:128 Resp: 7266

Ion Ratio Lower Upper

128 100

127 14.1 10.7 16.1

129 11.4 8.6 12.8

