

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW110821\
 Data File : VW020807.D
 Acq On : 08 Nov 2021 13:42
 Operator : SY/VA
 Sample : M4464-06
 Misc : 6.47g/10.0mL/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 GB7K4

Quant Time: Nov 09 07:11:21 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM110621SMA.M
 Quant Title : SFAM01.0
 QLast Update : Mon Nov 08 04:39:29 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.842	114	150223	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.634	117	135080	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.554	152	50178	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.349	65	39212	27.762	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	111.040%
7) Chloroethane-d5	2.965	69	243	0.302	ug/L	0.08
Spiked Amount	25.000	Range	30 - 150	Recovery	=	1.200%#
11) 1,1-Dichloroethene-d2	4.032	63	152354	51.390	ug/L	0.01
Spiked Amount	25.000	Range	45 - 110	Recovery	=	205.560%#
21) 2-Butanone-d5	7.104	46	27469	58.560	ug/L	0.02
Spiked Amount	50.000	Range	20 - 135	Recovery	=	117.120%
24) Chloroform-d	7.647	84	73245	21.943	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	87.760%
26) 1,2-Dichloroethane-d4	8.305	65	44568	25.081	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	100.320%
32) Benzene-d6	8.275	84	144454	23.669	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	94.680%
36) 1,2-Dichloropropane-d6	9.275	67	46408	24.560	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	98.240%
41) Toluene-d8	10.329	98	139942	23.569	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	94.280%
43) trans-1,3-Dichloroprop...	10.579	79	25355	27.054	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	108.200%
47) 2-Hexanone-d5	10.921	63	24400	63.821	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	255.280%#
56) 1,1,2,2-Tetrachloroeth...	12.689	84	43074	27.506	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	110.040%
66) 1,2-Dichlorobenzene-d4	13.847	152	38275	24.272	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	97.080%
Target Compounds						
						Qvalue
5) Vinyl chloride	2.355	62	42129	18.223	ug/L	98
10) 1,1,2-Trichloro-1,2,2-...	4.056	101	166980	82.802	ug/L	91
12) 1,1-Dichloroethene	4.044	96	203106	105.678	ug/L #	64
13) Acetone	4.117	43	991337	2270.904	ug/L	94
14) Carbon disulfide	4.391	76	22383	3.858	ug/L	99
17) trans-1,2-Dichloroethene	5.422	96	54093	26.477	ug/L	85
19) 1,1-Dichloroethane	6.214	63	1543136	436.126	ug/L	98
20) cis-1,2-Dichloroethene	7.159	96	12316600	5719.095	ug/L #	63
22) 2-Butanone	7.183	43	91733	158.140	ug/L #	1
25) Chloroform	7.671	83	6683	1.814	ug/L	98
27) 1,2-Dichloroethane	8.397	62	32919	13.805	ug/L	95
29) Cyclohexane	7.958	56	14288	4.054	ug/L	92
30) 1,1,1-Trichloroethane	7.872	97	817478	254.661	ug/L	94
31) Carbon tetrachloride	7.872	117	106881	34.989	ug/L	97
33) Benzene	8.324	78	76344	9.437	ug/L	100
34) Trichloroethene	9.092	95	38561	17.907	ug/L	89
35) Methylcyclohexane	9.336	83	4160	1.107	ug/L #	80
39) cis-1,3-Dichloropropene	10.031	75	1858	0.596	ug/L #	47
40) 4-Methyl-2-pentanone	10.220	43	172667	137.934	ug/L #	95

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

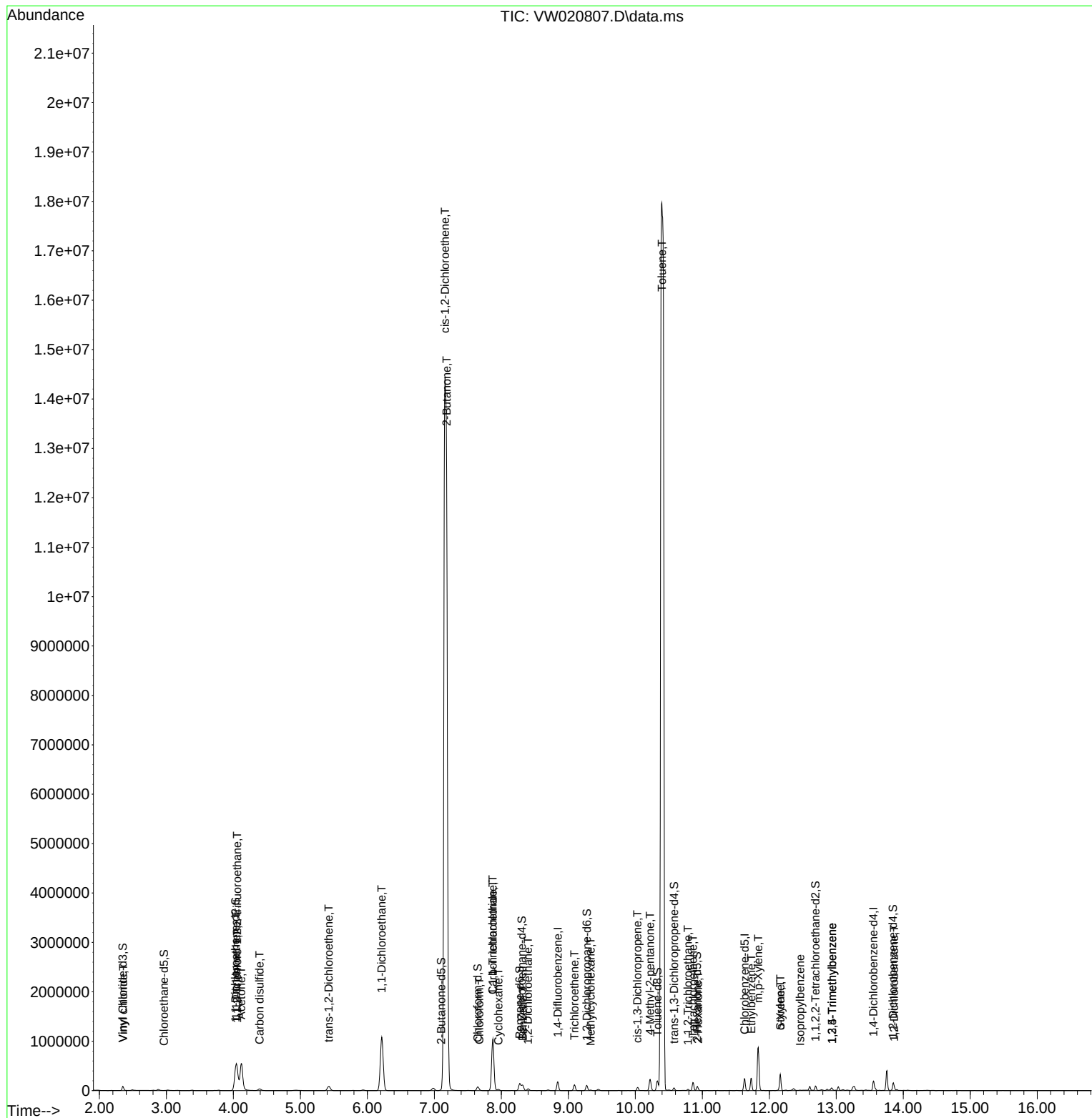
42) Toluene	10.396	91	15484816	1779.992	ug/L	88
45) 1,1,2-Trichloroethane	10.787	97	7804	5.490	ug/L	94
46) Tetrachloroethene	10.860	164	37277	19.300	ug/L	96
48) 2-Hexanone	10.939	43	20884	22.847	ug/L #	47
52) Ethylbenzene	11.731	91	173939	17.846	ug/L	99
53) m,p-Xylene	11.835	106	260380	66.676	ug/L	97
54) o-Xylene	12.164	106	85572	23.132	ug/L	94
55) Styrene	12.164	104	4389	0.698	ug/L #	1
60) Isopropylbenzene	12.463	105	3881	0.561	ug/L	95
62) 1,3,5-Trimethylbenzene	12.939	105	7293	1.227	ug/L	93
63) 1,2,4-Trimethylbenzene	12.939	105	7293	1.235	ug/L	88
67) 1,2-Dichlorobenzene	13.865	146	6943	2.451	ug/L	95

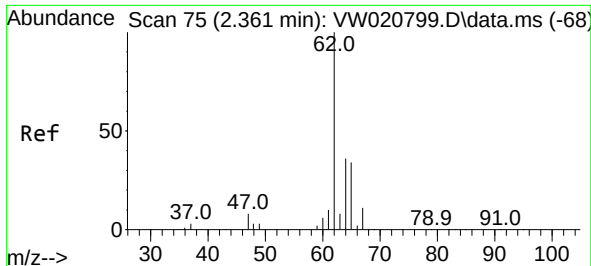
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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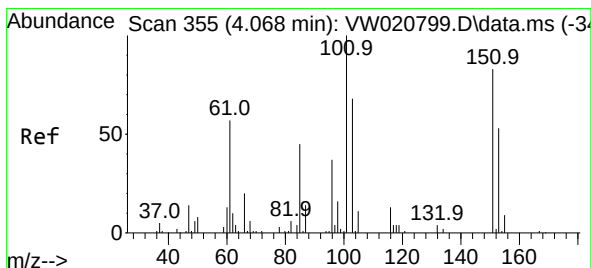
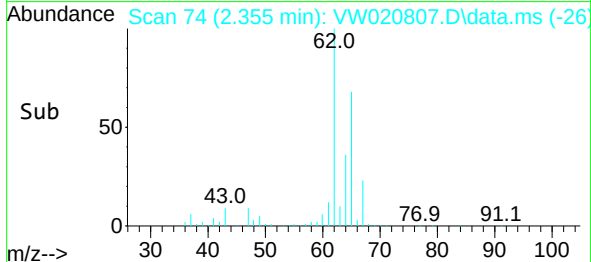
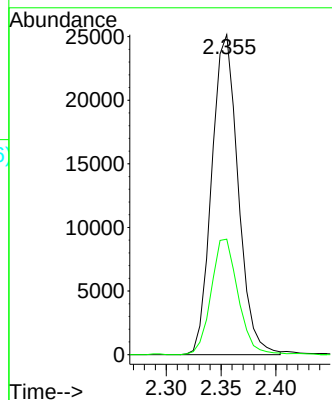
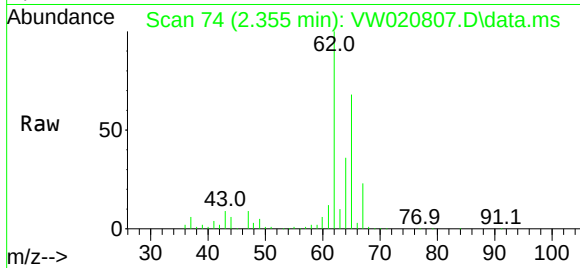




#5
 Vinyl chloride
 Concen: 18.223 ug/L
 RT: 2.355 min Scan# 74
 Delta R.T. -0.006 min
 Lab File: VW020807.D
 Acq: 08 Nov 2021 13:42

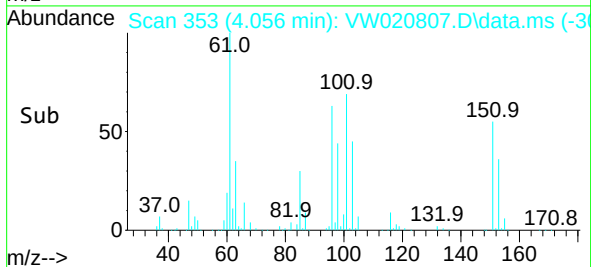
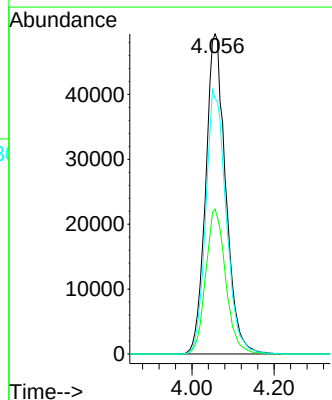
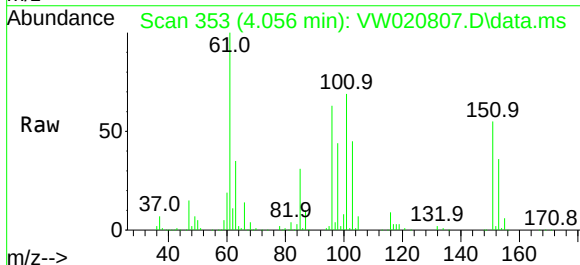
Instrument :
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 ClientSampleId :
 GB7K4

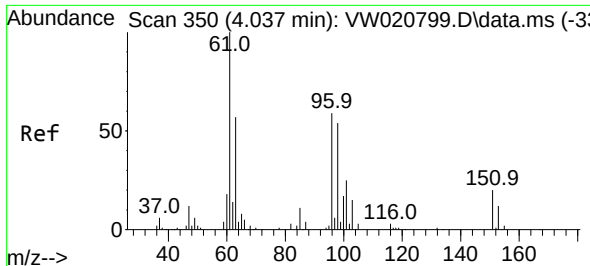
Tgt Ion: 62 Resp: 42129
 Ion Ratio Lower Upper
 62 100
 64 36.1 24.4 45.2



#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 82.802 ug/L
 RT: 4.056 min Scan# 353
 Delta R.T. -0.012 min
 Lab File: VW020807.D
 Acq: 08 Nov 2021 13:42

Tgt Ion: 101 Resp: 166980
 Ion Ratio Lower Upper
 101 100
 85 45.1 36.6 54.8
 151 83.8 57.4 86.0

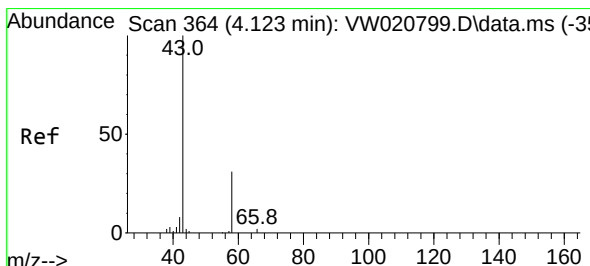
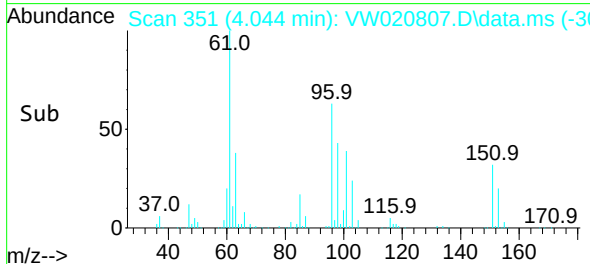
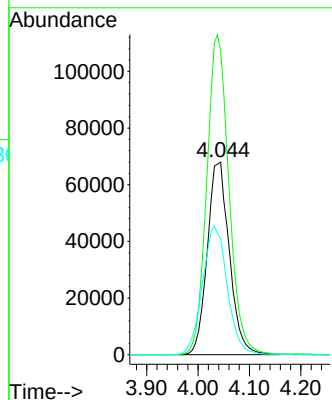
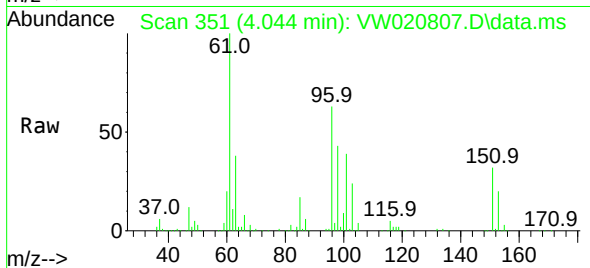




#12
1,1-Dichloroethene
Concen: 105.678 ug/L
RT: 4.044 min Scan# 351
Delta R.T. 0.006 min
Lab File: VW020807.D
Acq: 08 Nov 2021 13:42

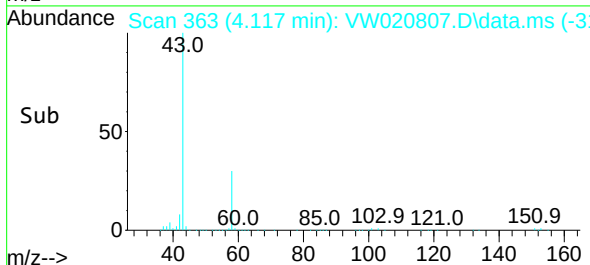
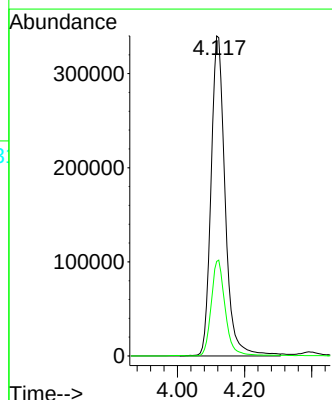
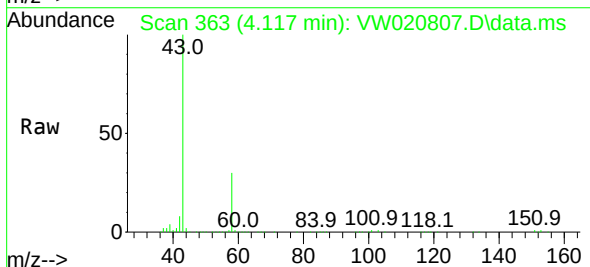
Instrument :
MSVOA_W
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GB7K4

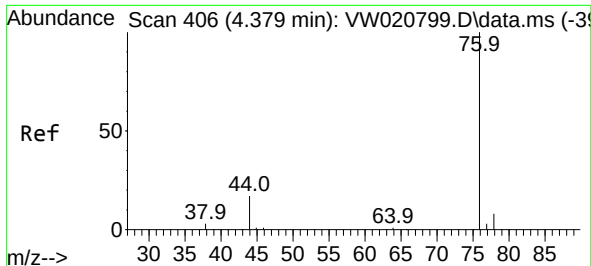
Tgt Ion: 96 Resp: 203106
Ion Ratio Lower Upper
96 100
61 157.7 138.3 256.9
63 60.1 82.6 153.4#



#13
Acetone
Concen: 2270.904 ug/L
RT: 4.117 min Scan# 363
Delta R.T. -0.006 min
Lab File: VW020807.D
Acq: 08 Nov 2021 13:42

Tgt Ion: 43 Resp: 991337
Ion Ratio Lower Upper
43 100
58 29.5 0.0 52.8

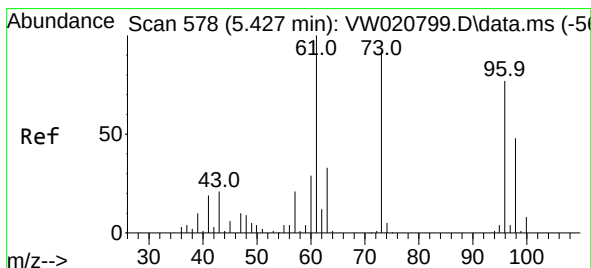
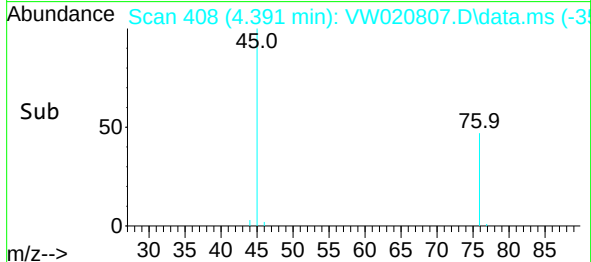
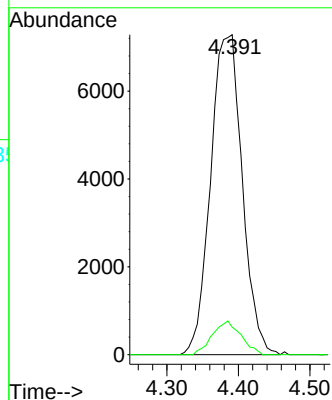
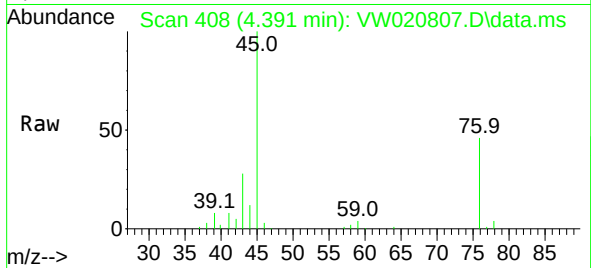




#14
Carbon disulfide
Concen: 3.858 ug/L
RT: 4.391 min Scan# 406
Delta R.T. 0.006 min
Lab File: VW020807.D
Acq: 08 Nov 2021 13:42

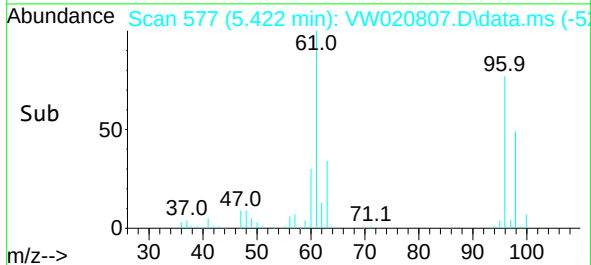
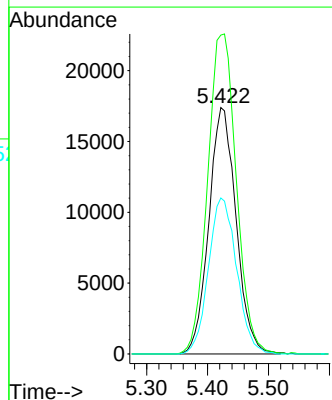
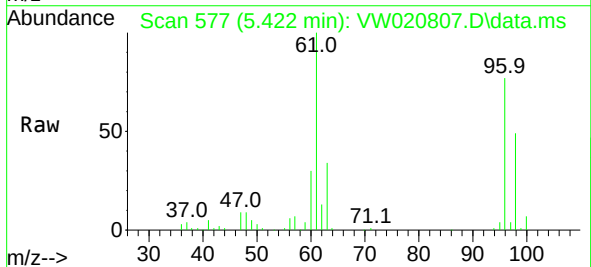
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ClientSampleId :
GB7K4

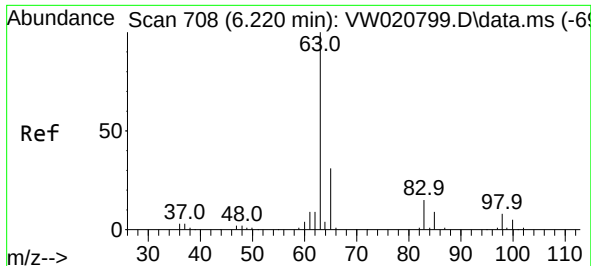
Tgt Ion: 76 Resp: 22383
Ion Ratio Lower Upper
76 100
78 8.6 7.1 10.7



#17
trans-1,2-Dichloroethene
Concen: 26.477 ug/L
RT: 5.422 min Scan# 577
Delta R.T. -0.006 min
Lab File: VW020807.D
Acq: 08 Nov 2021 13:42

Tgt Ion: 96 Resp: 54093
Ion Ratio Lower Upper
96 100
61 129.4 107.4 199.4
98 63.3 41.2 76.6

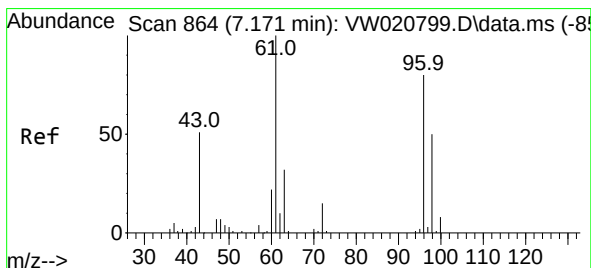
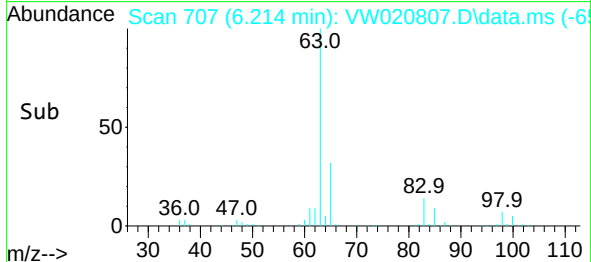
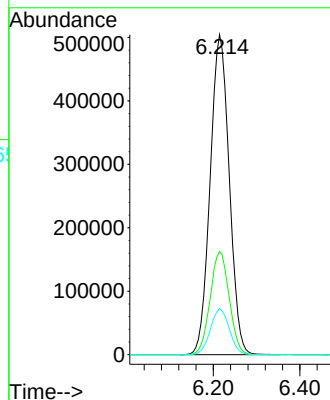
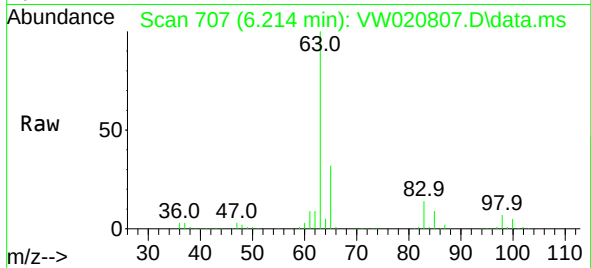




#19
1,1-Dichloroethane
Concen: 436.126 ug/L
RT: 6.214 min Scan# 708
Delta R.T. -0.006 min
Lab File: VW020807.D
Acq: 08 Nov 2021 13:42

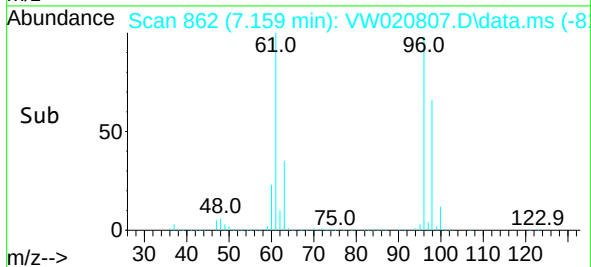
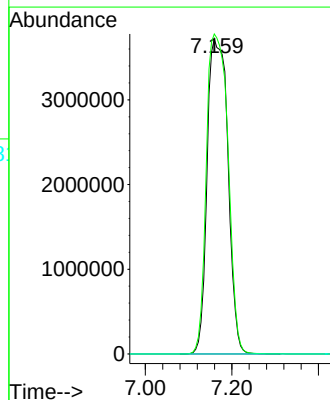
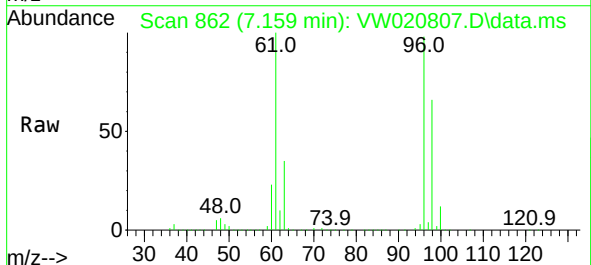
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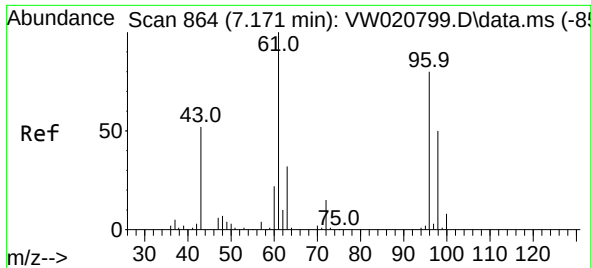
Tgt Ion: 63 Resp: 1543136
Ion Ratio Lower Upper
63 100
65 32.3 22.1 41.1
83 14.4 9.2 17.2



#20
cis-1,2-Dichloroethene
Concen: 5719.095 ug/L
RT: 7.159 min Scan# 862
Delta R.T. -0.012 min
Lab File: VW020807.D
Acq: 08 Nov 2021 13:42

Tgt Ion: 96 Resp:12316600
Ion Ratio Lower Upper
96 100
61 101.6 103.7 192.7#
68 0.0 0.0 0.0#

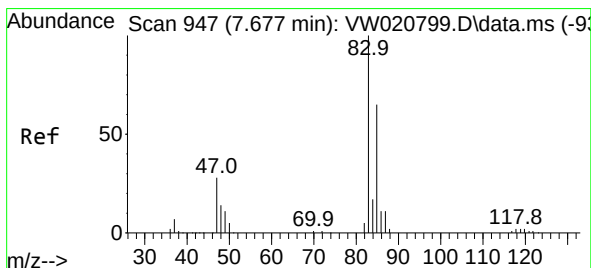
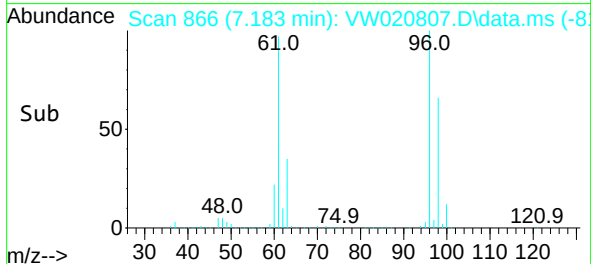
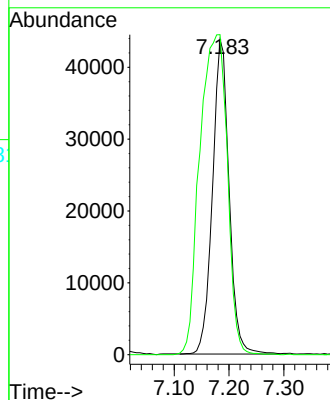
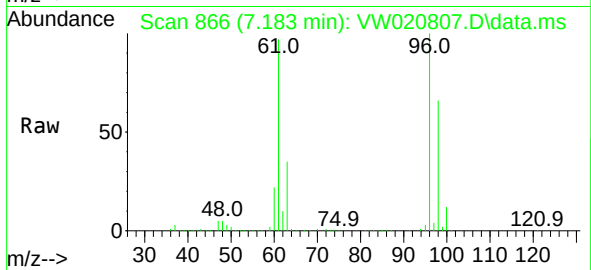




#22
2-Butanone
Concen: 158.140 ug/L
RT: 7.183 min Scan# 864
Delta R.T. 0.012 min
Lab File: VW020807.D
Acq: 08 Nov 2021 13:42

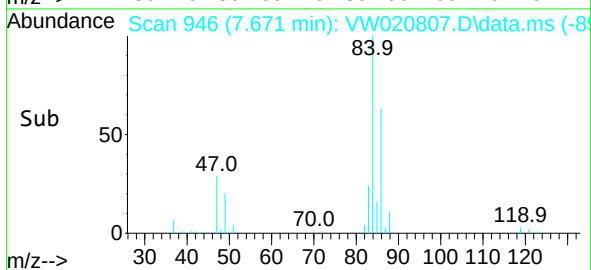
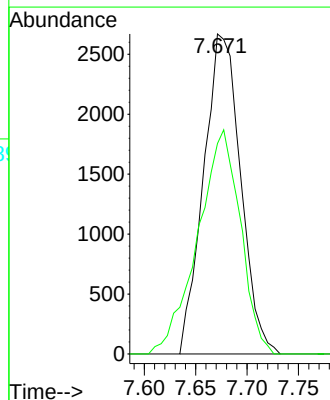
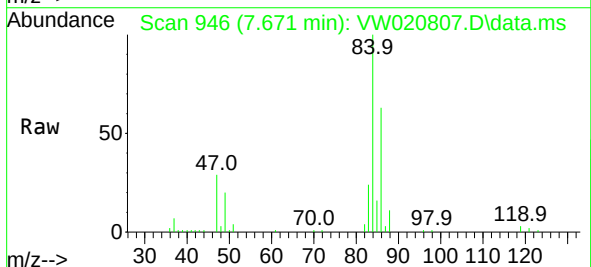
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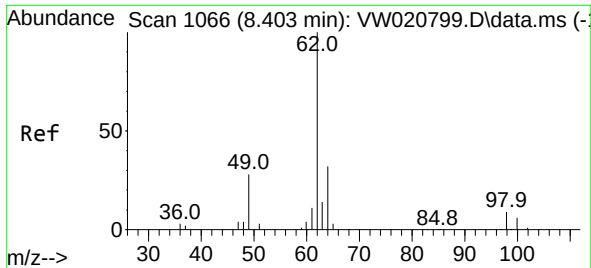
Tgt Ion: 43 Resp: 91733
Ion Ratio Lower Upper
43 100
72 168.2 11.8 35.4#



#25
Chloroform
Concen: 1.814 ug/L
RT: 7.671 min Scan# 946
Delta R.T. -0.006 min
Lab File: VW020807.D
Acq: 08 Nov 2021 13:42

Tgt Ion: 83 Resp: 6683
Ion Ratio Lower Upper
83 100
85 65.7 45.1 83.7





#27

1,2-Dichloroethane

Concen: 13.805 ug/L

RT: 8.397 min Scan# 1065

Delta R.T. -0.006 min

Lab File: VW020807.D

Acq: 08 Nov 2021 13:42

Instrument :

MSVOA_W

ClientSampleId :

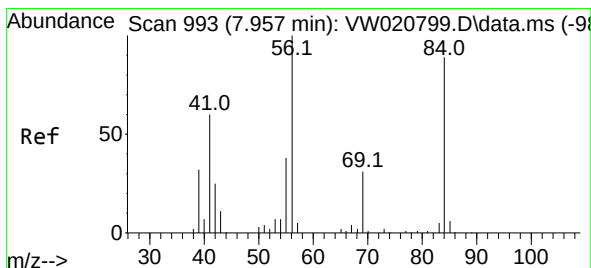
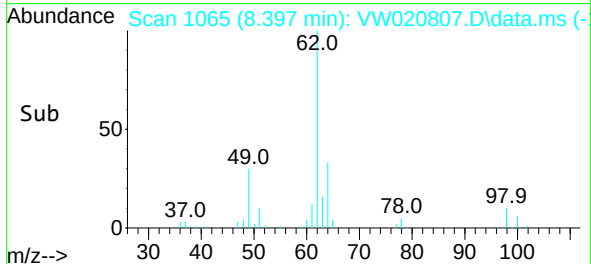
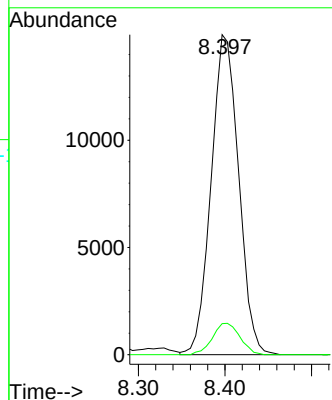
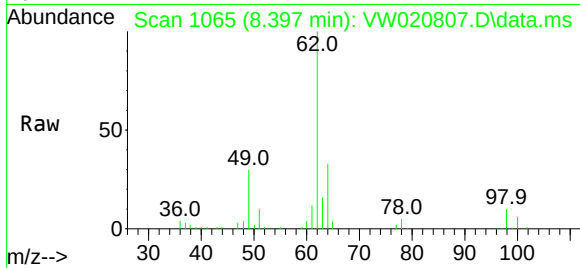
GB7K4

Tgt Ion: 62 Resp: 32919

Ion Ratio Lower Upper

62 100

98 9.7 6.5 9.7



#29

Cyclohexane

Concen: 4.054 ug/L

RT: 7.958 min Scan# 993

Delta R.T. 0.000 min

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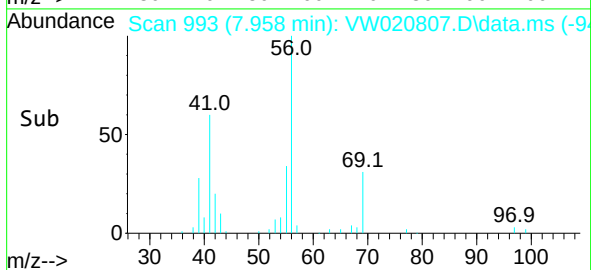
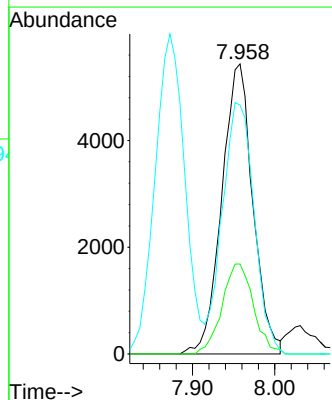
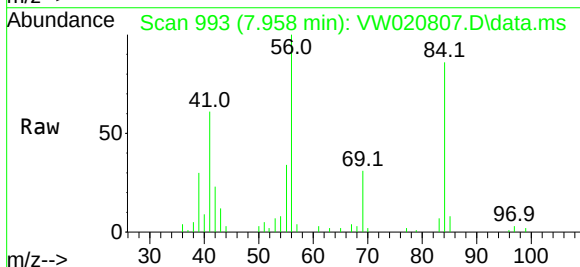
Tgt Ion: 56 Resp: 14288

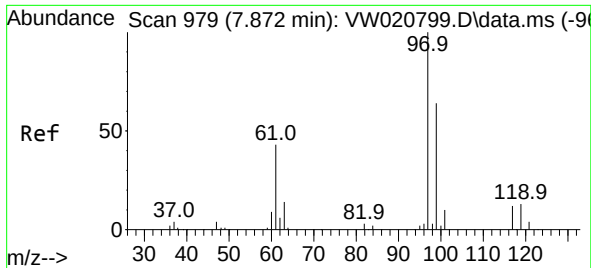
Ion Ratio Lower Upper

56 100

69 31.3 23.5 35.3

84 88.3 63.4 95.2

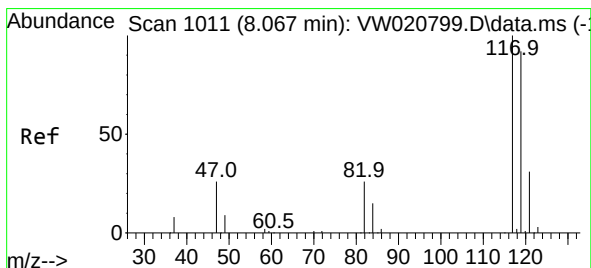
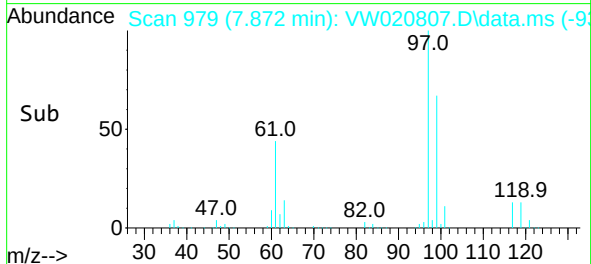
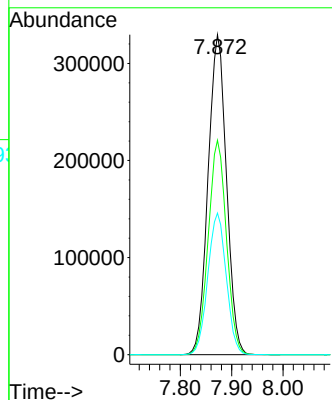
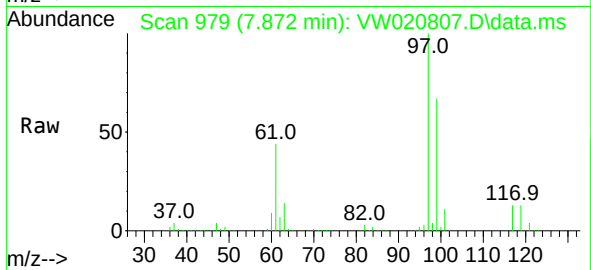




#30
1,1,1-Trichloroethane
Concen: 254.661 ug/L
RT: 7.872 min Scan# 91
Delta R.T. 0.000 min
Lab File: VW020807.D
Acq: 08 Nov 2021 13:42

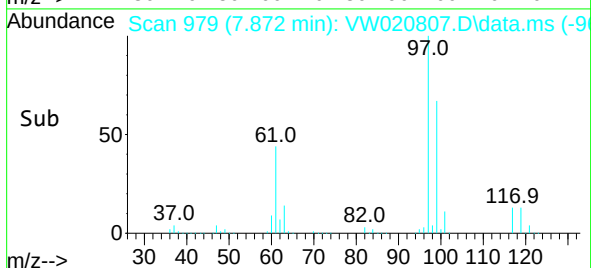
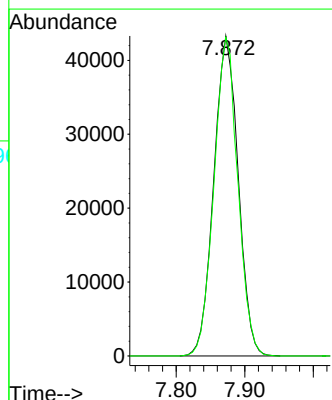
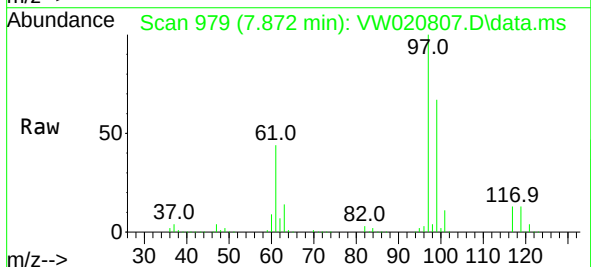
Instrument :
MSVOA_W
ClientSampleId :
GB7K4

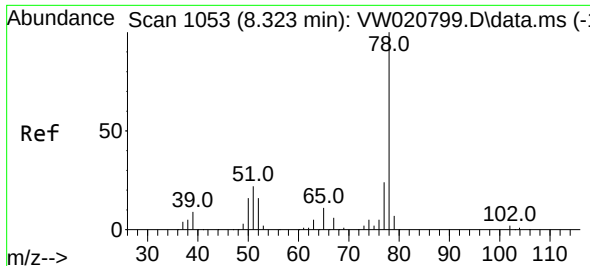
Tgt Ion: 97 Resp: 817478
Ion Ratio Lower Upper
97 100
99 66.4 51.6 77.4
61 44.3 40.9 61.3



#31
Carbon tetrachloride
Concen: 34.989 ug/L
RT: 7.872 min Scan# 979
Delta R.T. -0.195 min
Lab File: VW020807.D
Acq: 08 Nov 2021 13:42

Tgt Ion: 117 Resp: 106881
Ion Ratio Lower Upper
117 100
119 97.3 75.7 113.5

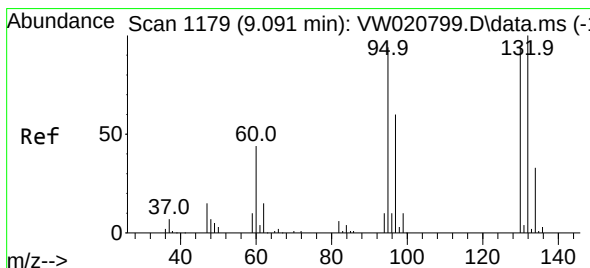
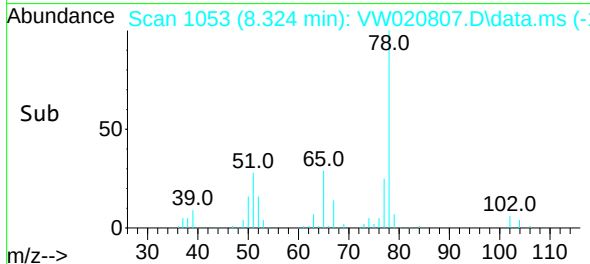
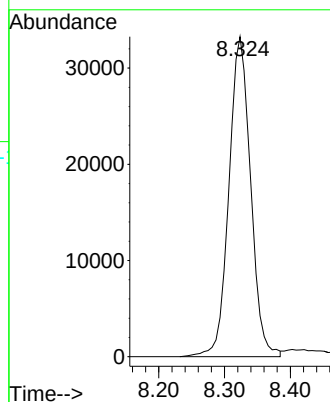
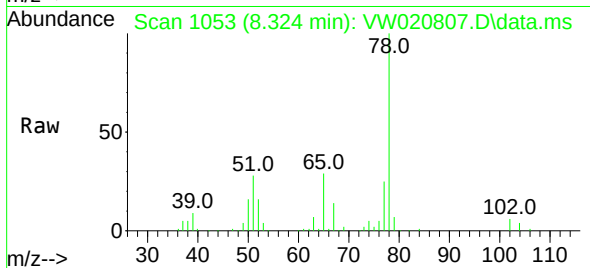




#33
Benzene
Concen: 9.437 ug/L
RT: 8.324 min Scan# 1053
Delta R.T. 0.000 min
Lab File: VW020807.D
Acq: 08 Nov 2021 13:42

Instrument :
MSVOA_W
ClientSampleId :
GB7K4

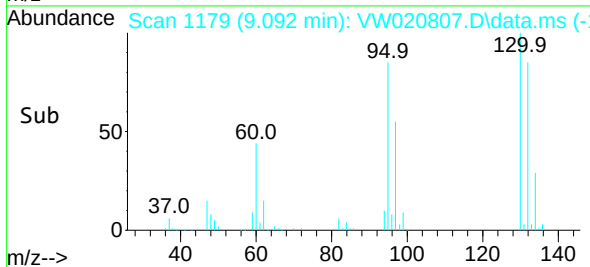
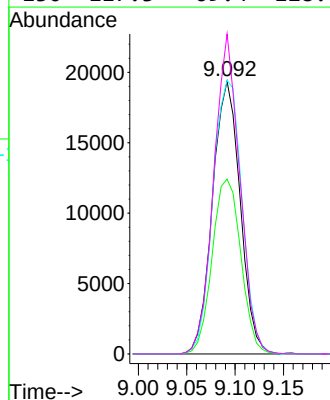
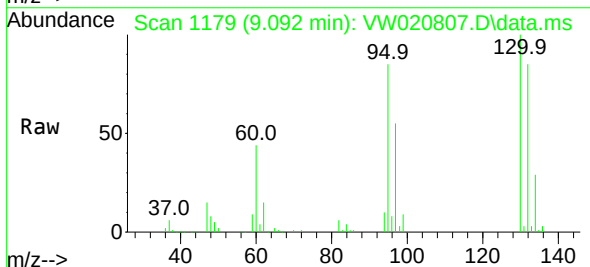
Tgt Ion: 78 Resp: 76344

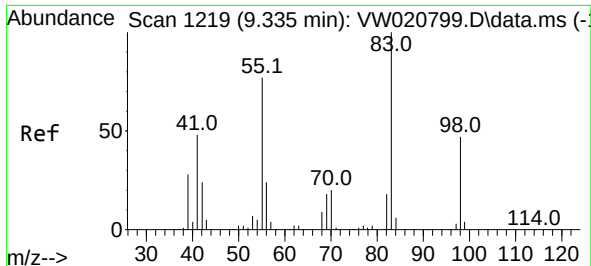


#34
Trichloroethene
Concen: 17.907 ug/L
RT: 9.092 min Scan# 1179
Delta R.T. 0.000 min
Lab File: VW020807.D
Acq: 08 Nov 2021 13:42

Tgt Ion: 95 Resp: 38561

Ion	Ratio	Lower	Upper
95	100		
97	64.1	47.0	87.2
132	100.3	65.5	121.6
130	117.3	69.4	128.8

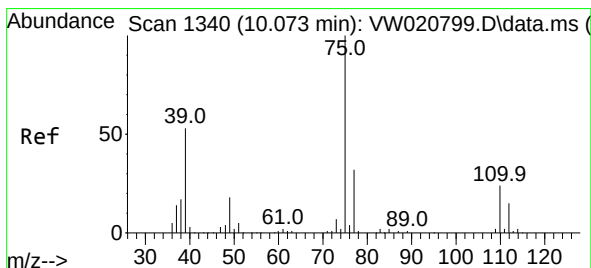
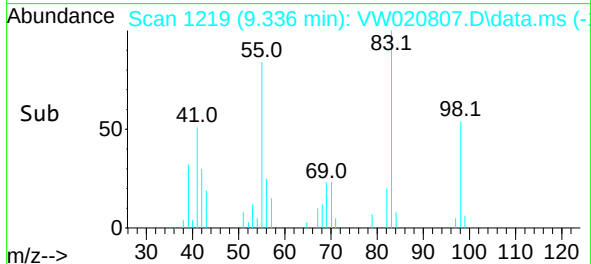
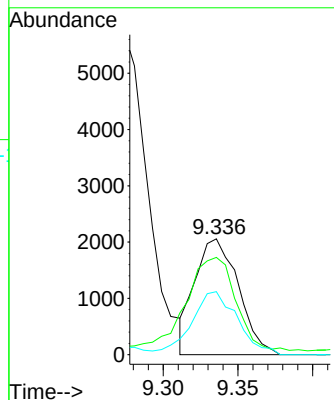
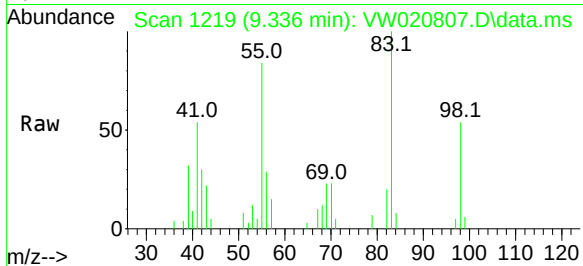




#35
Methylcyclohexane
Concen: 1.107 ug/L
RT: 9.336 min Scan# 1333
Delta R.T. 0.000 min
Lab File: VW020807.D
Acq: 08 Nov 2021 13:42

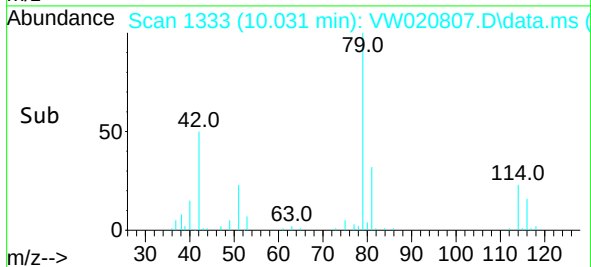
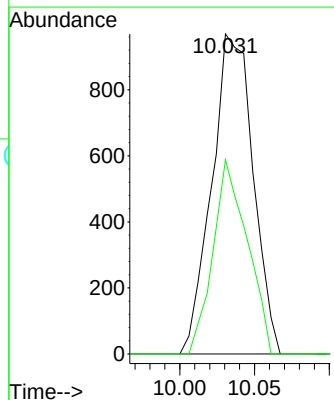
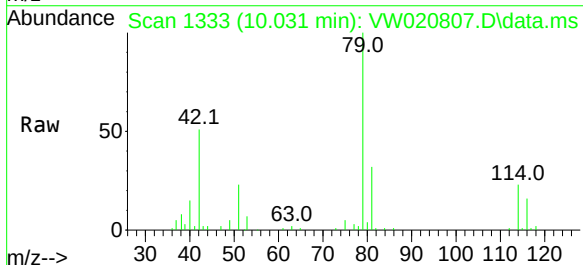
Instrument :
MSVOA_W
ClientSampleId :
GB7K4

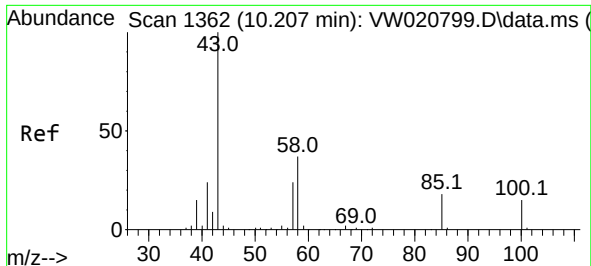
Tgt Ion: 83 Resp: 4160
Ion Ratio Lower Upper
83 100
55 109.6 70.8 106.2#
98 57.3 37.7 56.5#



#39
cis-1,3-Dichloropropene
Concen: 0.596 ug/L
RT: 10.031 min Scan# 1333
Delta R.T. -0.043 min
Lab File: VW020807.D
Acq: 08 Nov 2021 13:42

Tgt Ion: 75 Resp: 1858
Ion Ratio Lower Upper
75 100
77 60.7 21.8 40.6#

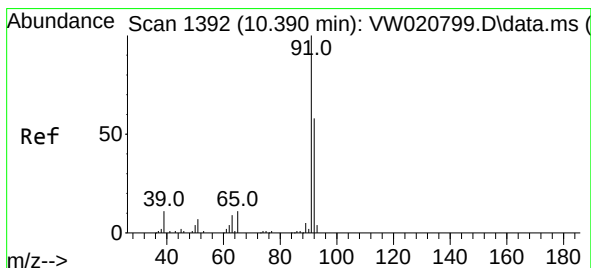
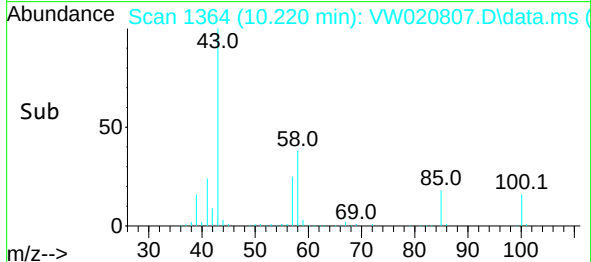
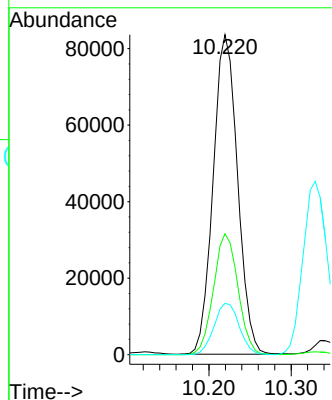
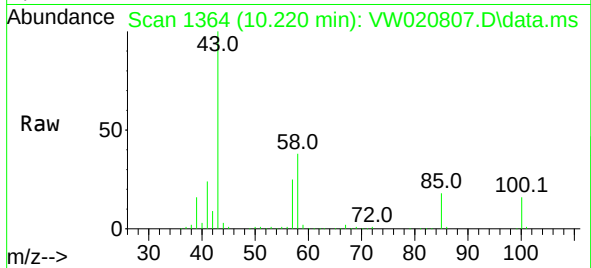




#40
4-Methyl-2-pentanone
Concen: 137.934 ug/L
RT: 10.220 min Scan# 11
Delta R.T. 0.012 min
Lab File: VW020807.D
Acq: 08 Nov 2021 13:42

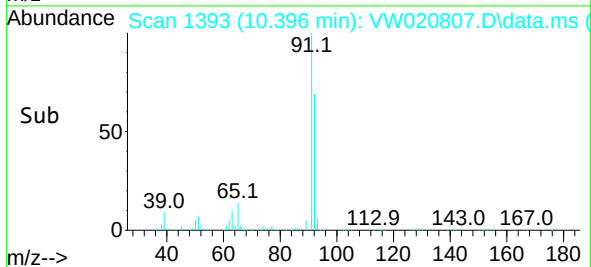
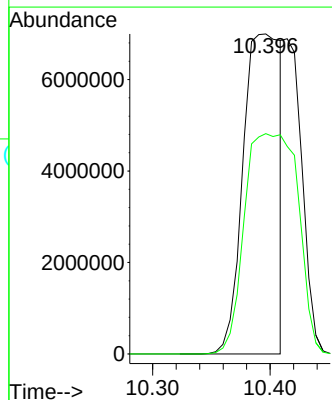
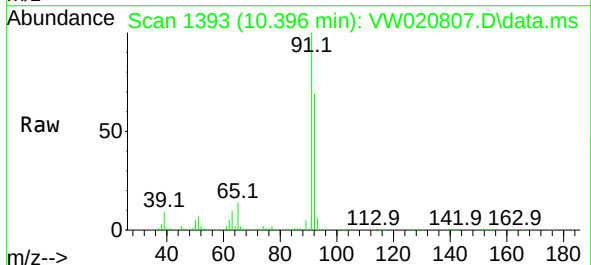
Instrument :
MSVOA_W
ClientSampleId :
GB7K4

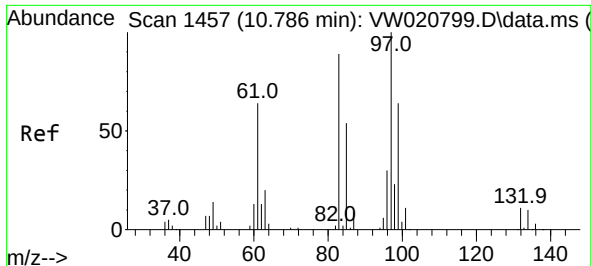
Tgt Ion: 43 Resp: 172667
Ion Ratio Lower Upper
43 100
58 37.8 28.8 43.2
100 16.6 10.0 15.0#



#42
Toluene
Concen: 1779.992 ug/L
RT: 10.396 min Scan# 1393
Delta R.T. 0.006 min
Lab File: VW020807.D
Acq: 08 Nov 2021 13:42

Tgt Ion: 91 Resp:15484816
Ion Ratio Lower Upper
91 100
92 68.8 41.7 77.5

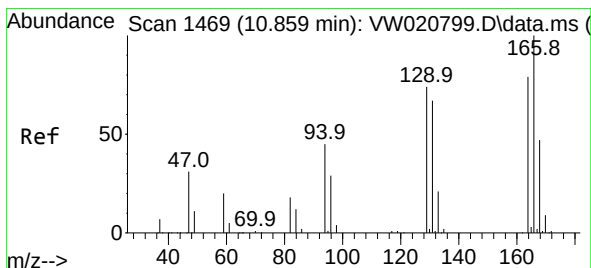
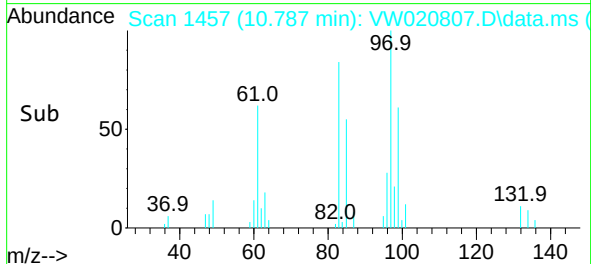
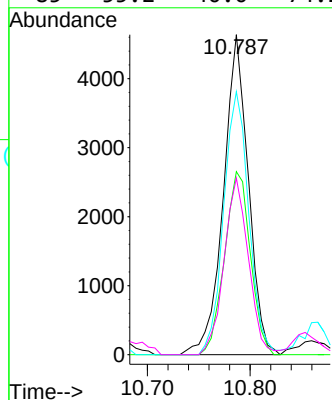
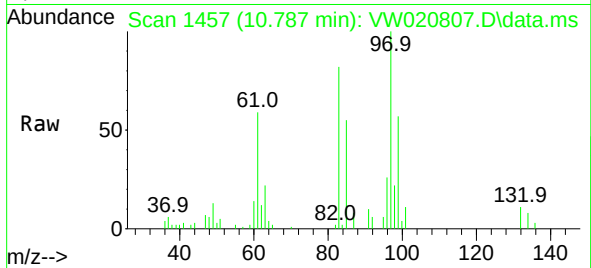




#45
1,1,2-Trichloroethane
Concen: 5.490 ug/L
RT: 10.787 min Scan# 1457
Delta R.T. 0.000 min
Lab File: VW020807.D
Acq: 08 Nov 2021 13:42

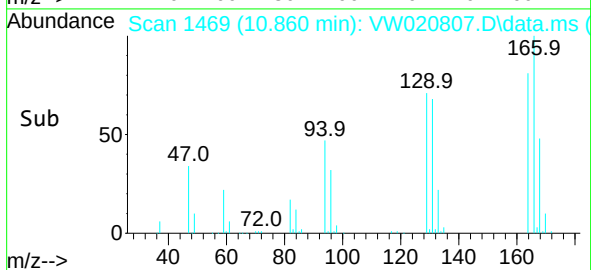
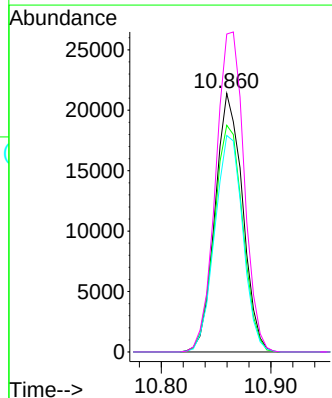
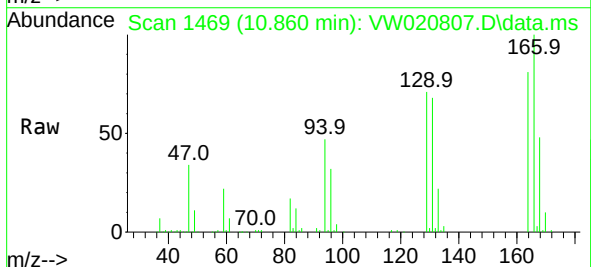
Instrument :
MSVOA_W
ClientSampleId :
GB7K4

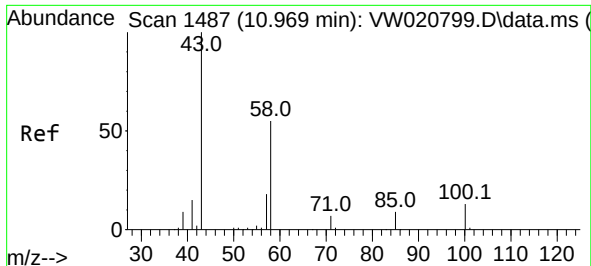
Tgt Ion:	97	Resp:	7804
Ion	Ratio	Lower	Upper
97	100		
99	57.2	43.0	79.8
83	82.2	62.6	116.3
85	55.2	40.0	74.2



#46
Tetrachloroethene
Concen: 19.300 ug/L
RT: 10.860 min Scan# 1469
Delta R.T. 0.000 min
Lab File: VW020807.D
Acq: 08 Nov 2021 13:42

Tgt Ion:	164	Resp:	37277
Ion	Ratio	Lower	Upper
164	100		
129	87.7	65.5	121.7
131	83.7	59.7	110.9
166	122.9	88.7	164.7

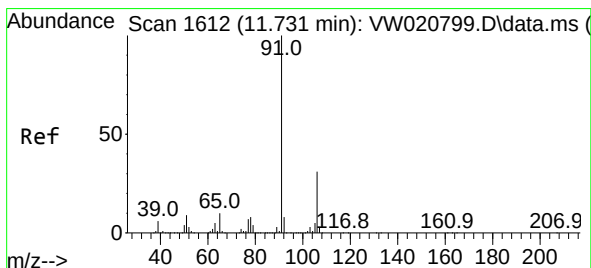
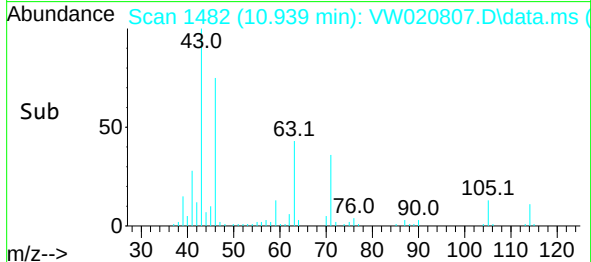
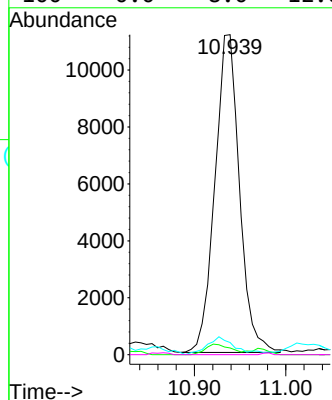
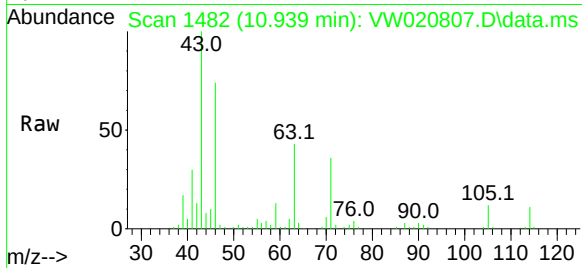




#48
2-Hexanone
Concen: 22.847 ug/L
RT: 10.939 min Scan# 1487
Delta R.T. -0.030 min
Lab File: VW020807.D
Acq: 08 Nov 2021 13:42

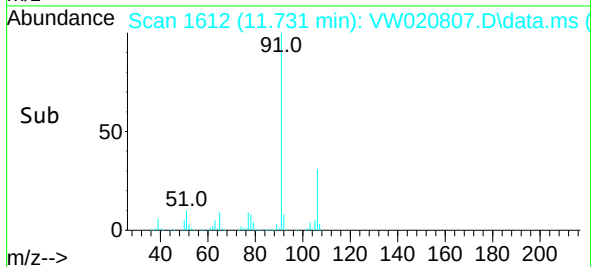
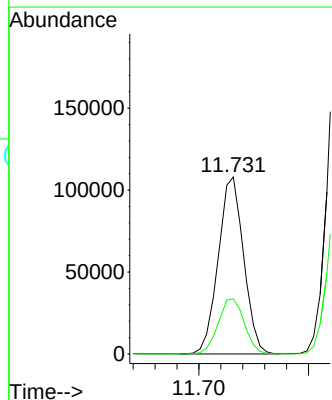
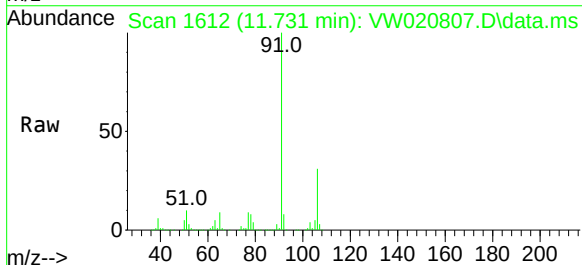
Instrument :
MSVOA_W
ClientSampleId :
GB7K4

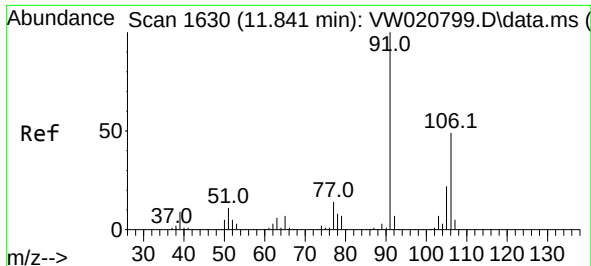
Tgt Ion: 43	Resp: 20884
Ion Ratio	Lower Upper
43 100	
58 3.4	40.2 60.2#
57 5.8	14.3 21.5#
100 0.0	8.0 12.0#



#52
Ethylbenzene
Concen: 17.846 ug/L
RT: 11.731 min Scan# 1612
Delta R.T. 0.000 min
Lab File: VW020807.D
Acq: 08 Nov 2021 13:42

Tgt Ion: 91	Resp: 173939
Ion Ratio	Lower Upper
91 100	
106 31.2	21.5 39.9

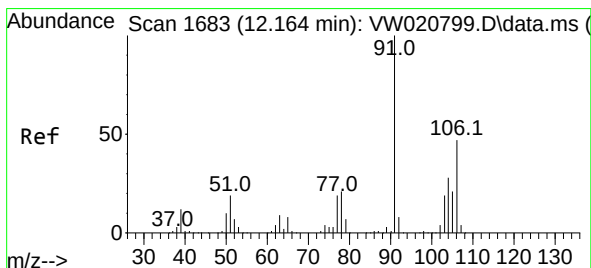
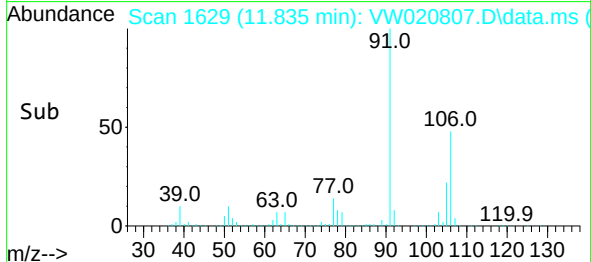
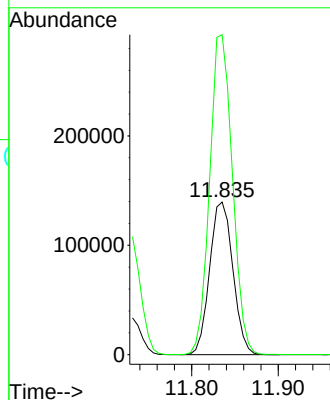
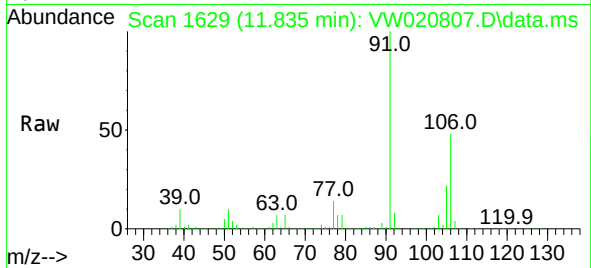




#53
m,p-Xylene
Concen: 66.676 ug/L
RT: 11.835 min Scan# 1629
Delta R.T. -0.006 min
Lab File: VW020807.D
Acq: 08 Nov 2021 13:42

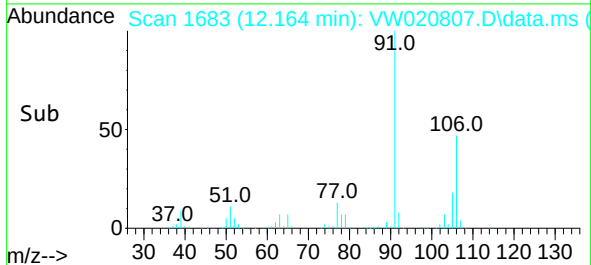
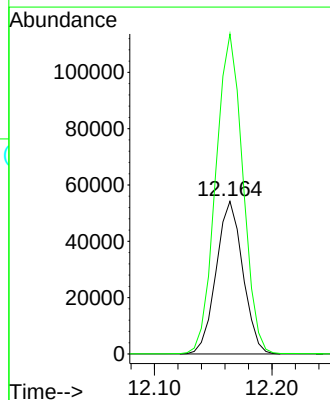
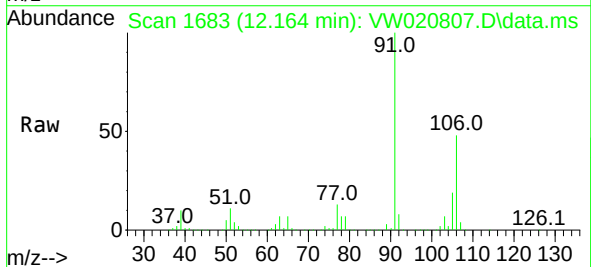
Instrument :
MSVOA_W
ClientSampleId :
GB7K4

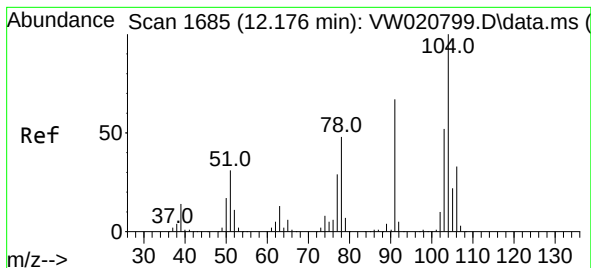
Tgt Ion:106 Resp: 260380
Ion Ratio Lower Upper
106 100
91 209.7 149.9 278.3



#54
o-Xylene
Concen: 23.132 ug/L
RT: 12.164 min Scan# 1683
Delta R.T. 0.000 min
Lab File: VW020807.D
Acq: 08 Nov 2021 13:42

Tgt Ion:106 Resp: 85572
Ion Ratio Lower Upper
106 100
91 209.5 153.6 285.3





#55

Styrene

Concen: 0.698 ug/L

RT: 12.164 min Scan# 1

Delta R.T. -0.018 min

Lab File: VW020807.D

Acq: 08 Nov 2021 13:42

Instrument :

MSVOA_W

ClientSampleId :

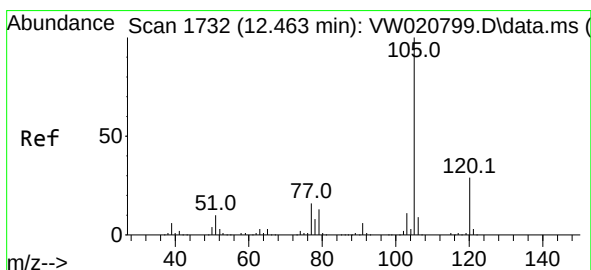
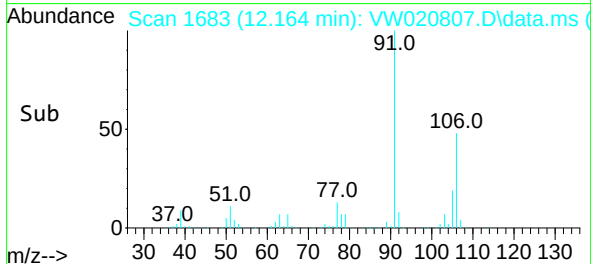
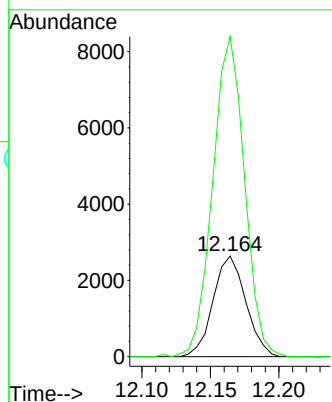
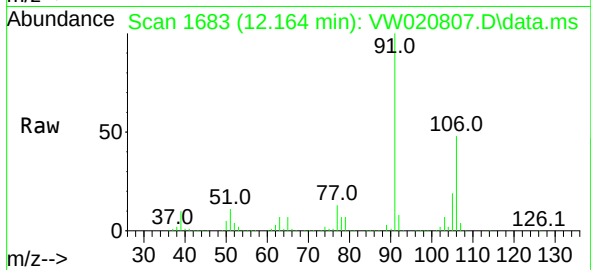
GB7K4

Tgt Ion:104 Resp: 4389

Ion Ratio Lower Upper

104 100

78 317.7 34.4 64.0#



#60

Isopropylbenzene

Concen: 0.561 ug/L

RT: 12.463 min Scan# 1732

Delta R.T. 0.000 min

Lab File: VW020807.D

Acq: 08 Nov 2021 13:42

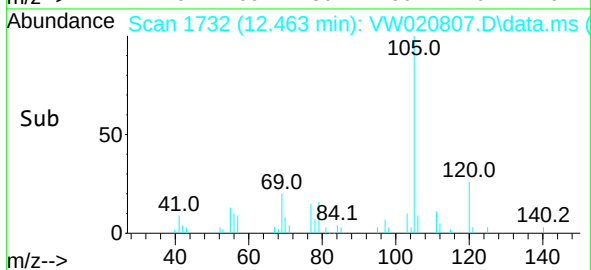
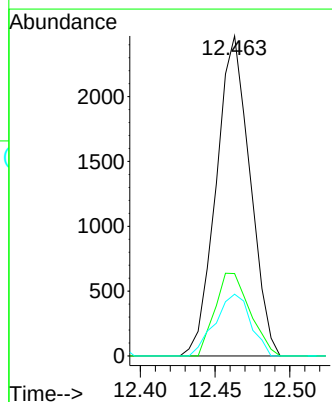
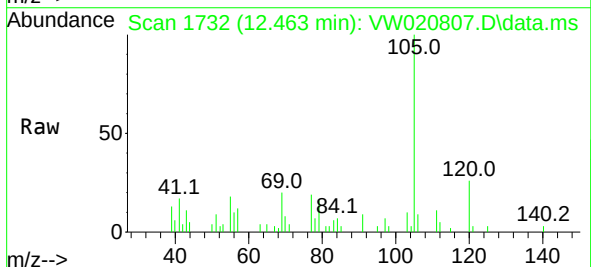
Tgt Ion:105 Resp: 3881

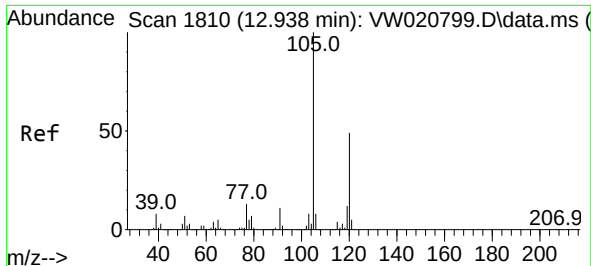
Ion Ratio Lower Upper

105 100

120 26.7 20.1 30.1

77 20.3 13.8 20.8





#62

1,3,5-Trimethylbenzene

Concen: 1.227 ug/L

RT: 12.939 min Scan# 1810

Delta R.T. -0.006 min

Lab File: VW020807.D

Acq: 08 Nov 2021 13:42

Instrument :

MSVOA_W

ClientSampleId :

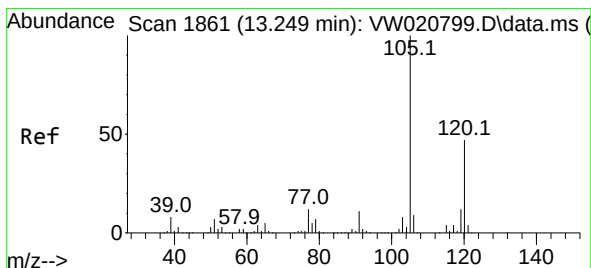
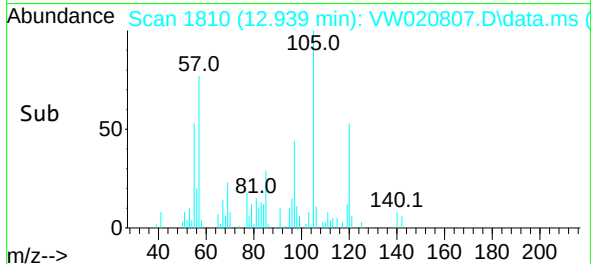
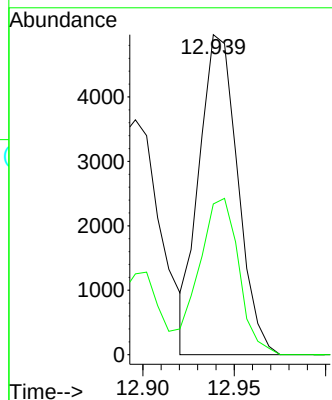
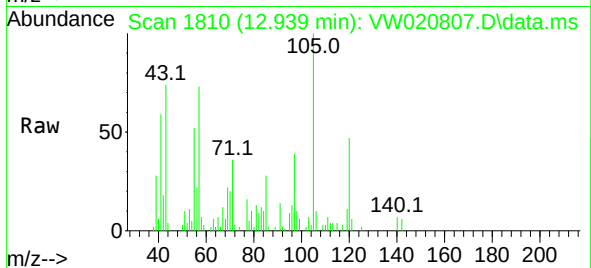
GB7K4

Tgt Ion:105 Resp: 7293

Ion Ratio Lower Upper

105 100

120 51.3 37.4 56.2



#63

1,2,4-Trimethylbenzene

Concen: 1.235 ug/L

RT: 12.939 min Scan# 1810

Delta R.T. -0.311 min

Lab File: VW020807.D

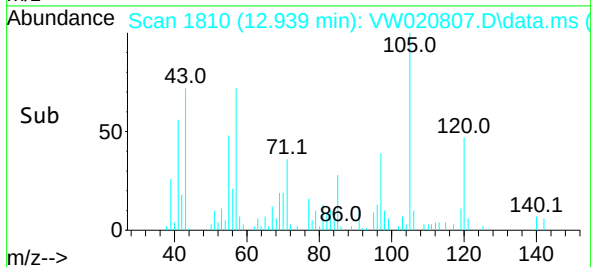
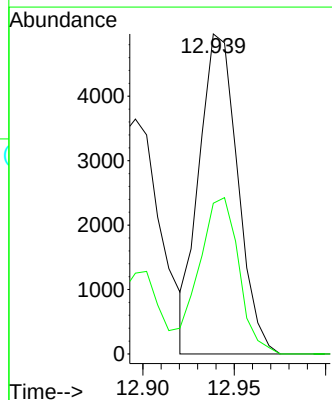
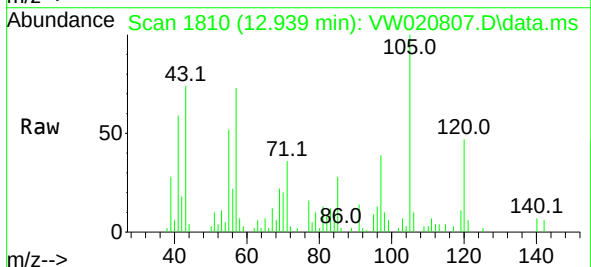
Acq: 08 Nov 2021 13:42

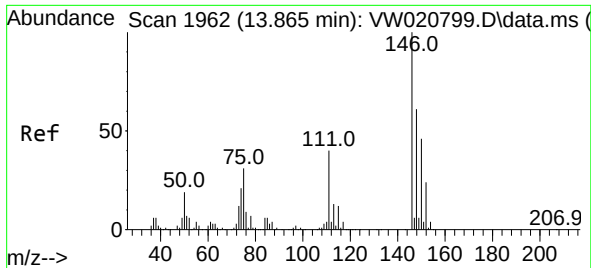
Tgt Ion:105 Resp: 7293

Ion Ratio Lower Upper

105 100

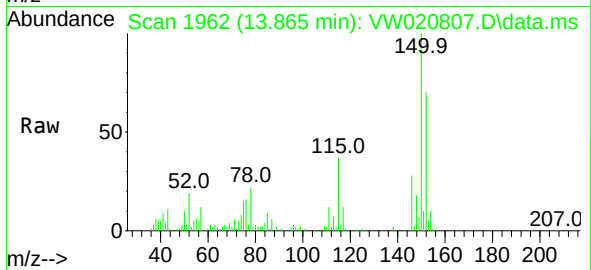
120 51.3 35.0 52.6





#67
 1,2-Dichlorobenzene
 Concen: 2.451 ug/L
 RT: 13.865 min Scan# 1962
 Delta R.T. -0.006 min
 Lab File: VW020807.D
 Acq: 08 Nov 2021 13:42

Instrument :
 MSVOA_W
 ClientSampleId :
 GB7K4



Tgt Ion:	146	Resp:	6943
Ion Ratio	Lower	Upper	
146	100		
111	44.0	33.1	49.7
148	63.7	47.4	71.2

