

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW120221\
 Data File : VW021021.D
 Acq On : 02 Dec 2021 03:52
 Operator : SY/VA
 Sample : M4881-09
 Misc : 4.46g/10.0mL/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Dec 02 07:30:29 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM111521SMA.M
 Quant Title : SFAM01.0
 QLast Update : Thu Dec 02 07:10:34 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.842	114	43878	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.634	117	17048	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.554	152	2214	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.349	65	16806	33.020	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	= 132.080%	
7) Chloroethane-d5	2.885	69	12430	37.867	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	= 151.480%#	
11) 1,1-Dichloroethene-d2	4.013	63	16613	16.870	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	= 67.480%	
21) 2-Butanone-d5	7.098	46	10506	82.700	ug/L	0.02
Spiked Amount	50.000	Range	20 - 135	Recovery	= 165.400%#	
24) Chloroform-d	7.653	84	37563	33.976	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	= 135.920%	
26) 1,2-Dichloroethane-d4	8.305	65	19547	34.832	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	= 139.320%#	
32) Benzene-d6	8.275	84	55832	62.138	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	= 248.560%#	
36) 1,2-Dichloropropane-d6	9.275	67	19729	77.108	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	= 308.440%#	
41) Toluene-d8	10.323	98	29630	33.225	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	= 132.880%#	
43) trans-1,3-Dichloroprop...	10.579	79	3322	27.469	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	= 109.880%	
47) 2-Hexanone-d5	10.927	63	6091	143.537	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	= 287.080%#	
56) 1,1,2,2-Tetrachloroeth...	12.695	84	11453	58.433	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	= 233.720%#	
66) 1,2-Dichlorobenzene-d4	13.853	152	1991	25.231	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	= 100.920%	
Target Compounds						
					Qvalue	
13) Acetone	4.166	43	579	5.105	ug/L	98
16) Methylene chloride	4.916	84	4671	7.633	ug/L	92
22) 2-Butanone	7.159	43	1472	9.552	ug/L #	52
27) 1,2-Dichloroethane	8.409	62	3390	5.217	ug/L #	92
29) Cyclohexane	7.964	56	266	0.700	ug/L #	50
33) Benzene	8.323	78	1323	1.371	ug/L	100
34) Trichloroethene	8.836	95	1410	5.222	ug/L #	5
35) Methylcyclohexane	9.335	83	1203	2.703	ug/L	92
37) 1,2-Dichloropropane	9.275	63	2576	11.467	ug/L #	88
39) cis-1,3-Dichloropropene	10.037	75	445	1.200	ug/L #	34
42) Toluene	10.384	91	3745	3.449	ug/L	98
45) 1,1,2-Trichloroethane	10.762	97	751	4.298	ug/L #	14
48) 2-Hexanone	10.927	43	885	9.555	ug/L #	58
52) Ethylbenzene	11.725	91	4519	3.756	ug/L	99
53) m,p-Xylene	11.835	106	7208	14.675	ug/L	88
54) o-Xylene	12.164	106	2665	5.649	ug/L	93
60) Isopropylbenzene	12.457	105	261	0.866	ug/L #	60
61) 1,2,3-Trichloropropane	12.932	75	158	4.865	ug/L #	40
62) 1,3,5-Trimethylbenzene	13.249	105	1135	4.462	ug/L	97

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Quant Title : SFAM01.0
QLast Update : Thu Dec 02 07:10:34 2021
Response via : Initial Calibration

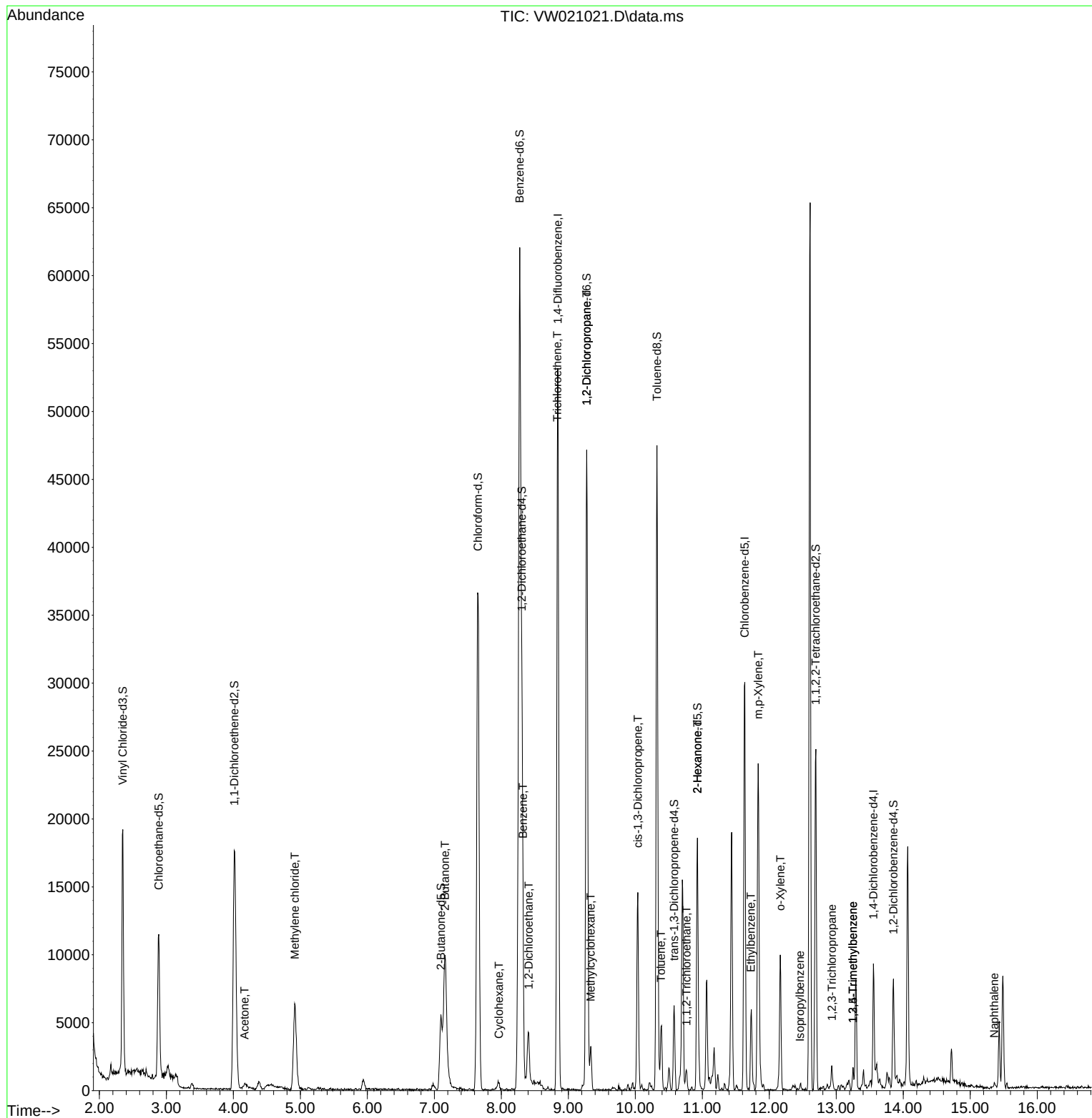
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
63) 1,2,4-Trimethylbenzene	13.249	105	1135	4.522	ug/L	99
71) Naphthalene	15.359	128	521	3.490	ug/L #	69

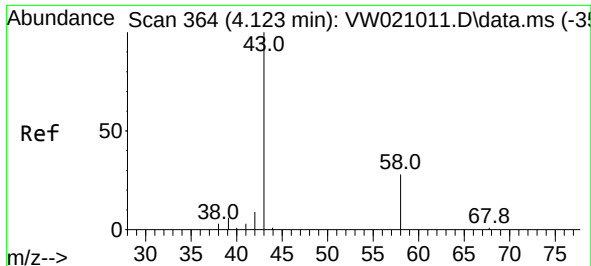
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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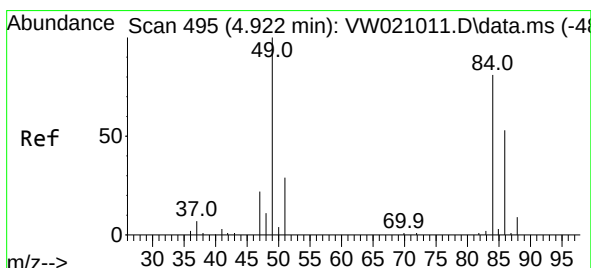
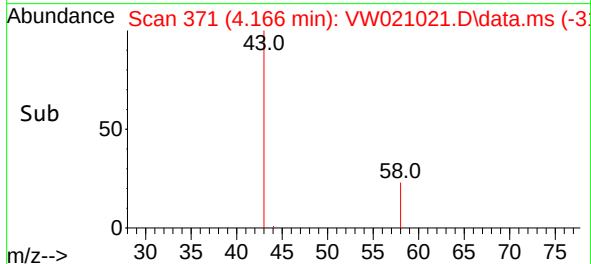
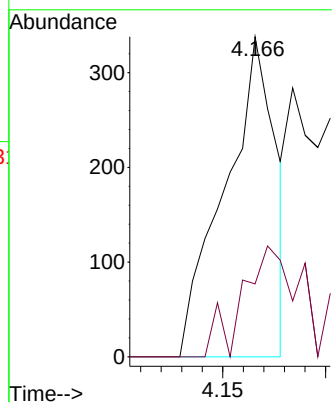
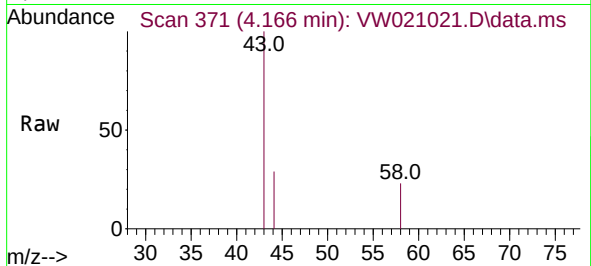




#13
Acetone
Concen: 5.105 ug/L
RT: 4.166 min Scan# 31
Delta R.T. 0.043 min
Lab File: VW021021.D
Acq: 02 Dec 2021 03:52

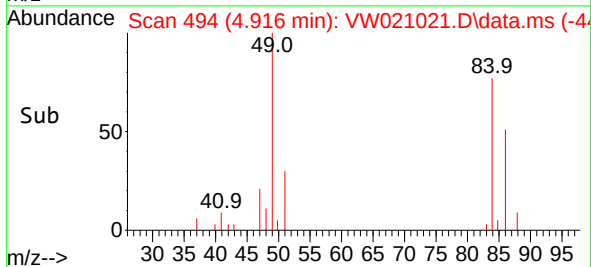
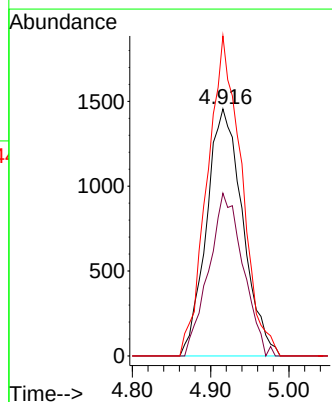
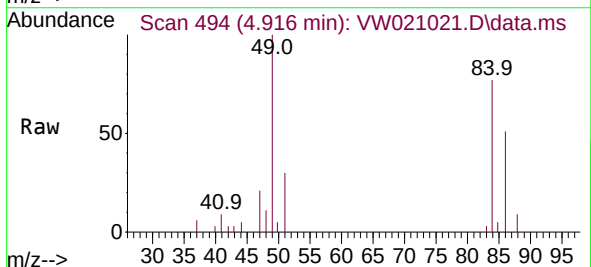
Instrument :
MSVOA_W
ClientSampleId :

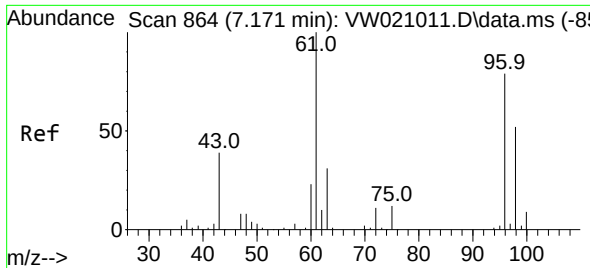
Tgt Ion: 43 Resp: 579
Ion Ratio Lower Upper
43 100
58 27.5 0.0 52.8



#16
Methylene chloride
Concen: 7.633 ug/L
RT: 4.916 min Scan# 494
Delta R.T. -0.006 min
Lab File: VW021021.D
Acq: 02 Dec 2021 03:52

Tgt Ion: 84 Resp: 4671
Ion Ratio Lower Upper
84 100
86 65.9 45.5 84.5
49 129.5 100.5 186.7

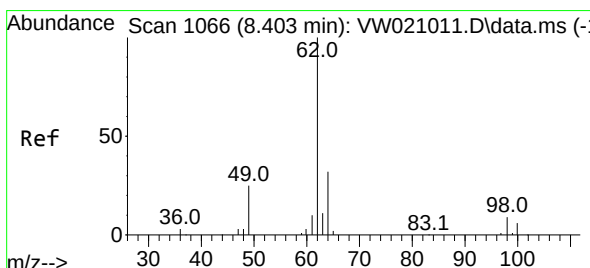
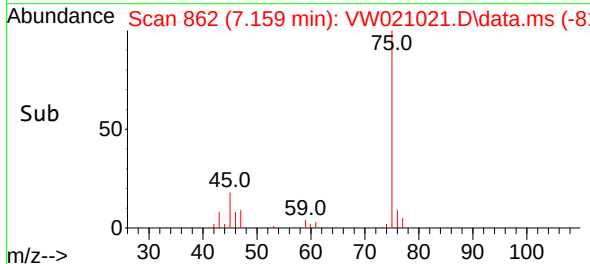
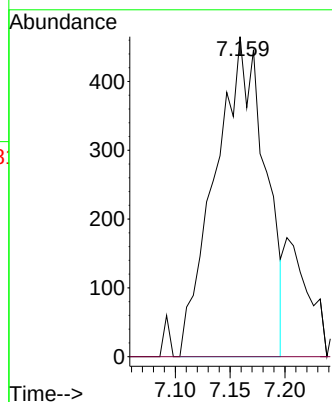
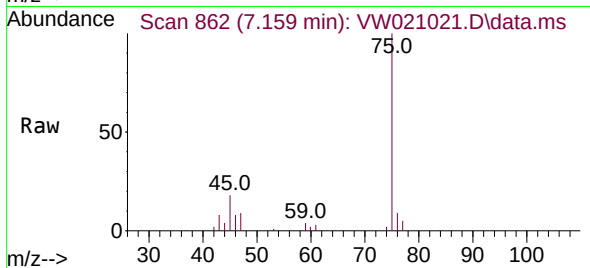




#22
2-Butanone
Concen: 9.552 ug/L
RT: 7.159 min Scan# 862
Delta R.T. -0.012 min
Lab File: VW021021.D
Acq: 02 Dec 2021 03:52

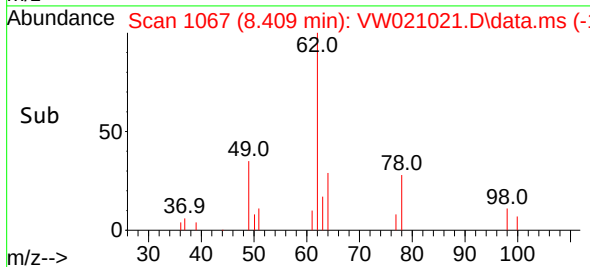
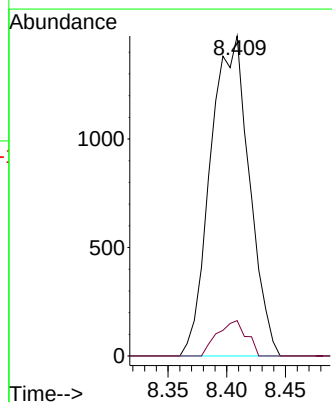
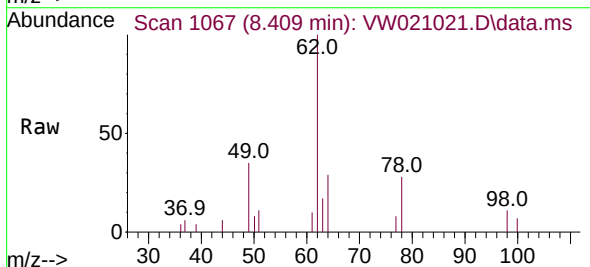
Instrument :
MSVOA_W
ClientSampleId :

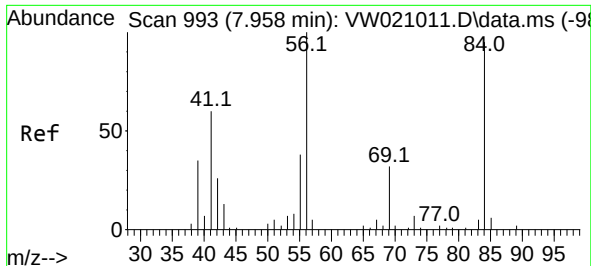
Tgt Ion: 43 Resp: 1472
Ion Ratio Lower Upper
43 100
72 0.0 11.8 35.4#



#27
1,2-Dichloroethane
Concen: 5.217 ug/L
RT: 8.409 min Scan# 1067
Delta R.T. 0.006 min
Lab File: VW021021.D
Acq: 02 Dec 2021 03:52

Tgt Ion: 62 Resp: 3390
Ion Ratio Lower Upper
62 100
98 11.1 6.5 9.7#





#29

Cyclohexane

Concen: 0.700 ug/L

RT: 7.964 min Scan# 994

Delta R.T. 0.006 min

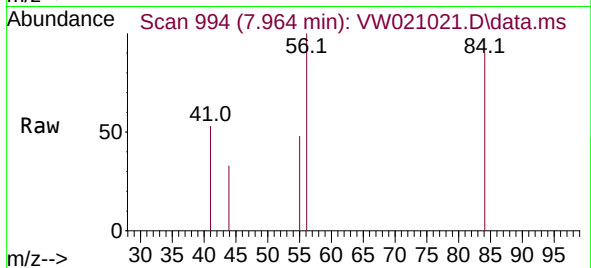
Lab File: VW021021.D

Acq: 02 Dec 2021 03:52

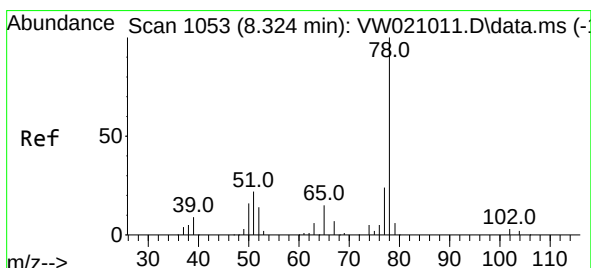
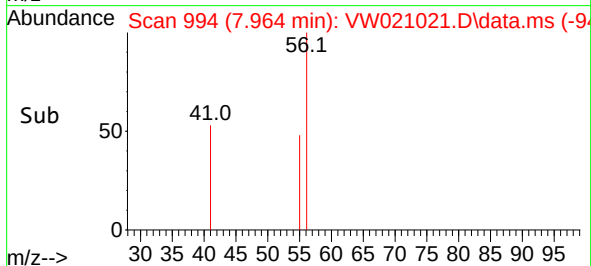
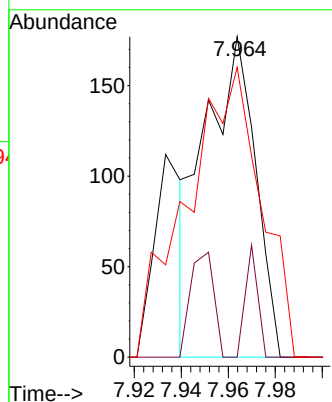
Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion:	56	Resp:	266
Ion	Ratio	Lower	Upper
56	100		
69	15.0	23.5	35.3#
84	131.2	63.4	95.2#



#33

Benzene

Concen: 1.371 ug/L

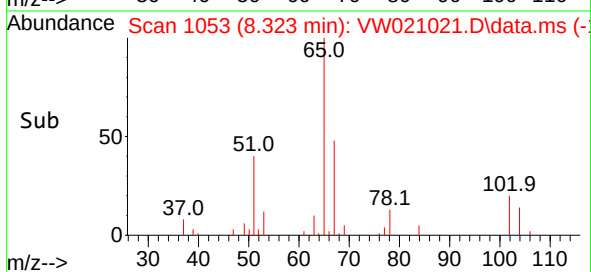
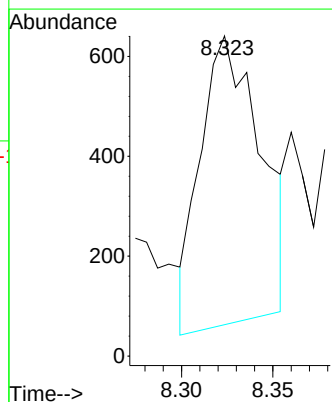
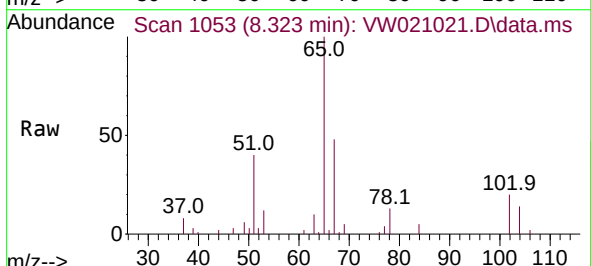
RT: 8.323 min Scan# 1053

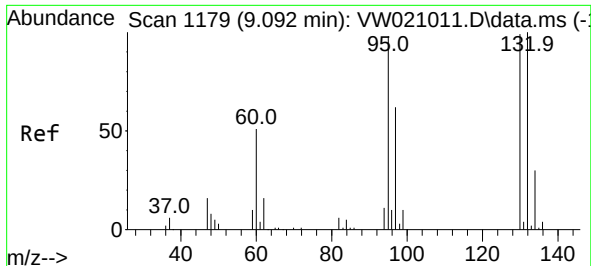
Delta R.T. -0.000 min

Lab File: VW021021.D

Acq: 02 Dec 2021 03:52

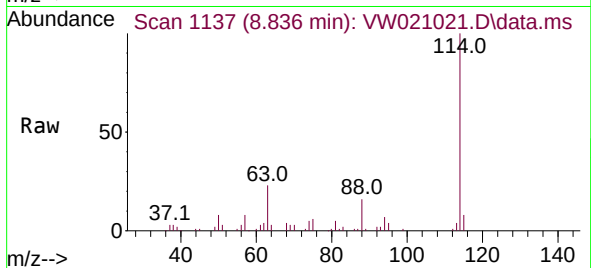
Tgt Ion: 78 Resp: 1323





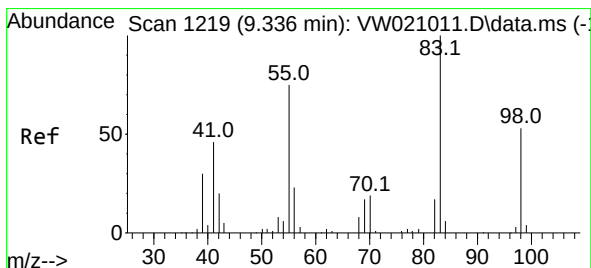
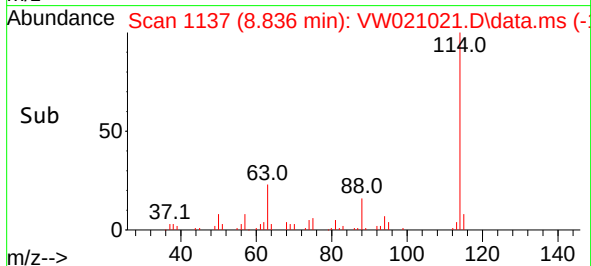
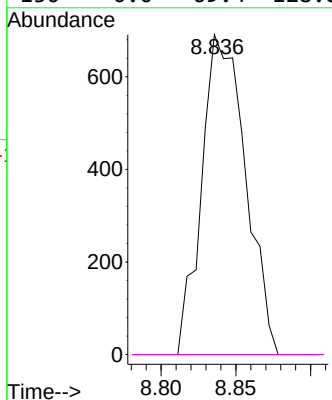
#34
Trichloroethene
Concen: 5.222 ug/L
RT: 8.836 min Scan# 1179
Delta R.T. -0.256 min
Lab File: VW021021.D
Acq: 02 Dec 2021 03:52

Instrument :
MSVOA_W
ClientSampleId :



Tgt Ion: 95 Resp: 1410

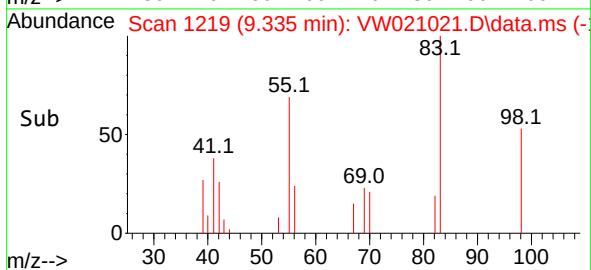
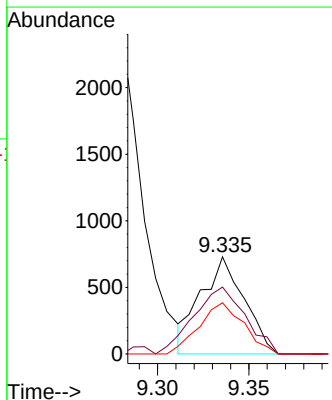
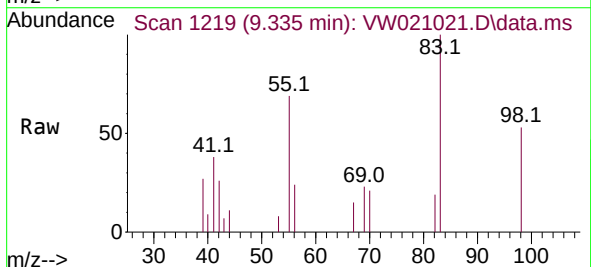
Ion	Ratio	Lower	Upper
95	100		
97	0.0	47.0	87.2#
132	0.0	65.5	121.6#
130	0.0	69.4	128.8#

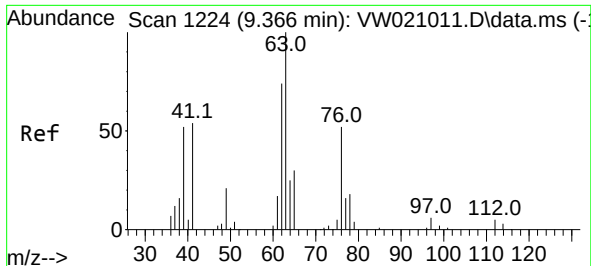


#35
Methylcyclohexane
Concen: 2.703 ug/L
RT: 9.335 min Scan# 1219
Delta R.T. -0.000 min
Lab File: VW021021.D
Acq: 02 Dec 2021 03:52

Tgt Ion: 83 Resp: 1203

Ion	Ratio	Lower	Upper
83	100		
55	82.0	70.8	106.2
98	54.3	37.7	56.5





#37

1,2-Dichloropropane

Concen: 11.467 ug/L

RT: 9.275 min Scan# 11

Delta R.T. -0.091 min

Lab File: VW021021.D

Acq: 02 Dec 2021 03:52

Instrument :

MSVOA_W

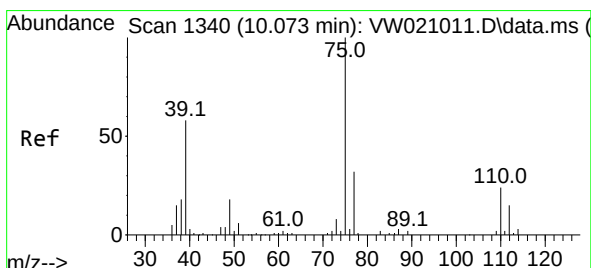
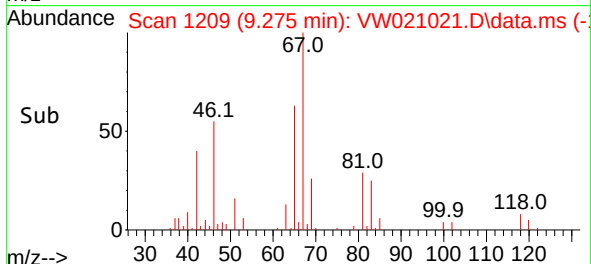
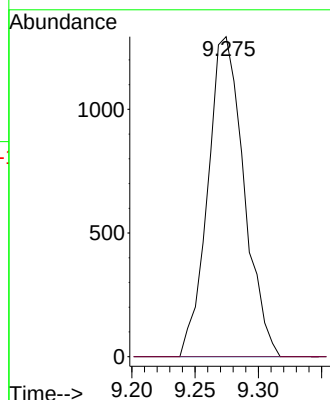
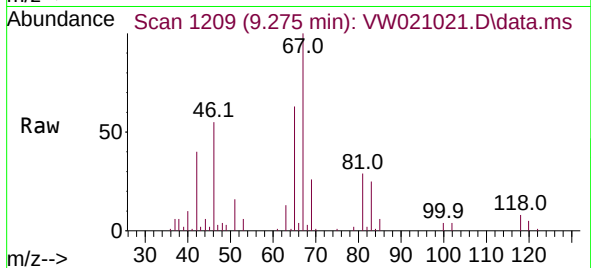
ClientSampleId :

Tgt Ion: 63 Resp: 2576

Ion Ratio Lower Upper

63 100

112 0.0 3.2 4.8#



#39

cis-1,3-Dichloropropene

Concen: 1.200 ug/L

RT: 10.037 min Scan# 1334

Delta R.T. -0.037 min

Lab File: VW021021.D

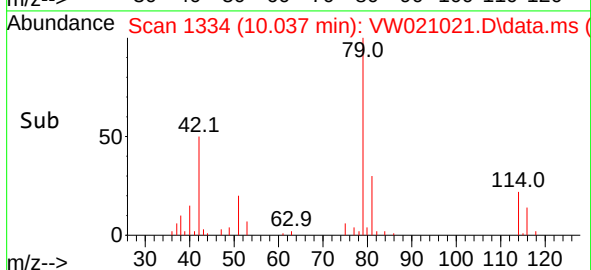
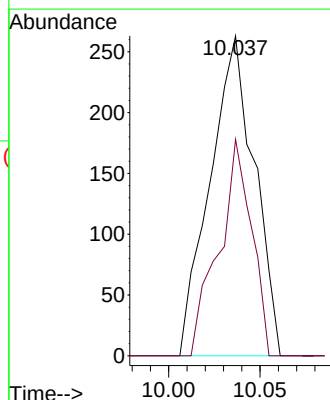
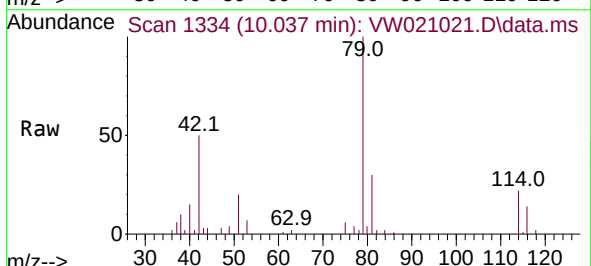
Acq: 02 Dec 2021 03:52

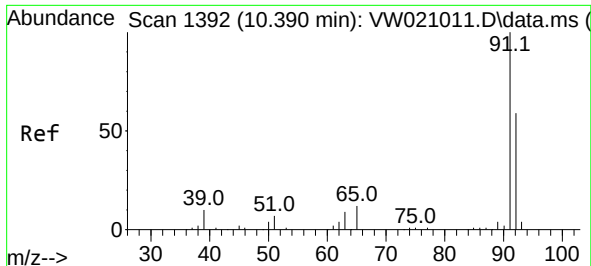
Tgt Ion: 75 Resp: 445

Ion Ratio Lower Upper

75 100

77 67.7 21.8 40.6#

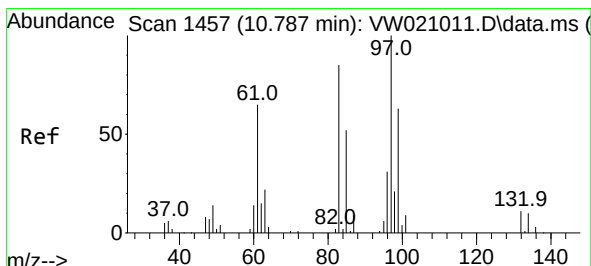
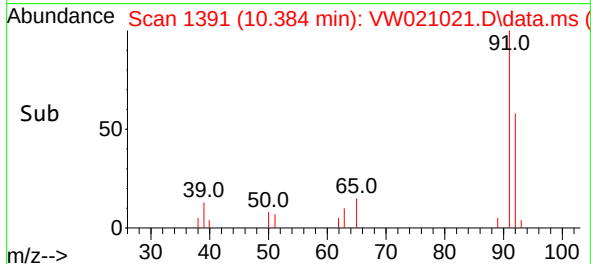
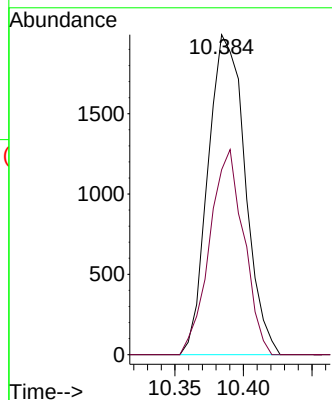
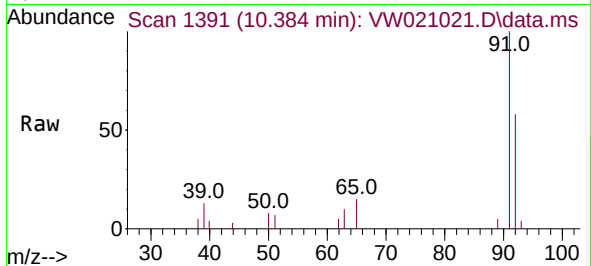




#42
Toluene
Concen: 3.449 ug/L
RT: 10.384 min Scan# 11
Delta R.T. -0.006 min
Lab File: VW021021.D
Acq: 02 Dec 2021 03:52

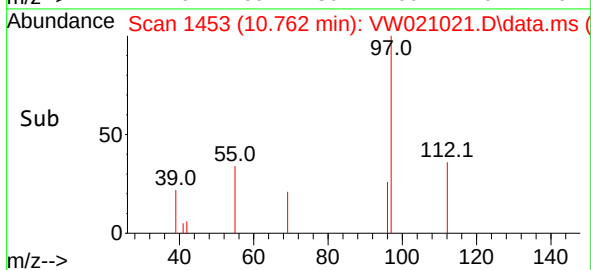
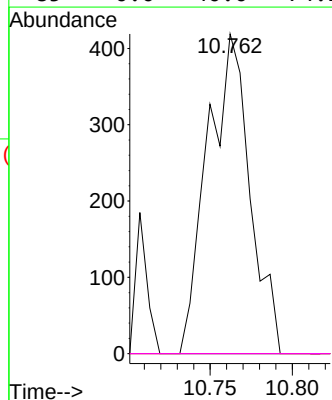
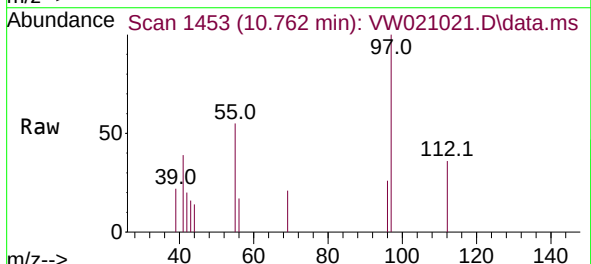
Instrument :
MSVOA_W
ClientSampleId :

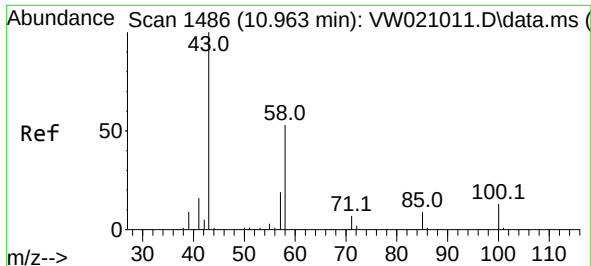
Tgt Ion: 91 Resp: 3745
Ion Ratio Lower Upper
91 100
92 57.8 41.7 77.5



#45
1,1,2-Trichloroethane
Concen: 4.298 ug/L
RT: 10.762 min Scan# 1453
Delta R.T. -0.024 min
Lab File: VW021021.D
Acq: 02 Dec 2021 03:52

Tgt Ion: 97 Resp: 751
Ion Ratio Lower Upper
97 100
99 0.0 43.0 79.8#
83 0.0 62.6 116.3#
85 0.0 40.0 74.2#





#48

2-Hexanone

Concen: 9.555 ug/L

RT: 10.927 min Scan# 1486

Delta R.T. -0.037 min

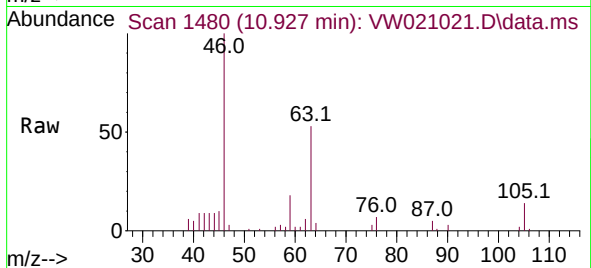
Lab File: VW021021.D

Acq: 02 Dec 2021 03:52

Instrument :

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ClientSampleId :



Tgt Ion: 43 Resp: 885

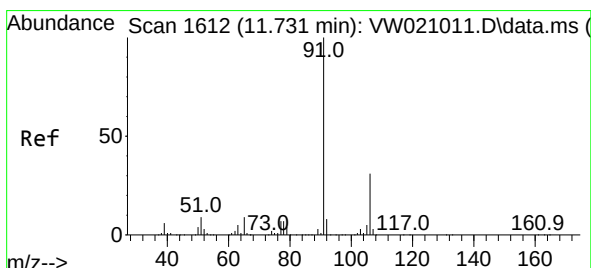
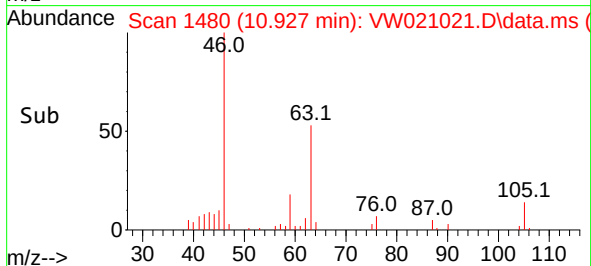
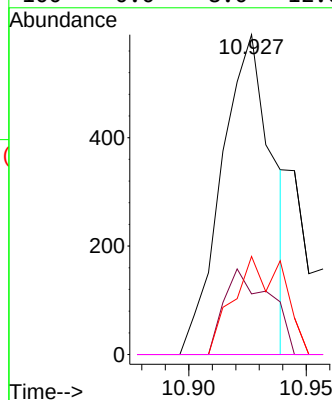
Ion Ratio Lower Upper

43 100

58 15.1 40.2 60.2#

57 30.1 14.3 21.5#

100 0.0 8.0 12.0#



#52

Ethylbenzene

Concen: 3.756 ug/L

RT: 11.725 min Scan# 1611

Delta R.T. -0.006 min

Lab File: VW021021.D

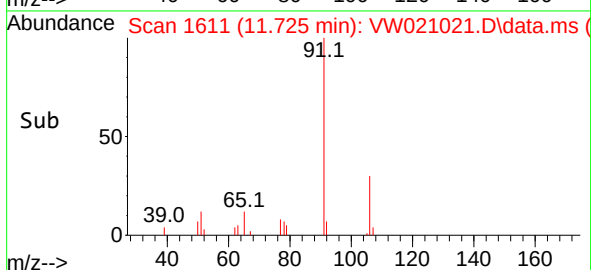
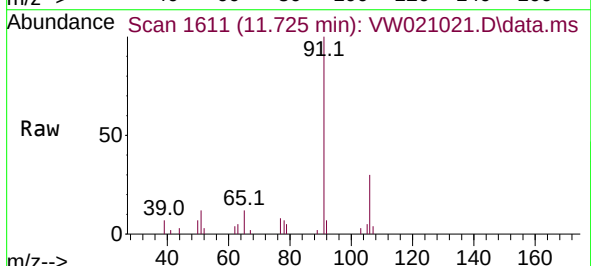
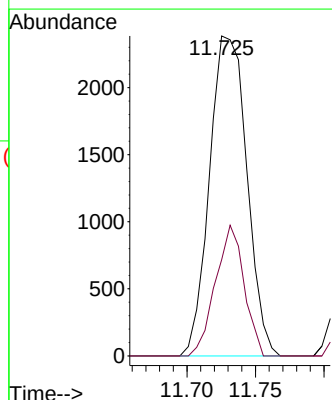
Acq: 02 Dec 2021 03:52

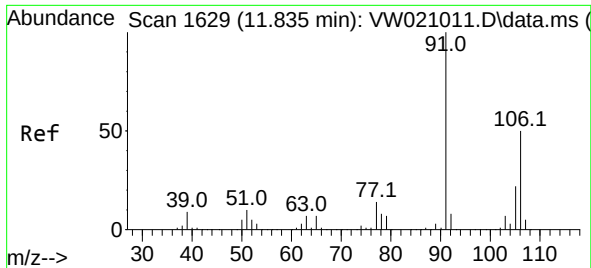
Tgt Ion: 91 Resp: 4519

Ion Ratio Lower Upper

91 100

106 30.0 21.5 39.9

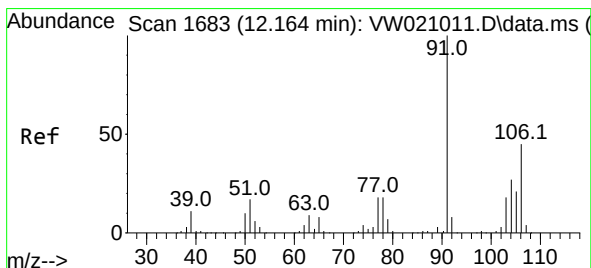
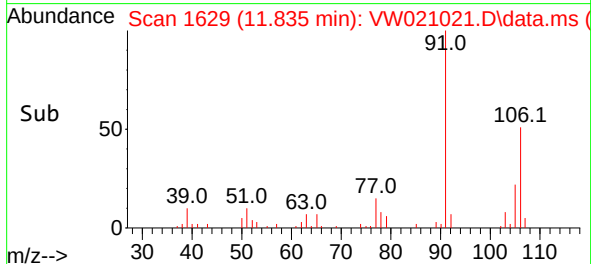
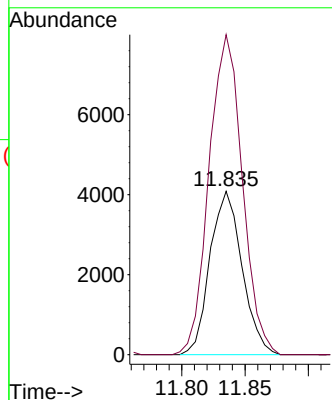
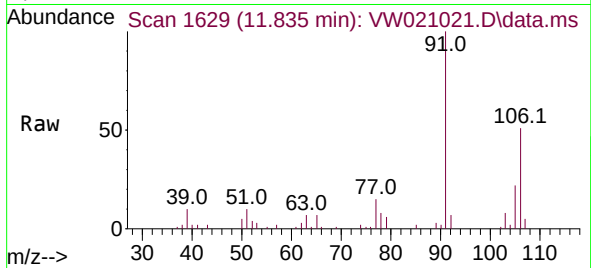




#53
m,p-Xylene
Concen: 14.675 ug/L
RT: 11.835 min Scan# 1629
Delta R.T. -0.000 min
Lab File: VW021021.D
Acq: 02 Dec 2021 03:52

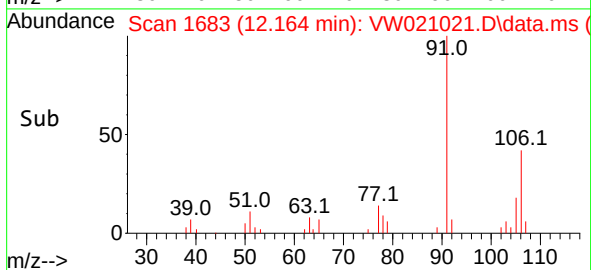
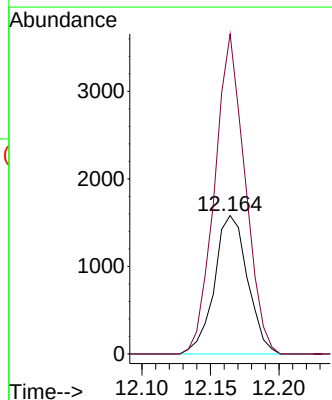
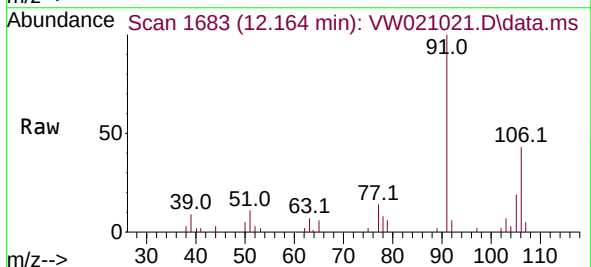
Instrument :
MSVOA_W
ClientSampleId :

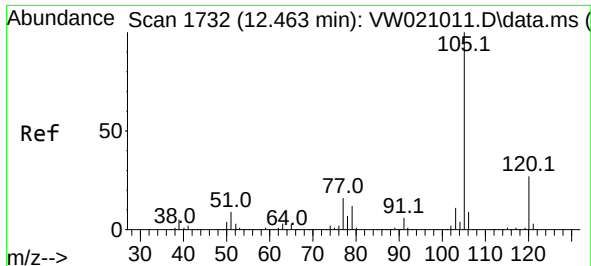
Tgt Ion:106 Resp: 7208
Ion Ratio Lower Upper
106 100
91 195.8 149.9 278.3



#54
o-Xylene
Concen: 5.649 ug/L
RT: 12.164 min Scan# 1683
Delta R.T. -0.000 min
Lab File: VW021021.D
Acq: 02 Dec 2021 03:52

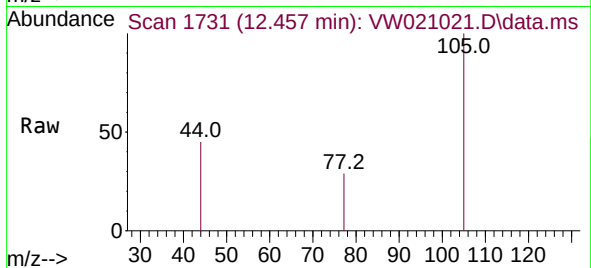
Tgt Ion:106 Resp: 2665
Ion Ratio Lower Upper
106 100
91 231.1 153.6 285.3



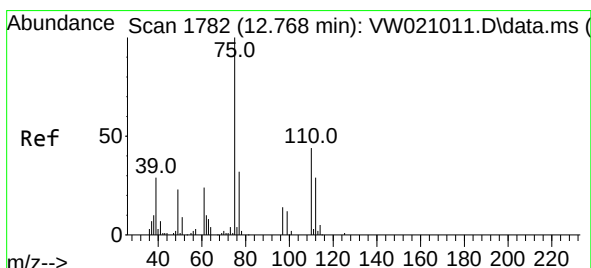
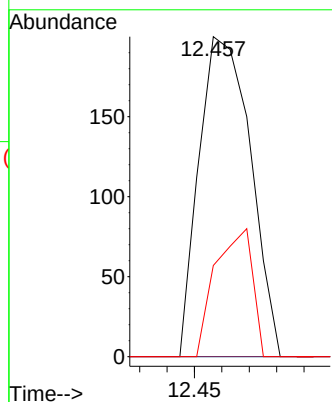
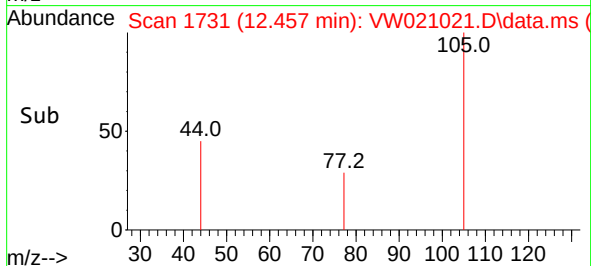


#60
Isopropylbenzene
Concen: 0.866 ug/L
RT: 12.457 min Scan# 11
Delta R.T. -0.006 min
Lab File: VW021021.D
Acq: 02 Dec 2021 03:52

Instrument :
MSVOA_W
ClientSampleId :

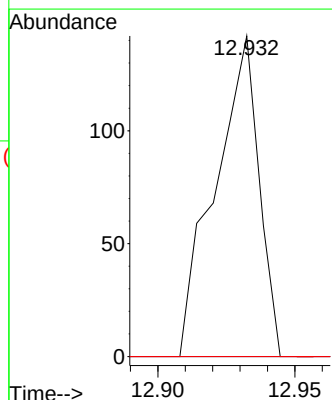
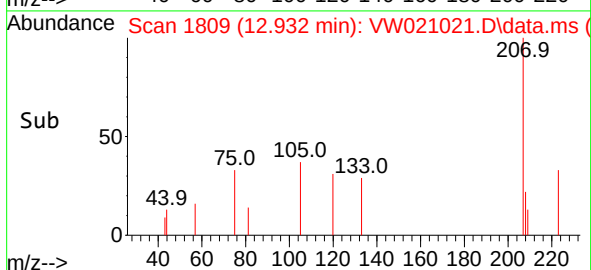
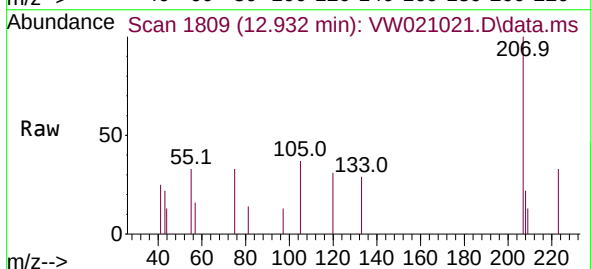


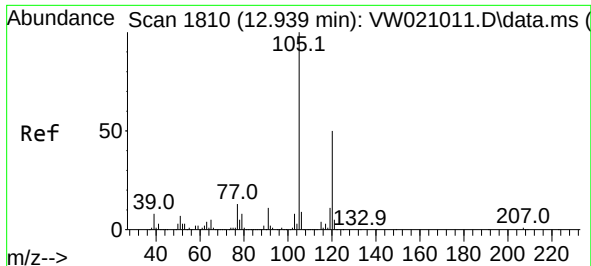
Tgt Ion:105 Resp: 261
Ion Ratio Lower Upper
105 100
120 0.0 20.1 30.1#
77 28.7 13.8 20.8#



#61
1,2,3-Trichloropropane
Concen: 4.865 ug/L
RT: 12.932 min Scan# 1809
Delta R.T. 0.165 min
Lab File: VW021021.D
Acq: 02 Dec 2021 03:52

Tgt Ion: 75 Resp: 158
Ion Ratio Lower Upper
75 100
77 0.0 25.8 38.8#
110 0.0 29.0 43.4#





#62

1,3,5-Trimethylbenzene

Concen: 4.462 ug/L

RT: 13.249 min Scan# 1861

Delta R.T. 0.311 min

Lab File: VW021021.D

Acq: 02 Dec 2021 03:52

Instrument :

MSVOA_W

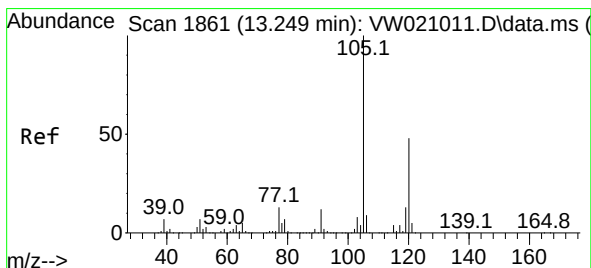
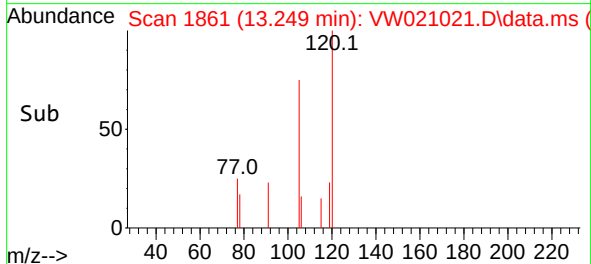
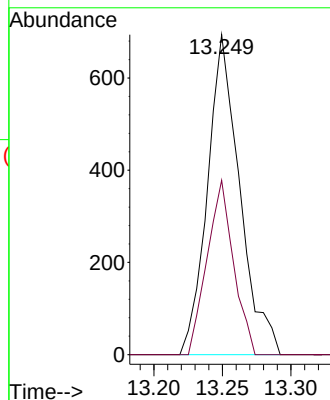
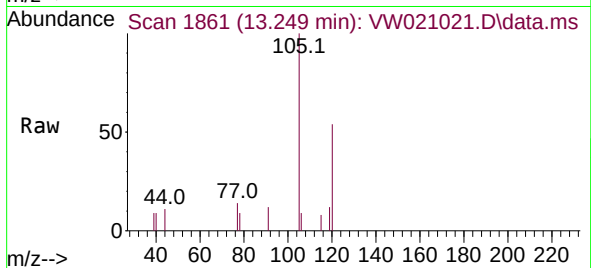
ClientSampleId :

Tgt Ion:105 Resp: 1135

Ion Ratio Lower Upper

105 100

120 44.6 37.4 56.2



#63

1,2,4-Trimethylbenzene

Concen: 4.522 ug/L

RT: 13.249 min Scan# 1861

Delta R.T. -0.000 min

Lab File: VW021021.D

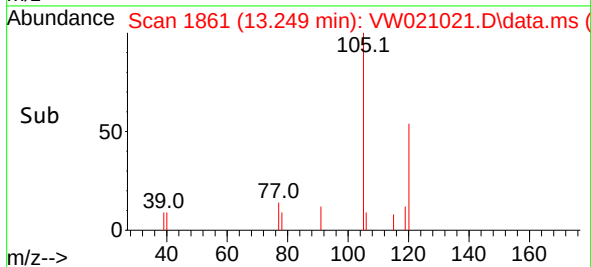
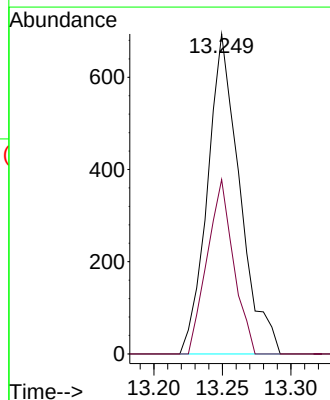
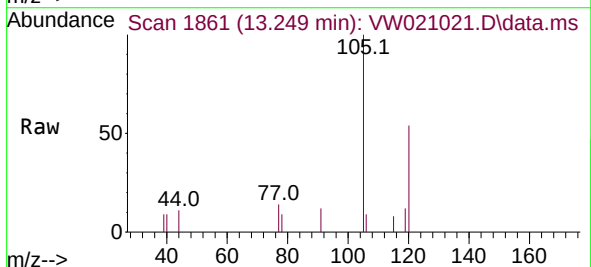
Acq: 02 Dec 2021 03:52

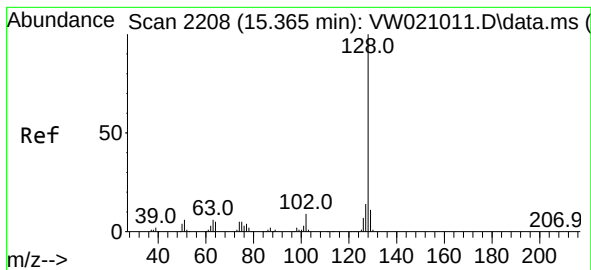
Tgt Ion:105 Resp: 1135

Ion Ratio Lower Upper

105 100

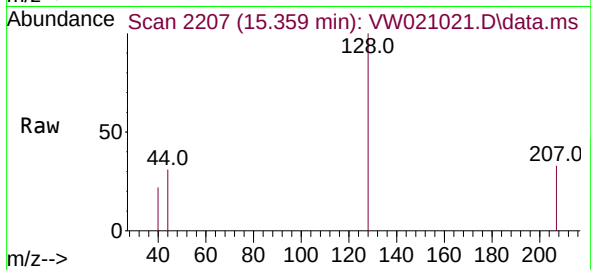
120 44.6 35.0 52.6





#71
Naphthalene
Concen: 3.490 ug/L
RT: 15.359 min Scan# 21
Delta R.T. -0.006 min
Lab File: VW021021.D
Acq: 02 Dec 2021 03:52

Instrument :
MSVOA_W
ClientSampleId :



Tgt Ion:	128	Resp:	521
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.7	16.1#
129	0.0	8.6	12.8#

