

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW121221\
 Data File : VW021344.D
 Acq On : 12 Dec 2021 02:21
 Operator : SY/VA
 Sample : M5062-13
 Misc : 6.18g/10.0mL/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Dec 13 03:23:01 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
 Quant Title : SFAM01.0
 QLast Update : Fri Dec 10 23:12:45 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.841	114	62114	25.000	ug/L	# 0.00
28) Chlorobenzene-d5	11.633	117	41911	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.554	152	9207	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.349	65	26933	23.808	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	95.240%
7) Chloroethane-d5	2.879	69	20909	27.959	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	111.840%
11) 1,1-Dichloroethene-d2	4.037	63	113096	74.988	ug/L	0.02
Spiked Amount	25.000	Range	45 - 110	Recovery	=	299.960%#
21) 2-Butanone-d5	7.079	46	11630	72.932	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	145.860%#
24) Chloroform-d	7.646	84	49623	28.668	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	114.680%
26) 1,2-Dichloroethane-d4	8.305	65	25155	27.320	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	109.280%
32) Benzene-d6	8.274	84	85522	37.227	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	148.920%#
36) 1,2-Dichloropropane-d6	9.274	67	23423	38.018	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	152.080%#
41) Toluene-d8	10.323	98	68806	29.314	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	117.240%
43) trans-1,3-Dichloroprop...	10.579	79	8071	28.451	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	113.800%
47) 2-Hexanone-d5	10.926	63	6884	75.561	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	151.120%#
56) 1,1,2,2-Tetrachloroeth...	12.688	84	15064	28.443	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	113.760%
66) 1,2-Dichlorobenzene-d4	13.853	152	8951	25.085	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	100.360%
Target Compounds						
					Qvalue	
13) Acetone	4.123	43	2902	20.300	ug/L	86
14) Carbon disulfide	4.385	76	11080	5.573	ug/L	99
16) Methylene chloride	4.921	84	5910	5.758	ug/L	79
17) trans-1,2-Dichloroethene	5.427	96	3316	3.978	ug/L	86
19) 1,1-Dichloroethane	6.220	63	210877	161.202	ug/L	98
20) cis-1,2-Dichloroethene	7.171	96	30860	35.097	ug/L	66
27) 1,2-Dichloroethane	8.396	62	1094	1.138	ug/L	# 77
33) Benzene	8.323	78	4790	2.098	ug/L	100
34) Trichloroethene	9.091	95	4362824	6807.312	ug/L	90
35) Methylcyclohexane	9.274	83	6236	5.899	ug/L	# 14
37) 1,2-Dichloropropane	9.274	63	3055	5.999	ug/L	# 92
39) cis-1,3-Dichloropropene	10.030	75	839	1.045	ug/L	# 60
42) Toluene	10.390	91	341282	127.811	ug/L	99
45) 1,1,2-Trichloroethane	10.865	97	61320	147.114	ug/L	# 39
46) Tetrachloroethene	10.871	164	4838925	7947.869	ug/L	93
51) Chlorobenzene	11.652	112	1105	0.618	ug/L	# 84
52) Ethylbenzene	11.731	91	5935	1.945	ug/L	97
53) m,p-Xylene	11.835	106	6915	5.618	ug/L	85
54) o-Xylene	12.164	106	5790	4.956	ug/L	86

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MSVOA_W
ClientSampleId :

Quant Time: Dec 13 03:23:01 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0
QLast Update : Fri Dec 10 23:12:45 2021
Response via : Initial Calibration

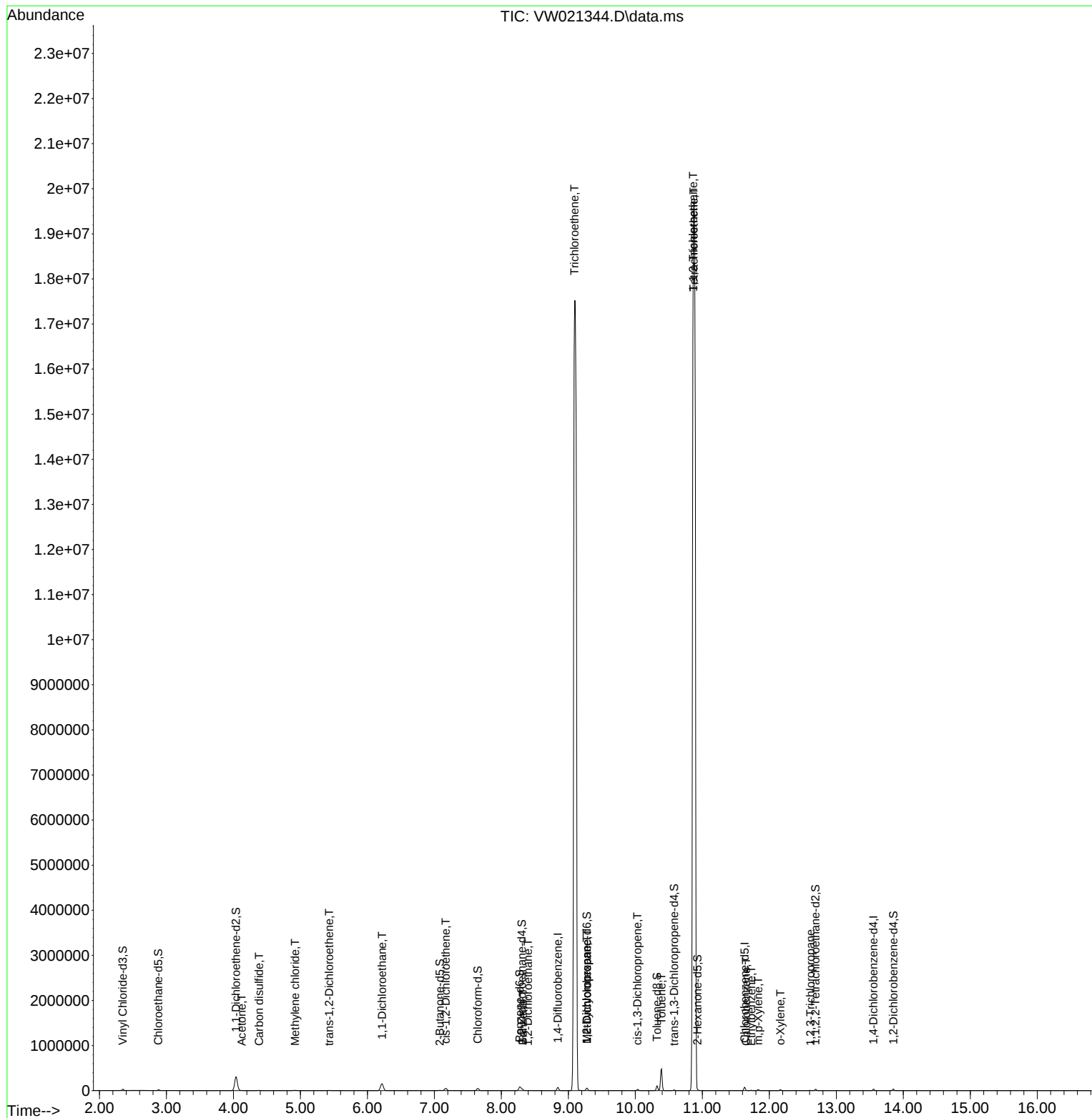
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
61) 1,2,3-Trichloropropane	12.615	75	140	1.045	ug/L #	1

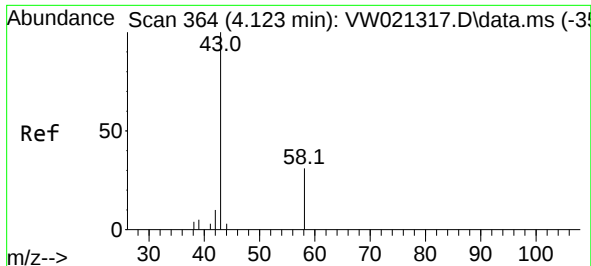
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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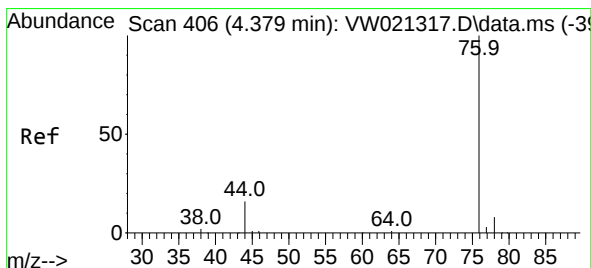
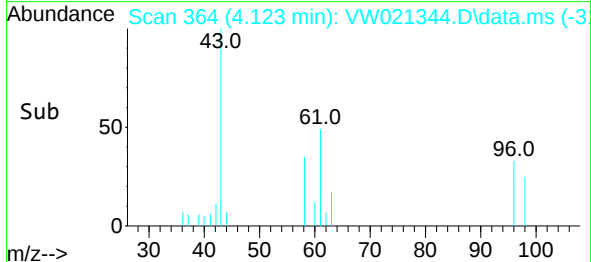
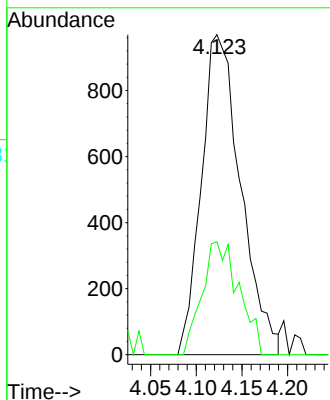
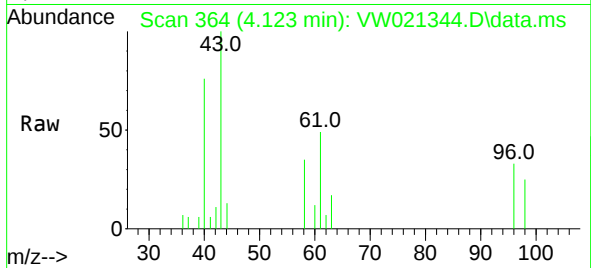




#13
Acetone
Concen: 20.300 ug/L
RT: 4.123 min Scan# 301
Delta R.T. -0.000 min
Lab File: VW021344.D
Acq: 12 Dec 2021 02:21

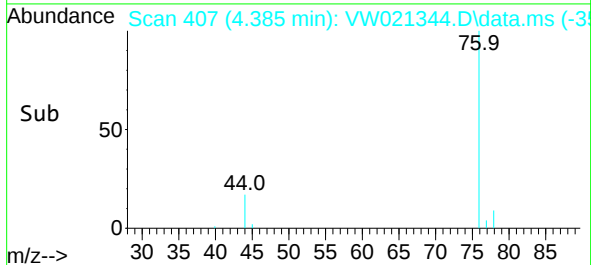
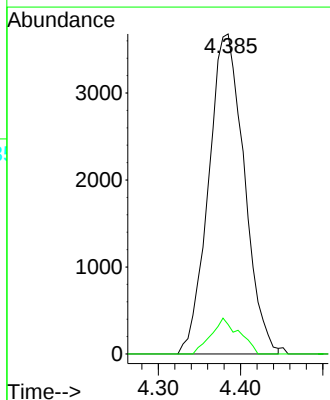
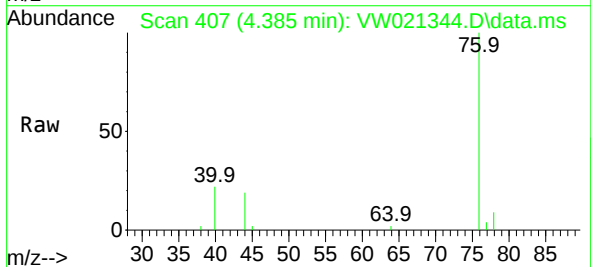
Instrument :
MSVOA_W
ClientSampleId :

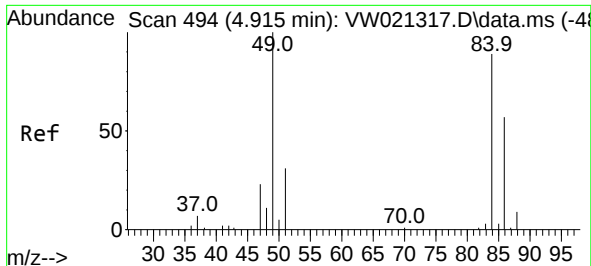
Tgt Ion: 43 Resp: 2902
Ion Ratio Lower Upper
43 100
58 19.2 0.0 52.8



#14
Carbon disulfide
Concen: 5.573 ug/L
RT: 4.385 min Scan# 407
Delta R.T. -0.000 min
Lab File: VW021344.D
Acq: 12 Dec 2021 02:21

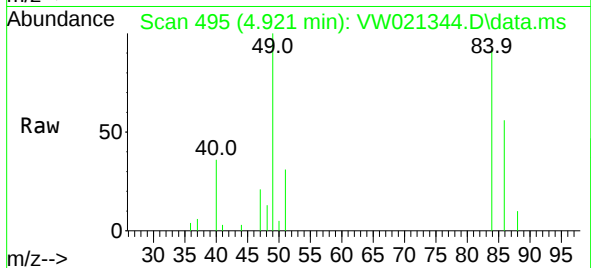
Tgt Ion: 76 Resp: 11080
Ion Ratio Lower Upper
76 100
78 9.2 7.1 10.7



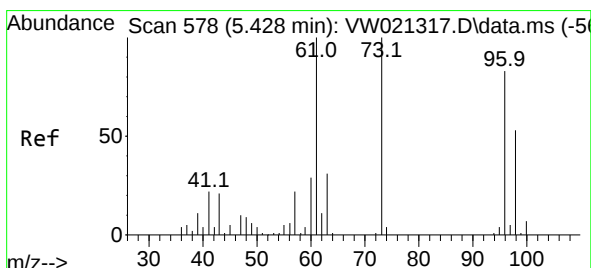
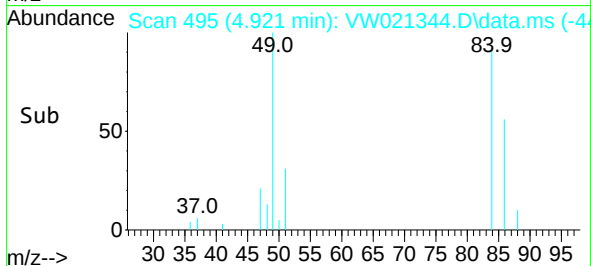
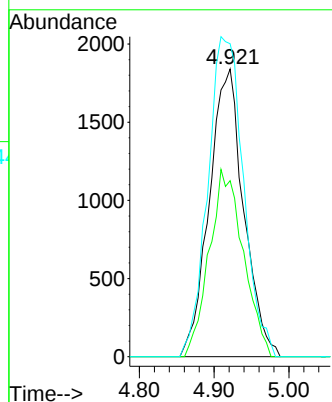


#16
Methylene chloride
Concen: 5.758 ug/L
RT: 4.921 min Scan# 494
Delta R.T. 0.006 min
Lab File: VW021344.D
Acq: 12 Dec 2021 02:21

Instrument :
MSVOA_W
ClientSampleId :

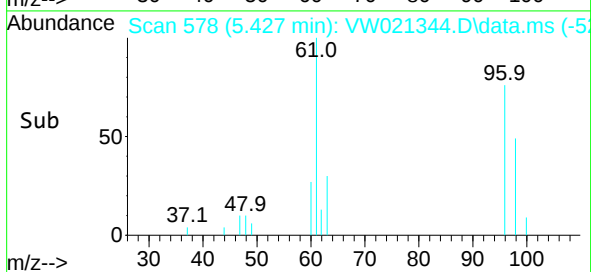
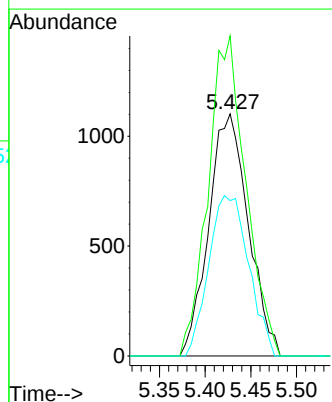
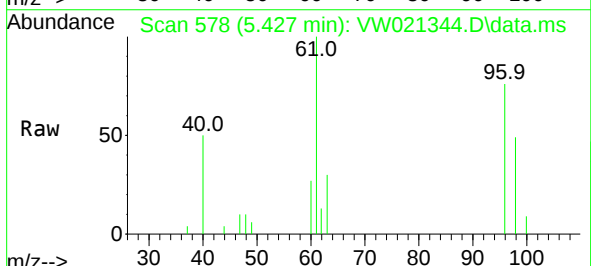


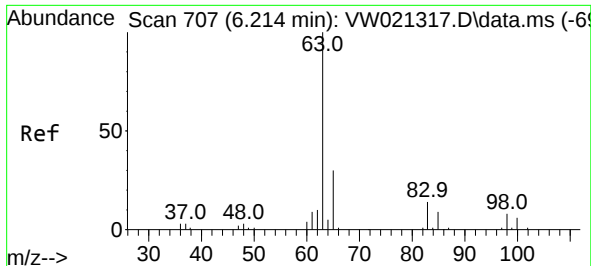
Tgt Ion: 84 Resp: 5910
Ion Ratio Lower Upper
84 100
86 61.2 45.5 84.5
49 108.8 100.5 186.7



#17
trans-1,2-Dichloroethene
Concen: 3.978 ug/L
RT: 5.427 min Scan# 578
Delta R.T. 0.006 min
Lab File: VW021344.D
Acq: 12 Dec 2021 02:21

Tgt Ion: 96 Resp: 3316
Ion Ratio Lower Upper
96 100
61 132.2 107.4 199.4
98 64.2 41.2 76.6





#19

1,1-Dichloroethane

Concen: 161.202 ug/L

RT: 6.220 min Scan# 707

Delta R.T. 0.006 min

Lab File: VW021344.D

Acq: 12 Dec 2021 02:21

Instrument :

MSVOA_W

ClientSampleId :

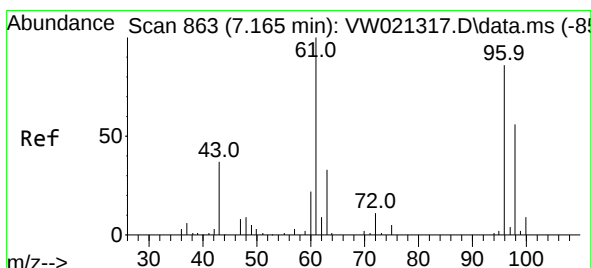
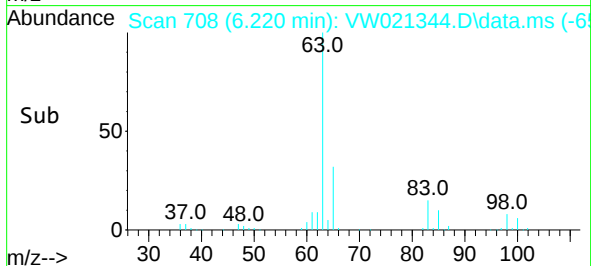
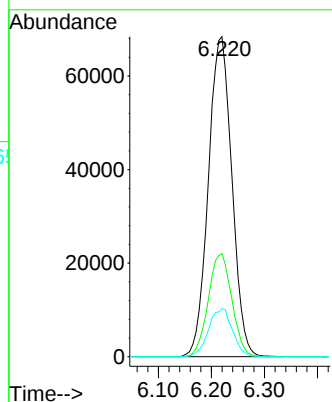
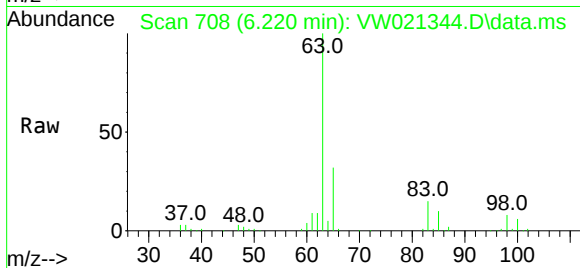
Tgt Ion: 63 Resp: 210877

Ion Ratio Lower Upper

63 100

65 32.2 22.1 41.1

83 15.0 9.2 17.2



#20

cis-1,2-Dichloroethene

Concen: 35.097 ug/L

RT: 7.171 min Scan# 864

Delta R.T. -0.000 min

Lab File: VW021344.D

Acq: 12 Dec 2021 02:21

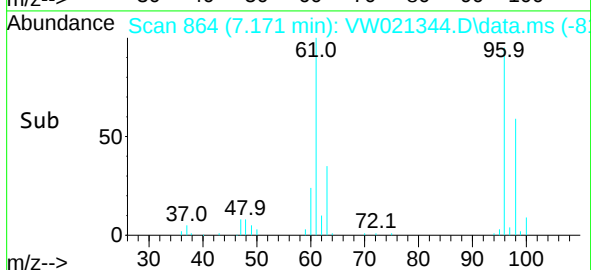
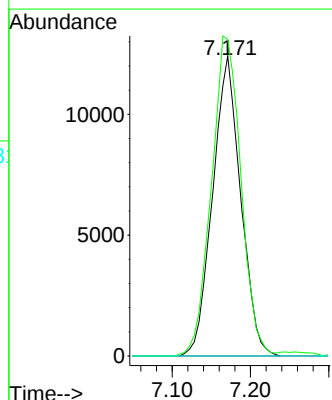
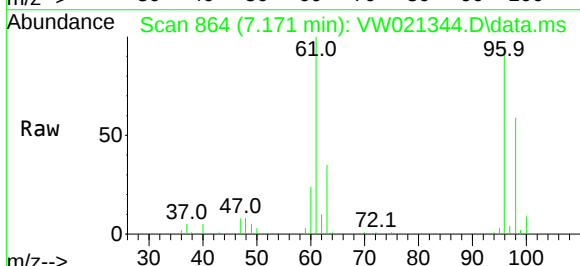
Tgt Ion: 96 Resp: 30860

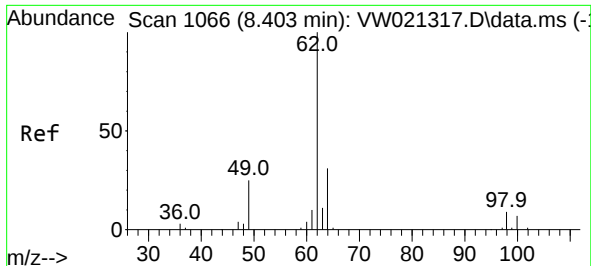
Ion Ratio Lower Upper

96 100

61 105.5 103.7 192.7

68 0.0 0.0 0.0





#27

1,2-Dichloroethane

Concen: 1.138 ug/L

RT: 8.396 min Scan# 1065

Delta R.T. -0.007 min

Lab File: VW021344.D

Acq: 12 Dec 2021 02:21

Instrument :

MSVOA_W

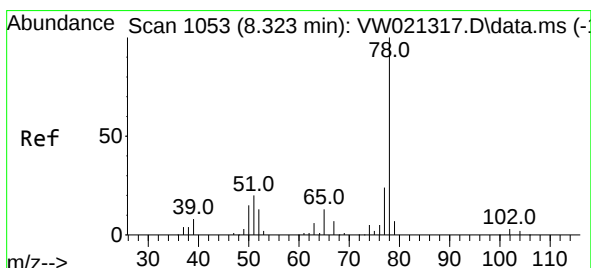
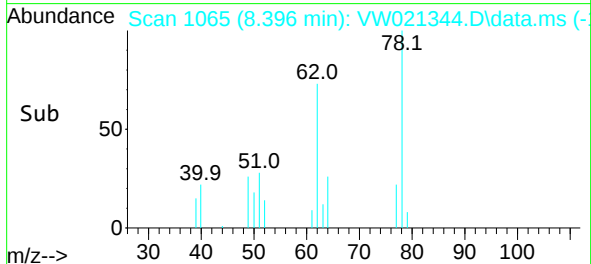
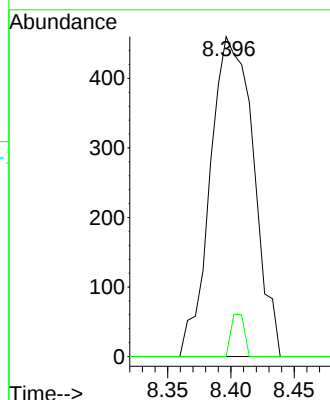
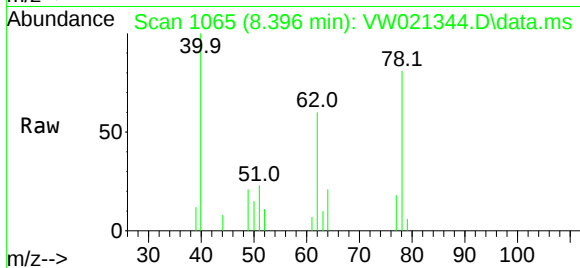
ClientSampleId :

Tgt Ion: 62 Resp: 1094

Ion Ratio Lower Upper

62 100

98 0.0 6.5 9.7#



#33

Benzene

Concen: 2.098 ug/L

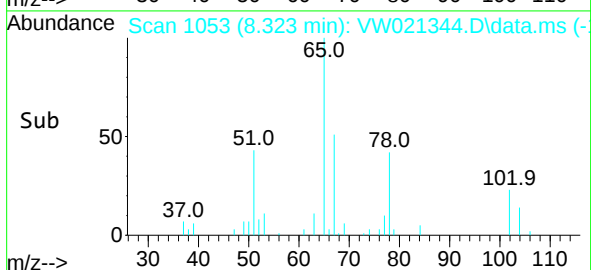
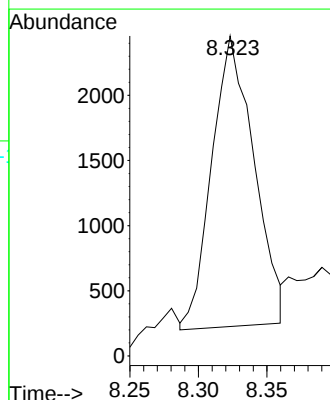
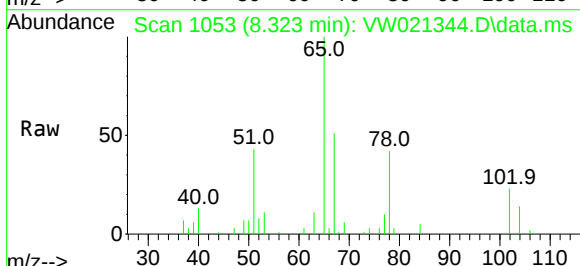
RT: 8.323 min Scan# 1053

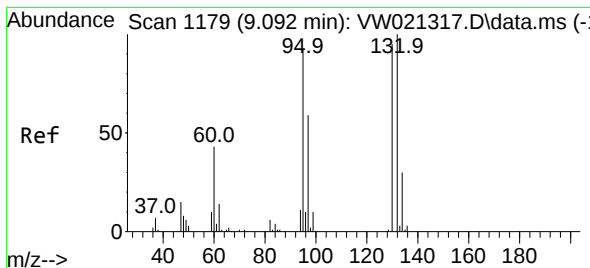
Delta R.T. -0.000 min

Lab File: VW021344.D

Acq: 12 Dec 2021 02:21

Tgt Ion: 78 Resp: 4790





#34

Trichloroethene

Concen: 6807.312 ug/L

RT: 9.091 min Scan# 1179

Delta R.T. -0.000 min

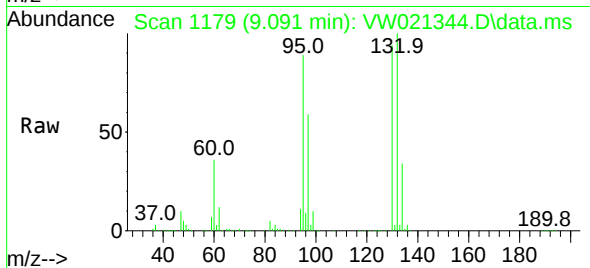
Lab File: VW021344.D

Acq: 12 Dec 2021 02:21

Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion: 95 Resp: 4362824

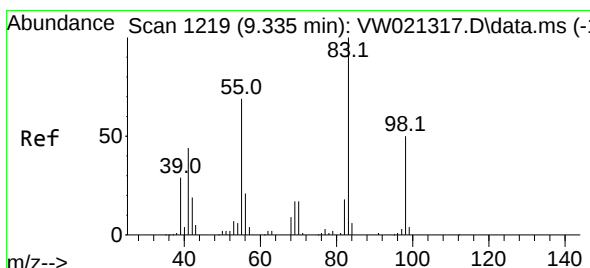
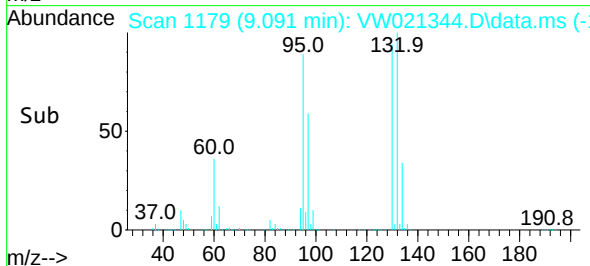
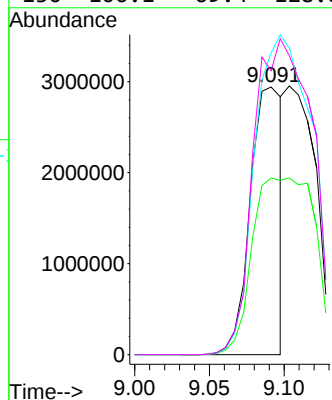
Ion Ratio Lower Upper

95 100

97 66.0 47.0 87.2

132 112.7 65.5 121.6

130 106.1 69.4 128.8



#35

Methylcyclohexane

Concen: 5.899 ug/L

RT: 9.274 min Scan# 1209

Delta R.T. -0.061 min

Lab File: VW021344.D

Acq: 12 Dec 2021 02:21

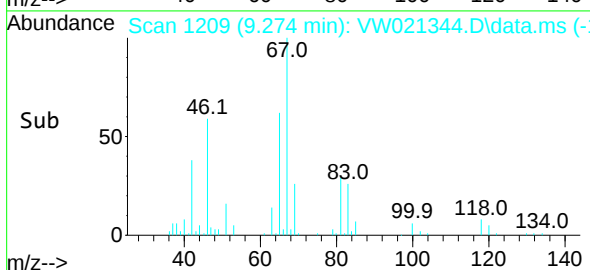
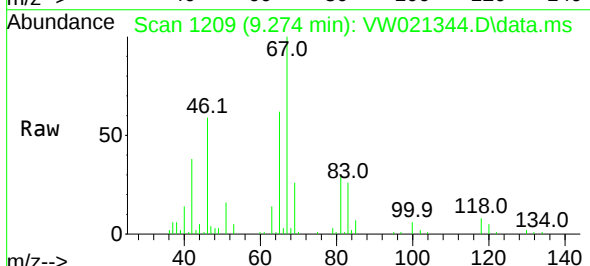
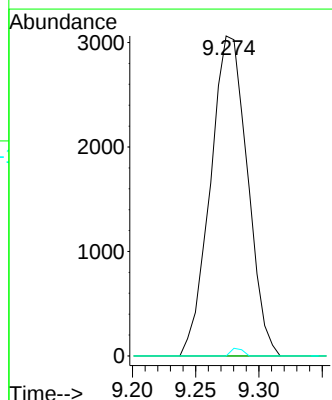
Tgt Ion: 83 Resp: 6236

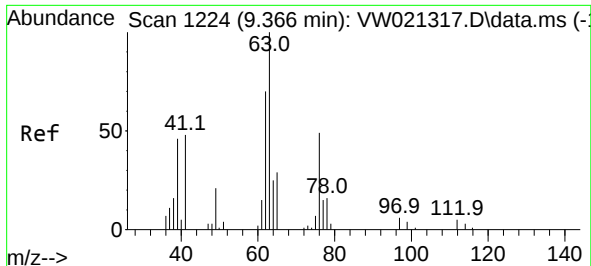
Ion Ratio Lower Upper

83 100

55 0.0 70.8 106.2#

98 0.8 37.7 56.5#





#37

1,2-Dichloropropane

Concen: 5.999 ug/L

RT: 9.274 min Scan# 11

Delta R.T. -0.092 min

Lab File: VW021344.D

Acq: 12 Dec 2021 02:21

Instrument :

MSVOA_W

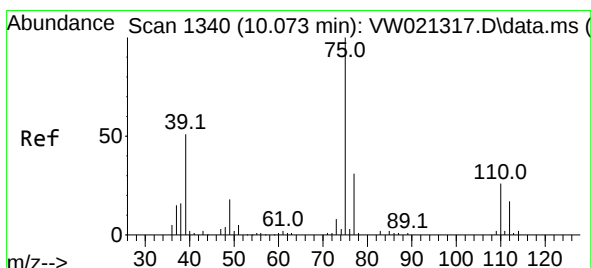
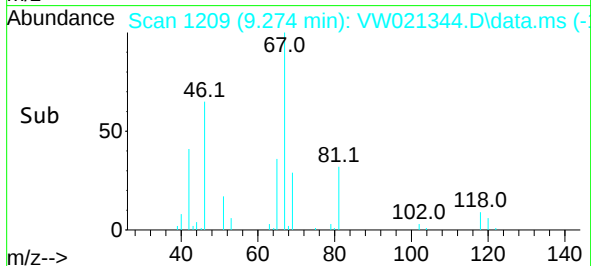
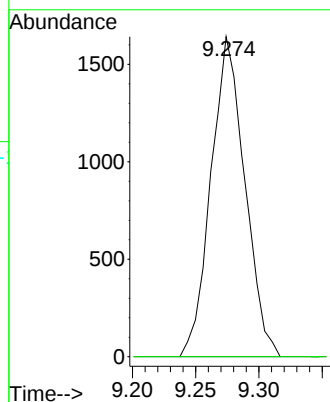
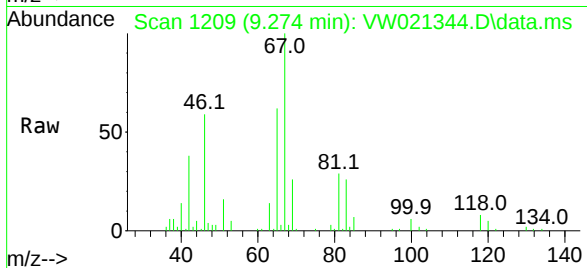
ClientSampleId :

Tgt Ion: 63 Resp: 3055

Ion Ratio Lower Upper

63 100

112 1.5 3.2 4.8#



#39

cis-1,3-Dichloropropene

Concen: 1.045 ug/L

RT: 10.030 min Scan# 1333

Delta R.T. -0.043 min

Lab File: VW021344.D

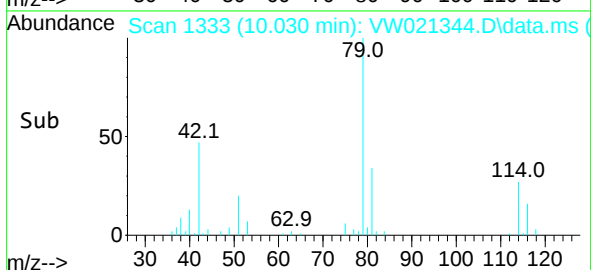
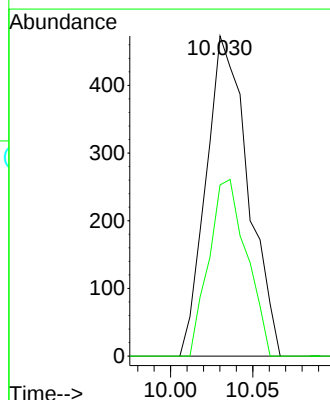
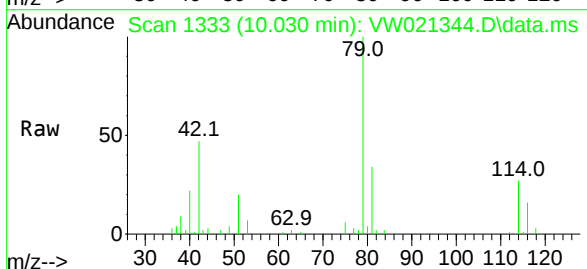
Acq: 12 Dec 2021 02:21

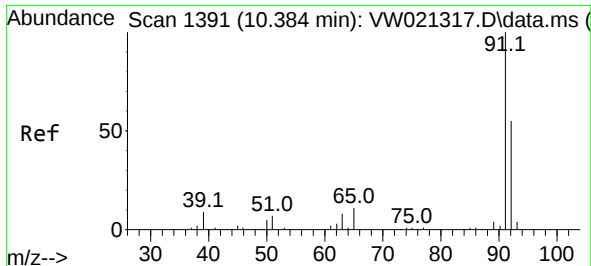
Tgt Ion: 75 Resp: 839

Ion Ratio Lower Upper

75 100

77 53.5 21.8 40.6#

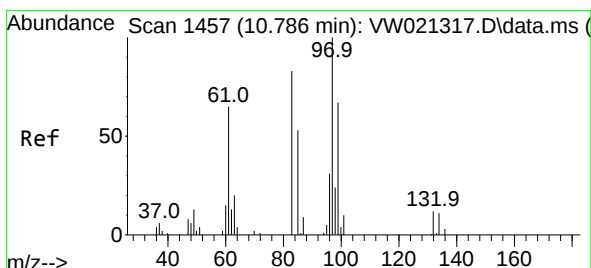
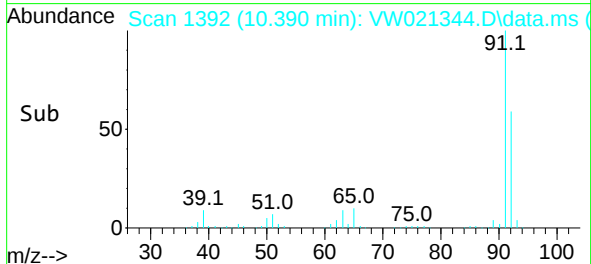
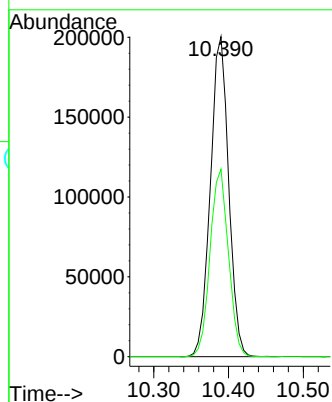
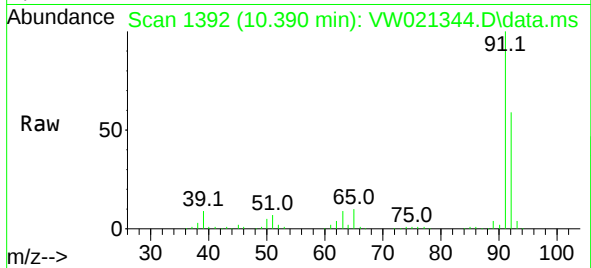




#42
Toluene
Concen: 127.811 ug/L
RT: 10.390 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW021344.D
Acq: 12 Dec 2021 02:21

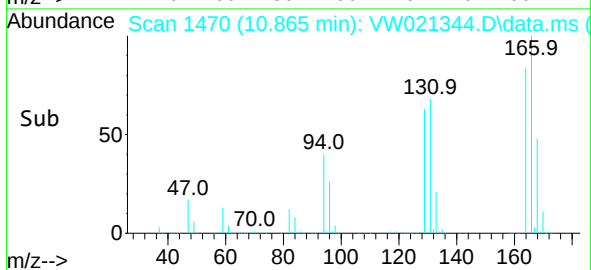
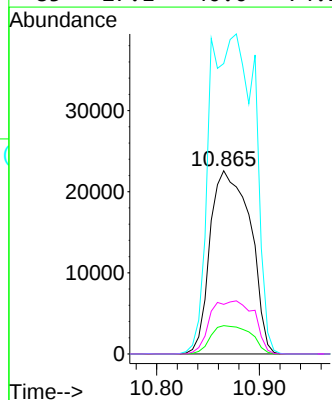
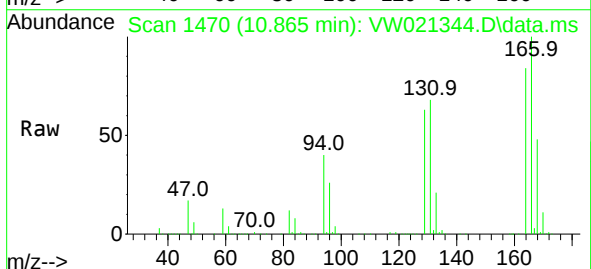
Instrument :
MSVOA_W
ClientSampleId :

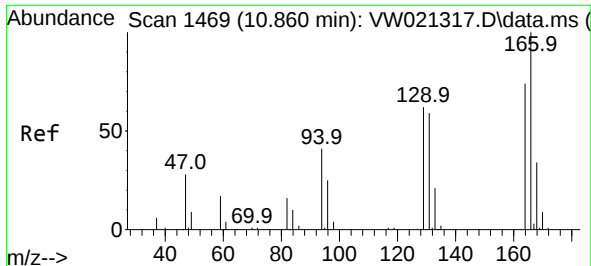
Tgt Ion: 91 Resp: 341282
Ion Ratio Lower Upper
91 100
92 58.6 41.7 77.5



#45
1,1,2-Trichloroethane
Concen: 147.114 ug/L
RT: 10.865 min Scan# 1470
Delta R.T. 0.079 min
Lab File: VW021344.D
Acq: 12 Dec 2021 02:21

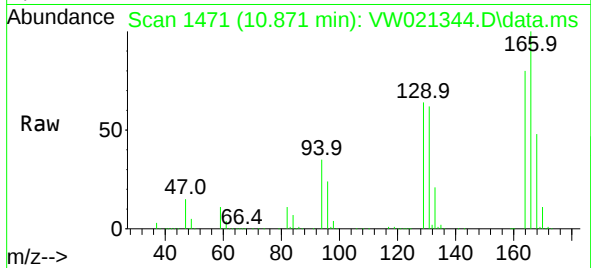
Tgt Ion: 97 Resp: 61320
Ion Ratio Lower Upper
97 100
99 15.5 43.0 79.8#
83 158.5 62.6 116.3#
85 27.1 40.0 74.2#



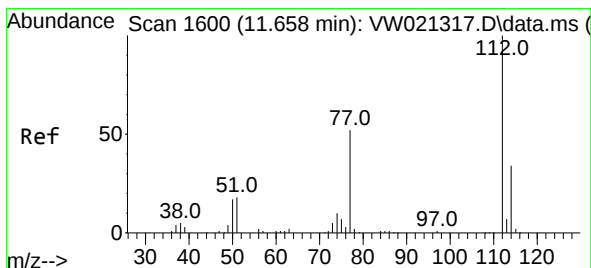
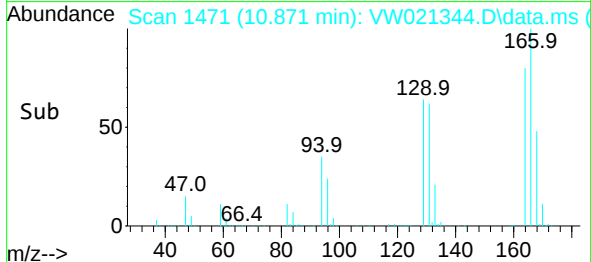
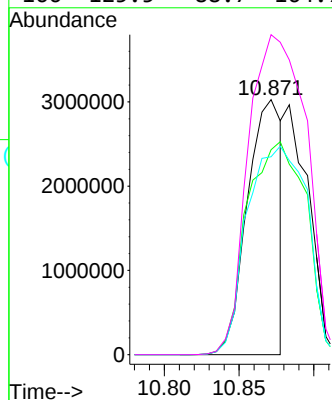


#46
Tetrachloroethene
Concen: 7947.869 ug/L
RT: 10.871 min Scan# 1469
Delta R.T. 0.012 min
Lab File: VW021344.D
Acq: 12 Dec 2021 02:21

Instrument :
MSVOA_W
ClientSampleId :

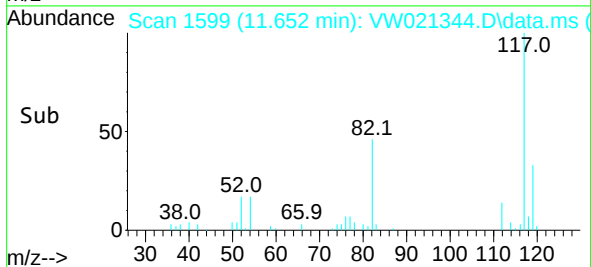
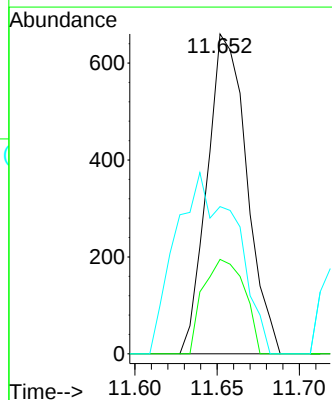
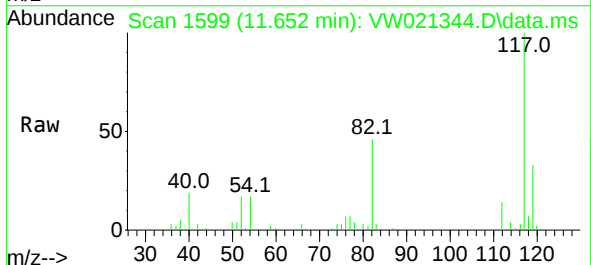


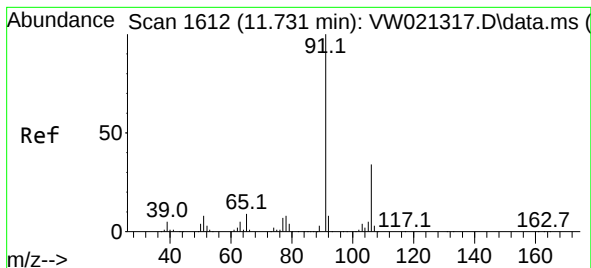
Tgt Ion:164 Resp: 4838925
Ion Ratio Lower Upper
164 100
129 80.4 65.5 121.7
131 77.6 59.7 110.9
166 125.5 88.7 164.7



#51
Chlorobenzene
Concen: 0.618 ug/L
RT: 11.652 min Scan# 1599
Delta R.T. -0.007 min
Lab File: VW021344.D
Acq: 12 Dec 2021 02:21

Tgt Ion:112 Resp: 1105
Ion Ratio Lower Upper
112 100
114 29.5 22.4 41.6
77 46.1 50.2 75.4#

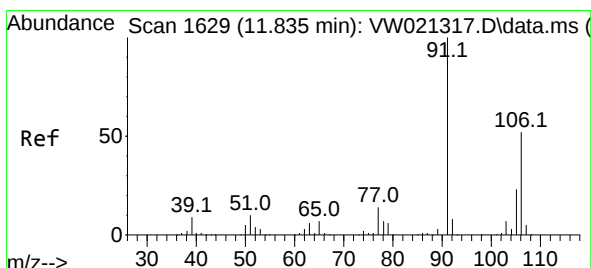
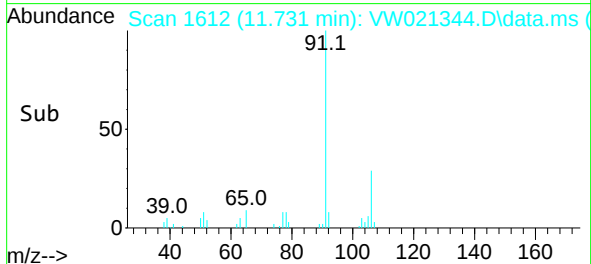
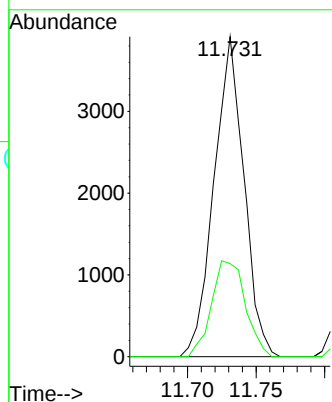
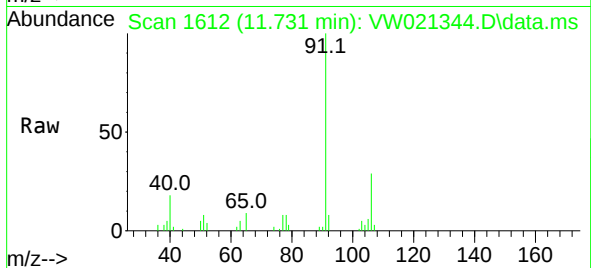




#52
Ethylbenzene
Concen: 1.945 ug/L
RT: 11.731 min Scan# 1612
Delta R.T. -0.000 min
Lab File: VW021344.D
Acq: 12 Dec 2021 02:21

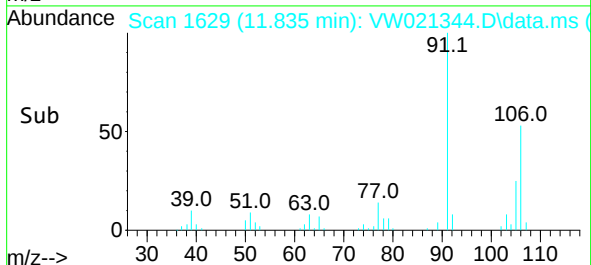
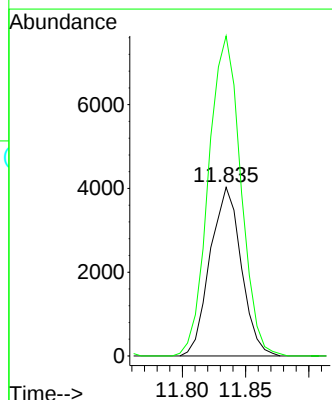
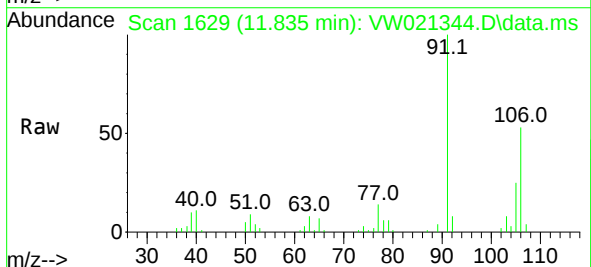
Instrument :
MSVOA_W
ClientSampleId :

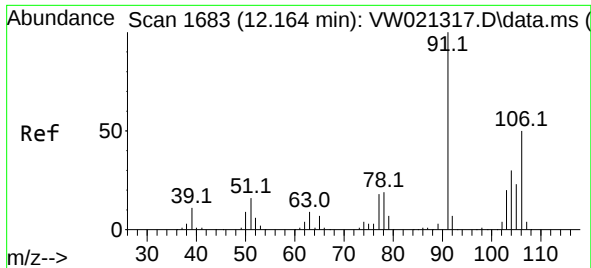
Tgt Ion: 91 Resp: 5935
Ion Ratio Lower Upper
91 100
106 29.1 21.5 39.9



#53
m,p-Xylene
Concen: 5.618 ug/L
RT: 11.835 min Scan# 1629
Delta R.T. -0.007 min
Lab File: VW021344.D
Acq: 12 Dec 2021 02:21

Tgt Ion: 106 Resp: 6915
Ion Ratio Lower Upper
106 100
91 189.7 149.9 278.3

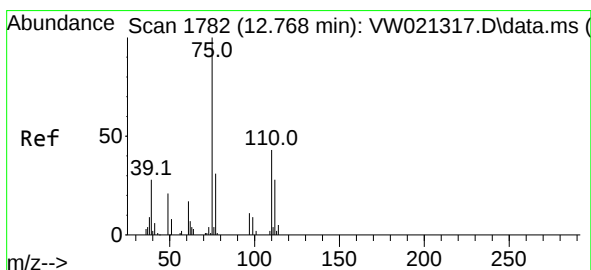
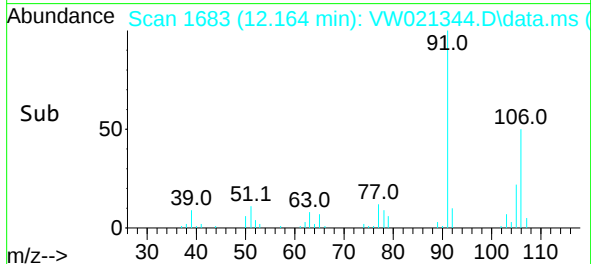
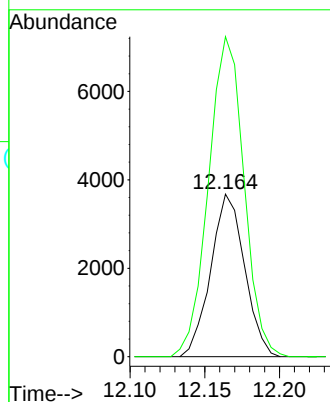
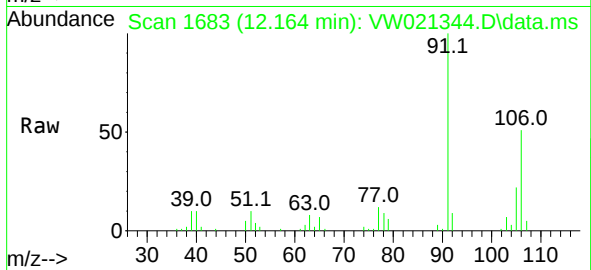




#54
o-Xylene
Concen: 4.956 ug/L
RT: 12.164 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW021344.D
Acq: 12 Dec 2021 02:21

Instrument :
MSVOA_W
ClientSampleId :

Tgt Ion:106 Resp: 5790
Ion Ratio Lower Upper
106 100
91 196.8 153.6 285.3



#61
1,2,3-Trichloropropane
Concen: 1.045 ug/L
RT: 12.615 min Scan# 1757
Delta R.T. -0.153 min
Lab File: VW021344.D
Acq: 12 Dec 2021 02:21

Tgt Ion: 75 Resp: 140
Ion Ratio Lower Upper
75 100
77 112.9 25.8 38.8#
110 0.0 29.0 43.4#

