

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW120424\
 Data File : VW031131.D
 Acq On : 04 Dec 2024 17:45
 Operator : SY/MD
 Sample : P5066-01
 Misc : 1.23g/10mL/MSVOA_W/SOIL/A
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Dec 05 02:40:36 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120424SMA.M
 Quant Title : SFAM01.0
 QLast Update : Thu Dec 05 01:31:20 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.849	114	308527	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.629	117	157427	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.556	152	41100	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.363	65	140220	29.533	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	= 118.120%	
7) Chloroethane-d5	2.887	69	118184	32.083	ug/L	-0.01
Spiked Amount	25.000	Range	30 - 150	Recovery	= 128.320%	
11) 1,1-Dichloroethene-d2	4.003	65	61297	28.297	ug/L	-0.02
Spiked Amount	25.000	Range	45 - 110	Recovery	= 113.200%#	
21) 2-Butanone-d5	7.075	46	177	0.213	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	= 0.420%#	
24) Chloroform-d	7.667	84	191778	21.223	ug/L	0.02
Spiked Amount	25.000	Range	40 - 150	Recovery	= 84.880%	
26) 1,2-Dichloroethane-d4	8.325	65	130460	29.340	ug/L	0.02
Spiked Amount	25.000	Range	70 - 130	Recovery	= 117.360%	
32) Benzene-d6	8.282	84	381744	39.453	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	= 157.800%#	
36) 1,2-Dichloropropane-d6	9.282	67	120399	42.480	ug/L	0.01
Spiked Amount	25.000	Range	70 - 120	Recovery	= 169.920%#	
41) Toluene-d8	10.325	98	239047	27.376	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	= 109.520%	
43) trans-1,3-Dichloroprop...	10.581	79	47305	41.457	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	= 165.840%#	
47) 2-Hexanone-d5	10.934	63	40410	121.695	ug/L	0.01
Spiked Amount	50.000	Range	20 - 135	Recovery	= 243.400%#	
56) 1,1,2,2-Tetrachloroeth...	12.690	84	46240	24.174	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	= 96.680%	
66) 1,2-Dichlorobenzene-d4	13.848	152	33598	23.015	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	= 92.040%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.222	50	4539	0.988	ug/L	90
14) Carbon disulfide	4.362	76	13494	0.939	ug/L #	91
15) Methyl Acetate	4.728	43	3412	2.175	ug/L #	62
17) trans-1,2-Dichloroethene	5.429	96	8572	1.840	ug/L	93
20) cis-1,2-Dichloroethene	7.191	96	25430	5.198	ug/L	95
25) Chloroform	7.691	83	31896	3.580	ug/L	99
29) Cyclohexane	7.959	56	8716	2.200	ug/L	86
33) Benzene	8.337	78	9701	0.911	ug/L	100
34) Trichloroethene	9.099	95	434659	148.019	ug/L	96
35) Methylcyclohexane	9.337	83	42679	9.134	ug/L #	81
40) 4-Methyl-2-pentanone	10.227	43	2040	1.720	ug/L	99
42) Toluene	10.392	91	263302	23.479	ug/L	99
45) 1,1,2-Trichloroethane	10.764	97	9667	5.312	ug/L #	24
46) Tetrachloroethene	10.861	164	2000359	918.907	ug/L	94
48) 2-Hexanone	10.934	43	29199	27.215	ug/L #	32
50) 1,2-Dibromoethane	11.227	107	792	0.466	ug/L #	1
52) Ethylbenzene	11.727	91	100005	7.869	ug/L	98
53) m,p-Xylene	11.830	106	114746	24.261	ug/L	91
54) o-Xylene	12.160	106	71372	16.221	ug/L	96

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 Quant Title : SFAM01.0
 QLast Update : Thu Dec 05 01:31:20 2024
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

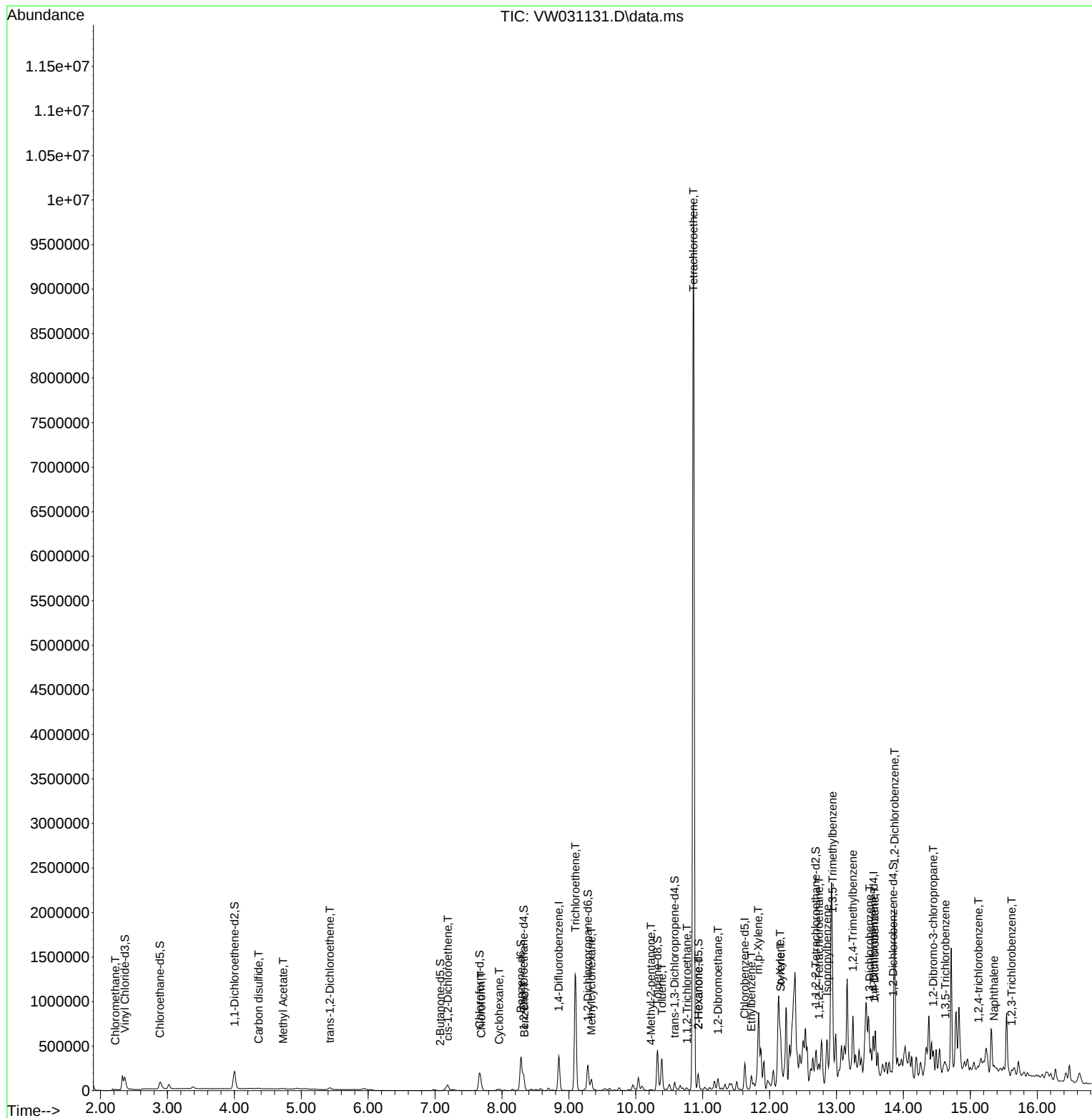
55) Styrene	12.166	104	6443	0.870	ug/L	#	1
57) 1,1,2,2-Tetrachloroethane	12.739	83	4507	2.286	ug/L	#	63
60) Isopropylbenzene	12.861	105	134206	20.227	ug/L		96
62) 1,3,5-Trimethylbenzene	12.940	105	123343	23.608	ug/L		96
63) 1,2,4-Trimethylbenzene	13.245	105	336684	65.600	ug/L		100
64) 1,3-Dichlorobenzene	13.495	146	2869	0.992	ug/L	#	1
65) 1,4-Dichlorobenzene	13.568	146	3692	1.263	ug/L	#	1
67) 1,2-Dichlorobenzene	13.867	146	2043	0.807	ug/L	#	1
68) 1,2-Dibromo-3-chloropr...	14.446	75	3137	18.812	ug/L	#	13
69) 1,3,5-Trichlorobenzene	14.629	180	2332	1.186	ug/L	#	79
70) 1,2,4-trichlorobenzene	15.123	180	3897	2.528	ug/L	#	1
71) Naphthalene	15.354	128	78178	31.478	ug/L		97
72) 1,2,3-Trichlorobenzene	15.616	180	1392	1.055	ug/L		95

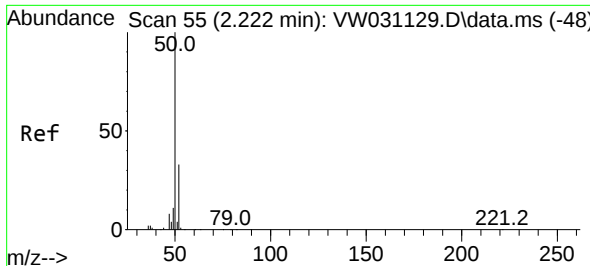
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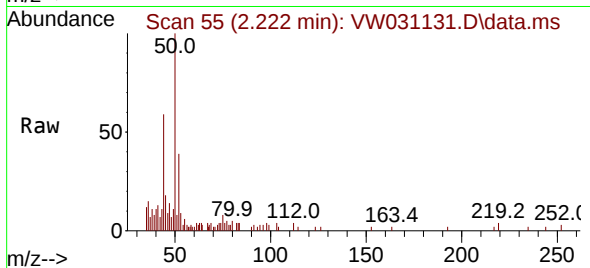
Quant Time: Dec 05 02:40:36 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120424SMA.M
Quant Title : SFAM01.0
QLast Update : Thu Dec 05 01:31:20 2024
Response via : Initial Calibration



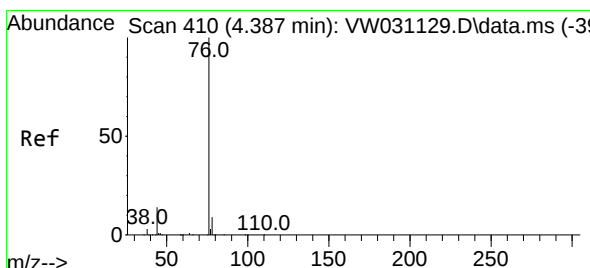
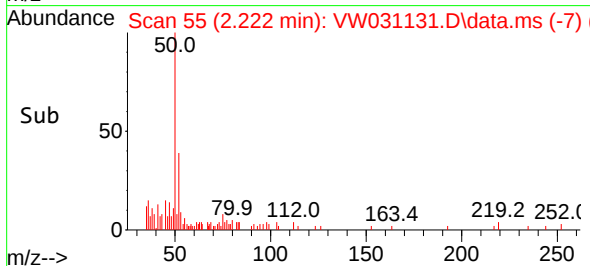
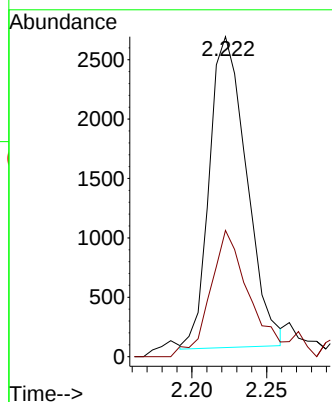


#3
Chloromethane
Concen: 0.988 ug/L
RT: 2.222 min Scan# 51
Delta R.T. -0.006 min
Lab File: VW031131.D
Acq: 04 Dec 2024 17:45

Instrument :
MSVOA_W
ClientSampleId :

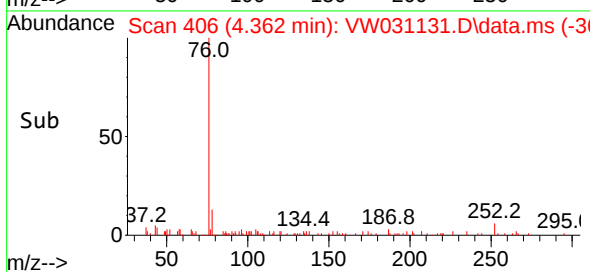
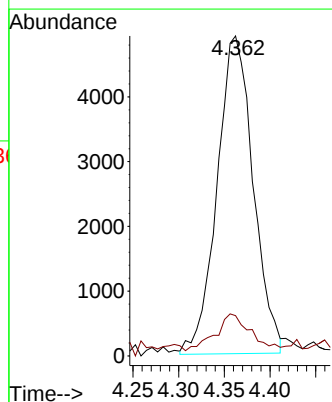
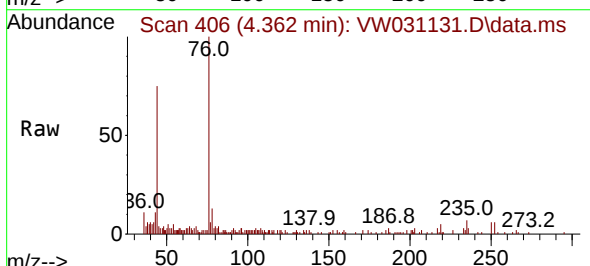


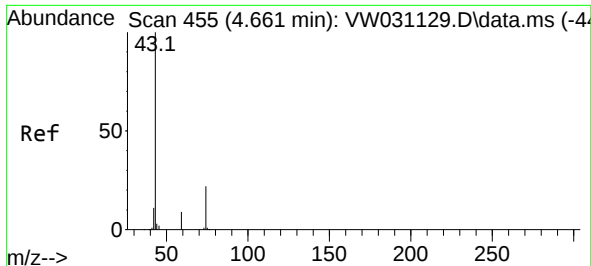
Tgt Ion: 50 Resp: 4539
Ion Ratio Lower Upper
50 100
52 39.5 23.4 43.6



#14
Carbon disulfide
Concen: 0.939 ug/L
RT: 4.362 min Scan# 406
Delta R.T. -0.031 min
Lab File: VW031131.D
Acq: 04 Dec 2024 17:45

Tgt Ion: 76 Resp: 13494
Ion Ratio Lower Upper
76 100
78 12.6 7.4 11.2#

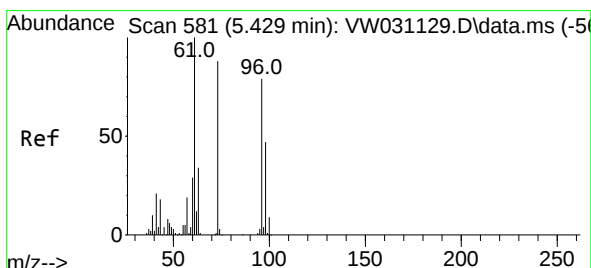
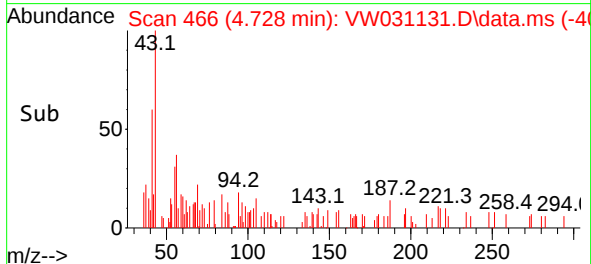
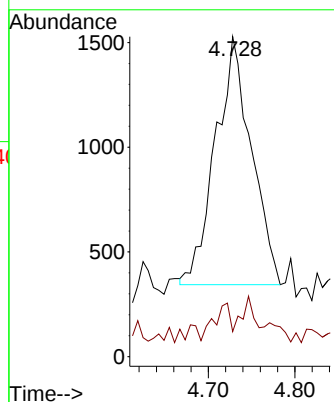
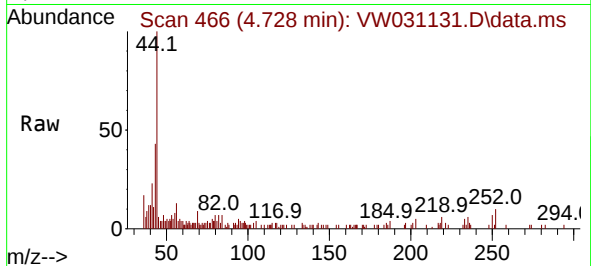




#15
Methyl Acetate
Concen: 2.175 ug/L
RT: 4.728 min Scan# 455
Delta R.T. 0.055 min
Lab File: VW031131.D
Acq: 04 Dec 2024 17:45

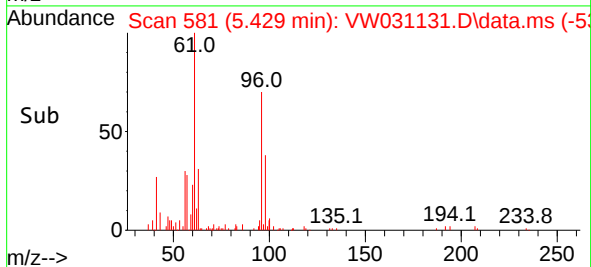
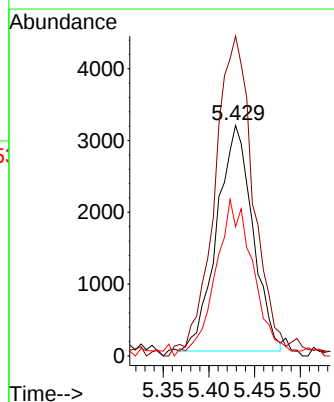
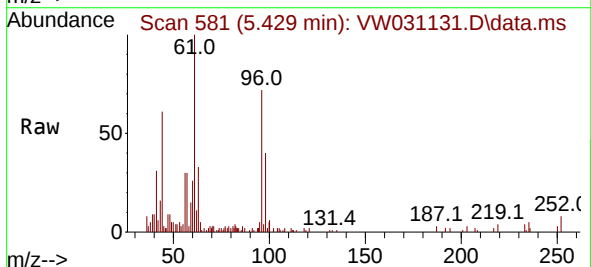
Instrument :
MSVOA_W
ClientSampleId :

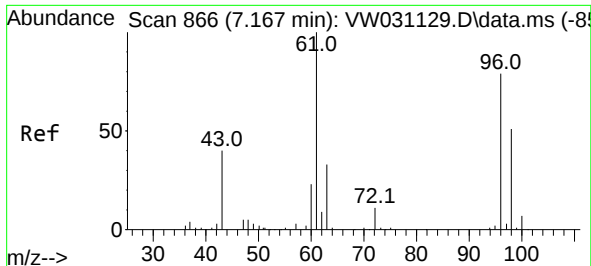
Tgt Ion: 43 Resp: 3412
Ion Ratio Lower Upper
43 100
74 6.6 20.8 31.2#



#17
trans-1,2-Dichloroethene
Concen: 1.840 ug/L
RT: 5.429 min Scan# 581
Delta R.T. -0.006 min
Lab File: VW031131.D
Acq: 04 Dec 2024 17:45

Tgt Ion: 96 Resp: 8572
Ion Ratio Lower Upper
96 100
61 138.8 92.7 172.3
98 56.0 44.4 82.4

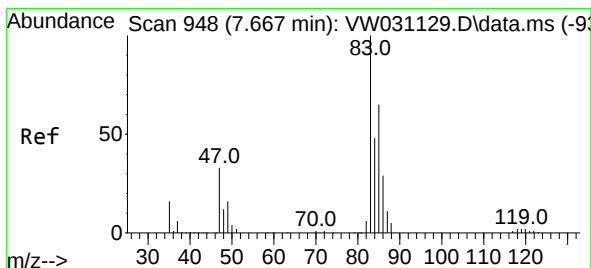
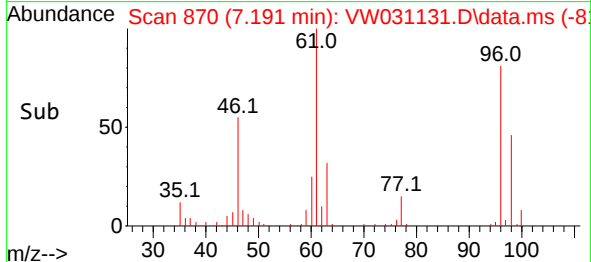
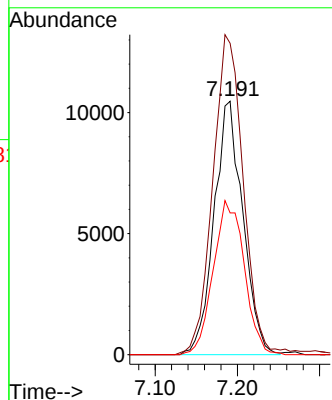
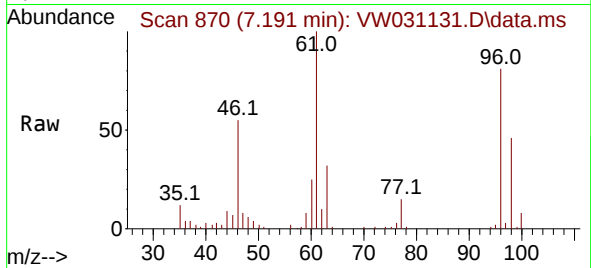




#20
 cis-1,2-Dichloroethene
 Concen: 5.198 ug/L
 RT: 7.191 min Scan# 81
 Delta R.T. 0.018 min
 Lab File: VW031131.D
 Acq: 04 Dec 2024 17:45

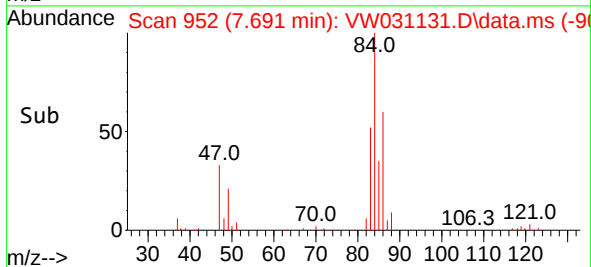
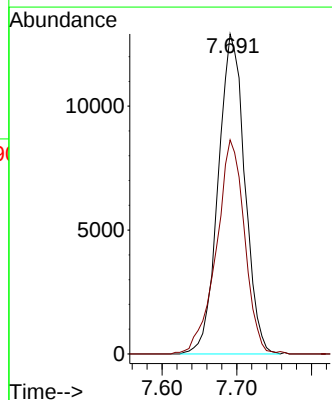
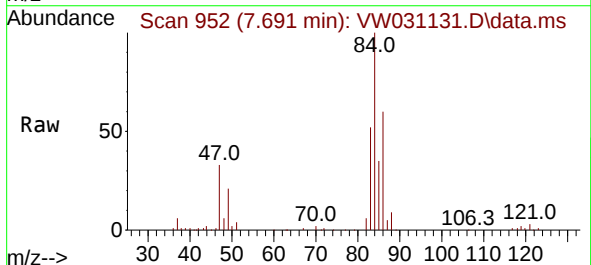
Instrument :
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 ClientSampleId :

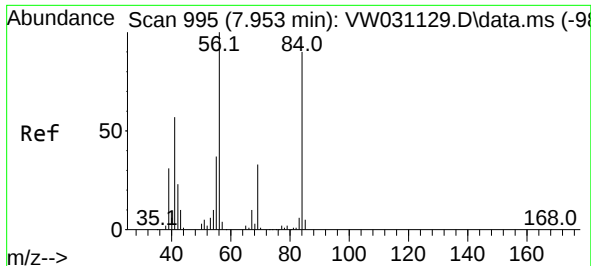
Tgt Ion: 96 Resp: 25430
 Ion Ratio Lower Upper
 96 100
 61 122.9 83.7 155.5
 98 55.9 43.9 81.5



#25
 Chloroform
 Concen: 3.580 ug/L
 RT: 7.691 min Scan# 952
 Delta R.T. 0.012 min
 Lab File: VW031131.D
 Acq: 04 Dec 2024 17:45

Tgt Ion: 83 Resp: 31896
 Ion Ratio Lower Upper
 83 100
 85 66.9 46.5 86.3





#29

Cyclohexane

Concen: 2.200 ug/L

RT: 7.959 min Scan# 995

Delta R.T. -0.000 min

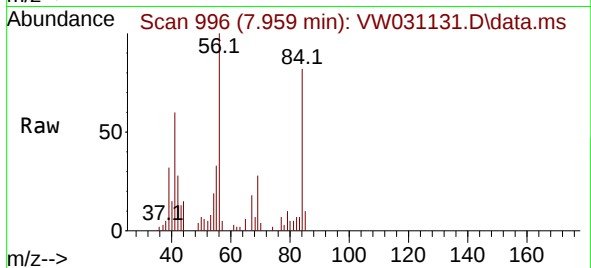
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Acq: 04 Dec 2024 17:45

Instrument :

MSVOA_W

ClientSampleId :



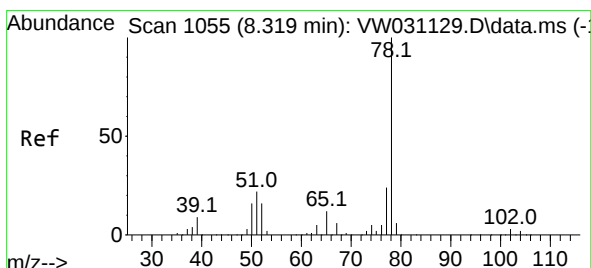
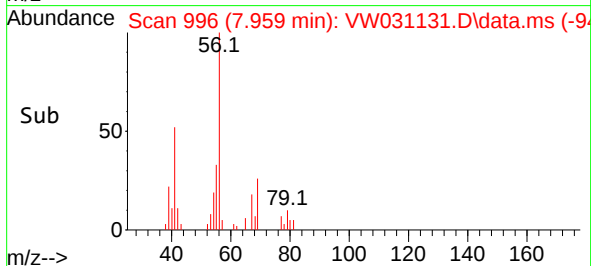
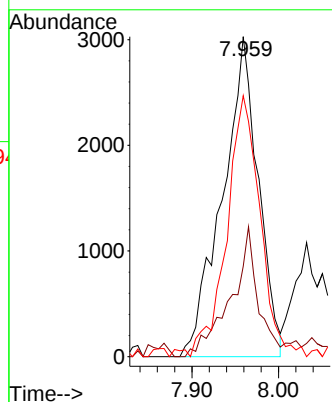
Tgt Ion: 56 Resp: 8716

Ion Ratio Lower Upper

56 100

69 30.7 25.4 38.2

84 71.5 71.1 106.7



#33

Benzene

Concen: 0.911 ug/L

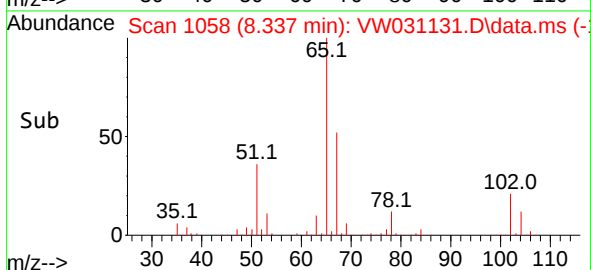
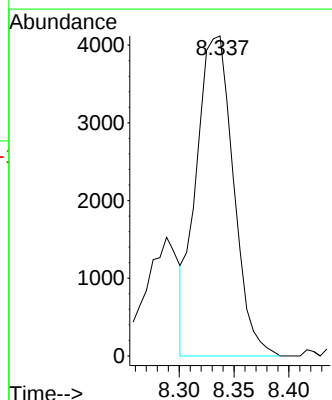
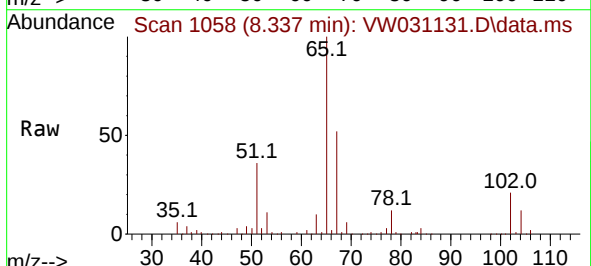
RT: 8.337 min Scan# 1058

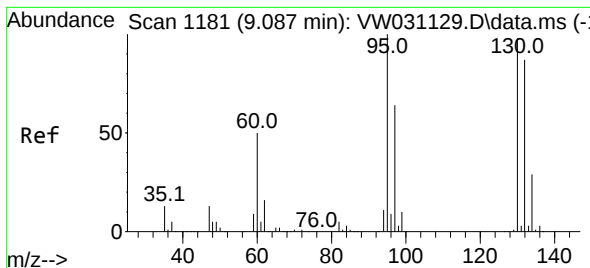
Delta R.T. 0.012 min

Lab File: VW031131.D

Acq: 04 Dec 2024 17:45

Tgt Ion: 78 Resp: 9701





#34

Trichloroethene

Concen: 148.019 ug/L

RT: 9.099 min Scan# 1183

Delta R.T. 0.012 min

Lab File: VW031131.D

Acq: 04 Dec 2024 17:45

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion: 95 Resp: 434659

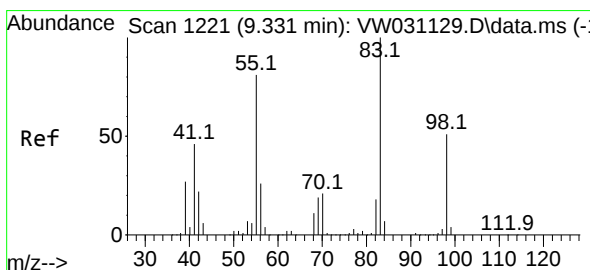
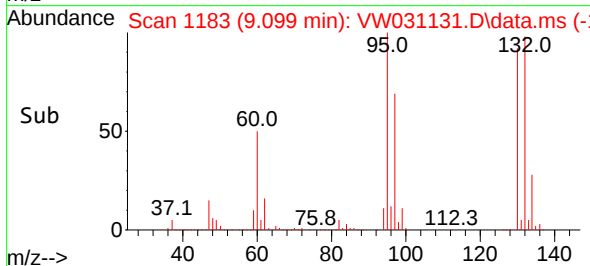
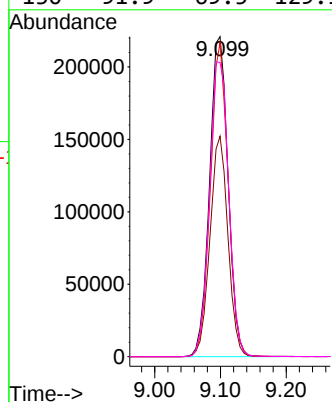
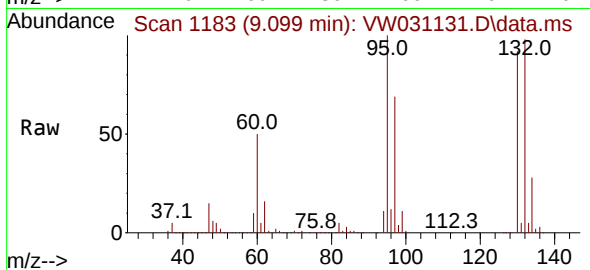
Ion Ratio Lower Upper

95 100

97 68.9 48.0 89.2

132 98.1 67.4 125.2

130 91.9 69.5 129.1



#35

Methylcyclohexane

Concen: 9.134 ug/L

RT: 9.337 min Scan# 1222

Delta R.T. 0.006 min

Lab File: VW031131.D

Acq: 04 Dec 2024 17:45

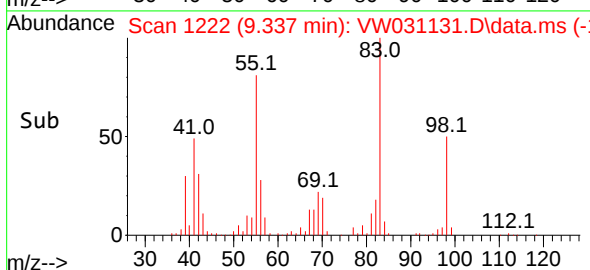
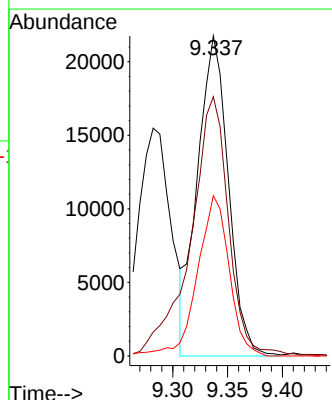
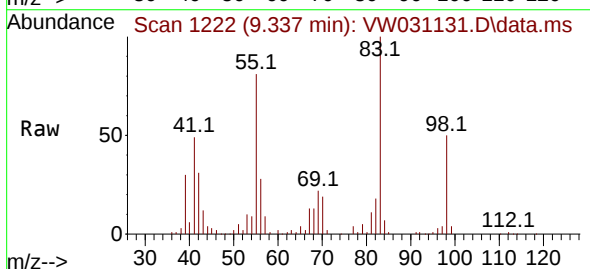
Tgt Ion: 83 Resp: 42679

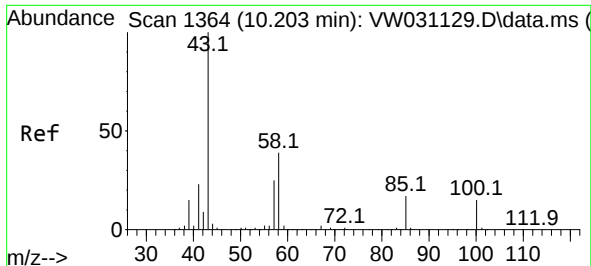
Ion Ratio Lower Upper

83 100

55 98.2 59.5 89.3#

98 51.6 38.7 58.1





#40

4-Methyl-2-pentanone

Concen: 1.720 ug/L

RT: 10.227 min Scan# 1368

Delta R.T. 0.018 min

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ClientSampleId :

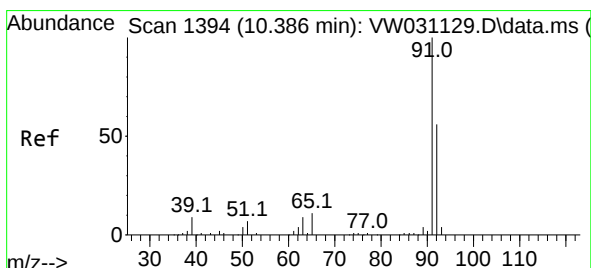
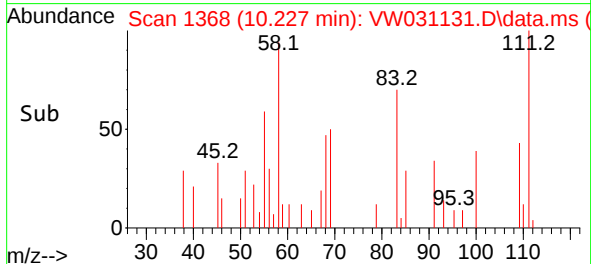
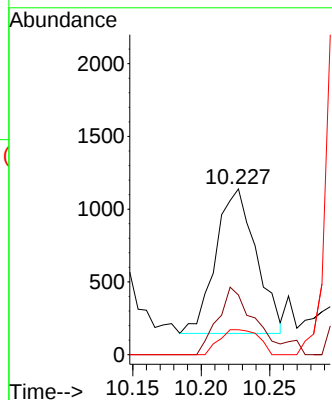
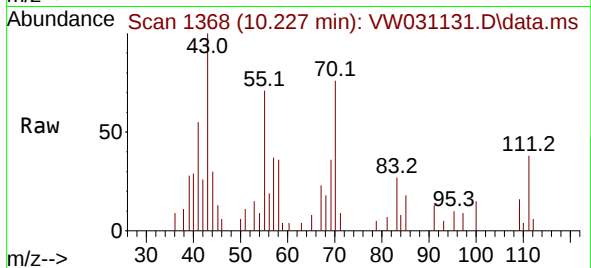
Tgt Ion: 43 Resp: 2040

Ion Ratio Lower Upper

43 100

58 41.8 33.7 50.5

100 16.7 14.2 21.2



#42

Toluene

Concen: 23.479 ug/L

RT: 10.392 min Scan# 1395

Delta R.T. 0.006 min

Lab File: VW031131.D

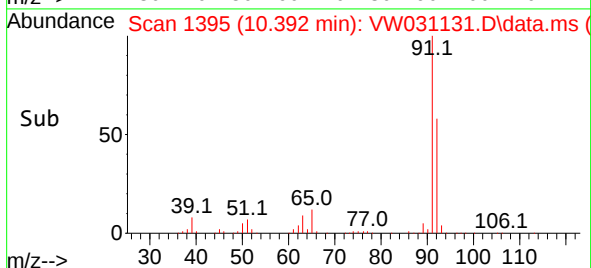
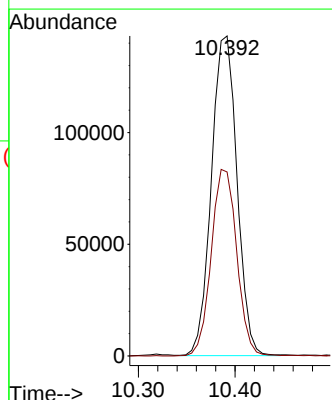
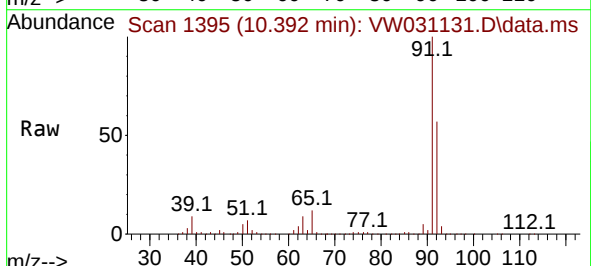
Acq: 04 Dec 2024 17:45

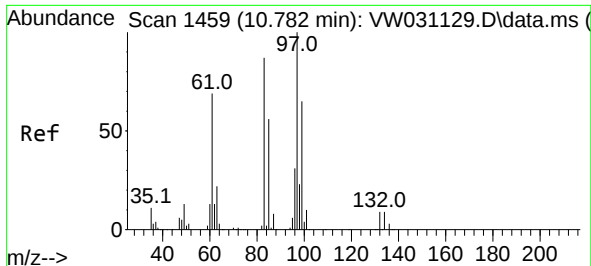
Tgt Ion: 91 Resp: 263302

Ion Ratio Lower Upper

91 100

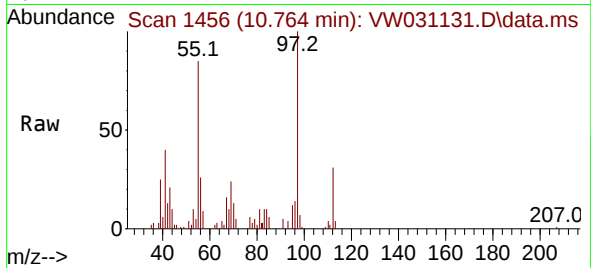
92 57.5 40.8 75.8



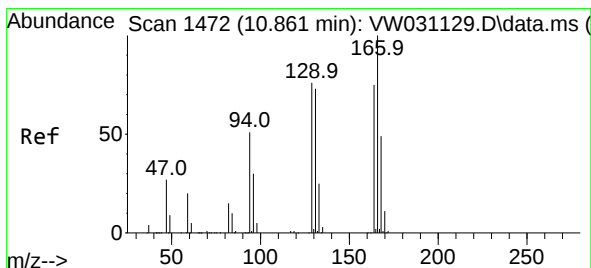
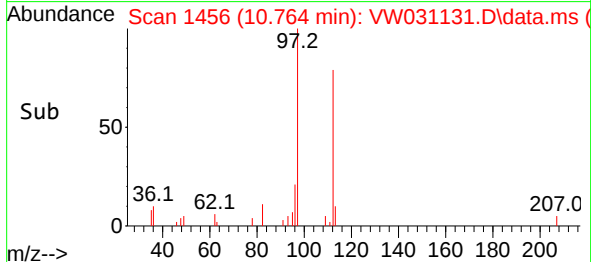
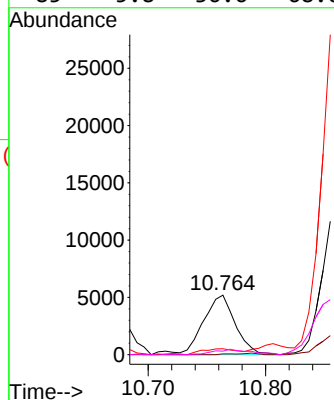


#45
1,1,2-Trichloroethane
Concen: 5.312 ug/L
RT: 10.764 min Scan# 1459
Delta R.T. -0.025 min
Lab File: VW031131.D
Acq: 04 Dec 2024 17:45

Instrument :
MSVOA_W
ClientSampleId :

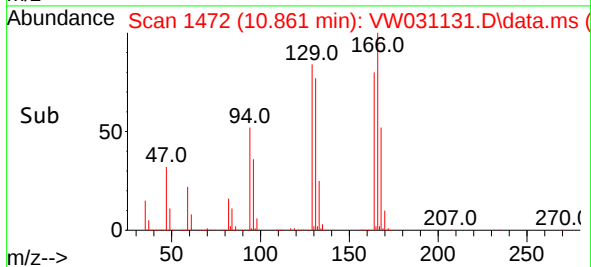
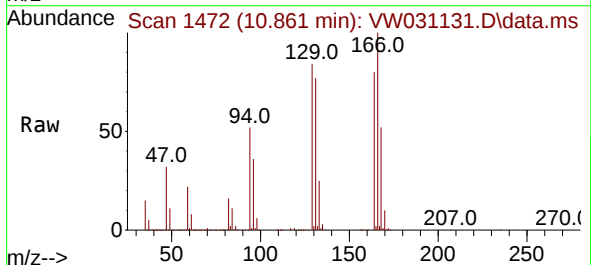
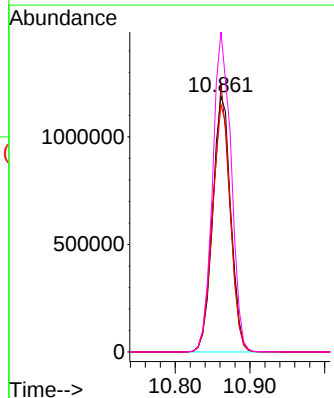


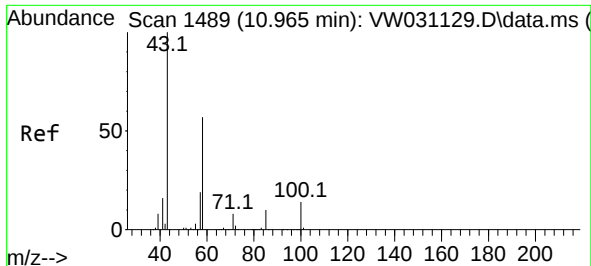
Tgt Ion: 97 Resp: 9667
Ion Ratio Lower Upper
97 100
99 1.3 42.4 78.8#
83 10.0 57.8 107.4#
85 5.8 36.6 68.0#



#46
Tetrachloroethene
Concen: 918.907 ug/L
RT: 10.861 min Scan# 1472
Delta R.T. -0.000 min
Lab File: VW031131.D
Acq: 04 Dec 2024 17:45

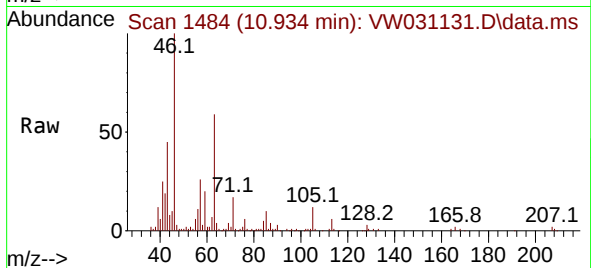
Tgt Ion:164 Resp: 2000359
Ion Ratio Lower Upper
164 100
129 104.9 61.9 114.9
131 96.7 67.9 126.1
166 125.3 85.8 159.3



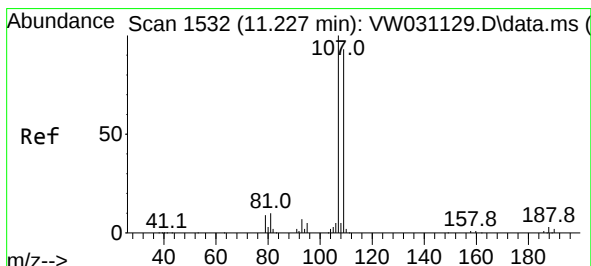
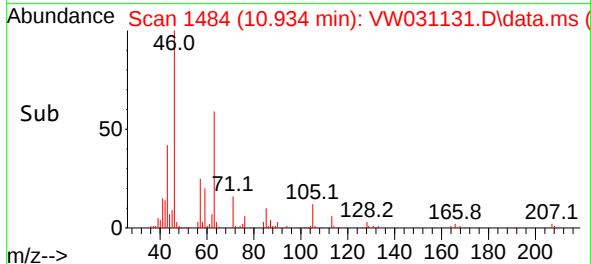
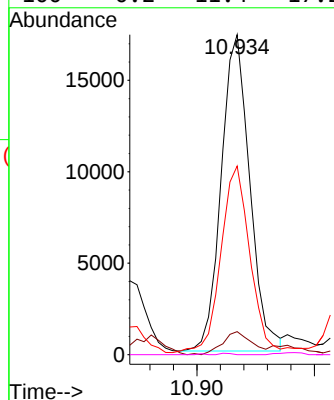


#48
2-Hexanone
Concen: 27.215 ug/L
RT: 10.934 min Scan# 1489
Delta R.T. -0.031 min
Lab File: VW031131.D
Acq: 04 Dec 2024 17:45

Instrument :
MSVOA_W
ClientSampleId :

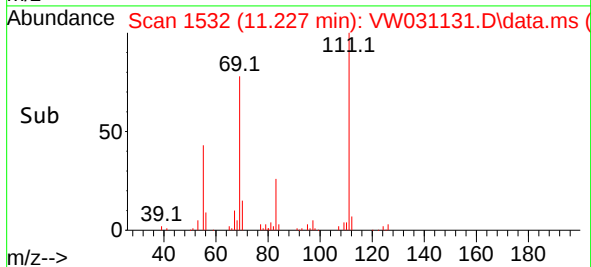
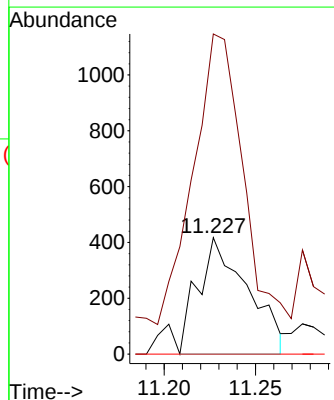
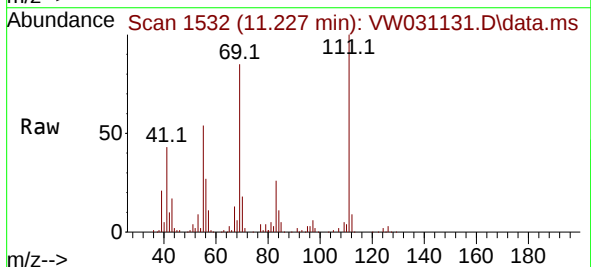


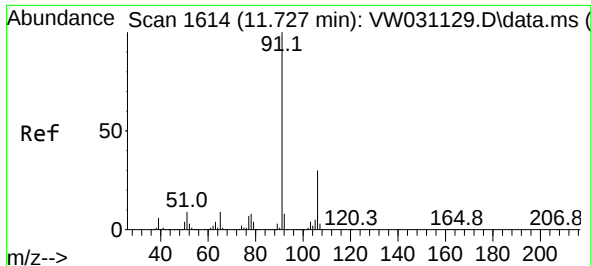
Tgt Ion: 43 Resp: 29199
Ion Ratio Lower Upper
43 100
58 7.4 49.8 74.6#
57 59.3 16.6 24.8#
100 0.2 11.4 17.2#



#50
1,2-Dibromoethane
Concen: 0.466 ug/L
RT: 11.227 min Scan# 1532
Delta R.T. -0.006 min
Lab File: VW031131.D
Acq: 04 Dec 2024 17:45

Tgt Ion: 107 Resp: 792
Ion Ratio Lower Upper
107 100
109 275.1 71.0 131.9#
188 0.0 3.0 4.4#

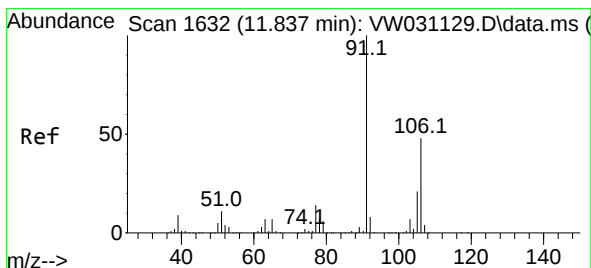
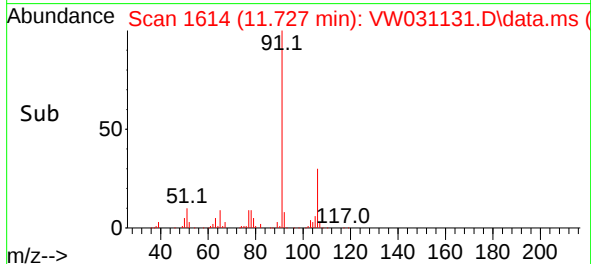
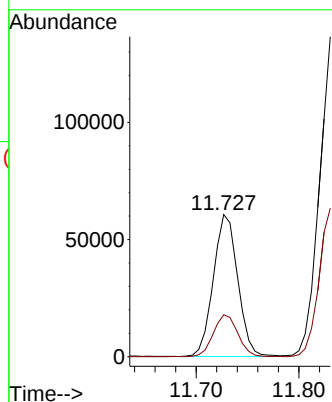
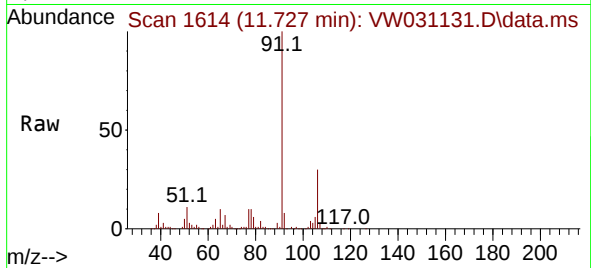




#52
Ethylbenzene
Concen: 7.869 ug/L
RT: 11.727 min Scan# 1614
Delta R.T. -0.000 min
Lab File: VW031131.D
Acq: 04 Dec 2024 17:45

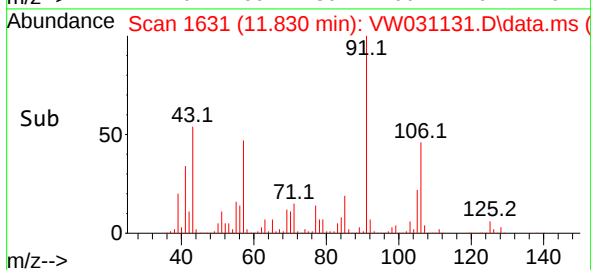
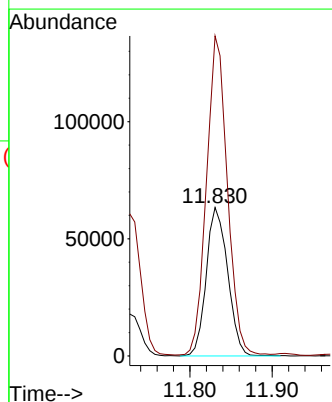
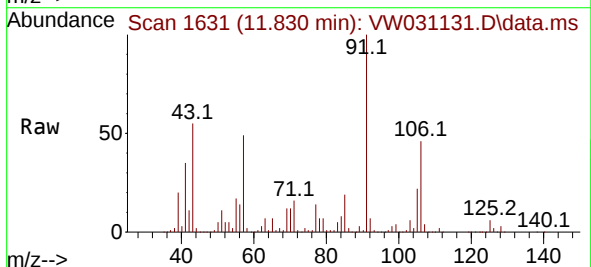
Instrument :
MSVOA_W
ClientSampleId :

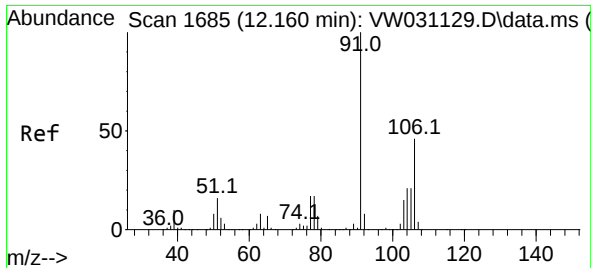
Tgt Ion: 91 Resp: 100005
Ion Ratio Lower Upper
91 100
106 29.6 21.3 39.5



#53
m,p-Xylene
Concen: 24.261 ug/L
RT: 11.830 min Scan# 1631
Delta R.T. -0.006 min
Lab File: VW031131.D
Acq: 04 Dec 2024 17:45

Tgt Ion:106 Resp: 114746
Ion Ratio Lower Upper
106 100
91 215.5 140.9 261.7

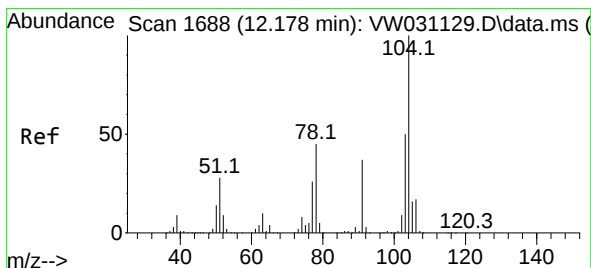
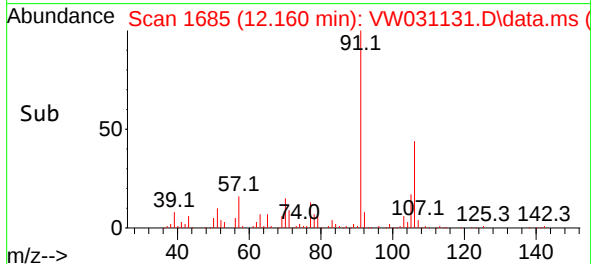
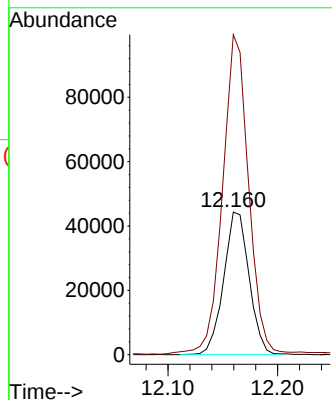
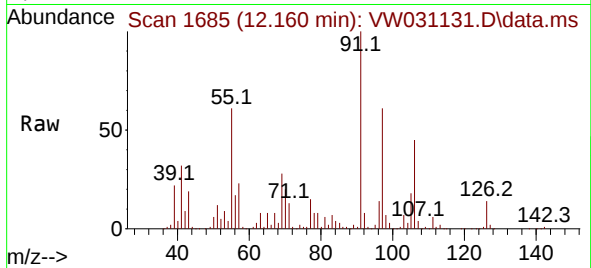




#54
o-Xylene
Concen: 16.221 ug/L
RT: 12.160 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VW031131.D
Acq: 04 Dec 2024 17:45

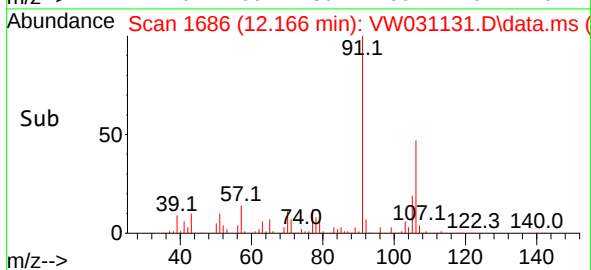
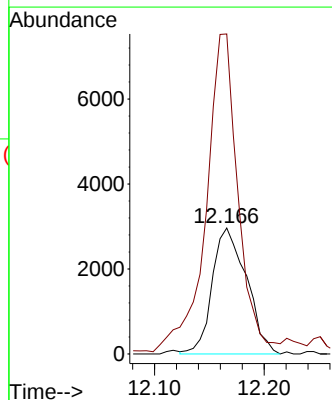
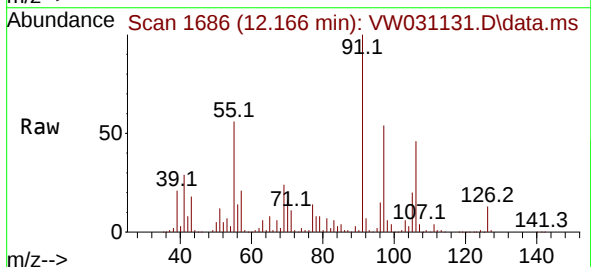
Instrument :
MSVOA_W
ClientSampleId :

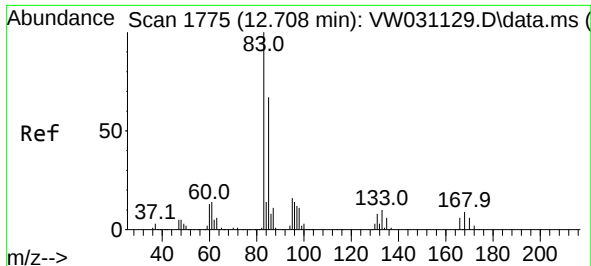
Tgt Ion:106 Resp: 71372
Ion Ratio Lower Upper
106 100
91 224.4 152.7 283.5



#55
Styrene
Concen: 0.870 ug/L
RT: 12.166 min Scan# 1686
Delta R.T. -0.012 min
Lab File: VW031131.D
Acq: 04 Dec 2024 17:45

Tgt Ion:104 Resp: 6443
Ion Ratio Lower Upper
104 100
78 254.3 30.2 56.0#





#57

1,1,2,2-Tetrachloroethane

Concen: 2.286 ug/L

RT: 12.739 min Scan# 1

Delta R.T. 0.030 min

Lab File: VW031131.D

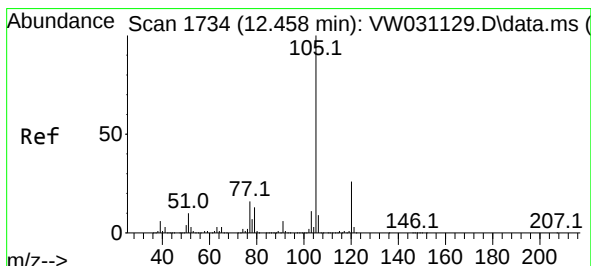
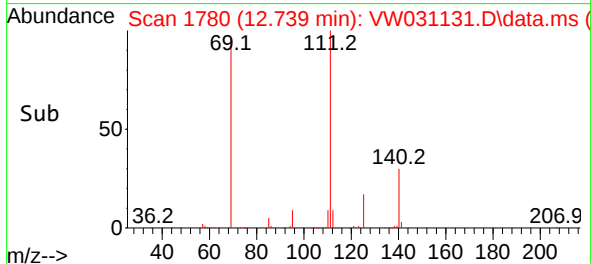
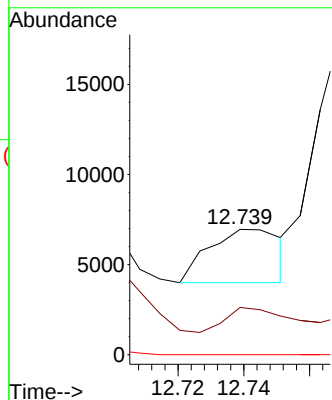
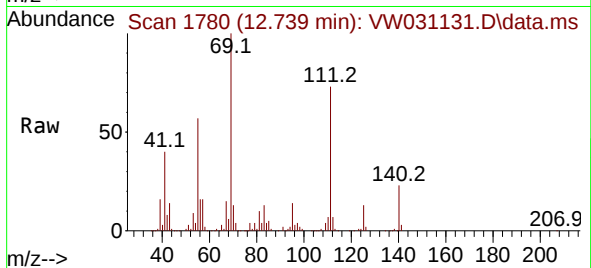
Acq: 04 Dec 2024 17:45

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion: 83	Resp: 4507
Ion Ratio	Lower Upper
83	100
85	37.7 48.3 89.7#
131	0.0 8.9 13.3#



#60

Isopropylbenzene

Concen: 20.227 ug/L

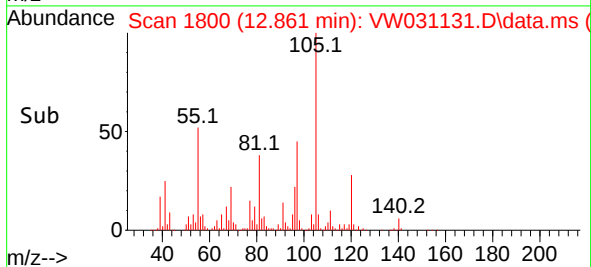
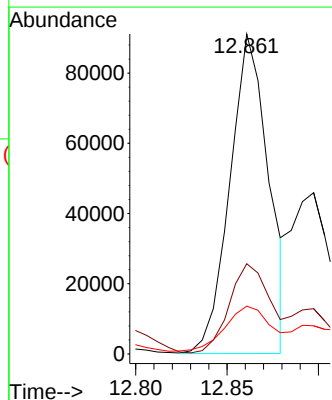
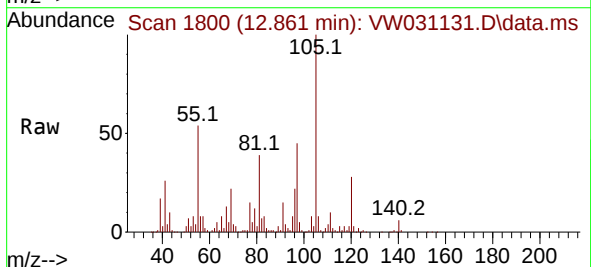
RT: 12.861 min Scan# 1800

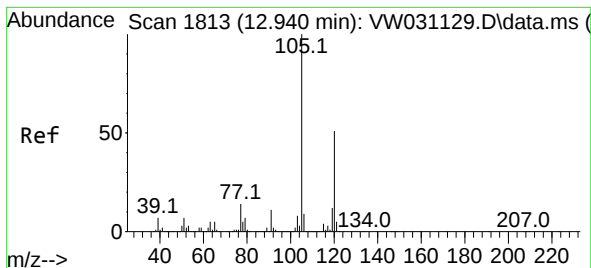
Delta R.T. 0.402 min

Lab File: VW031131.D

Acq: 04 Dec 2024 17:45

Tgt Ion: 105	Resp: 134206
Ion Ratio	Lower Upper
105	100
120	29.7 21.5 32.3
77	16.3 12.3 18.5





#62

1,3,5-Trimethylbenzene

Concen: 23.608 ug/L

RT: 12.940 min Scan# 1813

Delta R.T. -0.000 min

Lab File: VW031131.D

Acq: 04 Dec 2024 17:45

Instrument :

MSVOA_W

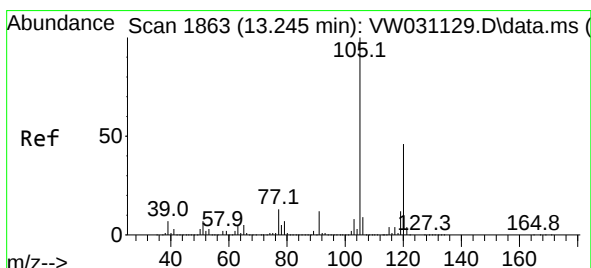
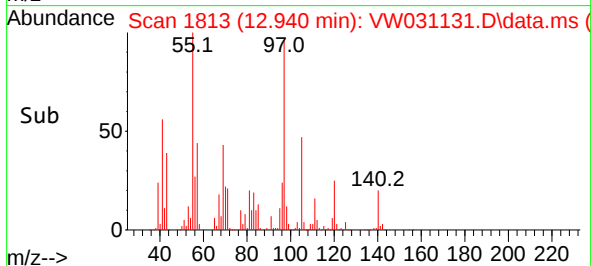
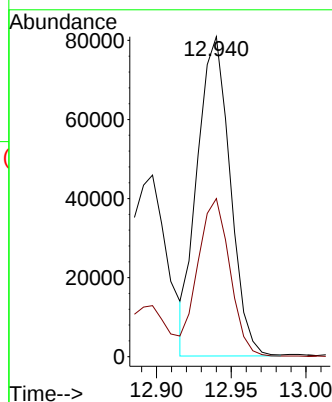
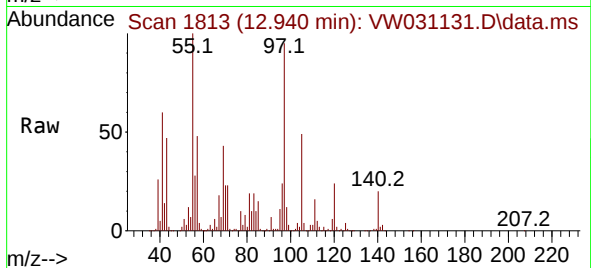
ClientSampleId :

Tgt Ion:105 Resp: 123343

Ion Ratio Lower Upper

105 100

120 48.1 40.5 60.7



#63

1,2,4-Trimethylbenzene

Concen: 65.600 ug/L

RT: 13.245 min Scan# 1863

Delta R.T. -0.000 min

Lab File: VW031131.D

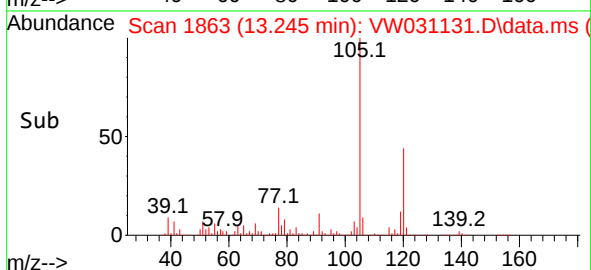
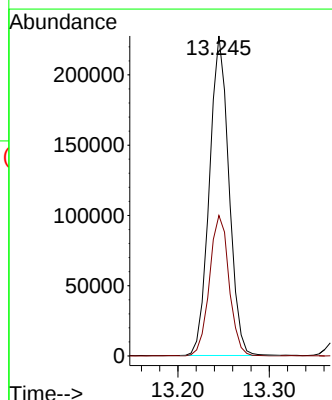
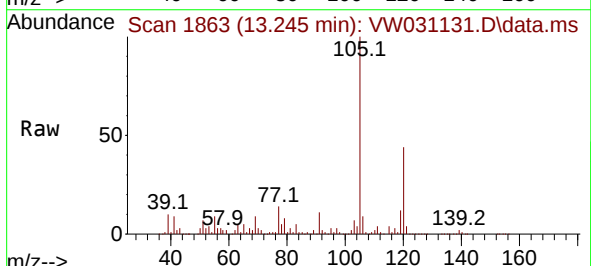
Acq: 04 Dec 2024 17:45

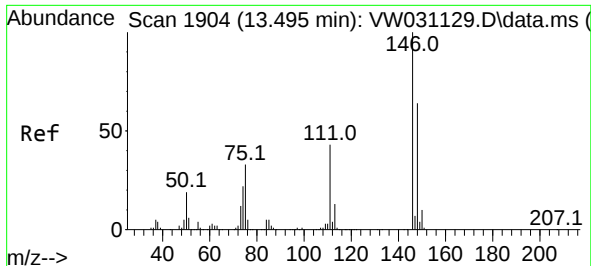
Tgt Ion:105 Resp: 336684

Ion Ratio Lower Upper

105 100

120 44.0 35.4 53.0

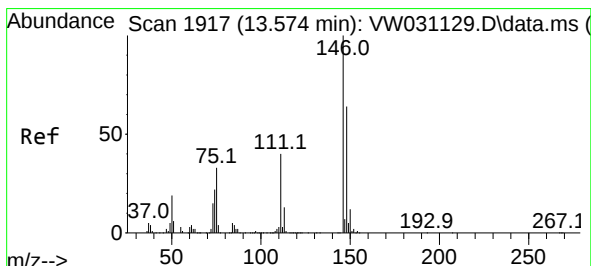
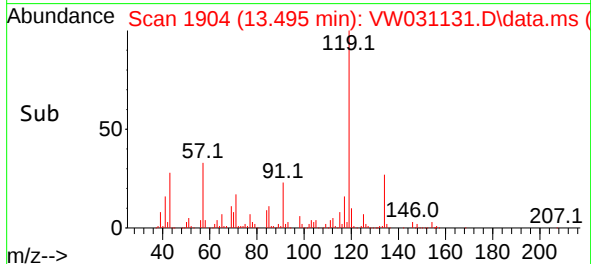
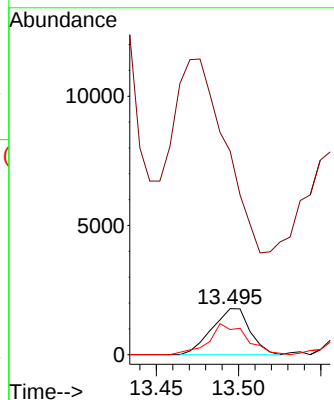
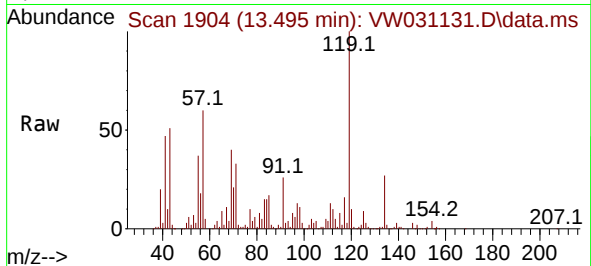




#64
1,3-Dichlorobenzene
Concen: 0.992 ug/L
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW031131.D
Acq: 04 Dec 2024 17:45

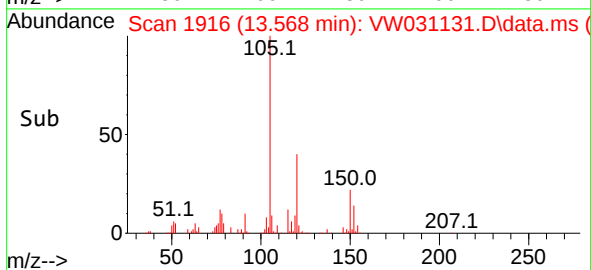
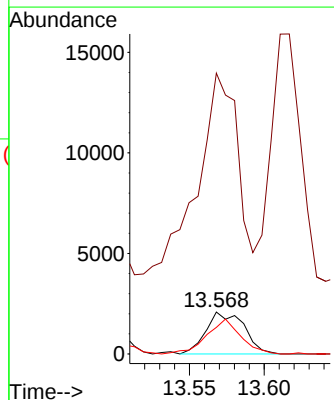
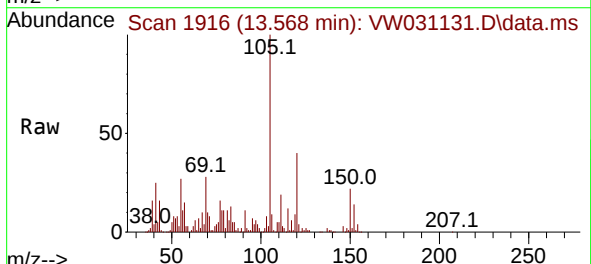
Instrument :
MSVOA_W
ClientSampleId :

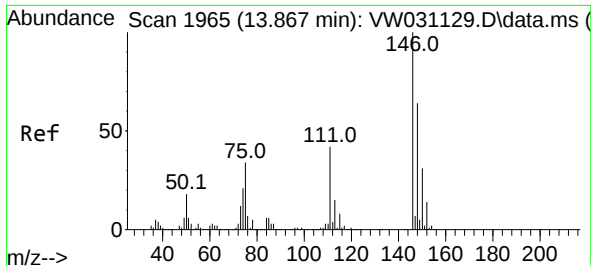
Tgt Ion:146 Resp: 2869
Ion Ratio Lower Upper
146 100
111 442.5 28.5 52.9#
148 54.7 44.1 81.9



#65
1,4-Dichlorobenzene
Concen: 1.263 ug/L
RT: 13.568 min Scan# 1916
Delta R.T. -0.006 min
Lab File: VW031131.D
Acq: 04 Dec 2024 17:45

Tgt Ion:146 Resp: 3692
Ion Ratio Lower Upper
146 100
111 670.9 26.6 49.4#
148 63.5 42.1 78.1





#67

1,2-Dichlorobenzene

Concen: 0.807 ug/L

RT: 13.867 min Scan# 1965

Delta R.T. -0.000 min

Lab File: VW031131.D

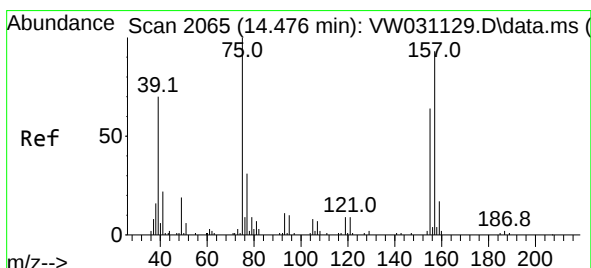
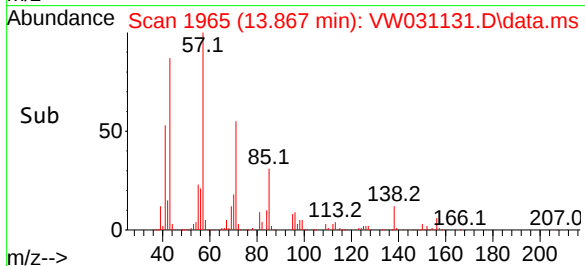
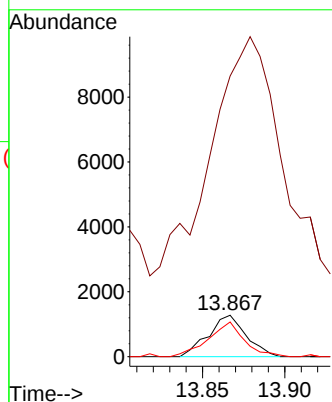
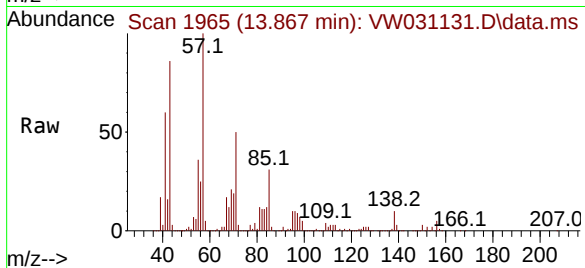
Acq: 04 Dec 2024 17:45

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion:	146	Resp:	2043
Ion	Ratio	Lower	Upper
146	100		
111	678.5	30.9	46.3#
148	84.1	50.0	75.0#



#68

1,2-Dibromo-3-chloropropane

Concen: 18.812 ug/L

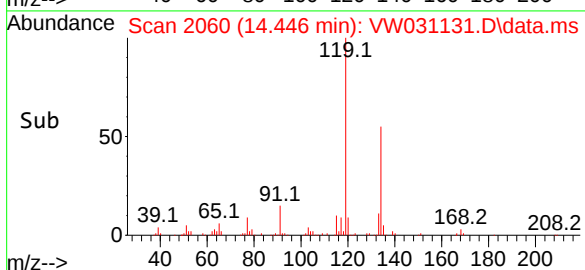
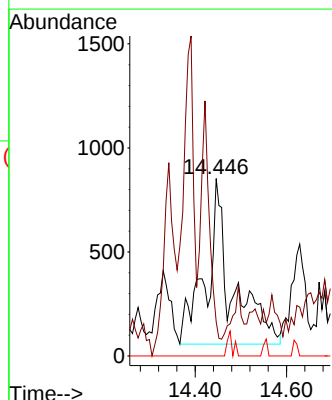
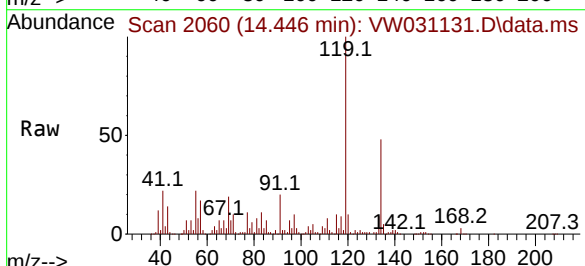
RT: 14.446 min Scan# 2060

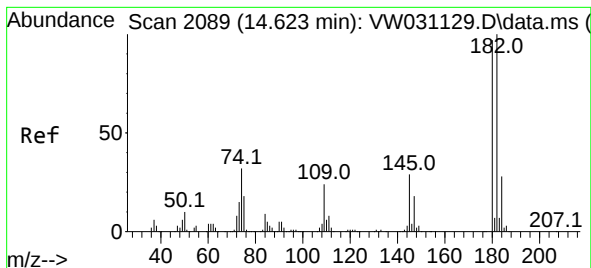
Delta R.T. -0.031 min

Lab File: VW031131.D

Acq: 04 Dec 2024 17:45

Tgt Ion:	75	Resp:	3137
Ion	Ratio	Lower	Upper
75	100		
155	19.2	63.1	94.7#
157	0.0	82.1	123.1#





#69

1,3,5-Trichlorobenzene

Concen: 1.186 ug/L

RT: 14.629 min Scan# 2089

Delta R.T. 0.006 min

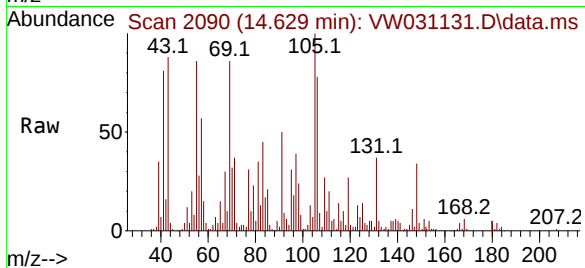
Lab File: VW031131.D

Acq: 04 Dec 2024 17:45

Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion:180 Resp: 2332

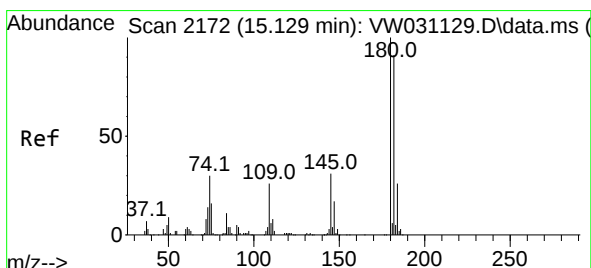
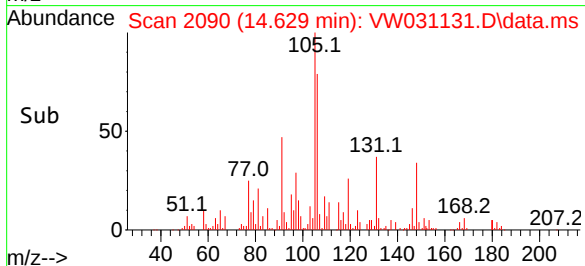
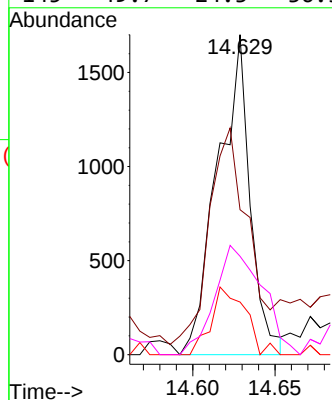
Ion Ratio Lower Upper

180 100

182 79.2 78.2 117.2

184 21.6 24.0 36.0#

145 49.7 24.3 36.5#



#70

1,2,4-trichlorobenzene

Concen: 2.528 ug/L

RT: 15.123 min Scan# 2171

Delta R.T. -0.000 min

Lab File: VW031131.D

Acq: 04 Dec 2024 17:45

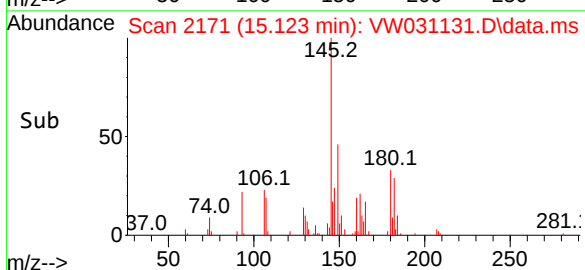
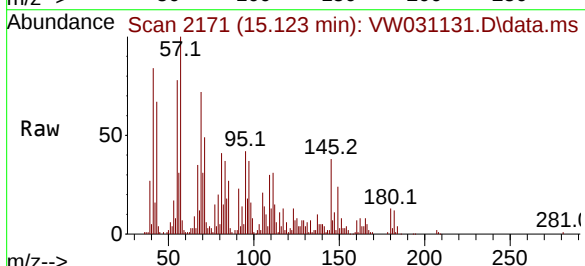
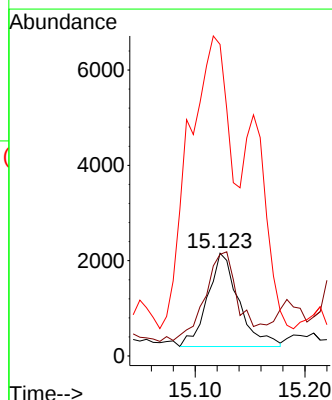
Tgt Ion:180 Resp: 3897

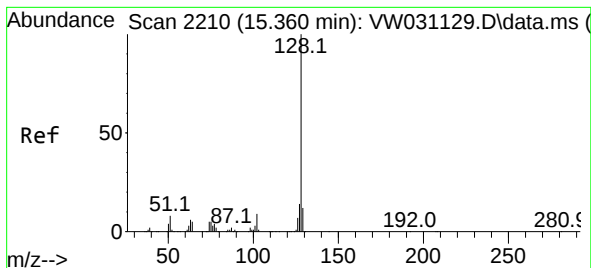
Ion Ratio Lower Upper

180 100

182 96.3 76.1 114.1

145 330.2 25.7 38.5#





#71

Naphthalene

Concen: 31.478 ug/L

RT: 15.354 min Scan# 21

Delta R.T. -0.006 min

Lab File: VW031131.D

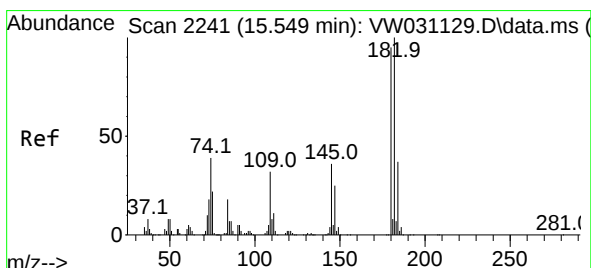
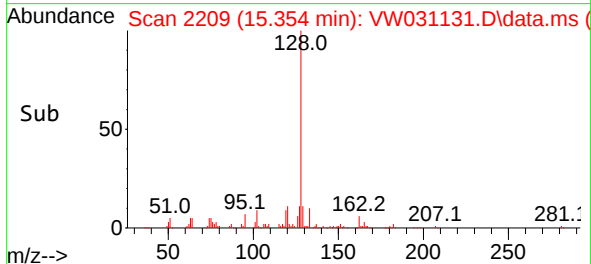
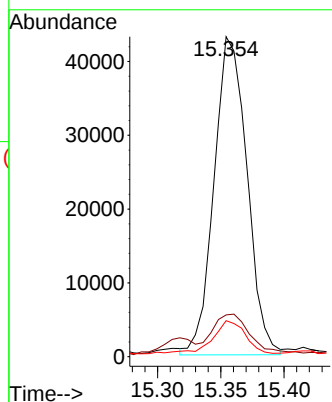
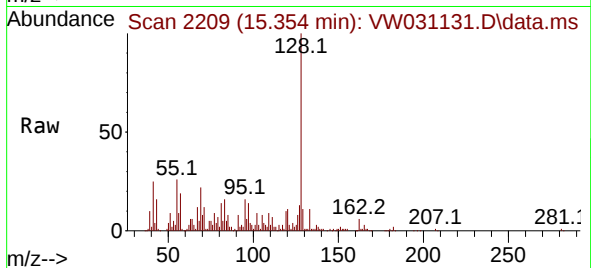
Acq: 04 Dec 2024 17:45

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion:	128	Resp:	78178
Ion Ratio	Lower	Upper	
128	100		
127	14.0	10.4	15.6
129	9.3	8.3	12.5



#72

1,2,3-Trichlorobenzene

Concen: 1.055 ug/L

RT: 15.616 min Scan# 2252

Delta R.T. 0.067 min

Lab File: VW031131.D

Acq: 04 Dec 2024 17:45

Tgt Ion:	180	Resp:	1392
Ion Ratio	Lower	Upper	
180	100		
182	92.2	78.7	118.1
145	32.9	26.3	39.5

