

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW110821\
 Data File : VW020805.D
 Acq On : 08 Nov 2021 12:54
 Operator : SY/VA
 Sample : M4464-10
 Misc : 3.25g/10.0mL/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Nov 09 07:10:59 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	187883	25.000	ug/L	0.00
28) Chlorobenzene-d5		11.628	117	168813	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4		13.554	152	72896	25.000	ug/L	0.00
System Monitoring Compounds							
4) Vinyl Chloride-d3		2.349	65	53132	30.077	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	= 120.320%		
7) Chloroethane-d5		2.879	69	30473	30.295	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	= 121.200%		
11) 1,1-Dichloroethene-d2		4.025	63	114118	30.777	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	= 123.120%#		
21) 2-Butanone-d5		7.086	46	28354	48.331	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	= 96.660%		
24) Chloroform-d		7.647	84	100471	24.067	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	= 96.280%		
26) 1,2-Dichloroethane-d4		8.305	65	54154	24.367	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	= 97.480%		
32) Benzene-d6		8.275	84	204397	26.799	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	= 107.200%		
36) 1,2-Dichloropropane-d6		9.275	67	60869	25.777	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	= 103.120%		
41) Toluene-d8		10.323	98	206319	27.805	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	= 111.200%		
43) trans-1,3-Dichloroprop...		10.579	79	30330	25.896	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	= 103.600%		
47) 2-Hexanone-d5		10.921	63	24022	50.277	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	= 201.120%#		
56) 1,1,2,2-Tetrachloroeth...		12.689	84	45777	23.391	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	= 93.560%		
66) 1,2-Dichlorobenzene-d4		13.853	152	60627	26.465	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	= 105.840%		
Target Compounds							Qvalue
2) Dichlorodifluoromethane		2.008	85	697	0.910	ug/L	100
5) Vinyl chloride		2.355	62	6631	2.293	ug/L #	41
10) 1,1,2-Trichloro-1,2,2-...		4.050	101	16435	6.516	ug/L #	82
12) 1,1-Dichloroethene		4.044	96	95325	39.657	ug/L #	70
13) Acetone		4.117	43	41019	75.130	ug/L	92
14) Carbon disulfide		4.385	76	14422	1.988	ug/L #	94
17) trans-1,2-Dichloroethene		5.422	96	30857	12.076	ug/L	89
19) 1,1-Dichloroethane		6.214	63	1248039	282.023	ug/L	99
20) cis-1,2-Dichloroethene		7.165	96	9014379	3346.734	ug/L #	63
22) 2-Butanone		7.177	43	11099	15.299	ug/L #	1
27) 1,2-Dichloroethane		8.403	62	7132	2.391	ug/L #	91
29) Cyclohexane		7.952	56	2770	0.629	ug/L	95
30) 1,1,1-Trichloroethane		7.872	97	139242	34.709	ug/L	95
31) Carbon tetrachloride		7.872	117	18409	4.822	ug/L	100
33) Benzene		8.323	78	63374	6.268	ug/L	100
34) Trichloroethene		9.092	95	205529	76.372	ug/L	95
35) Methylcyclohexane		9.329	83	2893	0.616	ug/L	97
39) cis-1,3-Dichloropropene		10.037	75	2432	0.624	ug/L #	77
40) 4-Methyl-2-pentanone		10.213	43	36990	23.645	ug/L #	94

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

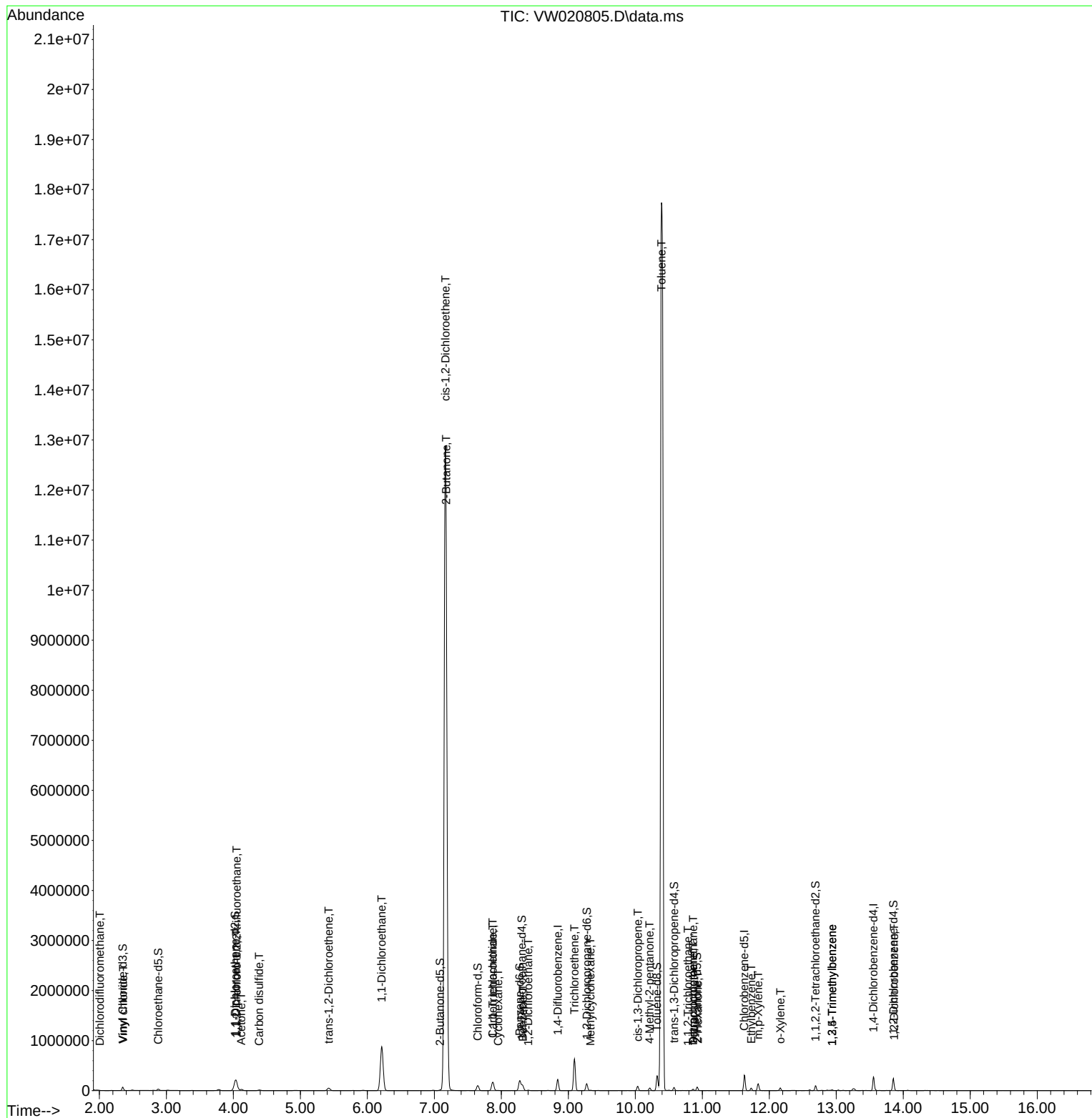
42) Toluene	10.390	91	17630981	1621.711	ug/L	88
45) 1,1,2-Trichloroethane	10.786	97	1337	0.753	ug/L	89
46) Tetrachloroethene	10.866	164	5980	2.477	ug/L	96
48) 2-Hexanone	10.933	43	6927	6.064	ug/L #	55
49) Dibromochloromethane	10.866	129	5306	2.187	ug/L #	10
52) Ethylbenzene	11.731	91	35438	2.909	ug/L	100
53) m,p-Xylene	11.835	106	39810	8.157	ug/L	97
54) o-Xylene	12.164	106	14293	3.092	ug/L	94
62) 1,3,5-Trimethylbenzene	12.938	105	4412	0.511	ug/L	93
63) 1,2,4-Trimethylbenzene	12.938	105	4412	0.514	ug/L	88
67) 1,2-Dichlorobenzene	13.865	146	3387	0.823	ug/L	94

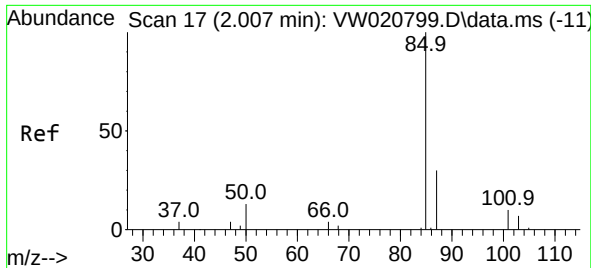
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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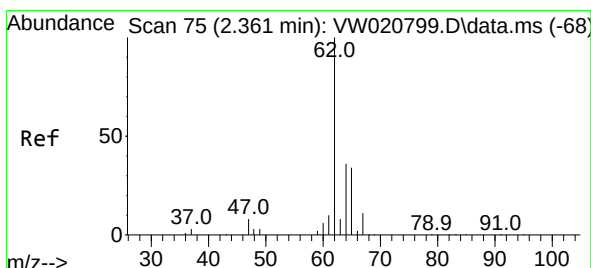
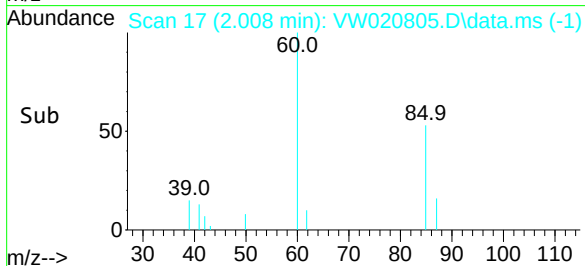
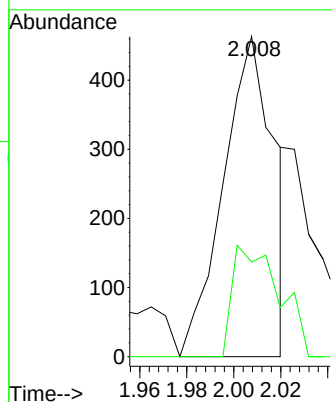
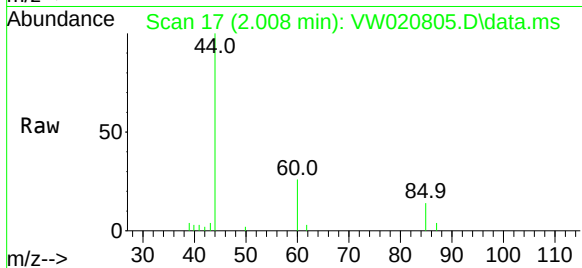




#2
 Dichlorodifluoromethane
 Concen: 0.910 ug/L
 RT: 2.008 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VW020805.D
 Acq: 08 Nov 2021 12:54

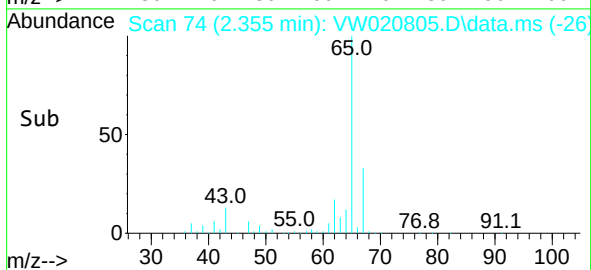
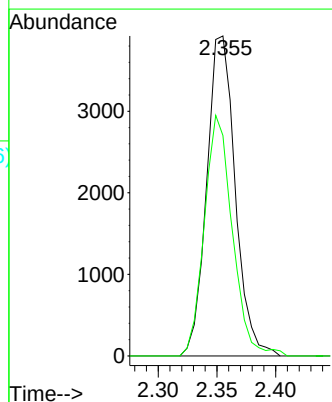
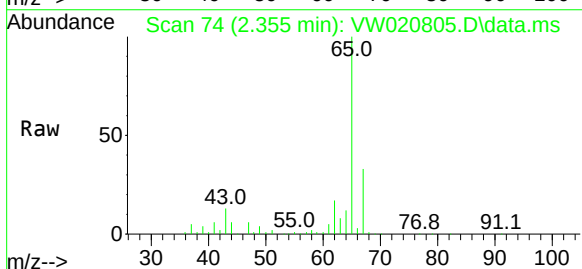
Instrument :
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 ClientSampleId :

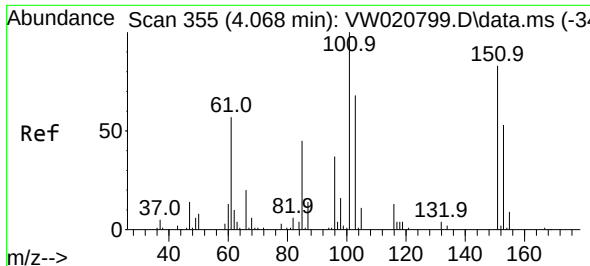
Tgt Ion: 85 Resp: 697
 Ion Ratio Lower Upper
 85 100
 87 32.0 25.8 38.6



#5
 Vinyl chloride
 Concen: 2.293 ug/L
 RT: 2.355 min Scan# 74
 Delta R.T. -0.006 min
 Lab File: VW020805.D
 Acq: 08 Nov 2021 12:54

Tgt Ion: 62 Resp: 6631
 Ion Ratio Lower Upper
 62 100
 64 68.9 24.4 45.2#

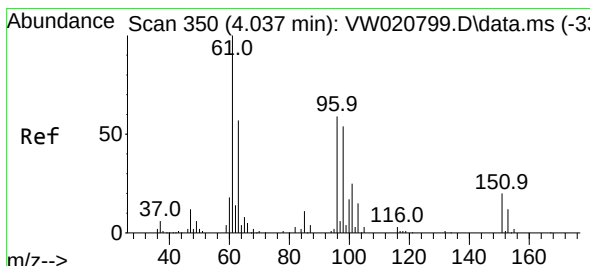
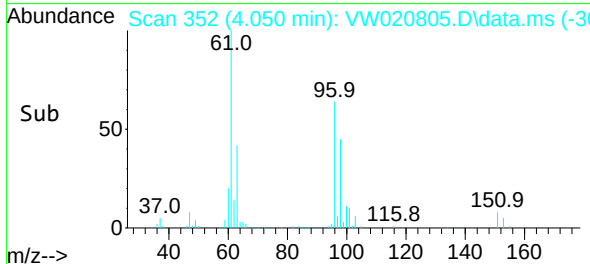
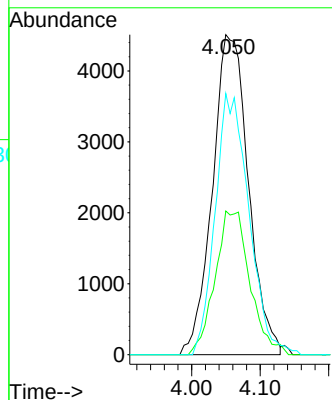
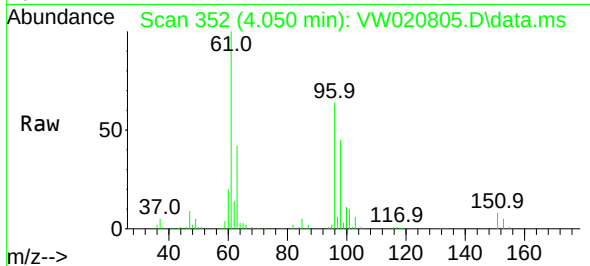




#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 6.516 ug/L
 RT: 4.050 min Scan# 31
 Delta R.T. -0.018 min
 Lab File: VW020805.D
 Acq: 08 Nov 2021 12:54

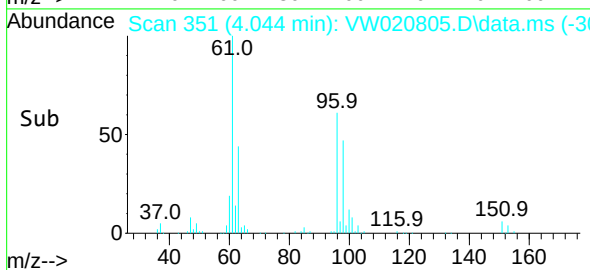
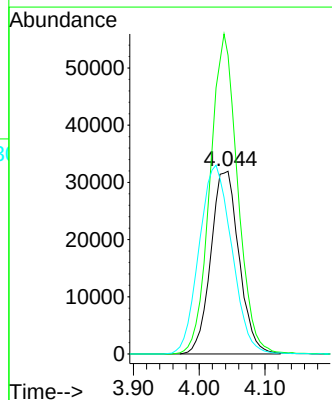
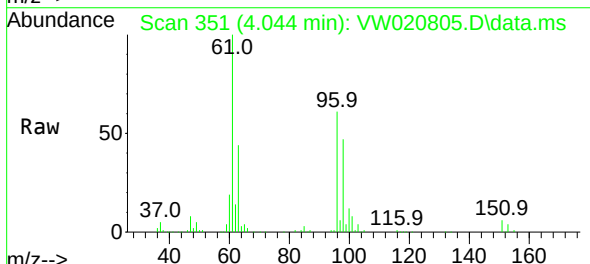
Instrument :
 MSVOA_W
 ClientSampleId :

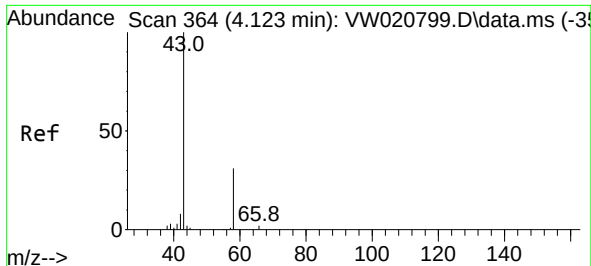
Tgt Ion:101 Resp: 16435
 Ion Ratio Lower Upper
 101 100
 85 20.9 36.6 54.8#
 151 76.7 57.4 86.0



#12
 1,1-Dichloroethene
 Concen: 39.657 ug/L
 RT: 4.044 min Scan# 351
 Delta R.T. 0.006 min
 Lab File: VW020805.D
 Acq: 08 Nov 2021 12:54

Tgt Ion: 96 Resp: 95325
 Ion Ratio Lower Upper
 96 100
 61 163.4 138.3 256.9
 63 71.1 82.6 153.4#

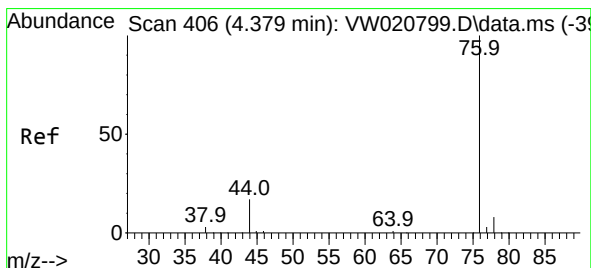
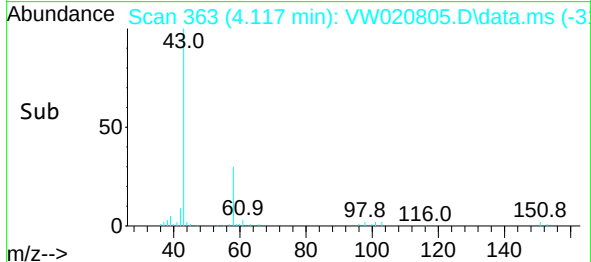
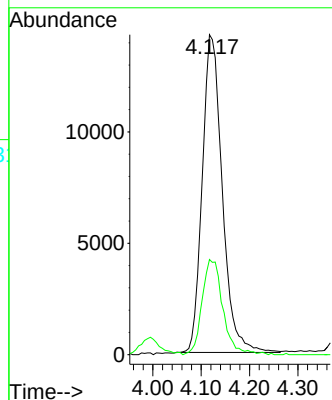
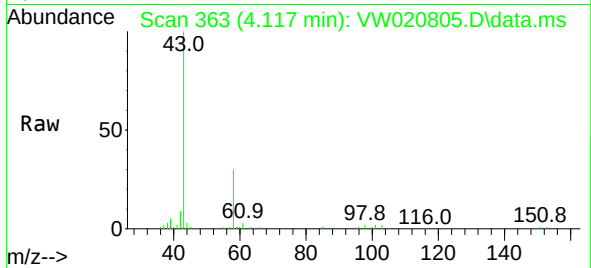




#13
Acetone
Concen: 75.130 ug/L
RT: 4.117 min Scan# 30
Delta R.T. -0.006 min
Lab File: VW020805.D
Acq: 08 Nov 2021 12:54

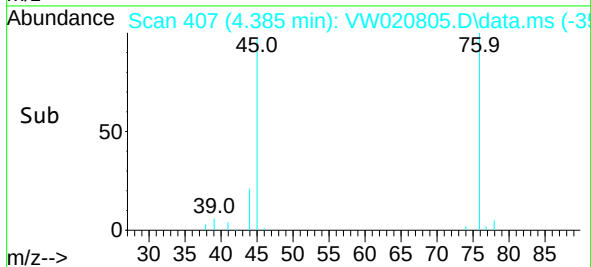
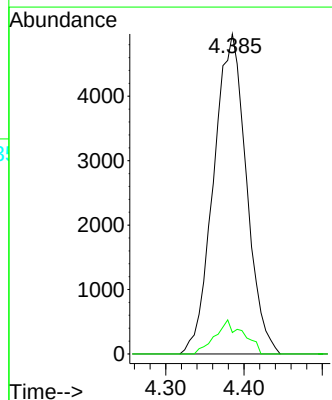
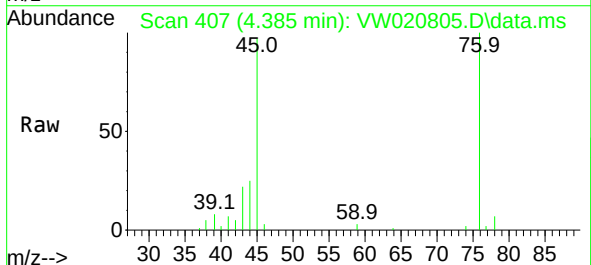
Instrument :
MSVOA_W
ClientSampleId :

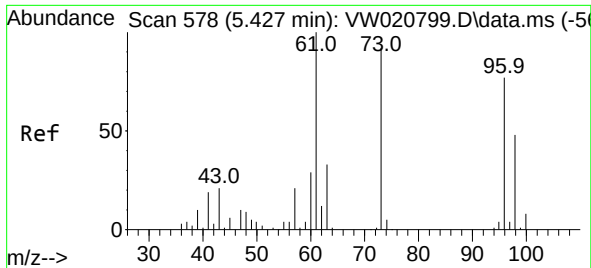
Tgt Ion: 43 Resp: 41019
Ion Ratio Lower Upper
43 100
58 30.4 0.0 52.8



#14
Carbon disulfide
Concen: 1.988 ug/L
RT: 4.385 min Scan# 407
Delta R.T. 0.000 min
Lab File: VW020805.D
Acq: 08 Nov 2021 12:54

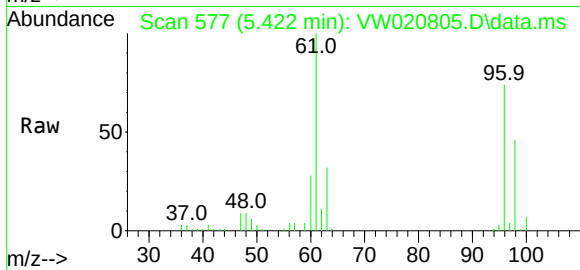
Tgt Ion: 76 Resp: 14422
Ion Ratio Lower Upper
76 100
78 6.7 7.1 10.7#



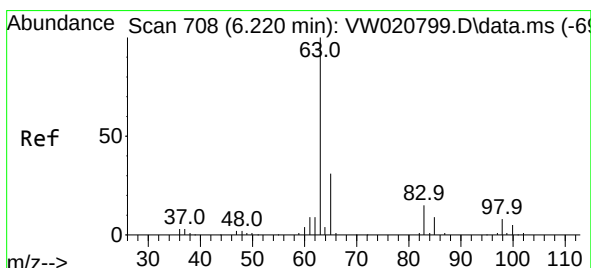
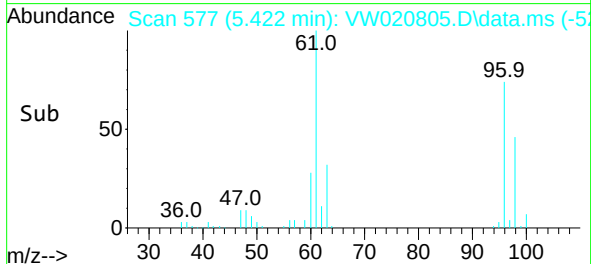
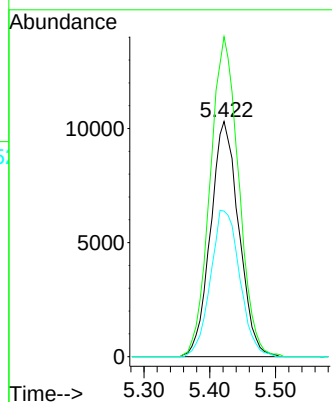


#17
trans-1,2-Dichloroethene
Concen: 12.076 ug/L
RT: 5.422 min Scan# 51
Delta R.T. -0.006 min
Lab File: VW020805.D
Acq: 08 Nov 2021 12:54

Instrument :
MSVOA_W
ClientSampleId :

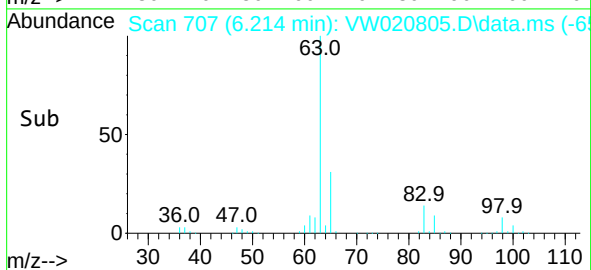
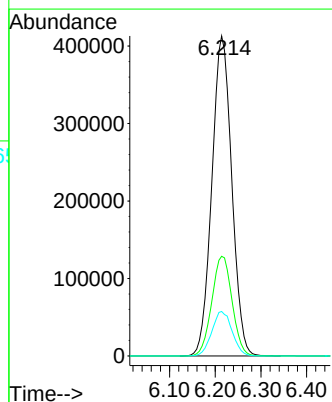
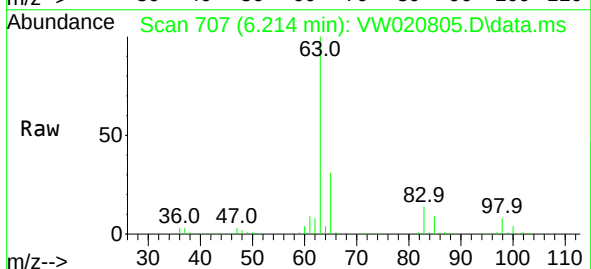


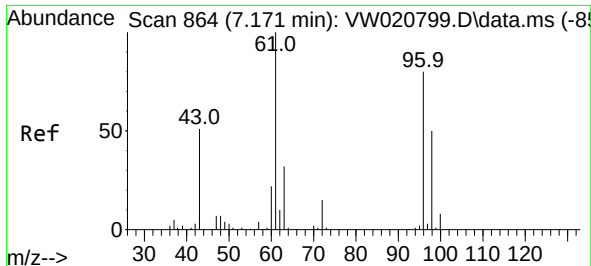
Tgt Ion: 96 Resp: 30857
Ion Ratio Lower Upper
96 100
61 136.0 107.4 199.4
98 61.9 41.2 76.6



#19
1,1-Dichloroethane
Concen: 282.023 ug/L
RT: 6.214 min Scan# 707
Delta R.T. -0.006 min
Lab File: VW020805.D
Acq: 08 Nov 2021 12:54

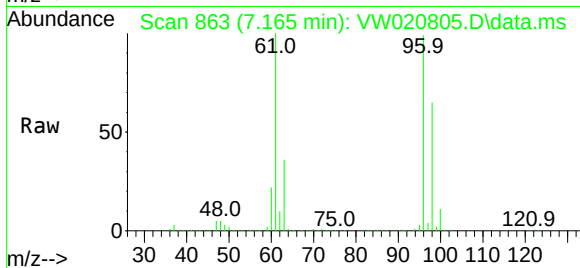
Tgt Ion: 63 Resp: 1248039
Ion Ratio Lower Upper
63 100
65 31.1 22.1 41.1
83 13.9 9.2 17.2





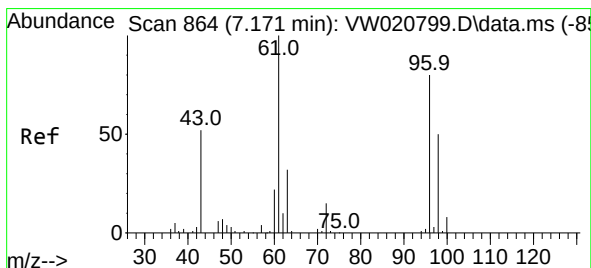
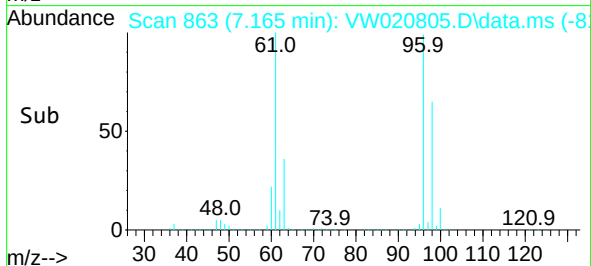
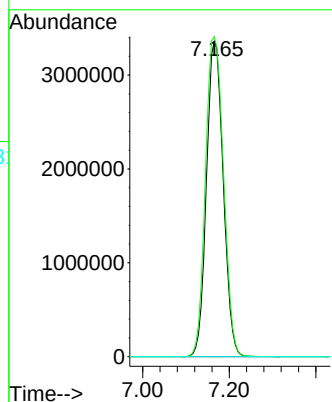
#20
 cis-1,2-Dichloroethene
 Concen: 3346.734 ug/L
 RT: 7.165 min Scan# 80
 Delta R.T. -0.006 min
 Lab File: VW020805.D
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Instrument :
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Tgt Ion: 96 Resp: 9014379

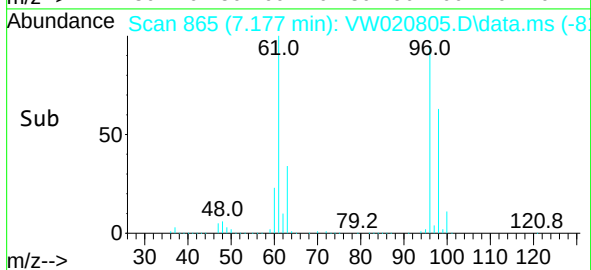
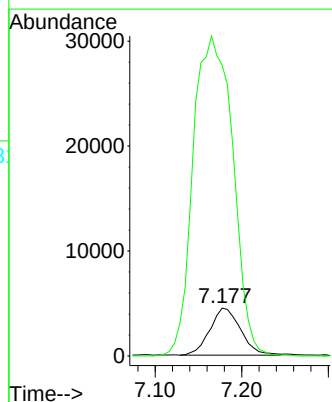
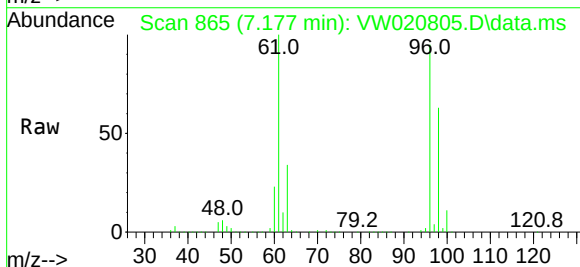
Ion	Ratio	Lower	Upper
96	100		
61	101.4	103.7	192.7#
68	0.0	0.0	0.0#

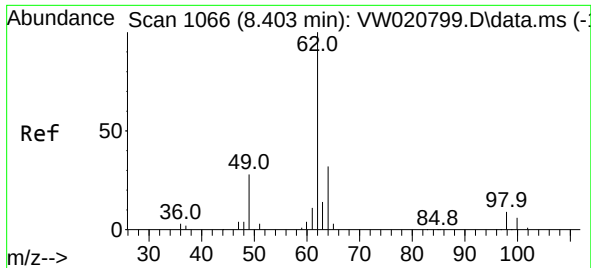


#22
 2-Butanone
 Concen: 15.299 ug/L
 RT: 7.177 min Scan# 865
 Delta R.T. 0.006 min
 Lab File: VW020805.D
 Acq: 08 Nov 2021 12:54

Tgt Ion: 43 Resp: 11099

Ion	Ratio	Lower	Upper
43	100		
72	875.5	11.8	35.4#

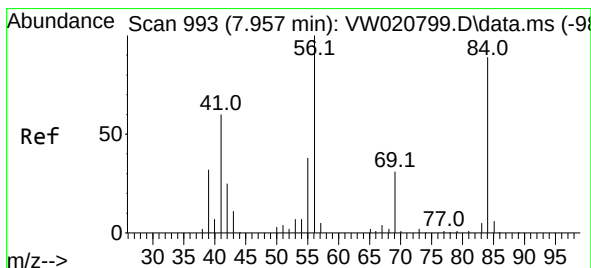
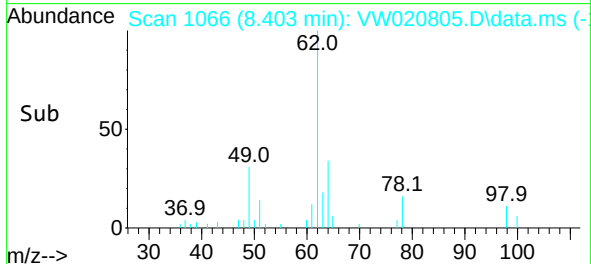
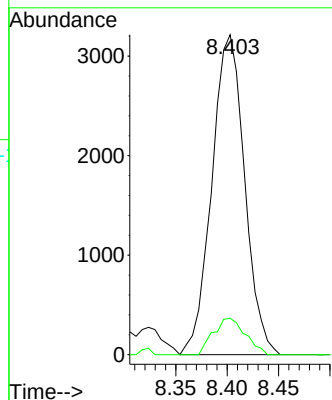
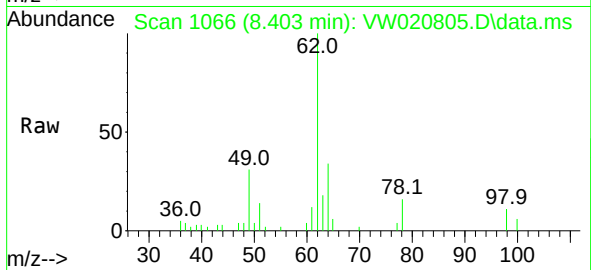




#27
1,2-Dichloroethane
Concen: 2.391 ug/L
RT: 8.403 min Scan# 1066
Delta R.T. 0.000 min
Lab File: VW020805.D
Acq: 08 Nov 2021 12:54

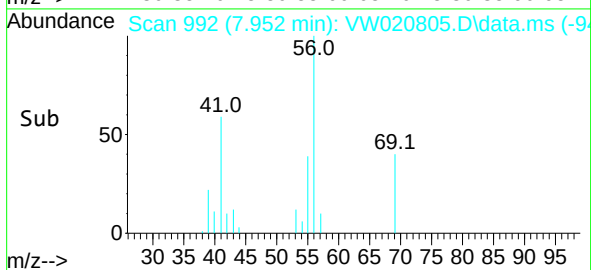
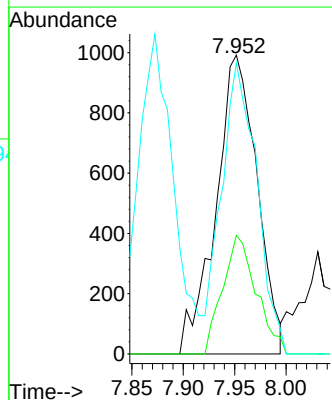
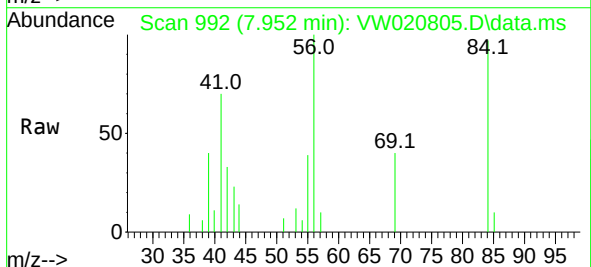
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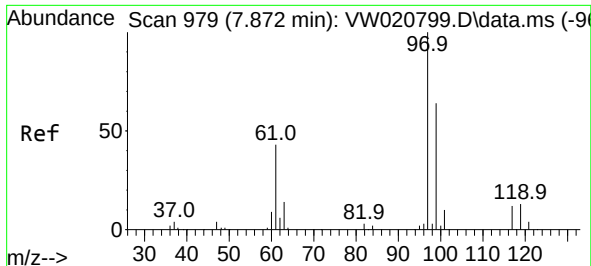
Tgt Ion: 62 Resp: 7132
Ion Ratio Lower Upper
62 100
98 11.4 6.5 9.7#



#29
Cyclohexane
Concen: 0.629 ug/L
RT: 7.952 min Scan# 992
Delta R.T. -0.006 min
Lab File: VW020805.D
Acq: 08 Nov 2021 12:54

Tgt Ion: 56 Resp: 2770
Ion Ratio Lower Upper
56 100
69 32.4 23.5 35.3
84 83.4 63.4 95.2





#30

1,1,1-Trichloroethane

Concen: 34.709 ug/L

RT: 7.872 min Scan# 979

Delta R.T. 0.000 min

Lab File: VW020805.D

Acq: 08 Nov 2021 12:54

Instrument :

MSVOA_W

ClientSampleId :

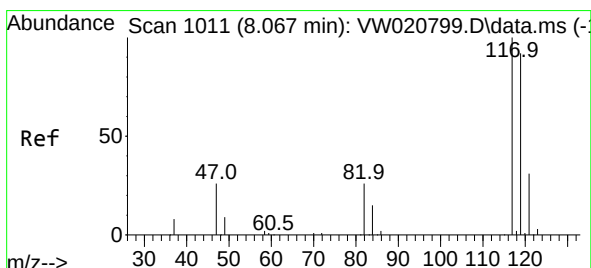
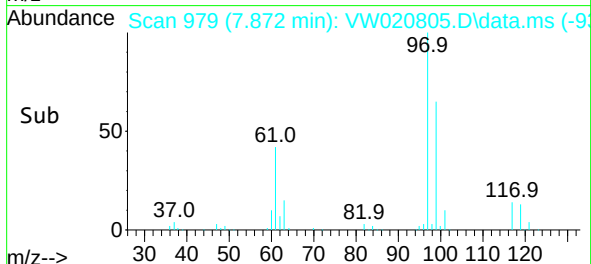
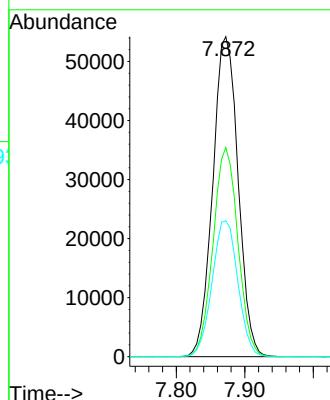
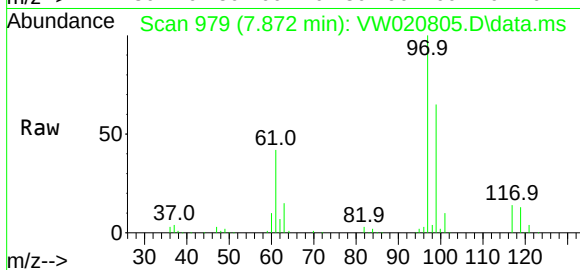
Tgt Ion: 97 Resp: 139242

Ion Ratio Lower Upper

97 100

99 64.0 51.6 77.4

61 43.2 40.9 61.3



#31

Carbon tetrachloride

Concen: 4.822 ug/L

RT: 7.872 min Scan# 979

Delta R.T. -0.195 min

Lab File: VW020805.D

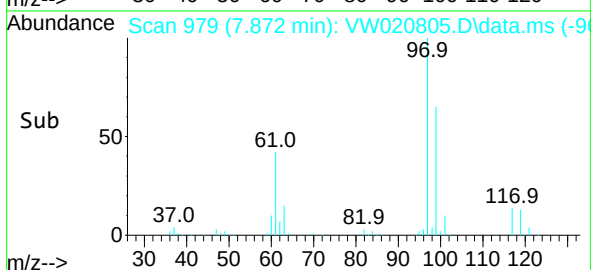
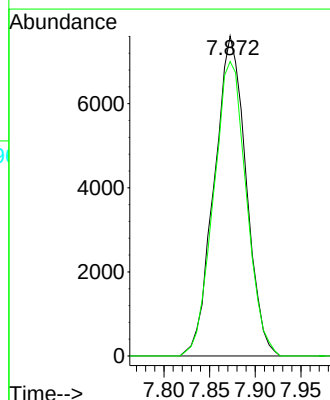
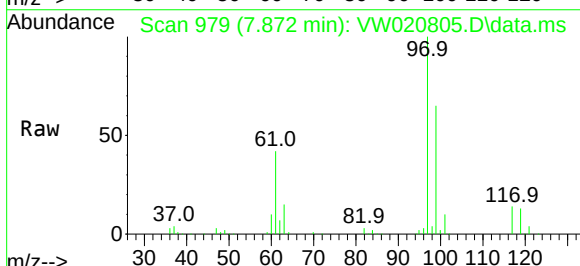
Acq: 08 Nov 2021 12:54

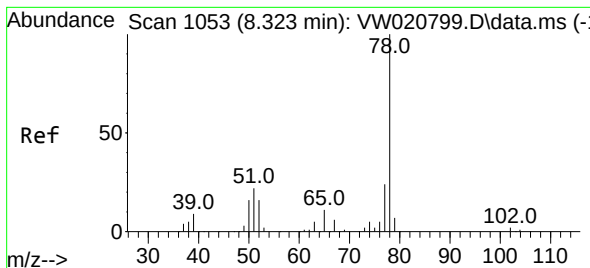
Tgt Ion: 117 Resp: 18409

Ion Ratio Lower Upper

117 100

119 94.7 75.7 113.5





#33

Benzene

Concen: 6.268 ug/L

RT: 8.323 min Scan# 1053

Delta R.T. 0.000 min

Lab File: VW020805.D

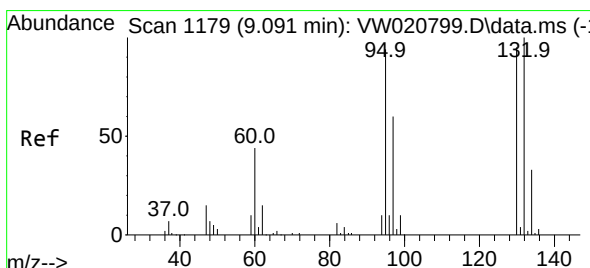
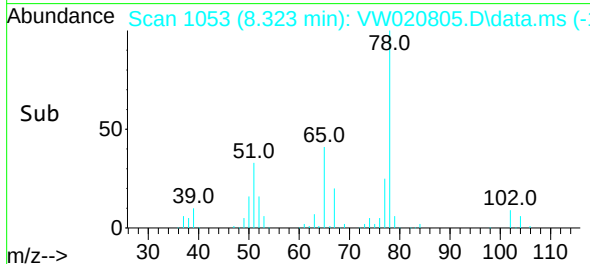
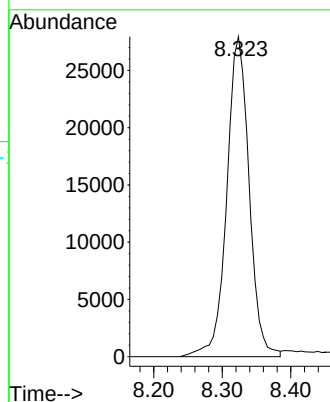
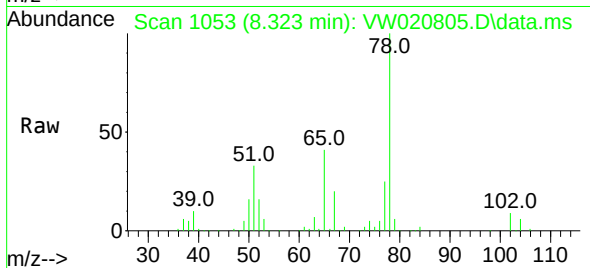
Acq: 08 Nov 2021 12:54

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion: 78 Resp: 63374



#34

Trichloroethene

Concen: 76.372 ug/L

RT: 9.092 min Scan# 1179

Delta R.T. 0.000 min

Lab File: VW020805.D

Acq: 08 Nov 2021 12:54

Tgt Ion: 95 Resp: 205529

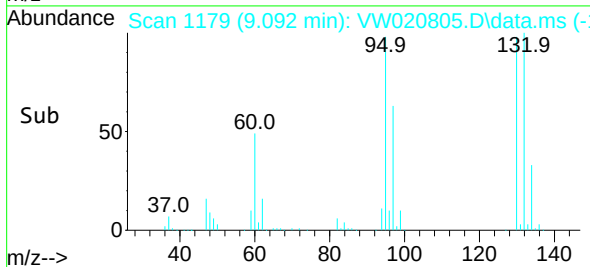
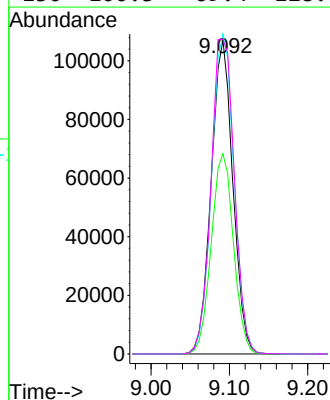
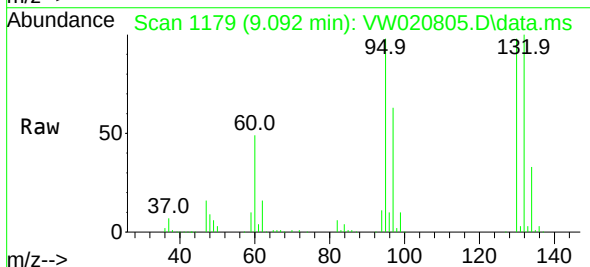
Ion Ratio Lower Upper

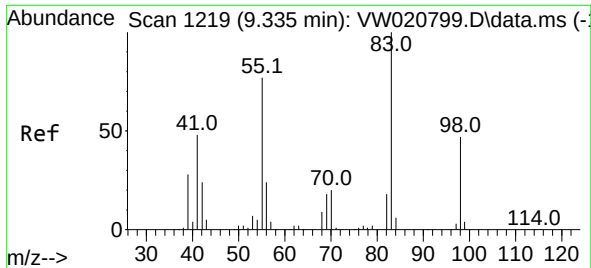
95 100

97 63.8 47.0 87.2

132 102.0 65.5 121.6

130 100.3 69.4 128.8

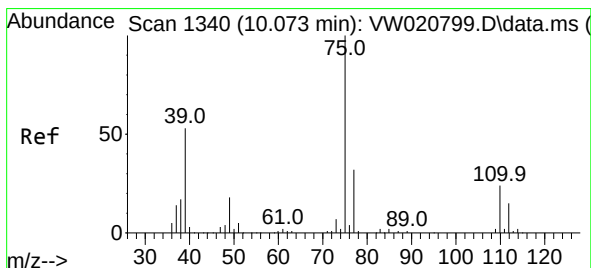
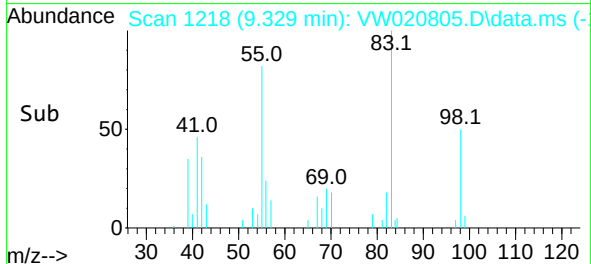
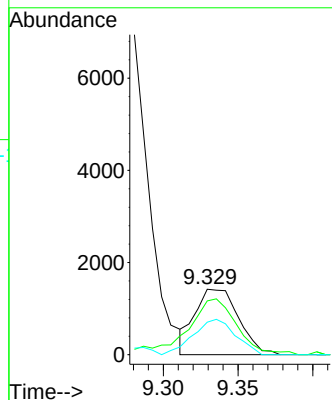
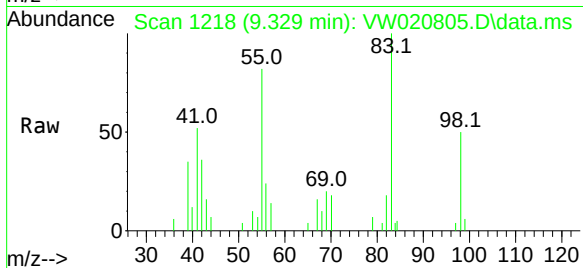




#35
Methylcyclohexane
Concen: 0.616 ug/L
RT: 9.329 min Scan# 11
Delta R.T. -0.006 min
Lab File: VW020805.D
Acq: 08 Nov 2021 12:54

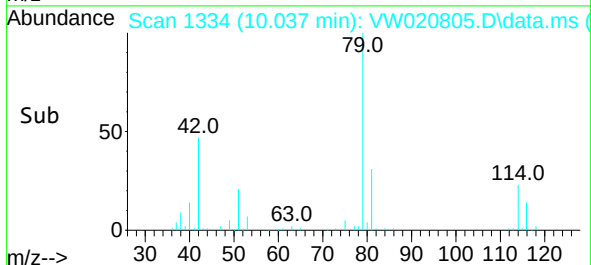
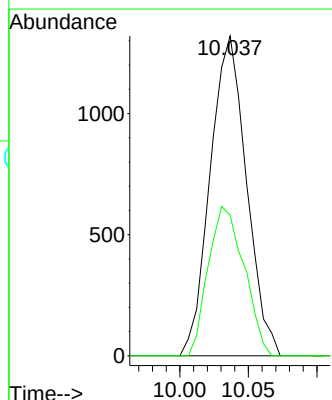
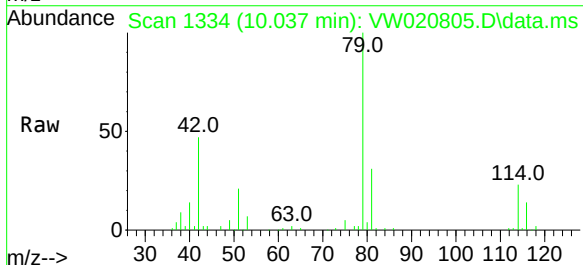
Instrument :
MSVOA_W
ClientSampleId :

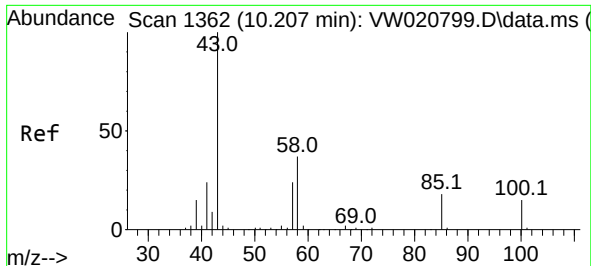
Tgt Ion: 83 Resp: 2893
Ion Ratio Lower Upper
83 100
55 89.1 70.8 106.2
98 52.1 37.7 56.5



#39
cis-1,3-Dichloropropene
Concen: 0.624 ug/L
RT: 10.037 min Scan# 1334
Delta R.T. -0.037 min
Lab File: VW020805.D
Acq: 08 Nov 2021 12:54

Tgt Ion: 75 Resp: 2432
Ion Ratio Lower Upper
75 100
77 43.9 21.8 40.6#





#40

4-Methyl-2-pentanone

Concen: 23.645 ug/L

RT: 10.213 min Scan# 11

Delta R.T. 0.006 min

Lab File: VW020805.D

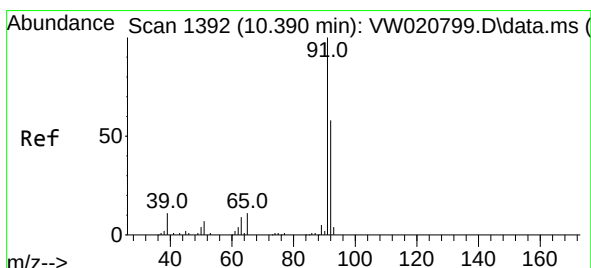
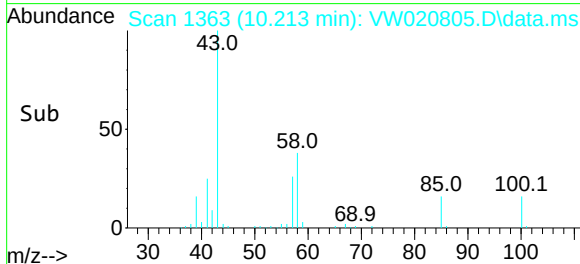
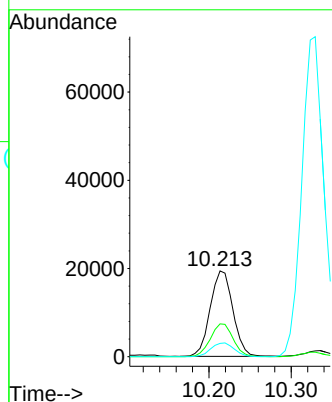
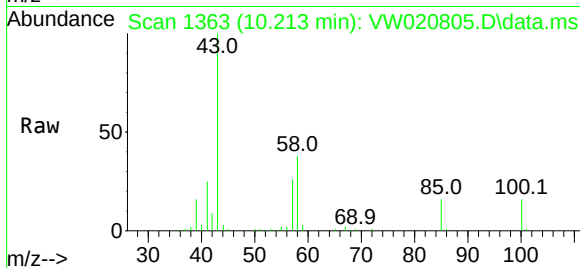
Acq: 08 Nov 2021 12:54

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion:	43	Resp:	36990
Ion	Ratio	Lower	Upper
43	100		
58	38.7	28.8	43.2
100	16.7	10.0	15.0



#42

Toluene

Concen: 1621.711 ug/L

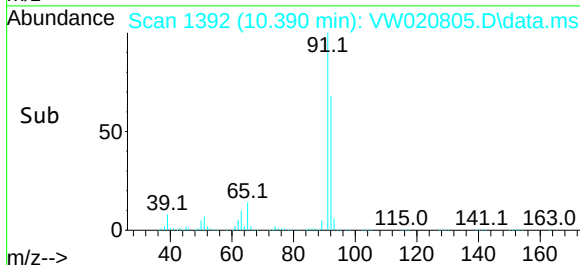
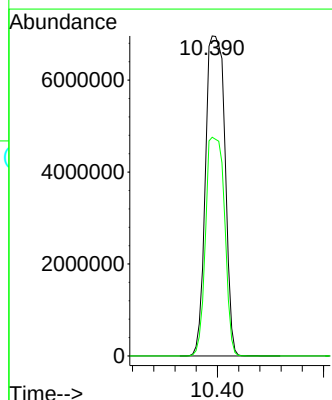
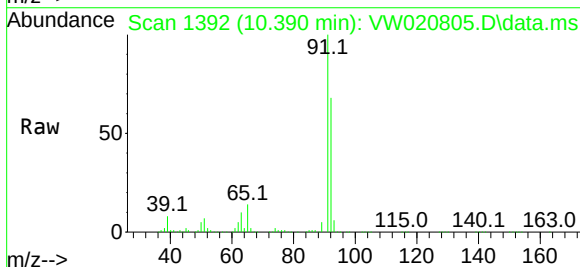
RT: 10.390 min Scan# 1392

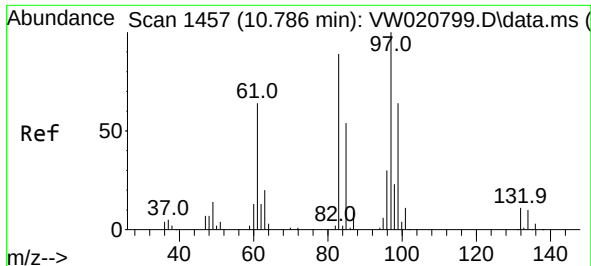
Delta R.T. 0.000 min

Lab File: VW020805.D

Acq: 08 Nov 2021 12:54

Tgt Ion:	91	Resp:	17630981
Ion	Ratio	Lower	Upper
91	100		
92	68.4	41.7	77.5





#45

1,1,2-Trichloroethane

Concen: 0.753 ug/L

RT: 10.786 min Scan# 14

Delta R.T. 0.000 min

Lab File: VW020805.D

Acq: 08 Nov 2021 12:54

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion: 97 Resp: 1337

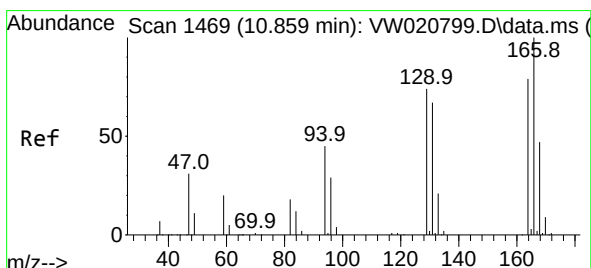
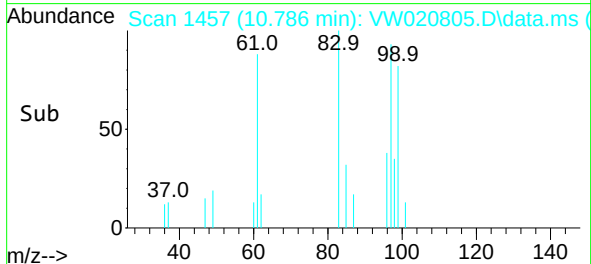
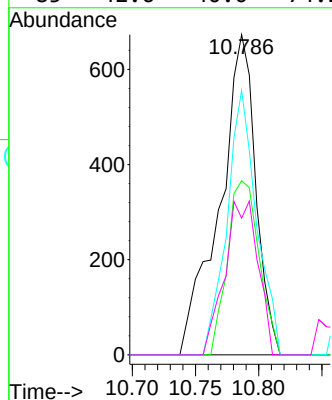
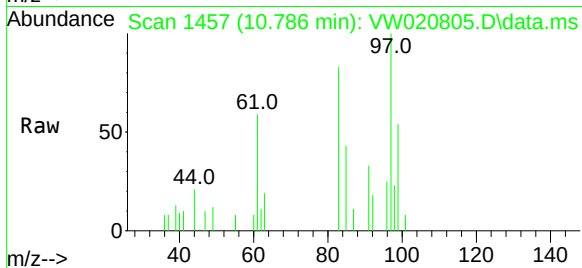
Ion Ratio Lower Upper

97 100

99 54.4 43.0 79.8

83 82.6 62.6 116.3

85 42.6 40.0 74.2



#46

Tetrachloroethene

Concen: 2.477 ug/L

RT: 10.866 min Scan# 1470

Delta R.T. 0.006 min

Lab File: VW020805.D

Acq: 08 Nov 2021 12:54

Tgt Ion:164 Resp: 5980

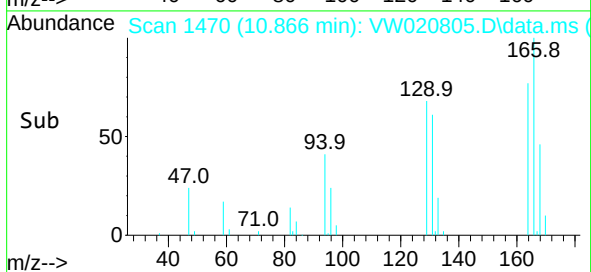
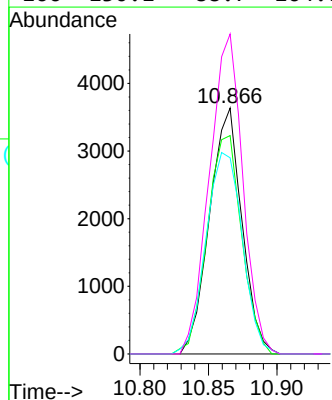
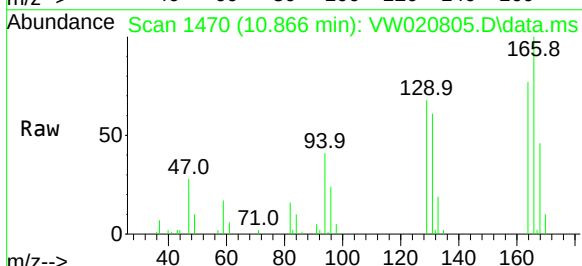
Ion Ratio Lower Upper

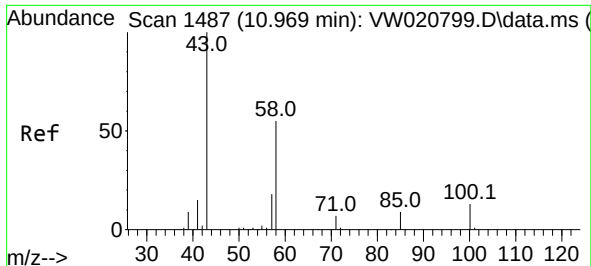
164 100

129 88.8 65.5 121.7

131 79.7 59.7 110.9

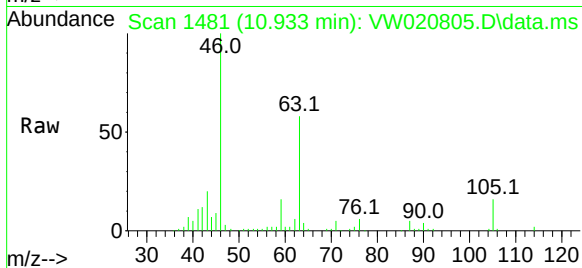
166 130.1 88.7 164.7



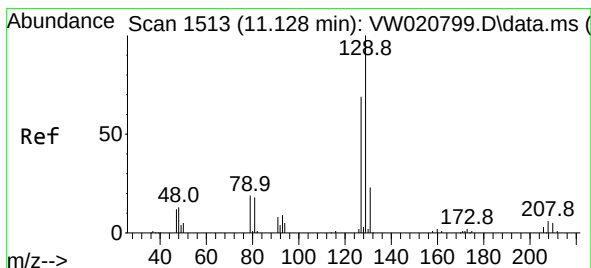
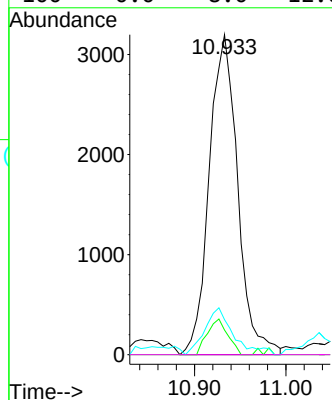
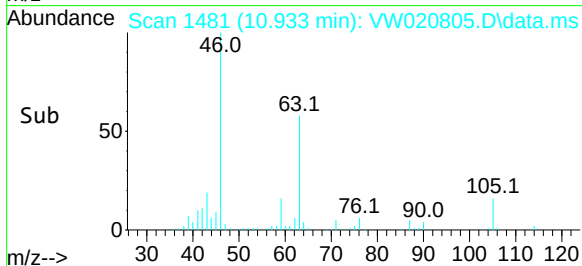


#48
2-Hexanone
Concen: 6.064 ug/L
RT: 10.933 min Scan# 1481
Delta R.T. -0.037 min
Lab File: VW020805.D
Acq: 08 Nov 2021 12:54

Instrument :
MSVOA_W
ClientSampleId :

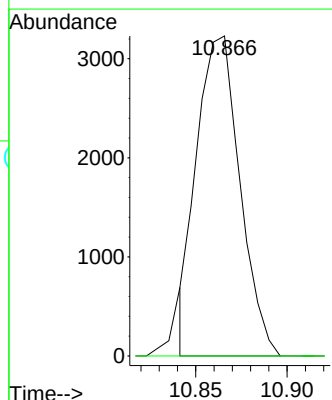
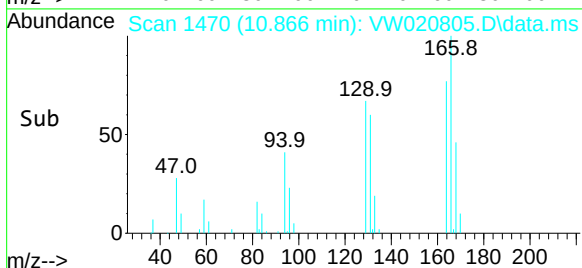
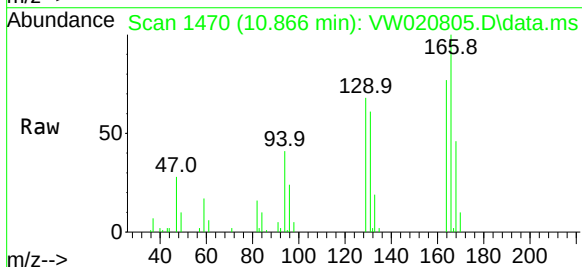


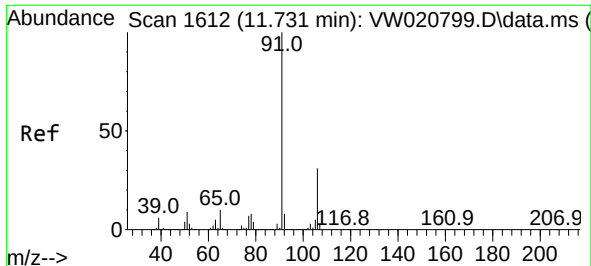
Tgt Ion: 43 Resp: 6927
Ion Ratio Lower Upper
43 100
58 8.0 40.2 60.2#
57 13.3 14.3 21.5#
100 0.0 8.0 12.0#



#49
Dibromochloromethane
Concen: 2.187 ug/L
RT: 10.866 min Scan# 1470
Delta R.T. -0.262 min
Lab File: VW020805.D
Acq: 08 Nov 2021 12:54

Tgt Ion: 129 Resp: 5306
Ion Ratio Lower Upper
129 100
127 0.0 55.7 103.5#

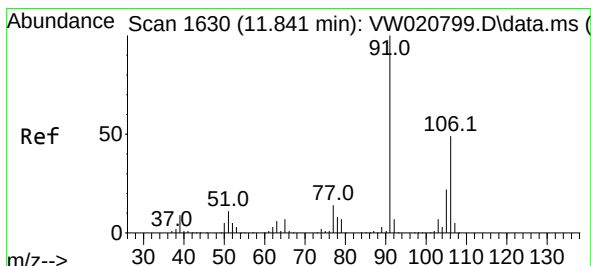
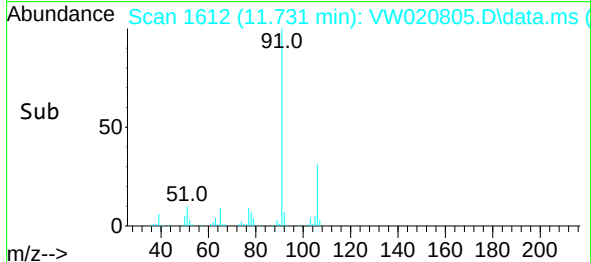
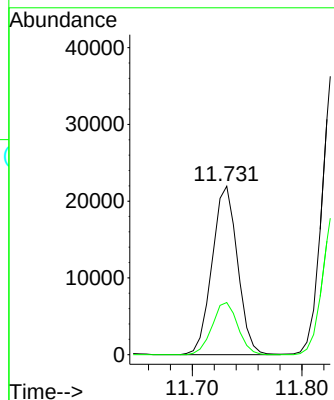
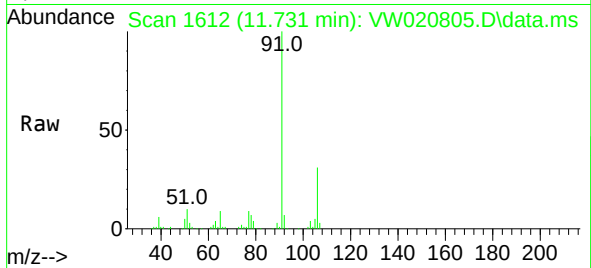




#52
Ethylbenzene
Concen: 2.909 ug/L
RT: 11.731 min Scan# 1612
Delta R.T. 0.000 min
Lab File: VW020805.D
Acq: 08 Nov 2021 12:54

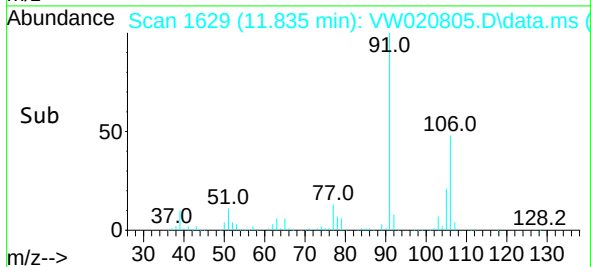
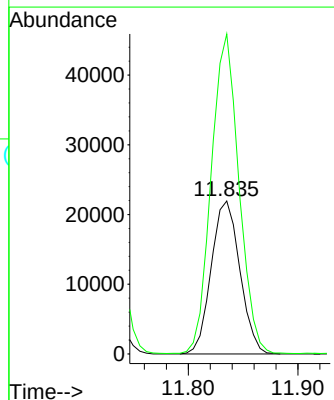
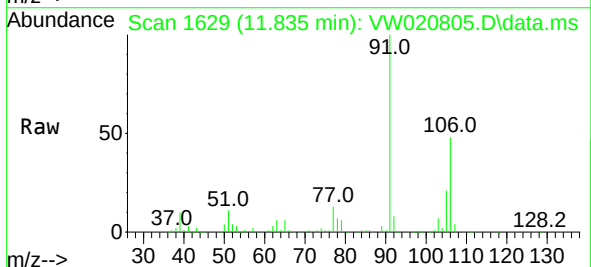
Instrument :
MSVOA_W
ClientSampleId :

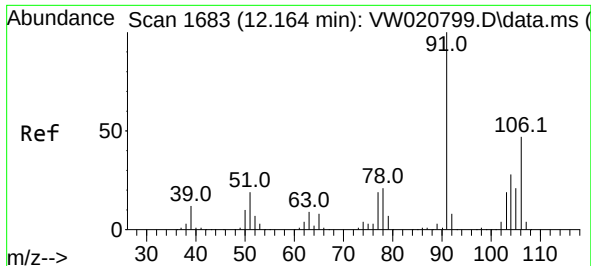
Tgt Ion: 91 Resp: 35438
Ion Ratio Lower Upper
91 100
106 30.9 21.5 39.9



#53
m,p-Xylene
Concen: 8.157 ug/L
RT: 11.835 min Scan# 1629
Delta R.T. -0.006 min
Lab File: VW020805.D
Acq: 08 Nov 2021 12:54

Tgt Ion: 106 Resp: 39810
Ion Ratio Lower Upper
106 100
91 209.2 149.9 278.3

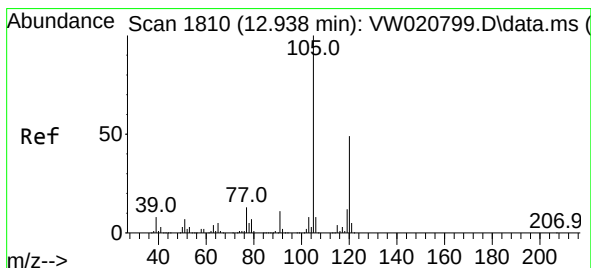
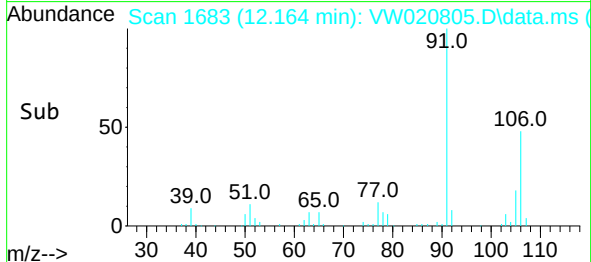
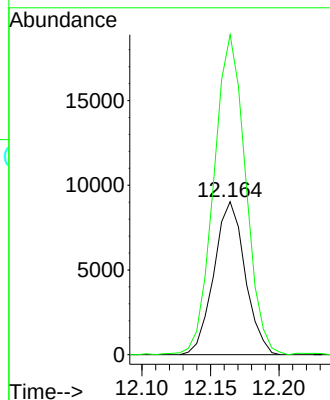
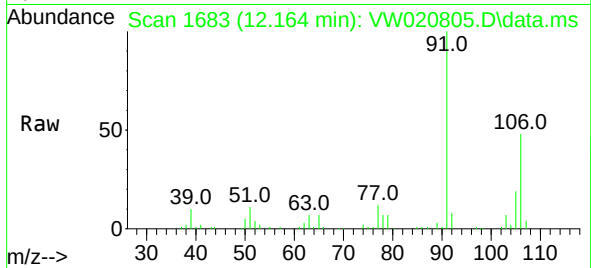




#54
o-Xylene
Concen: 3.092 ug/L
RT: 12.164 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW020805.D
Acq: 08 Nov 2021 12:54

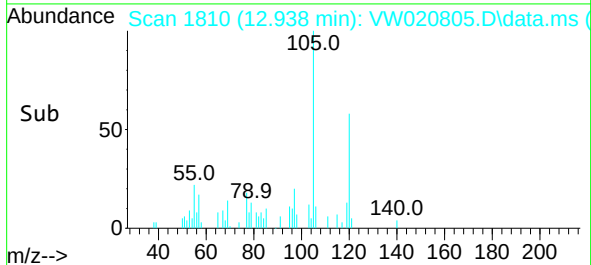
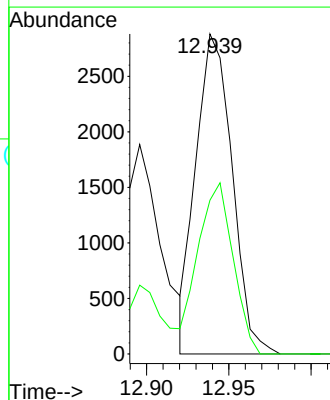
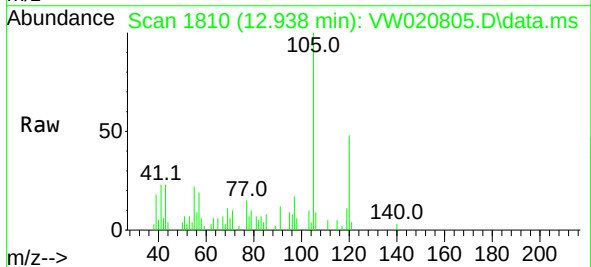
Instrument :
MSVOA_W
ClientSampleId :

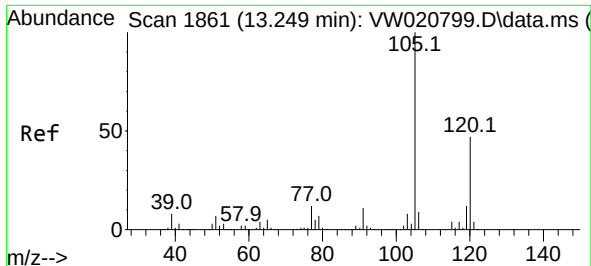
Tgt Ion:106 Resp: 14293
Ion Ratio Lower Upper
106 100
91 209.1 153.6 285.3



#62
1,3,5-Trimethylbenzene
Concen: 0.511 ug/L
RT: 12.938 min Scan# 1810
Delta R.T. -0.006 min
Lab File: VW020805.D
Acq: 08 Nov 2021 12:54

Tgt Ion:105 Resp: 4412
Ion Ratio Lower Upper
105 100
120 51.7 37.4 56.2





#63

1,2,4-Trimethylbenzene

Concen: 0.514 ug/L

RT: 12.938 min Scan# 1861

Delta R.T. -0.311 min

Lab File: VW020805.D

Acq: 08 Nov 2021 12:54

Instrument :

MSVOA_W

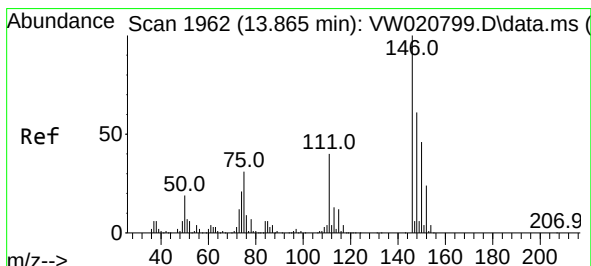
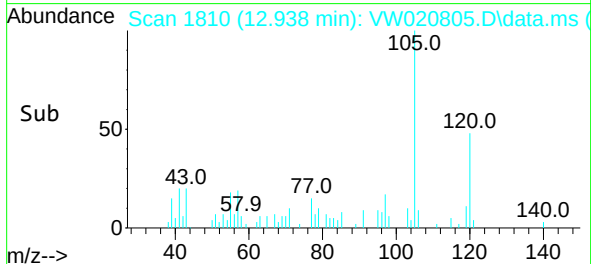
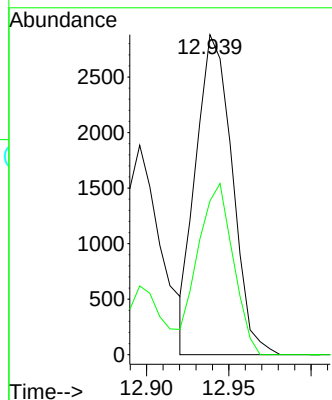
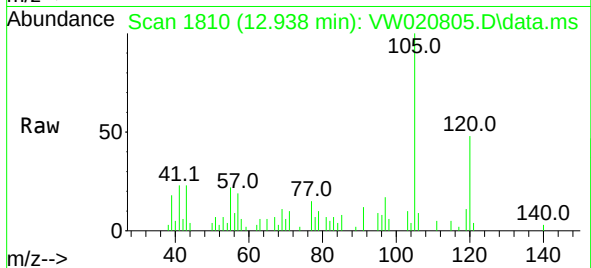
ClientSampleId :

Tgt Ion:105 Resp: 4412

Ion Ratio Lower Upper

105 100

120 51.7 35.0 52.6



#67

1,2-Dichlorobenzene

Concen: 0.823 ug/L

RT: 13.865 min Scan# 1962

Delta R.T. -0.006 min

Lab File: VW020805.D

Acq: 08 Nov 2021 12:54

Tgt Ion:146 Resp: 3387

Ion Ratio Lower Upper

146 100

111 48.7 33.1 49.7

148 60.4 47.4 71.2

