

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW120321\
 Data File : VW021128.D
 Acq On : 04 Dec 2021 19:16
 Operator : SY/VA
 Sample : M4885-14
 Misc : 3.93g/10.0mL/MSVOA_W/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Dec 06 00:51:04 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120321SMA.M
 Quant Title : SFAM01.0
 QLast Update : Sat Dec 04 04:50:24 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.842	114	52116	25.000	ug/L	# 0.00
28) Chlorobenzene-d5	11.634	117	20294	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.560	152	2430	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.355	65	44272	60.971	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	= 243.880%#	
7) Chloroethane-d5	2.885	69	30410	62.562	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	= 250.240%#	
11) 1,1-Dichloroethene-d2	4.019	63	43387	37.403	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	= 149.600%#	
21) 2-Butanone-d5	7.080	46	15858	95.747	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	= 191.500%#	
24) Chloroform-d	7.653	84	61613	47.207	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	= 188.840%#	
26) 1,2-Dichloroethane-d4	8.305	65	32399	45.375	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	= 181.480%#	
32) Benzene-d6	8.275	84	105787	101.949	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	= 407.800%#	
36) 1,2-Dichloropropane-d6	9.275	67	31080	107.782	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	= 431.120%#	
41) Toluene-d8	10.323	98	62031	58.301	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	= 233.200%#	
43) trans-1,3-Dichloroprop...	10.579	79	6357	48.550	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	= 194.200%#	
47) 2-Hexanone-d5	10.921	63	7773	140.889	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	= 281.780%#	
56) 1,1,2,2-Tetrachloroeth...	12.689	84	14355	53.810	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	= 215.240%#	
66) 1,2-Dichlorobenzene-d4	13.847	152	3367	38.671	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	= 154.680%#	
Target Compounds						
					Qvalue	
13) Acetone	4.129	43	2204	14.609	ug/L	96
14) Carbon disulfide	4.379	76	22517	11.992	ug/L	99
16) Methylene chloride	4.922	84	4110	5.006	ug/L	79
17) trans-1,2-Dichloroethene	5.434	96	1190	1.652	ug/L	85
20) cis-1,2-Dichloroethene	7.177	96	5603	7.333	ug/L	73
22) 2-Butanone	7.141	43	1834	8.784	ug/L #	60
25) Chloroform	7.677	83	2501	1.951	ug/L	96
27) 1,2-Dichloroethane	8.403	62	1837	2.190	ug/L #	86
29) Cyclohexane	7.952	56	1114	2.488	ug/L #	85
33) Benzene	8.330	78	3325	2.881	ug/L	100
34) Trichloroethene	9.092	95	2150410	6754.172	ug/L	96
35) Methylcyclohexane	9.335	83	4207	7.850	ug/L	90
37) 1,2-Dichloropropane	9.275	63	3952	15.151	ug/L #	88
39) cis-1,3-Dichloropropene	10.037	75	790	1.872	ug/L #	67
40) 4-Methyl-2-pentanone	10.207	43	480	2.701	ug/L #	89
42) Toluene	10.384	91	13926	10.565	ug/L	95
45) 1,1,2-Trichloroethane	10.793	97	1546	7.070	ug/L	100
46) Tetrachloroethene	10.866	164	1221716	4190.548	ug/L	92
48) 2-Hexanone	10.927	43	1580	12.326	ug/L #	65

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 Quant Title : SFAM01.0
 QLast Update : Sat Dec 04 04:50:24 2021
 Response via : Initial Calibration

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

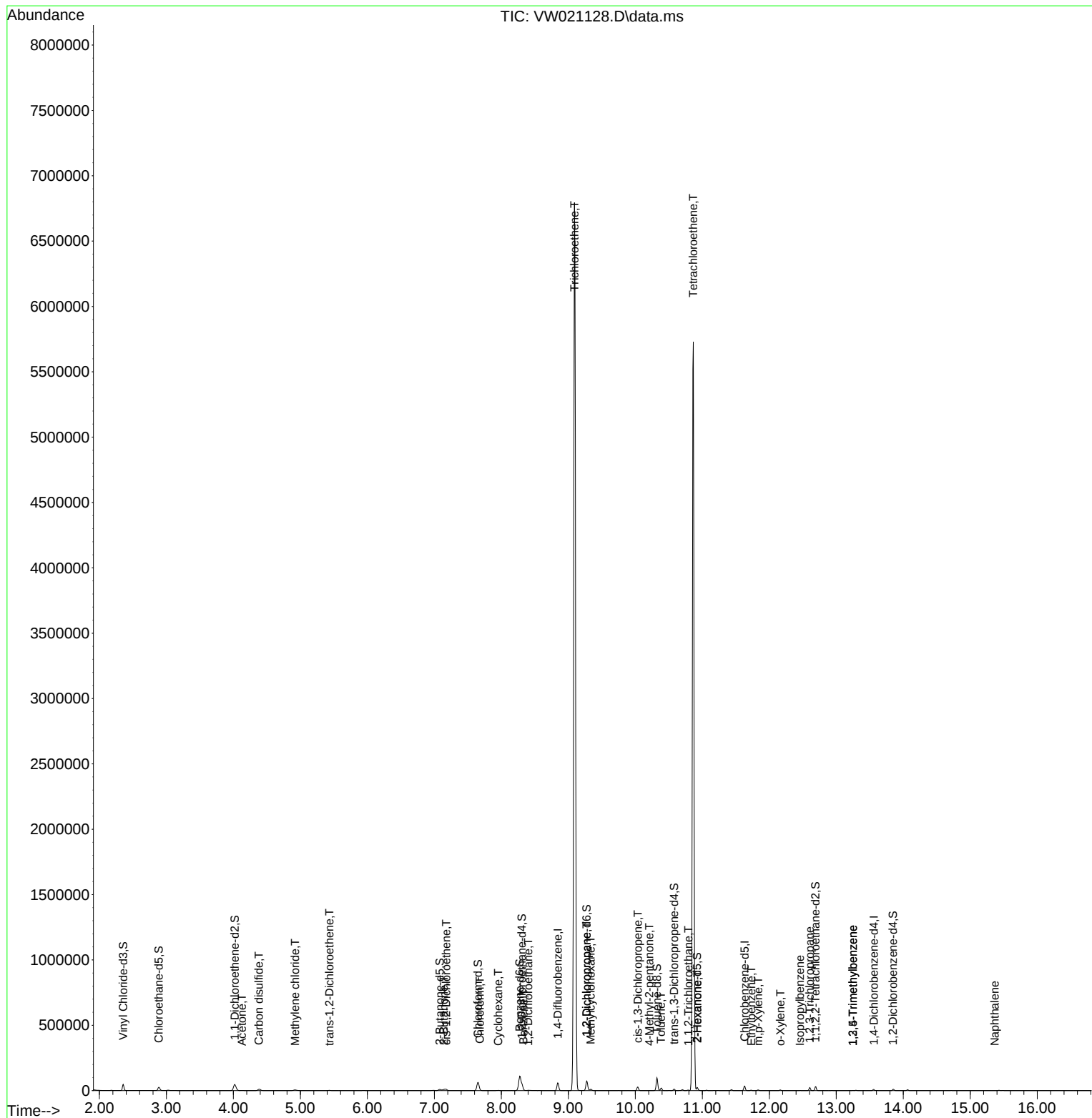
52) Ethylbenzene	11.731	91	1856	1.251	ug/L	97
53) m,p-Xylene	11.835	106	1881	3.064	ug/L	72
54) o-Xylene	12.164	106	1674	2.892	ug/L	69
60) Isopropylbenzene	12.457	105	729	2.159	ug/L #	94
61) 1,2,3-Trichloropropane	12.603	75	238	5.847	ug/L #	51
62) 1,3,5-Trimethylbenzene	13.249	105	773	2.733	ug/L	97
63) 1,2,4-Trimethylbenzene	13.249	105	773	2.718	ug/L	99
71) Naphthalene	15.365	128	555	3.109	ug/L #	69

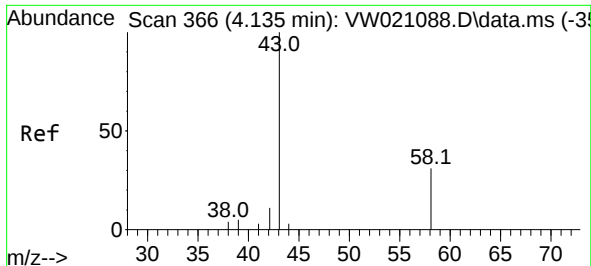
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120321SMA.M
Quant Title : SFAM01.0
QLast Update : Sat Dec 04 04:50:24 2021
Response via : Initial Calibration





#13

Acetone

Concen: 14.609 ug/L

RT: 4.129 min Scan# 3

Delta R.T. -0.006 min

Lab File: VW021128.D

Acq: 04 Dec 2021 19:16

Instrument :

MSVOA_W

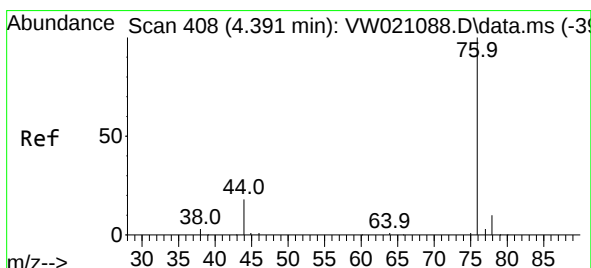
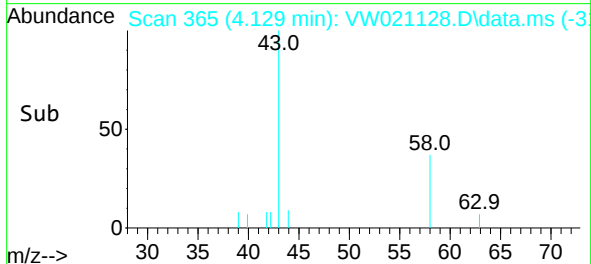
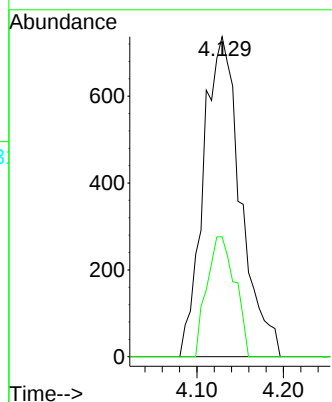
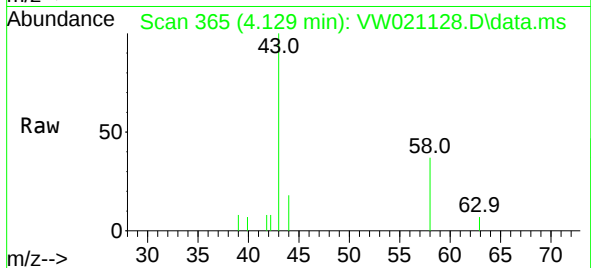
ClientSampleId :

Tgt Ion: 43 Resp: 2204

Ion Ratio Lower Upper

43 100

58 28.2 0.0 52.8



#14

Carbon disulfide

Concen: 11.992 ug/L

RT: 4.379 min Scan# 406

Delta R.T. -0.012 min

Lab File: VW021128.D

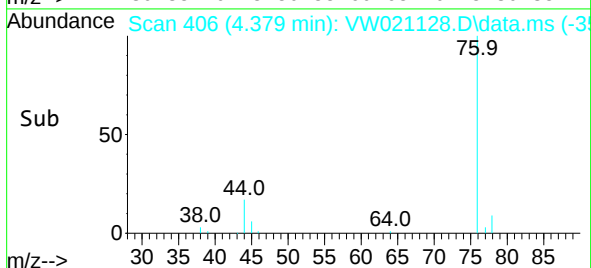
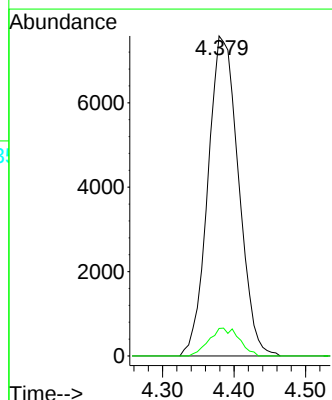
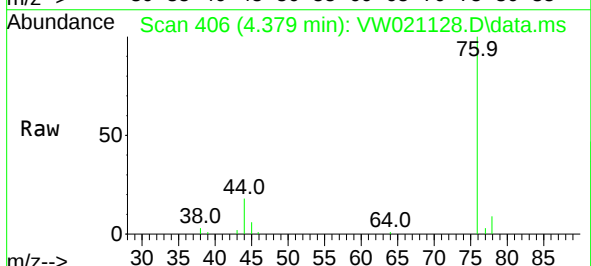
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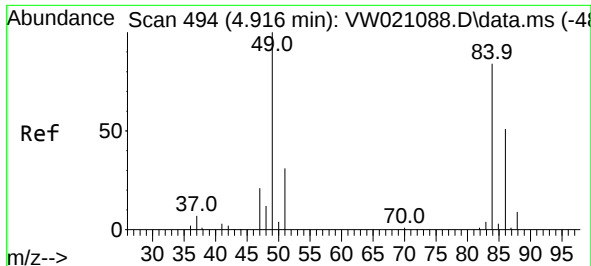
Tgt Ion: 76 Resp: 22517

Ion Ratio Lower Upper

76 100

78 8.6 7.1 10.7

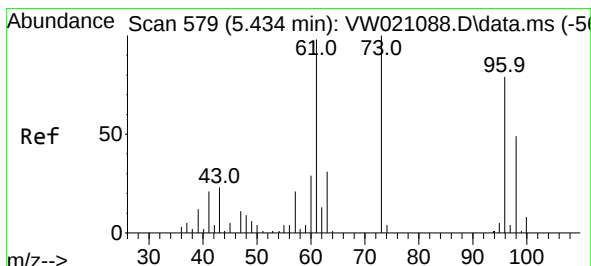
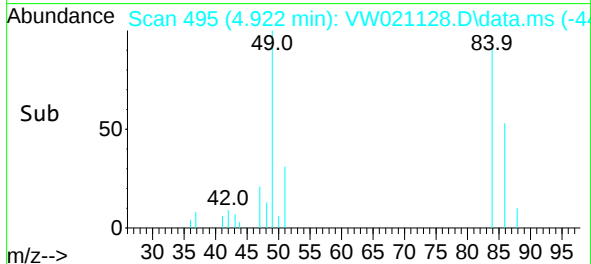
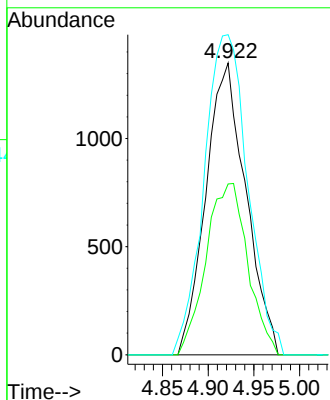
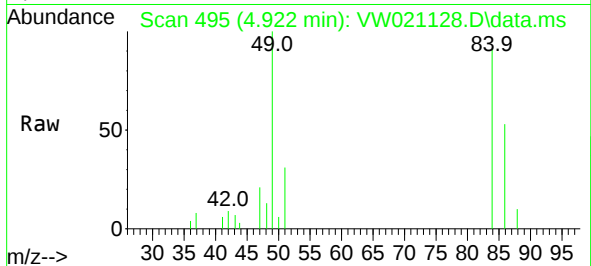




#16
Methylene chloride
Concen: 5.006 ug/L
RT: 4.922 min Scan# 49
Delta R.T. 0.006 min
Lab File: VW021128.D
Acq: 04 Dec 2021 19:16

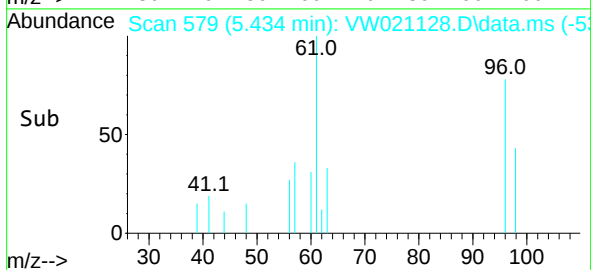
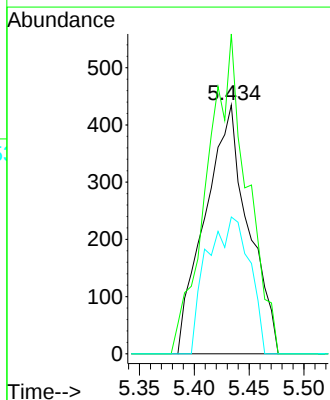
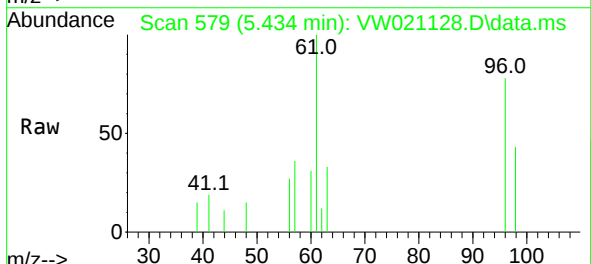
Instrument :
MSVOA_W
ClientSampleId :

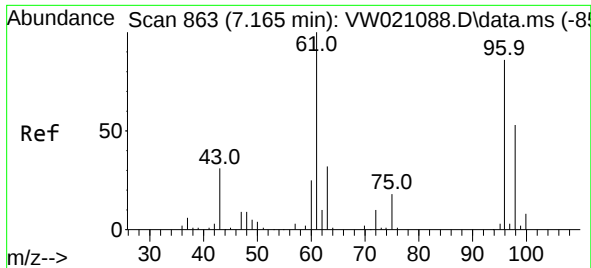
Tgt Ion: 84 Resp: 4110
Ion Ratio Lower Upper
84 100
86 58.6 45.5 84.5
49 109.7 100.5 186.7



#17
trans-1,2-Dichloroethene
Concen: 1.652 ug/L
RT: 5.434 min Scan# 579
Delta R.T. 0.000 min
Lab File: VW021128.D
Acq: 04 Dec 2021 19:16

Tgt Ion: 96 Resp: 1190
Ion Ratio Lower Upper
96 100
61 128.5 107.4 199.4
98 54.9 41.2 76.6

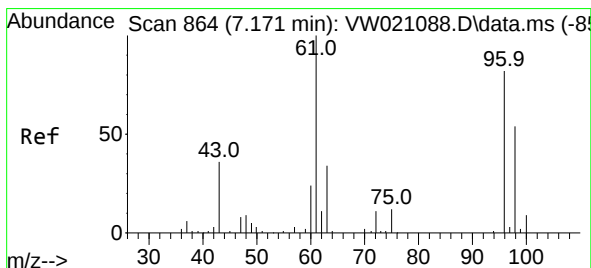
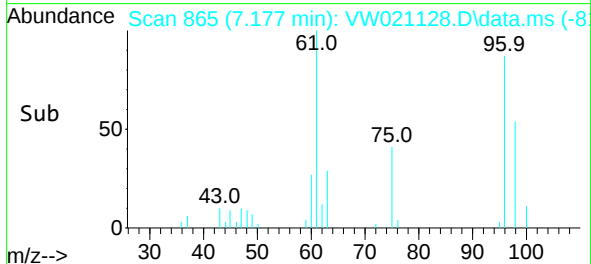
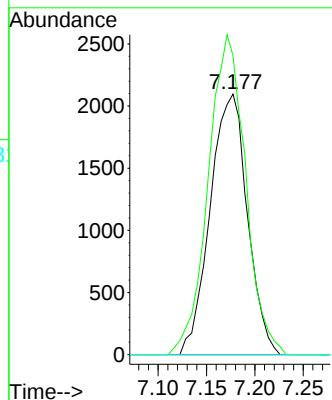
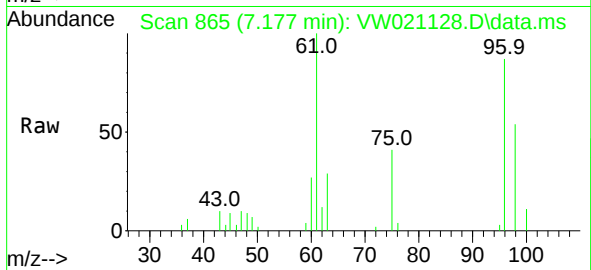




#20
cis-1,2-Dichloroethene
Concen: 7.333 ug/L
RT: 7.177 min Scan# 863
Delta R.T. 0.012 min
Lab File: VW021128.D
Acq: 04 Dec 2021 19:16

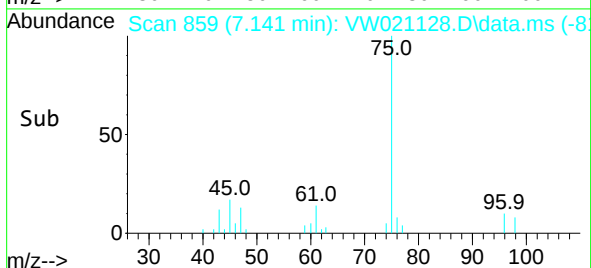
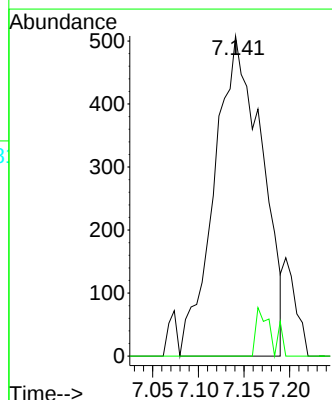
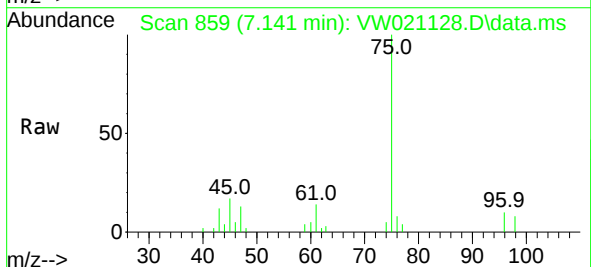
Instrument :
MSVOA_W
ClientSampleId :

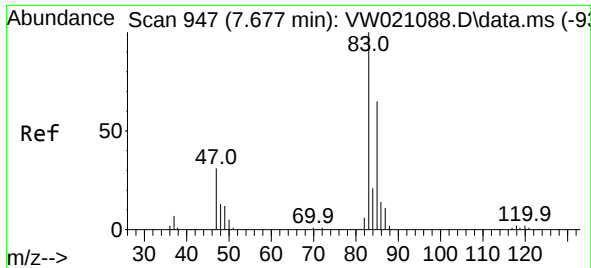
Tgt Ion: 96 Resp: 5603
Ion Ratio Lower Upper
96 100
61 114.7 103.7 192.7
68 0.0 0.0 0.0



#22
2-Butanone
Concen: 8.784 ug/L
RT: 7.141 min Scan# 859
Delta R.T. -0.030 min
Lab File: VW021128.D
Acq: 04 Dec 2021 19:16

Tgt Ion: 43 Resp: 1834
Ion Ratio Lower Upper
43 100
72 3.8 11.8 35.4#

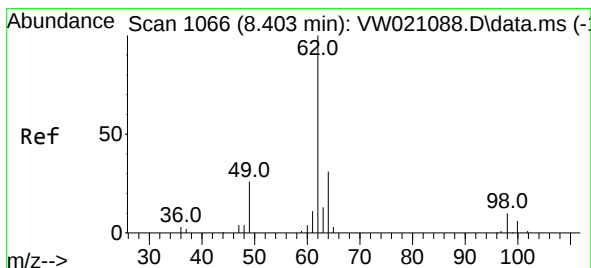
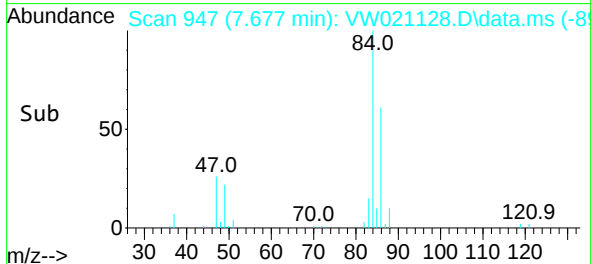
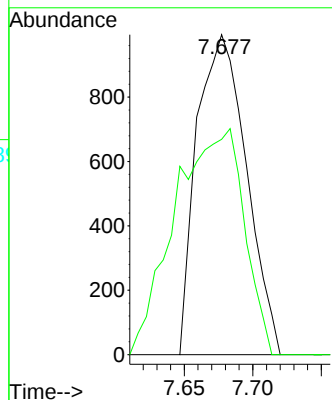
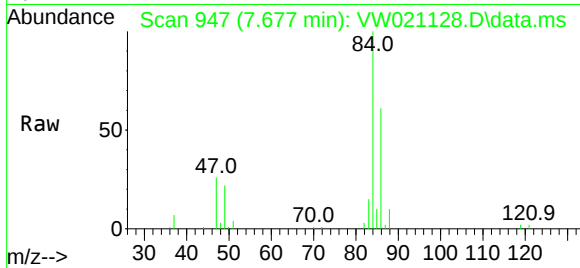




#25
Chloroform
Concen: 1.951 ug/L
RT: 7.677 min Scan# 947
Delta R.T. 0.000 min
Lab File: VW021128.D
Acq: 04 Dec 2021 19:16

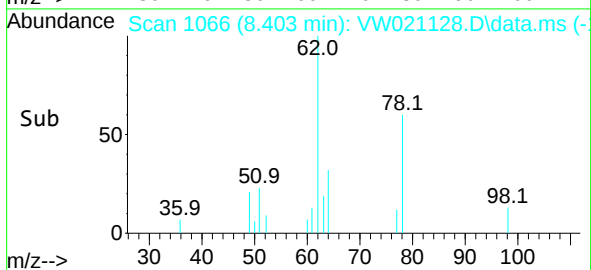
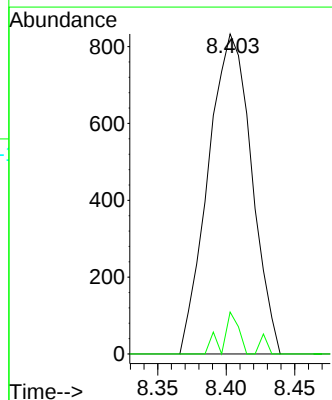
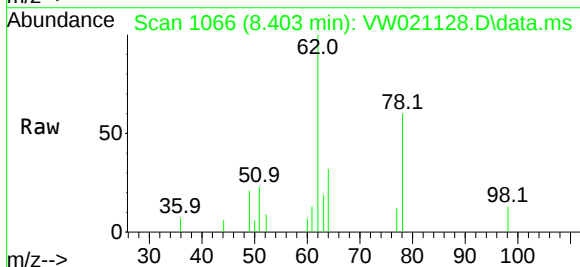
Instrument :
MSVOA_W
ClientSampleId :

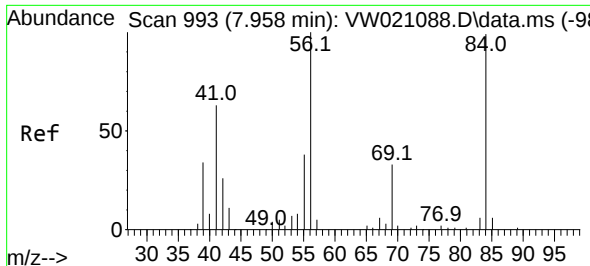
Tgt Ion: 83 Resp: 2501
Ion Ratio Lower Upper
83 100
85 67.3 45.1 83.7



#27
1,2-Dichloroethane
Concen: 2.190 ug/L
RT: 8.403 min Scan# 1066
Delta R.T. 0.000 min
Lab File: VW021128.D
Acq: 04 Dec 2021 19:16

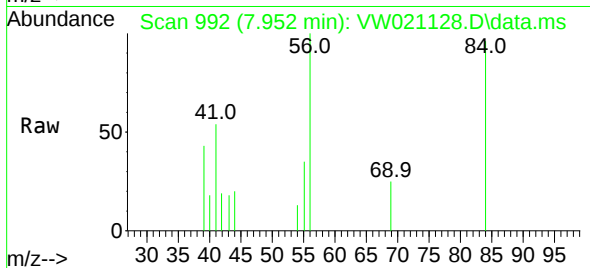
Tgt Ion: 62 Resp: 1837
Ion Ratio Lower Upper
62 100
98 13.1 6.5 9.7#



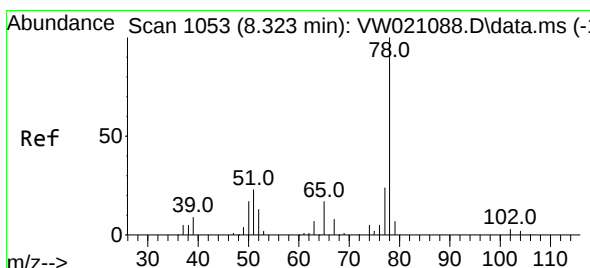
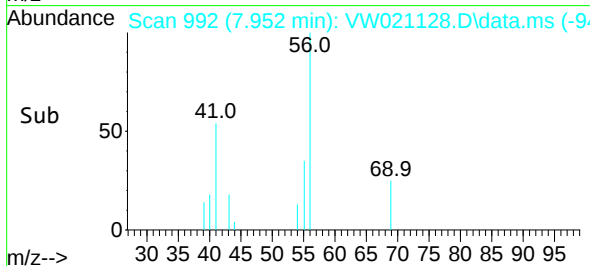
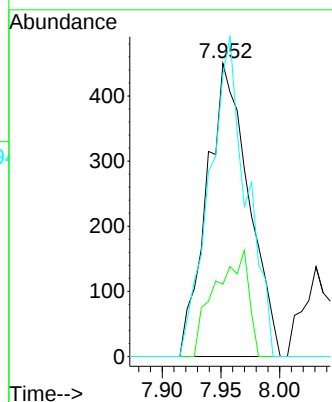


#29
Cyclohexane
Concen: 2.488 ug/L
RT: 7.952 min Scan# 993
Delta R.T. -0.006 min
Lab File: VW021128.D
Acq: 04 Dec 2021 19:16

Instrument :
MSVOA_W
ClientSampleId :

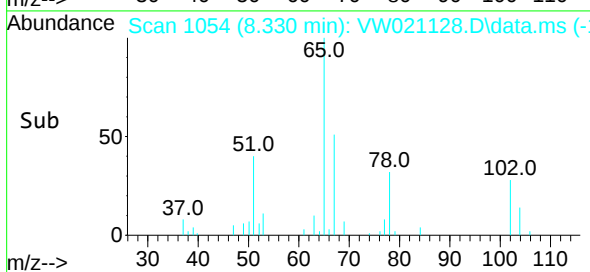
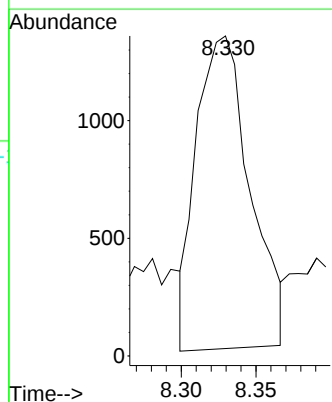
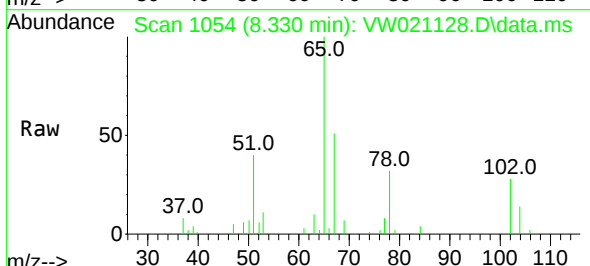


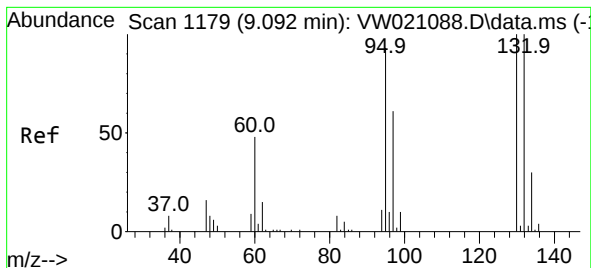
Tgt Ion: 56 Resp: 1114
Ion Ratio Lower Upper
56 100
69 29.0 23.5 35.3
84 96.8 63.4 95.2#



#33
Benzene
Concen: 2.881 ug/L
RT: 8.330 min Scan# 1054
Delta R.T. 0.006 min
Lab File: VW021128.D
Acq: 04 Dec 2021 19:16

Tgt Ion: 78 Resp: 3325





#34

Trichloroethene

Concen: 6754.172 ug/L

RT: 9.092 min Scan# 1179

Delta R.T. 0.000 min

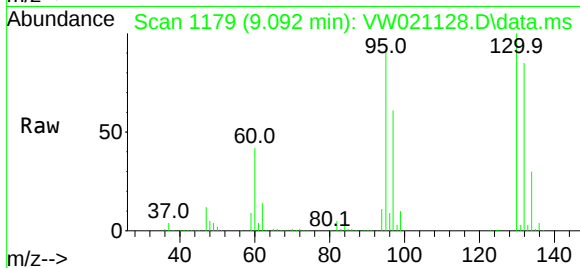
Lab File: VW021128.D

Acq: 04 Dec 2021 19:16

Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion: 95 Resp: 2150410

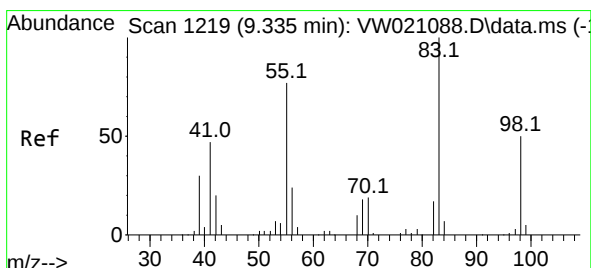
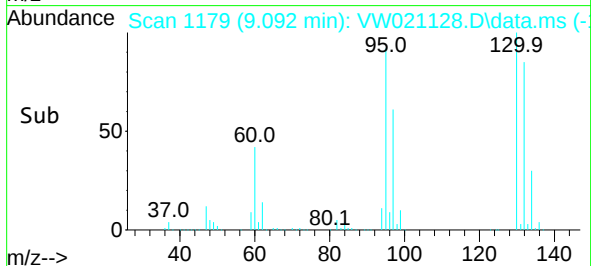
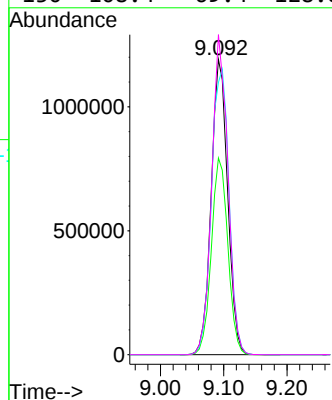
Ion Ratio Lower Upper

95 100

97 66.6 47.0 87.2

132 92.3 65.5 121.6

130 108.4 69.4 128.8



#35

Methylcyclohexane

Concen: 7.850 ug/L

RT: 9.335 min Scan# 1219

Delta R.T. 0.000 min

Lab File: VW021128.D

Acq: 04 Dec 2021 19:16

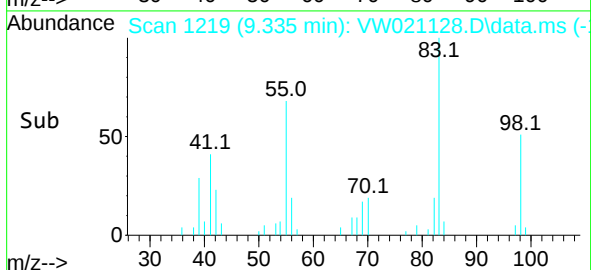
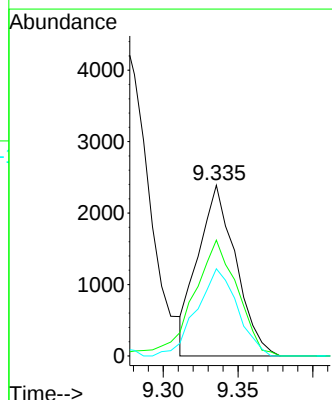
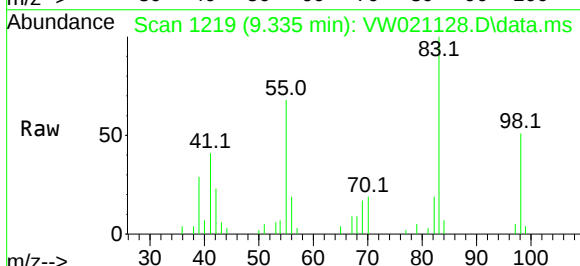
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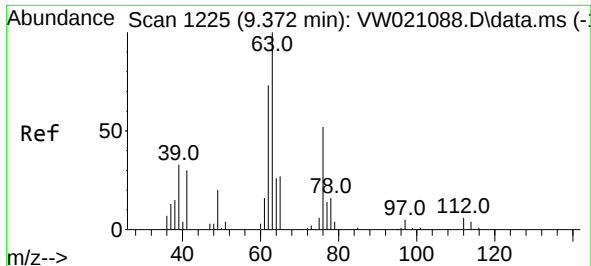
Ion Ratio Lower Upper

83 100

55 79.6 70.8 106.2

98 54.8 37.7 56.5





#37

1,2-Dichloropropane

Concen: 15.151 ug/L

RT: 9.275 min Scan# 11

Delta R.T. -0.098 min

Lab File: VW021128.D

Acq: 04 Dec 2021 19:16

Instrument :

MSVOA_W

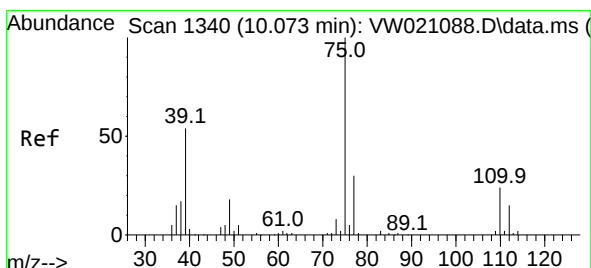
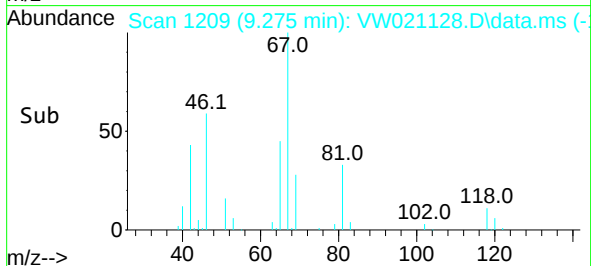
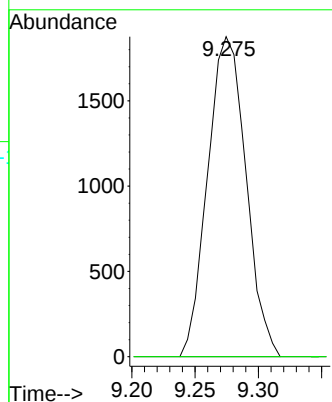
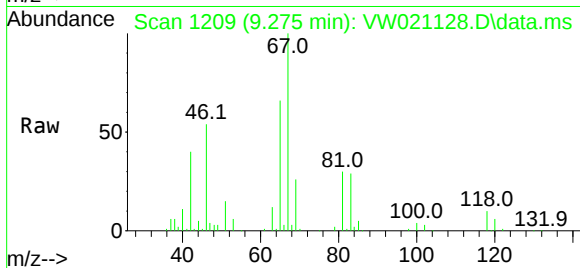
ClientSampleId :

Tgt Ion: 63 Resp: 3952

Ion Ratio Lower Upper

63 100

112 0.0 3.2 4.8#



#39

cis-1,3-Dichloropropene

Concen: 1.872 ug/L

RT: 10.037 min Scan# 1334

Delta R.T. -0.037 min

Lab File: VW021128.D

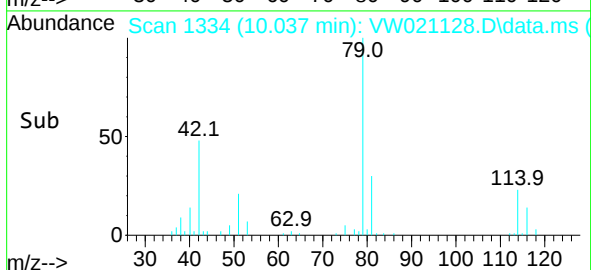
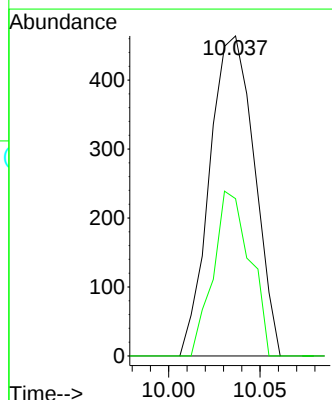
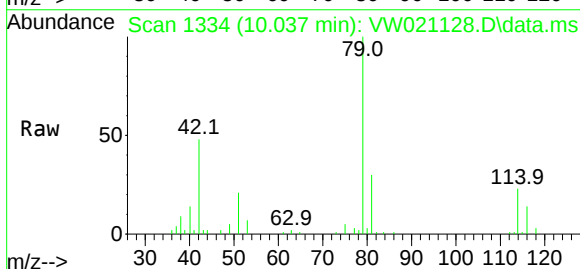
Acq: 04 Dec 2021 19:16

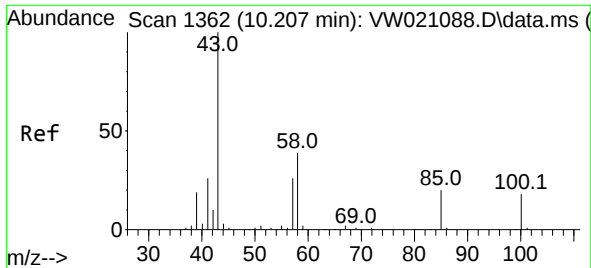
Tgt Ion: 75 Resp: 790

Ion Ratio Lower Upper

75 100

77 49.1 21.8 40.6#

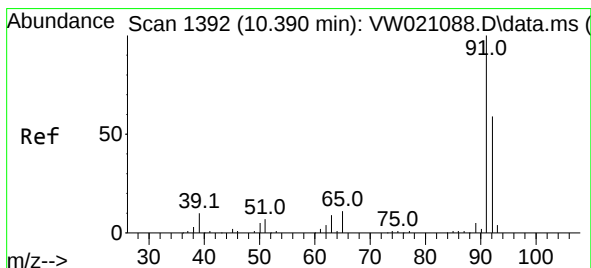
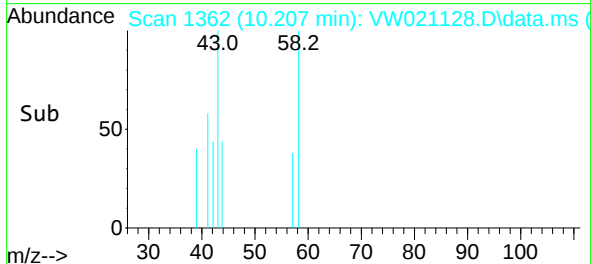
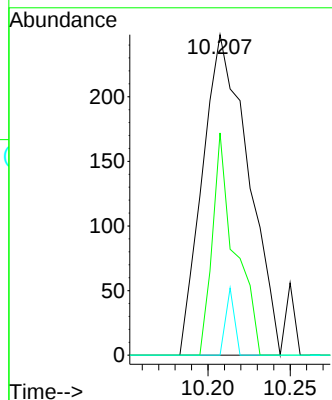
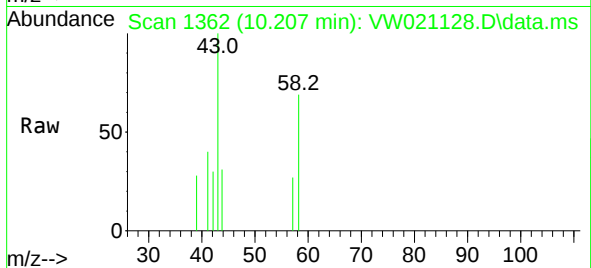




#40
4-Methyl-2-pentanone
Concen: 2.701 ug/L
RT: 10.207 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW021128.D
Acq: 04 Dec 2021 19:16

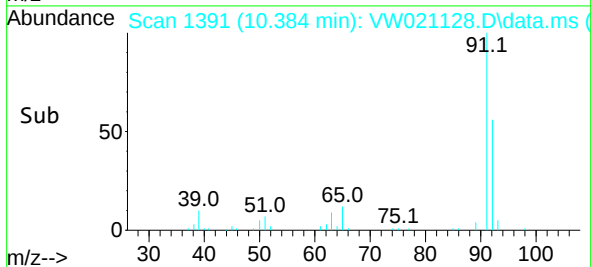
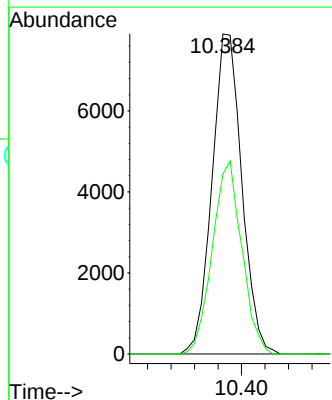
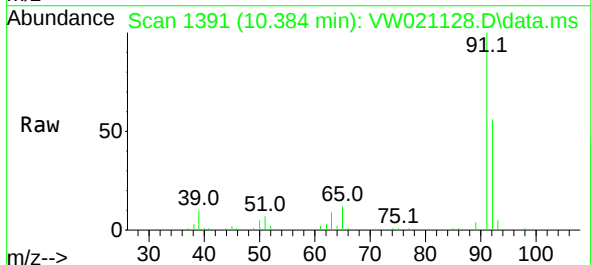
Instrument :
MSVOA_W
ClientSampleId :

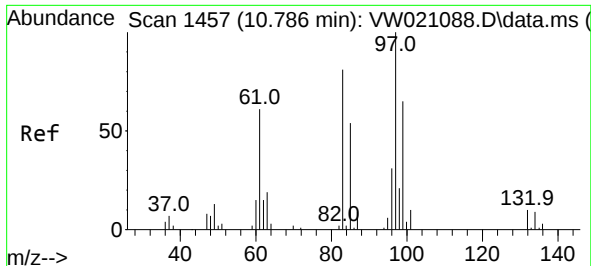
Tgt Ion: 43 Resp: 480
Ion Ratio Lower Upper
43 100
58 34.2 28.8 43.2
100 0.0 10.0 15.0#



#42
Toluene
Concen: 10.565 ug/L
RT: 10.384 min Scan# 1391
Delta R.T. -0.006 min
Lab File: VW021128.D
Acq: 04 Dec 2021 19:16

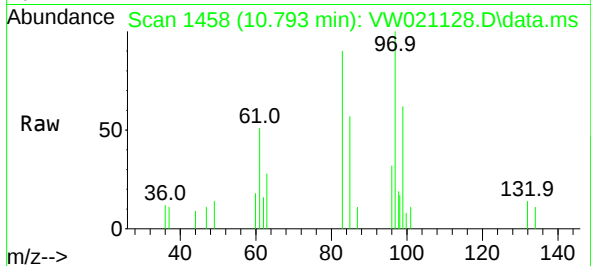
Tgt Ion: 91 Resp: 13926
Ion Ratio Lower Upper
91 100
92 56.2 41.7 77.5



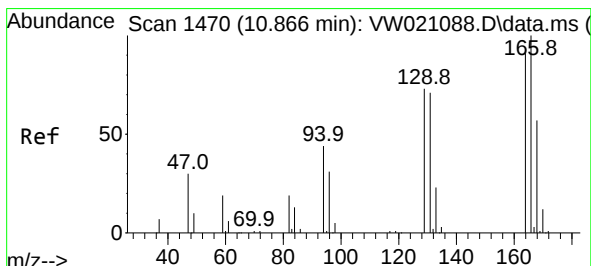
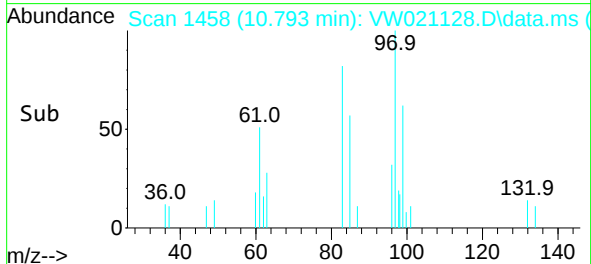
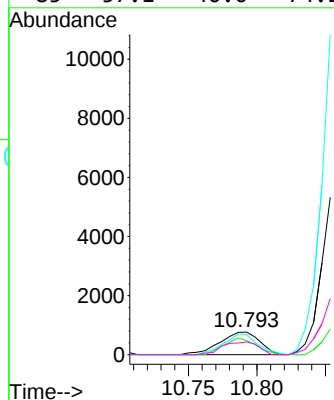


#45
1,1,2-Trichloroethane
Concen: 7.070 ug/L
RT: 10.793 min Scan# 1457
Delta R.T. 0.006 min
Lab File: VW021128.D
Acq: 04 Dec 2021 19:16

Instrument :
MSVOA_W
ClientSampleId :

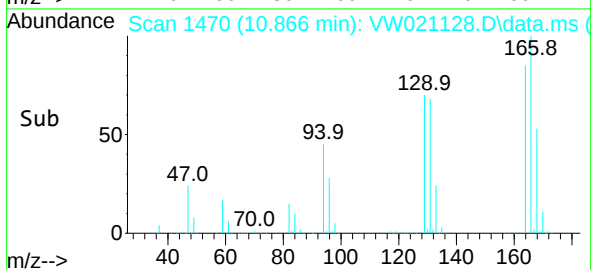
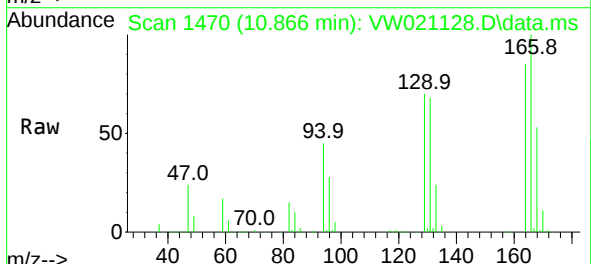
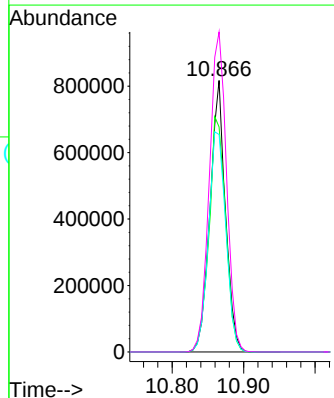


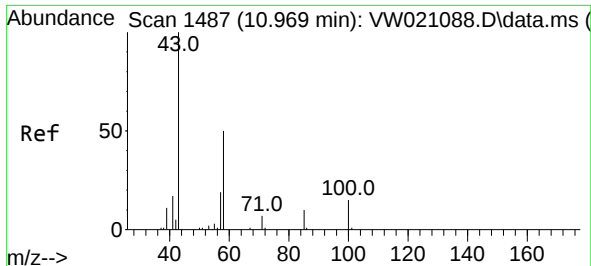
Tgt Ion: 97 Resp: 1546
Ion Ratio Lower Upper
97 100
99 61.9 43.0 79.8
83 89.9 62.6 116.3
85 57.1 40.0 74.2



#46
Tetrachloroethene
Concen: 4190.548 ug/L
RT: 10.866 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VW021128.D
Acq: 04 Dec 2021 19:16

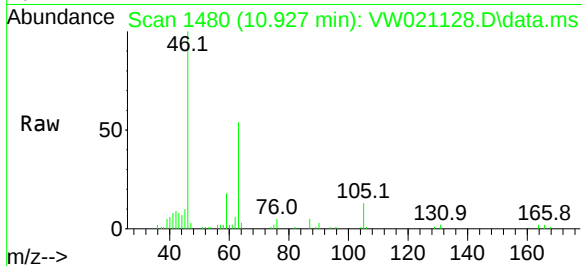
Tgt Ion: 164 Resp: 1221716
Ion Ratio Lower Upper
164 100
129 82.9 65.5 121.7
131 80.1 59.7 110.9
166 117.9 88.7 164.7



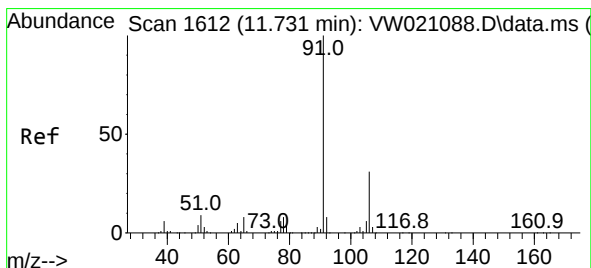
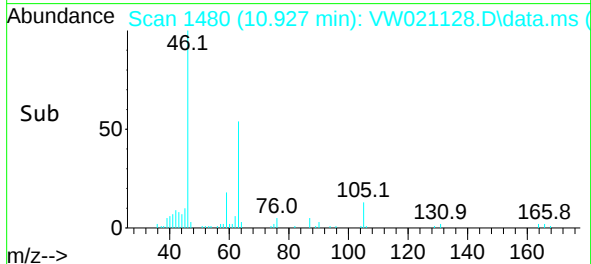
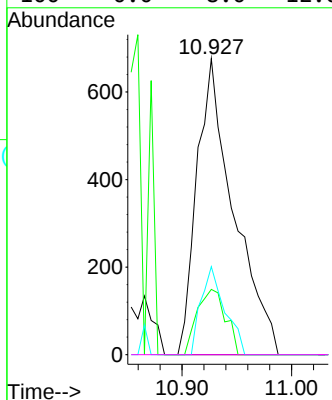


#48
2-Hexanone
Concen: 12.326 ug/L
RT: 10.927 min Scan# 1487
Delta R.T. -0.043 min
Lab File: VW021128.D
Acq: 04 Dec 2021 19:16

Instrument :
MSVOA_W
ClientSampleId :

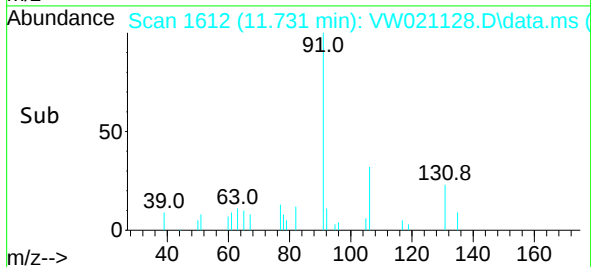
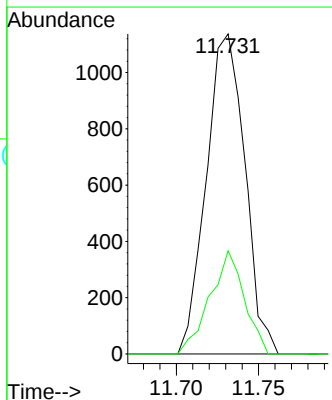
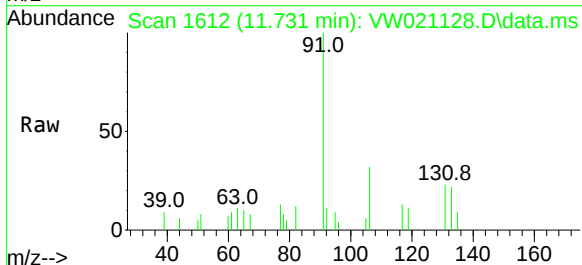


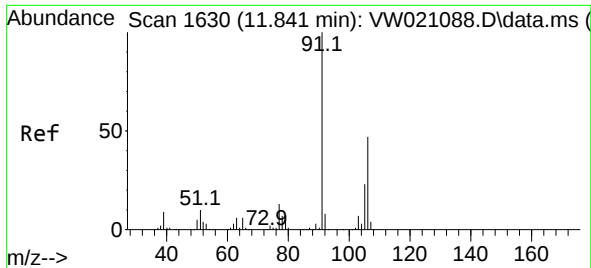
Tgt Ion: 43 Resp: 1580
Ion Ratio Lower Upper
43 100
58 17.0 40.2 60.2#
57 19.3 14.3 21.5
100 0.0 8.0 12.0#



#52
Ethylbenzene
Concen: 1.251 ug/L
RT: 11.731 min Scan# 1612
Delta R.T. 0.000 min
Lab File: VW021128.D
Acq: 04 Dec 2021 19:16

Tgt Ion: 91 Resp: 1856
Ion Ratio Lower Upper
91 100
106 32.3 21.5 39.9

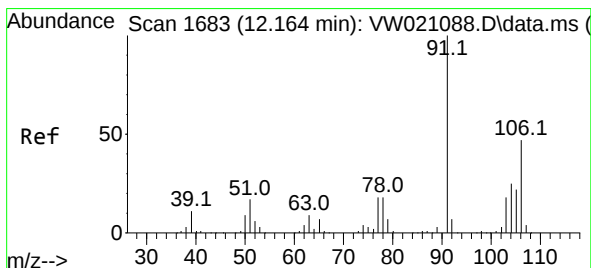
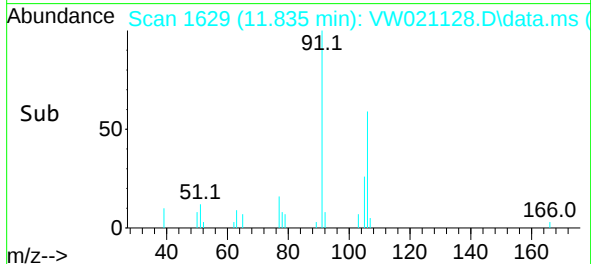
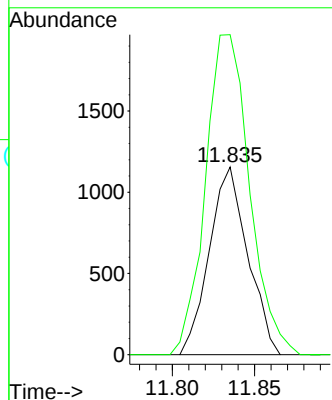
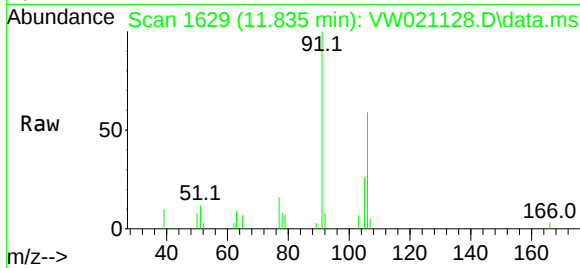




#53
m,p-Xylene
Concen: 3.064 ug/L
RT: 11.835 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW021128.D
Acq: 04 Dec 2021 19:16

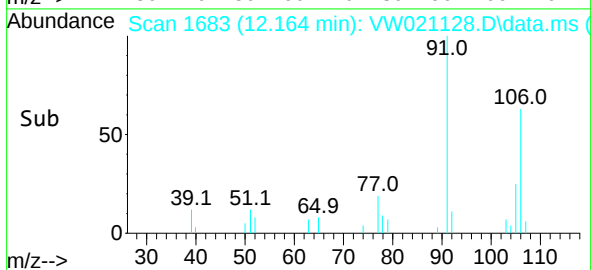
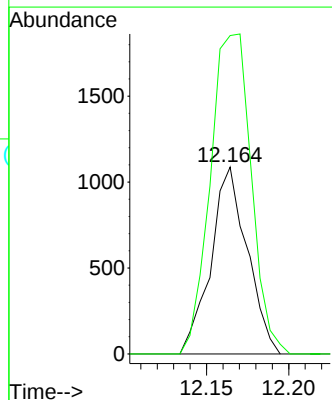
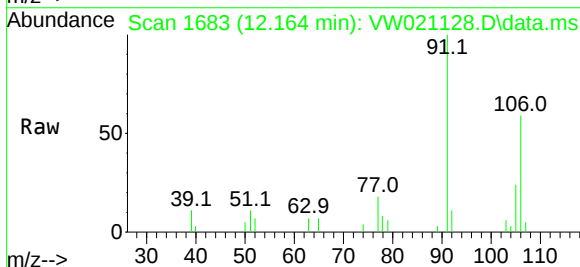
Instrument :
MSVOA_W
ClientSampleId :

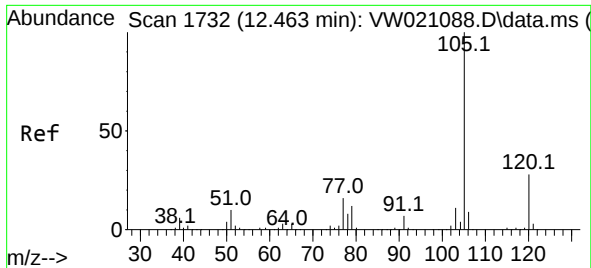
Tgt Ion:106 Resp: 1881
Ion Ratio Lower Upper
106 100
91 170.6 149.9 278.3



#54
o-Xylene
Concen: 2.892 ug/L
RT: 12.164 min Scan# 1683
Delta R.T. 0.000 min
Lab File: VW021128.D
Acq: 04 Dec 2021 19:16

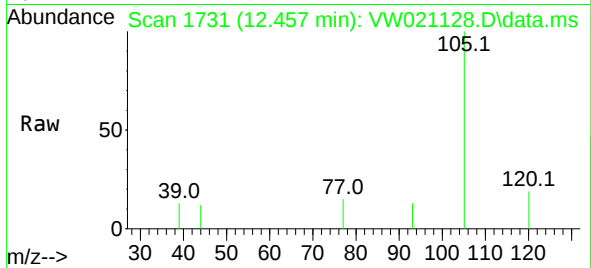
Tgt Ion:106 Resp: 1674
Ion Ratio Lower Upper
106 100
91 170.5 153.6 285.3



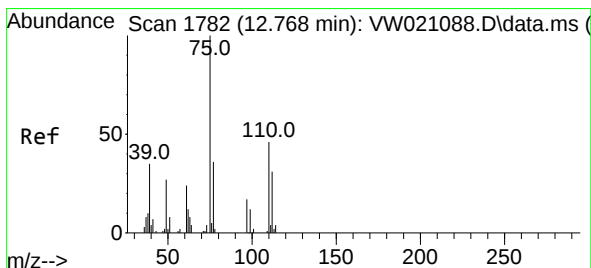
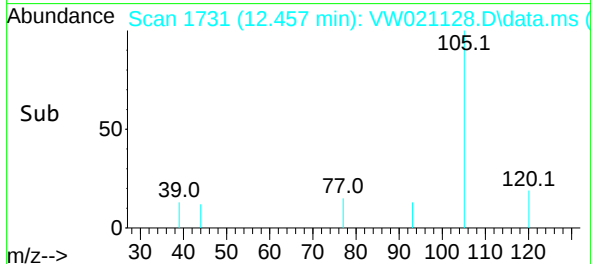
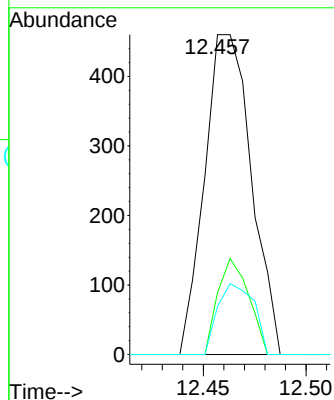


#60
Isopropylbenzene
Concen: 2.159 ug/L
RT: 12.457 min Scan# 1731
Delta R.T. -0.006 min
Lab File: VW021128.D
Acq: 04 Dec 2021 19:16

Instrument :
MSVOA_W
ClientSampleId :

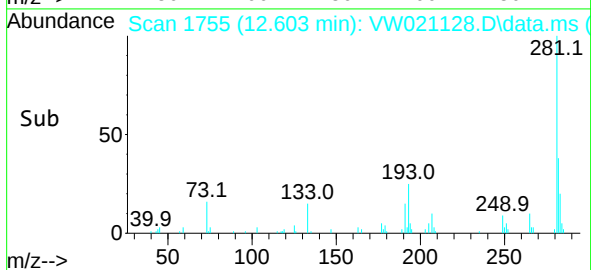
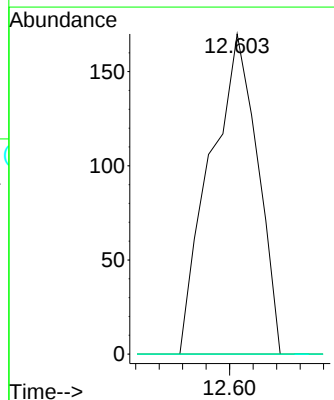
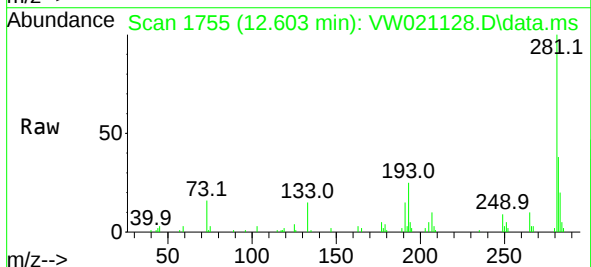


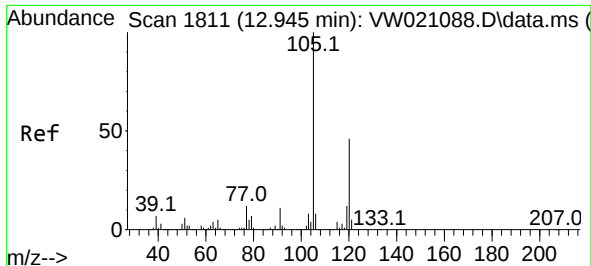
Tgt Ion:105 Resp: 729
Ion Ratio Lower Upper
105 100
120 19.9 20.1 30.1#
77 17.0 13.8 20.8



#61
1,2,3-Trichloropropane
Concen: 5.847 ug/L
RT: 12.603 min Scan# 1755
Delta R.T. -0.165 min
Lab File: VW021128.D
Acq: 04 Dec 2021 19:16

Tgt Ion: 75 Resp: 238
Ion Ratio Lower Upper
75 100
77 52.1 25.8 38.8#
110 0.0 29.0 43.4#





#62

1,3,5-Trimethylbenzene

Concen: 2.733 ug/L

RT: 13.249 min Scan# 1861

Delta R.T. 0.305 min

Lab File: VW021128.D

Acq: 04 Dec 2021 19:16

Instrument :

MSVOA_W

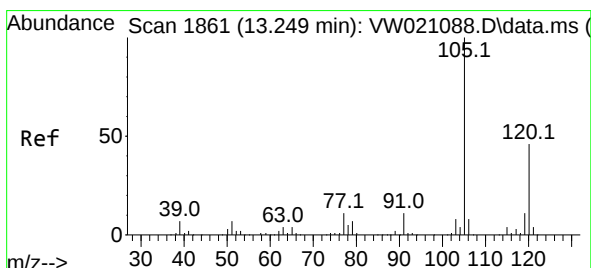
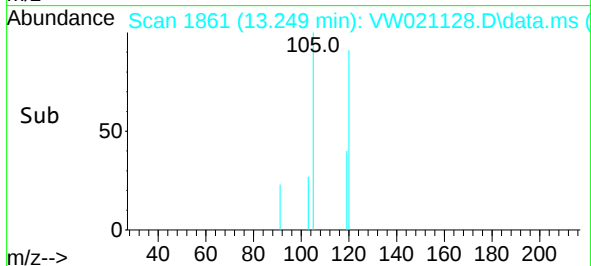
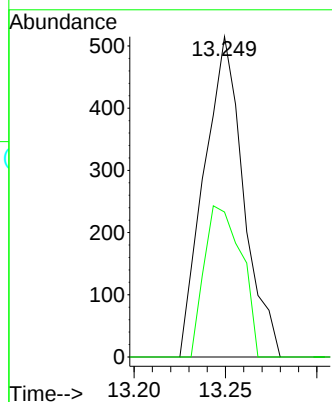
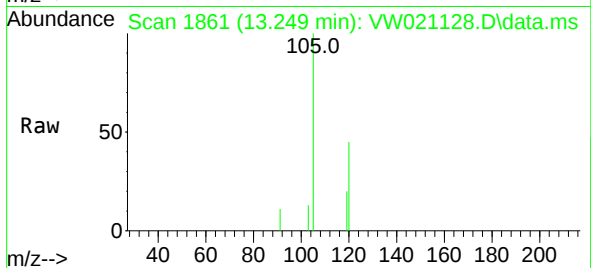
ClientSampleId :

Tgt Ion:105 Resp: 773

Ion Ratio Lower Upper

105 100

120 44.5 37.4 56.2



#63

1,2,4-Trimethylbenzene

Concen: 2.718 ug/L

RT: 13.249 min Scan# 1861

Delta R.T. 0.000 min

Lab File: VW021128.D

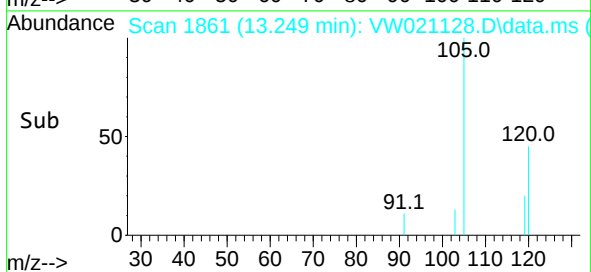
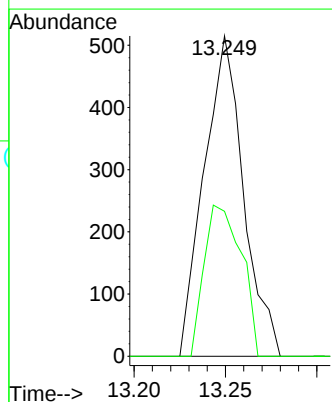
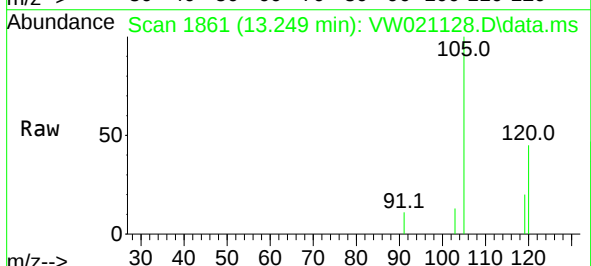
Acq: 04 Dec 2021 19:16

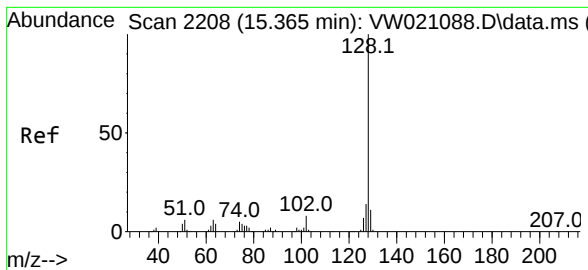
Tgt Ion:105 Resp: 773

Ion Ratio Lower Upper

105 100

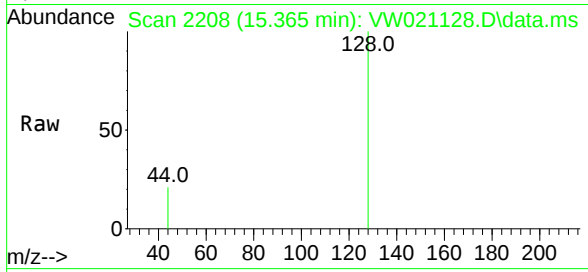
120 44.5 35.0 52.6





#71
Naphthalene
Concen: 3.109 ug/L
RT: 15.365 min Scan# 21
Delta R.T. 0.000 min
Lab File: VW021128.D
Acq: 04 Dec 2021 19:16

Instrument :
MSVOA_W
ClientSampleId :



Tgt Ion:	128	Resp:	555
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.7	16.1#
129	0.0	8.6	12.8#

