

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW120822\
 Data File : VW029500.D
 Acq On : 09 Dec 2022 02:01
 Operator : SY/MD
 Sample : N5915-10
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 F5N09

Quant Time: Dec 09 04:17:21 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM120722WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Dec 08 01:48:46 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.609	114	532270	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.863	117	516614	50.000	ug/L	0.02
58) 1,4-Dichlorobenzene-d4	11.246	152	306753	50.000	ug/L	# 0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	104504	32.062	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery =	64.120%		
7) Chloroethane-d5	1.564	69	96325	38.757	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	77.520%		
11) 1,1-Dichloroethene-d2	2.105	63	148114	29.135	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	58.260%#		
21) 2-Butanone-d5	3.867	46	185536	93.313	ug/L	0.00
Spiked Amount 100.000	Range 40 - 130		Recovery =	93.310%		
24) Chloroform-d	4.339	84	256444	41.810	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	83.620%		
26) 1,2-Dichloroethane-d4	5.024	65	154957	44.234	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	88.460%		
32) Benzene-d6	5.043	84	533090	39.052	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	78.100%		
36) 1,2-Dichloropropane-d6	6.063	67	168086	40.312	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery =	80.620%		
41) Toluene-d8	7.310	98	491907	38.245	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	76.480%#		
43) trans-1,3-Dichloroprop...	7.612	79	72281	34.329	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	68.660%		
47) 2-Hexanone-d5	8.085	63	170073	95.518	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery =	95.520%		
56) 1,1,2,2-Tetrachloroeth...	10.207	84	245755	41.245	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery =	82.480%		
66) 1,2-Dichlorobenzene-d4	11.352	152	77	0.013	ug/L	-0.26
Spiked Amount 50.000	Range 80 - 120		Recovery =	0.020%#		
Target Compounds						Qvalue
5) Vinyl chloride	1.310	62	245344	61.345	ug/L	99
8) Chloroethane	1.580	64	2065	0.927	ug/L	89
12) 1,1-Dichloroethene	2.114	96	4424	1.555	ug/L	# 1
13) Acetone	2.156	43	3383	2.612	ug/L	95
17) trans-1,2-Dichloroethene	2.757	96	42602	12.995	ug/L	95
19) 1,1-Dichloroethane	3.185	63	6502	1.158	ug/L	93
20) cis-1,2-Dichloroethene	3.902	96	252362	70.007	ug/L	95
27) 1,2-Dichloroethane	5.127	62	10570	2.570	ug/L	96
33) Benzene	5.092	78	1038558	71.320	ug/L	100
42) Toluene	7.384	91	50380	3.214	ug/L	100
46) Tetrachloroethene	7.973	164	6521	2.223	ug/L	90
48) 2-Hexanone	8.085	43	17120	5.347	ug/L	# 62
49) Dibromochloromethane	7.969	129	5889	1.469	ug/L	# 10
52) Ethylbenzene	9.014	91	15071	0.915	ug/L	98
54) o-Xylene	9.542	106	6759	1.048	ug/L	91
60) Isopropylbenzene	9.924	105	29183	1.620	ug/L	100
63) 1,2,4-Trimethylbenzene	10.908	105	12592	0.798	ug/L	98
64) 1,3-Dichlorobenzene	11.175	146	1802630	204.706	ug/L	100
65) 1,4-Dichlorobenzene	11.175	146	1802630	201.424	ug/L	99

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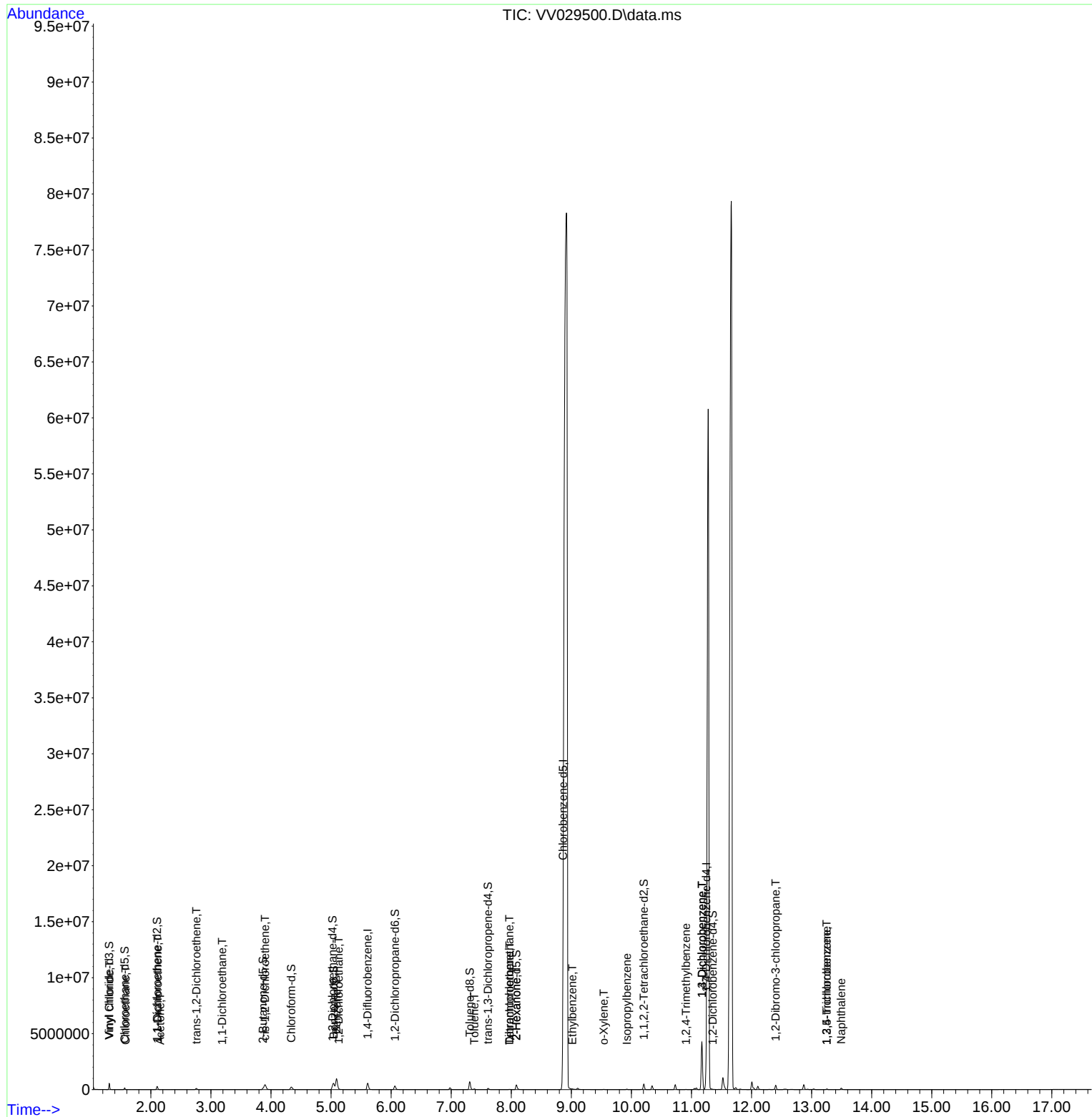
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1,2-Dibromo-3-chloropr...	12.400	75	2023	1.375	ug/L #	1
69) 1,3,5-Trichlorobenzene	13.252	180	9902	1.413	ug/L	98
70) 1,2,4-trichlorobenzene	13.252	180	9902	1.589	ug/L	98
71) Naphthalene	13.493	128	116983	8.276	ug/L	98

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

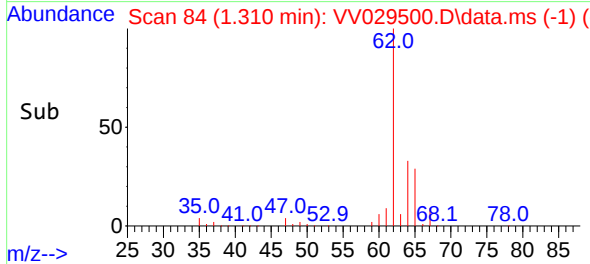
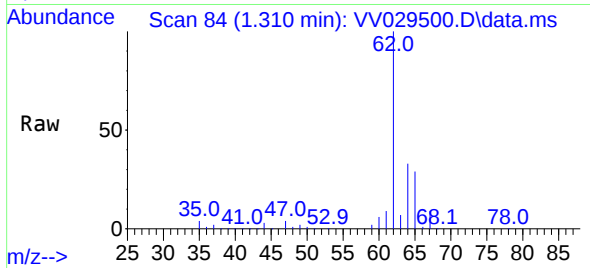
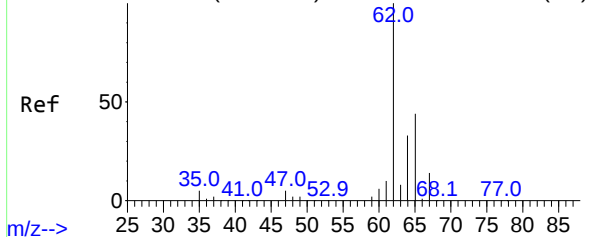
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV120822\
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Response via : Initial Calibration



Abundance Scan 84 (1.310 min): VV029485.D\data.ms (-76)



#5

Vinyl chloride

Concen: 61.345 ug/L

RT: 1.310 min Scan# 84

Delta R.T. 0.003 min

Lab File: VV029500.D

Acq: 09 Dec 2022 02:01

Instrument :

MSVOA_V

ClientSampleId :

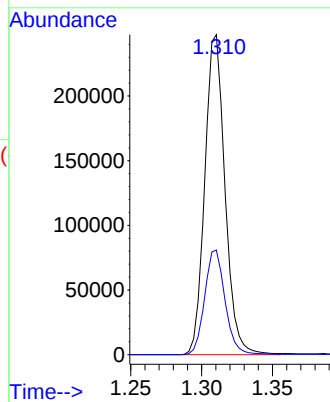
F5N09

Tgt Ion: 62 Resp: 245344

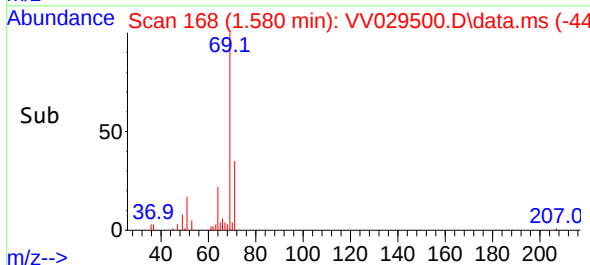
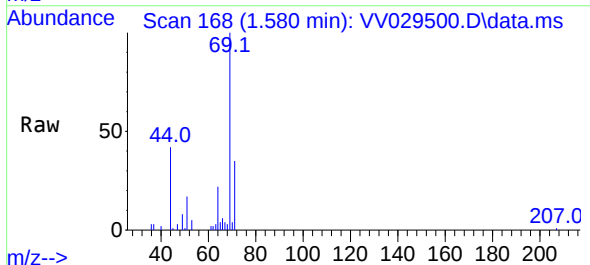
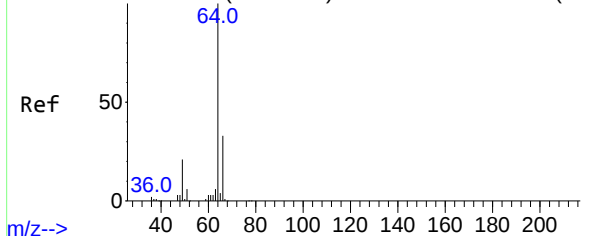
Ion Ratio Lower Upper

62 100

64 32.7 22.5 41.9



Abundance Scan 168 (1.580 min): VV029485.D\data.ms (-15)



#8

Chloroethane

Concen: 0.927 ug/L

RT: 1.580 min Scan# 168

Delta R.T. -0.000 min

Lab File: VV029500.D

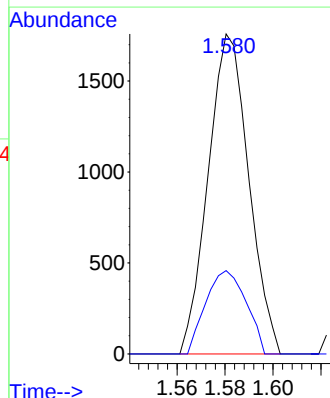
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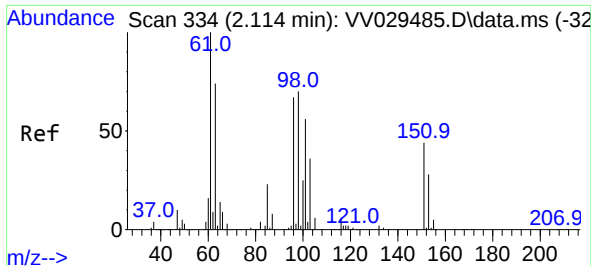
Tgt Ion: 64 Resp: 2065

Ion Ratio Lower Upper

64 100

66 26.0 22.5 41.9





#12

1,1-Dichloroethene

Concen: 1.555 ug/L

RT: 2.114 min Scan# 31

Delta R.T. -0.000 min

Lab File: VV029500.D

Acq: 09 Dec 2022 02:01

Instrument :

MSVOA_V

ClientSampleId :

F5N09

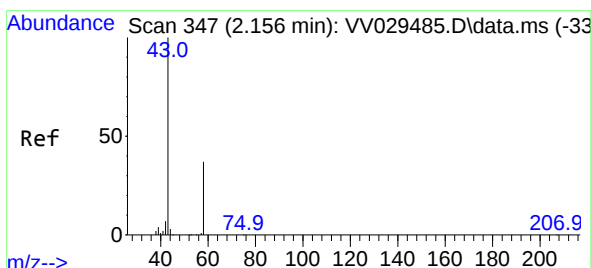
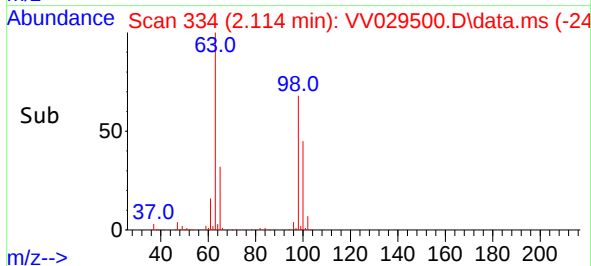
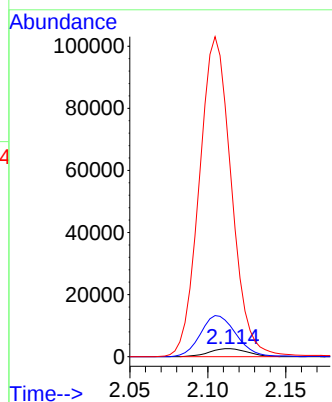
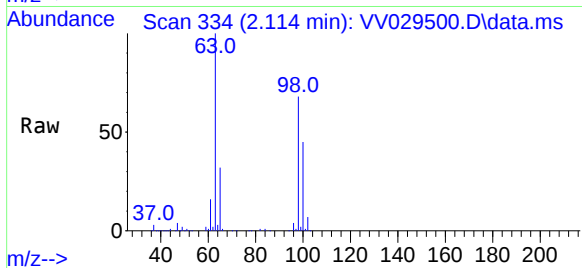
Tgt Ion: 96 Resp: 4424

Ion Ratio Lower Upper

96 100

61 383.4 103.3 191.9#

63 2347.8 77.3 143.7#



#13

Acetone

Concen: 2.612 ug/L

RT: 2.156 min Scan# 347

Delta R.T. -0.000 min

Lab File: VV029500.D

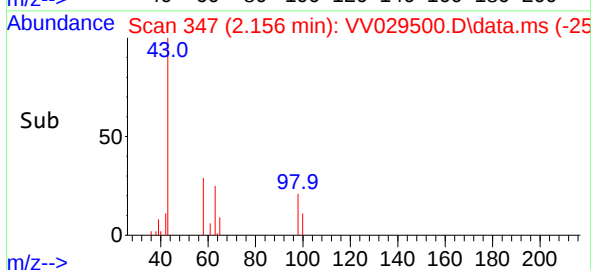
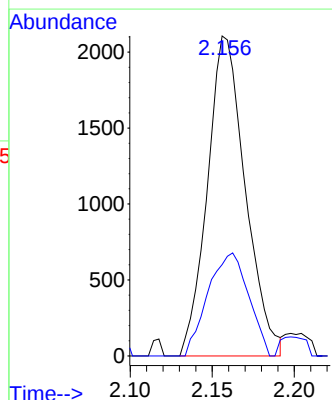
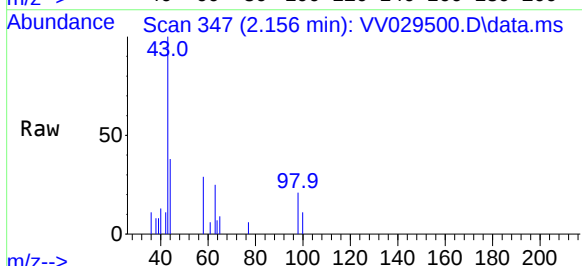
Acq: 09 Dec 2022 02:01

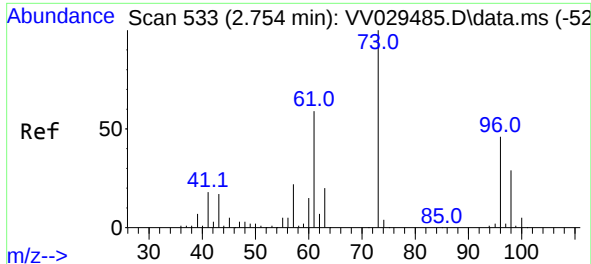
Tgt Ion: 43 Resp: 3383

Ion Ratio Lower Upper

43 100

58 34.5 0.0 74.8

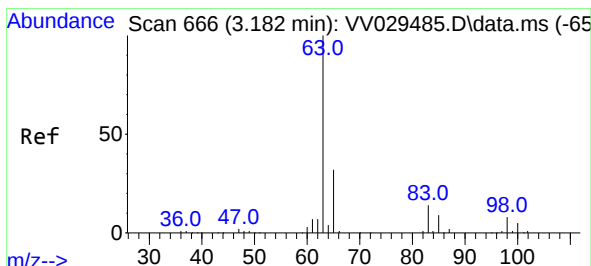
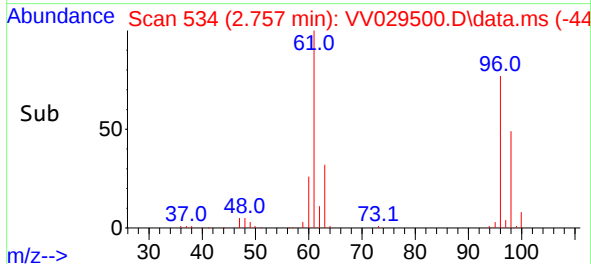
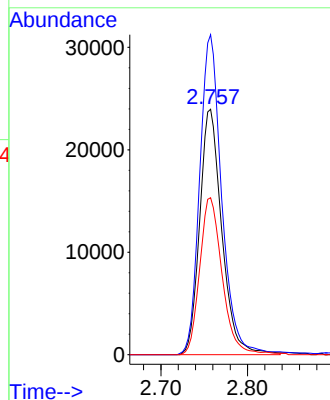
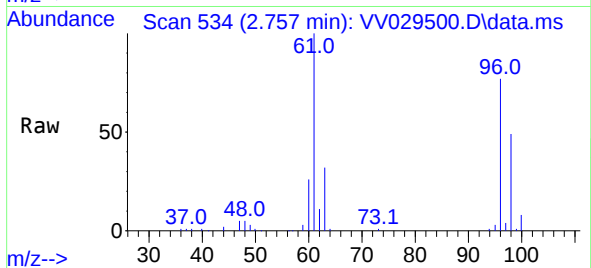




#17
trans-1,2-Dichloroethene
Concen: 12.995 ug/L
RT: 2.757 min Scan# 51
Delta R.T. 0.003 min
Lab File: VV029500.D
Acq: 09 Dec 2022 02:01

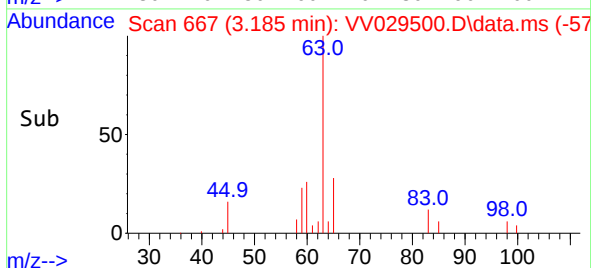
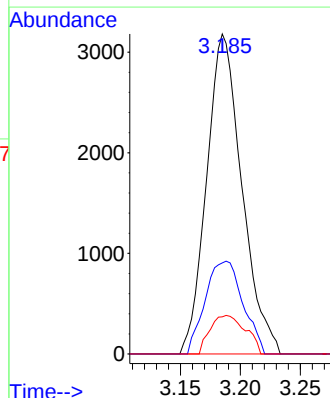
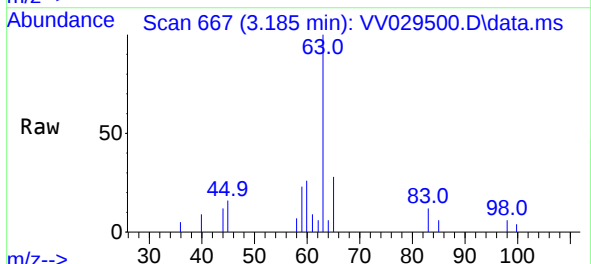
Instrument :
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ClientSampleId :
F5N09

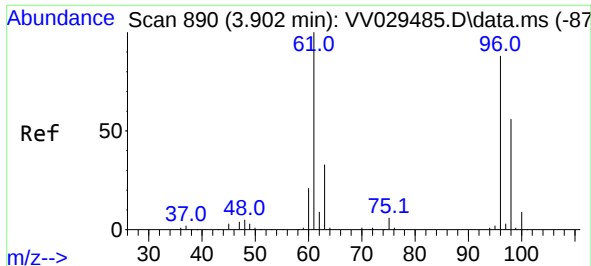
Tgt Ion: 96 Resp: 42602
Ion Ratio Lower Upper
96 100
61 130.4 86.4 160.4
98 63.9 43.4 80.6



#19
1,1-Dichloroethane
Concen: 1.158 ug/L
RT: 3.185 min Scan# 667
Delta R.T. -0.000 min
Lab File: VV029500.D
Acq: 09 Dec 2022 02:01

Tgt Ion: 63 Resp: 6502
Ion Ratio Lower Upper
63 100
65 28.5 22.5 41.7
83 11.6 10.4 19.2

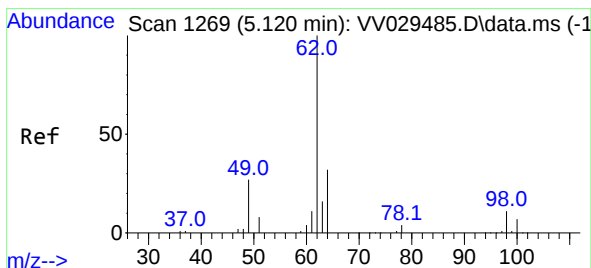
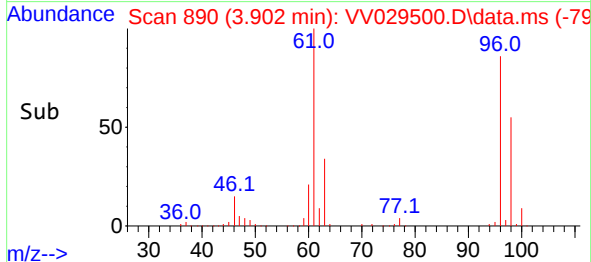
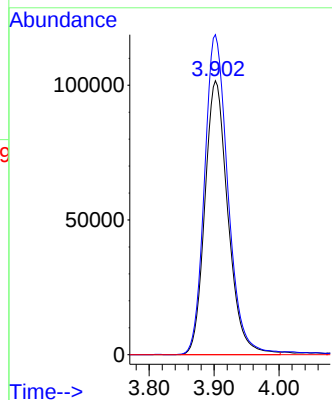
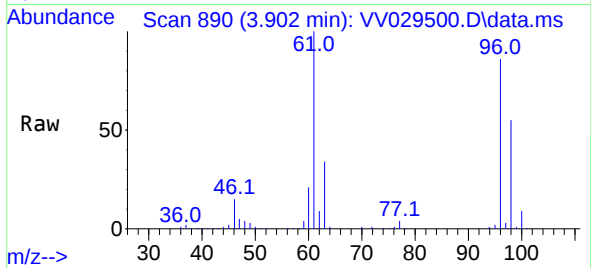




#20
cis-1,2-Dichloroethene
Concen: 70.007 ug/L
RT: 3.902 min Scan# 890
Delta R.T. -0.003 min
Lab File: VV029500.D
Acq: 09 Dec 2022 02:01

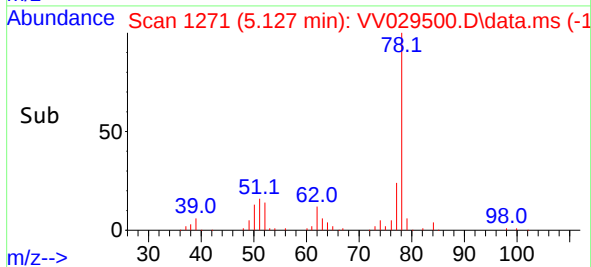
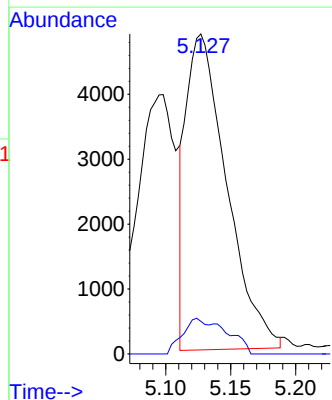
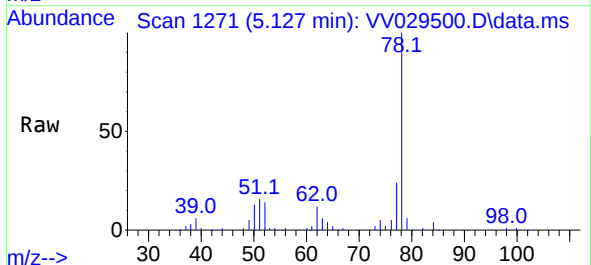
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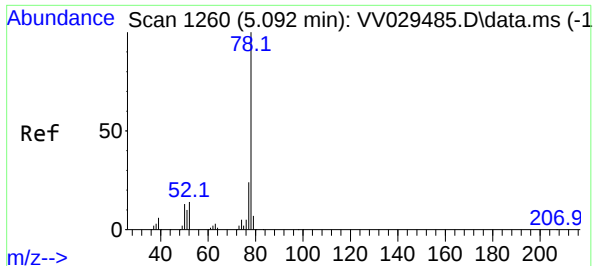
Tgt Ion: 96 Resp: 252362
Ion Ratio Lower Upper
96 100
61 116.8 78.0 144.9
68 0.0 0.0 0.0



#27
1,2-Dichloroethane
Concen: 2.570 ug/L
RT: 5.127 min Scan# 1271
Delta R.T. 0.003 min
Lab File: VV029500.D
Acq: 09 Dec 2022 02:01

Tgt Ion: 62 Resp: 10570
Ion Ratio Lower Upper
62 100
98 10.2 9.4 14.0

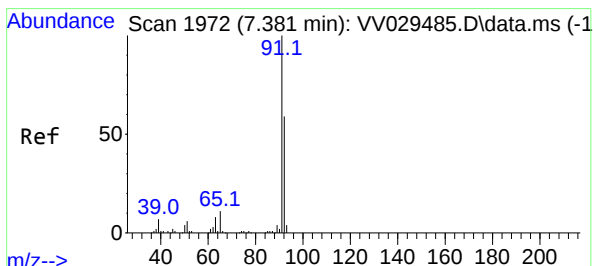
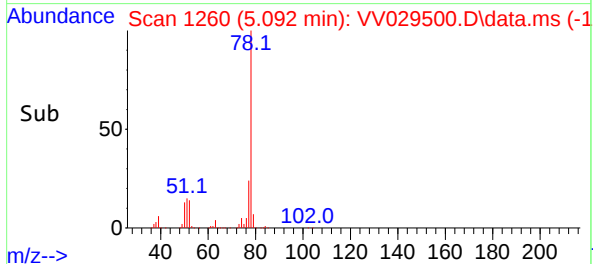
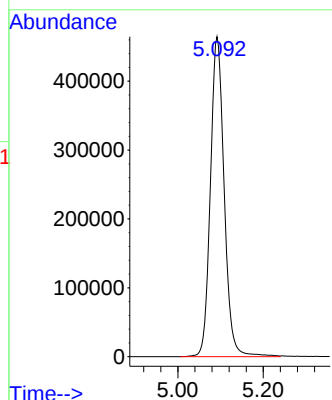
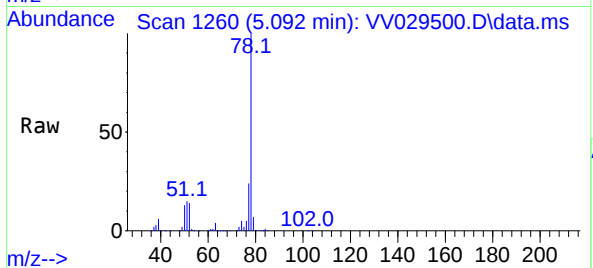




#33
Benzene
Concen: 71.320 ug/L
RT: 5.092 min Scan# 11
Delta R.T. -0.003 min
Lab File: VV029500.D
Acq: 09 Dec 2022 02:01

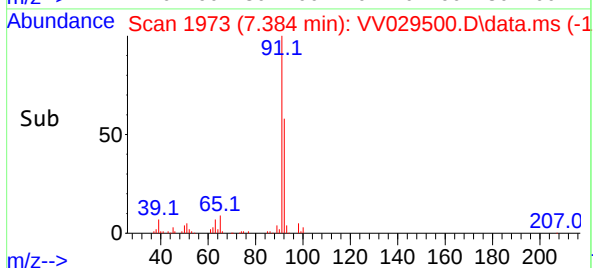
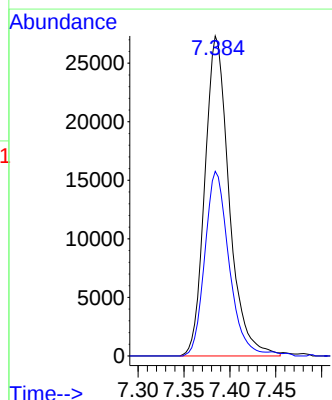
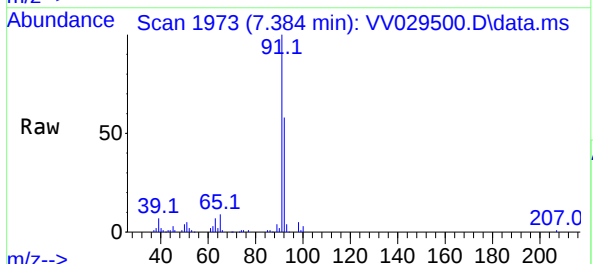
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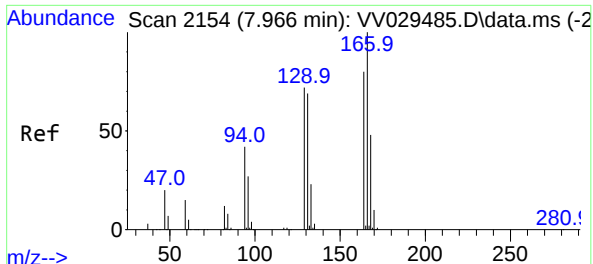
Tgt Ion: 78 Resp: 1038558



#42
Toluene
Concen: 3.214 ug/L
RT: 7.384 min Scan# 1973
Delta R.T. 0.003 min
Lab File: VV029500.D
Acq: 09 Dec 2022 02:01

Tgt Ion: 91 Resp: 50380
Ion Ratio Lower Upper
91 100
92 57.7 40.6 75.4





#46

Tetrachloroethene

Concen: 2.223 ug/L

RT: 7.973 min Scan# 2154

Delta R.T. 0.003 min

Lab File: VV029500.D

Acq: 09 Dec 2022 02:01

Instrument :

MSVOA_V

ClientSampleId :

F5N09

Tgt Ion:164 Resp: 6521

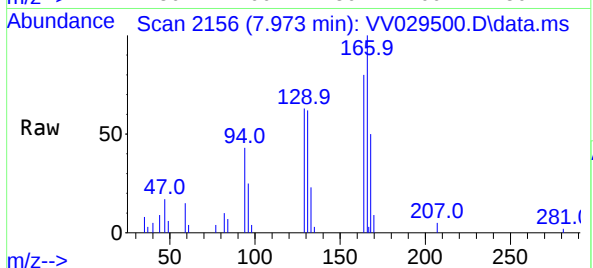
Ion Ratio Lower Upper

164 100

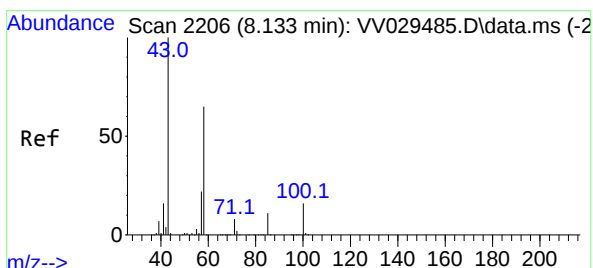
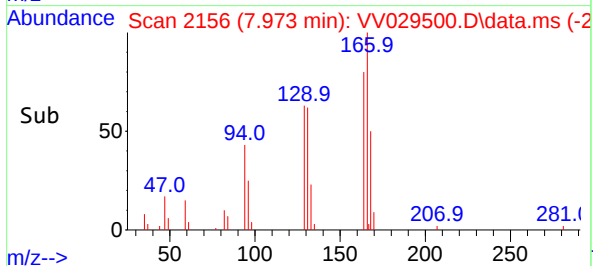
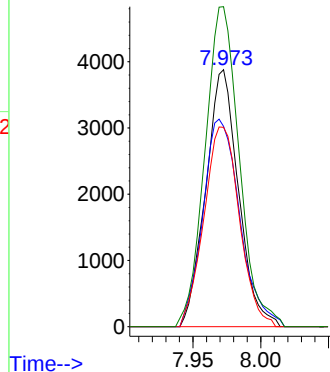
129 77.9 65.3 121.3

131 77.6 63.1 117.1

166 124.5 90.8 168.6



Abundance



#48

2-Hexanone

Concen: 5.347 ug/L

RT: 8.085 min Scan# 2191

Delta R.T. -0.048 min

Lab File: VV029500.D

Acq: 09 Dec 2022 02:01

Tgt Ion: 43 Resp: 17120

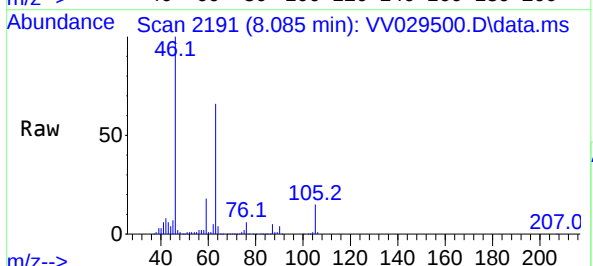
Ion Ratio Lower Upper

43 100

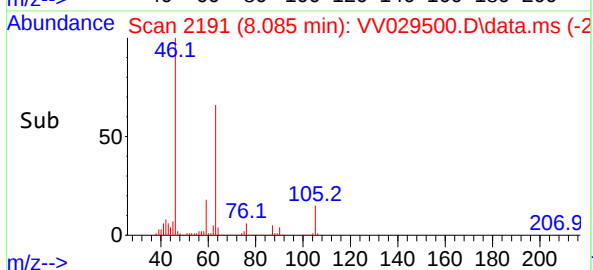
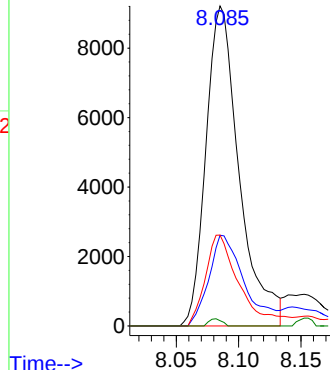
58 30.1 54.1 81.1#

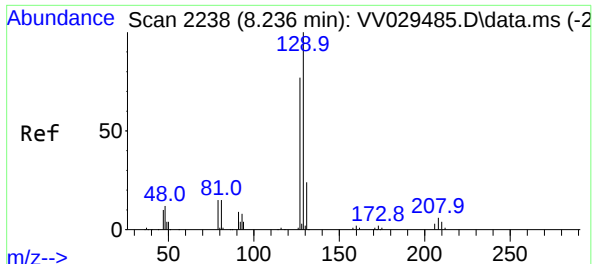
57 27.0 17.4 26.0#

100 0.9 13.6 20.4#



Abundance





#49

Dibromochloromethane

Concen: 1.469 ug/L

RT: 7.969 min Scan# 2155

Delta R.T. -0.267 min

Lab File: VV029500.D

Acq: 09 Dec 2022 02:01

Instrument :

MSVOA_V

ClientSampleId :

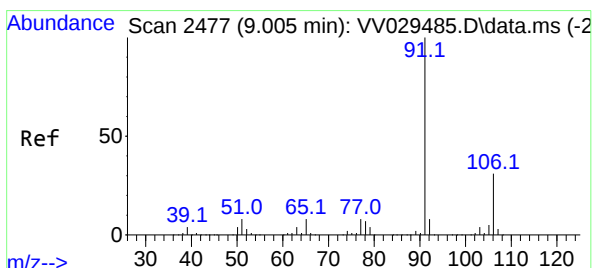
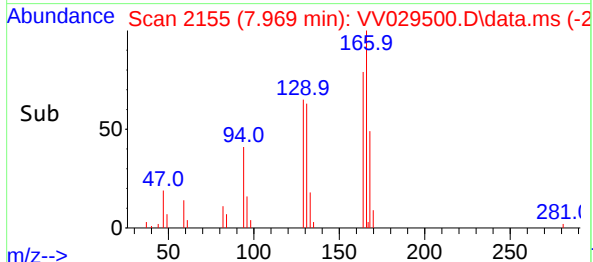
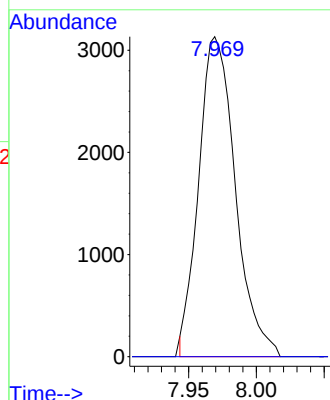
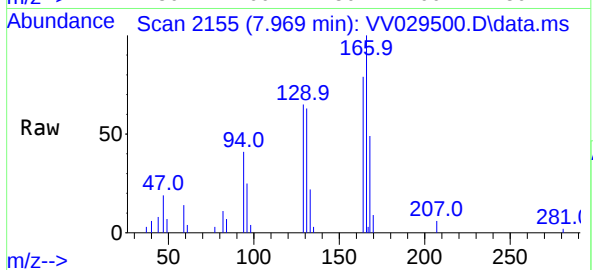
F5N09

Tgt Ion:129 Resp: 5889

Ion Ratio Lower Upper

129 100

127 0.0 55.2 102.4#



#52

Ethylbenzene

Concen: 0.915 ug/L

RT: 9.014 min Scan# 2480

Delta R.T. 0.010 min

Lab File: VV029500.D

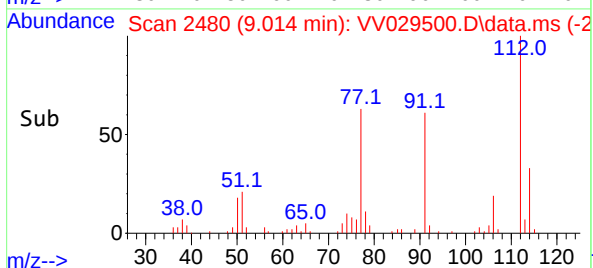
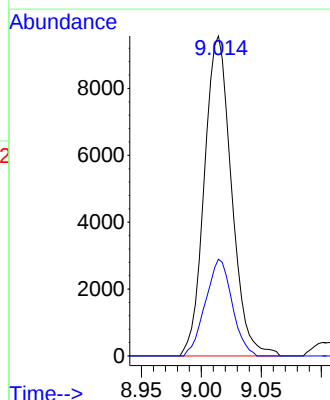
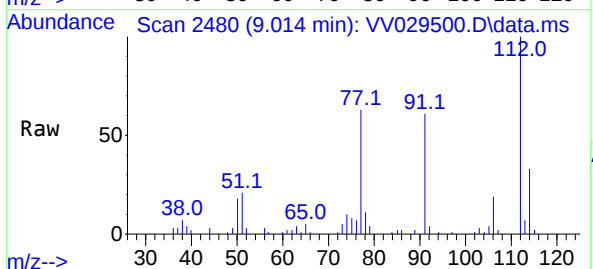
Acq: 09 Dec 2022 02:01

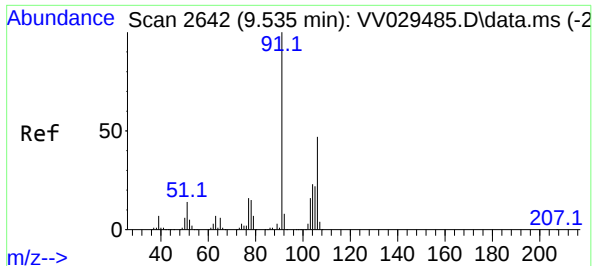
Tgt Ion: 91 Resp: 15071

Ion Ratio Lower Upper

91 100

106 30.3 21.8 40.6

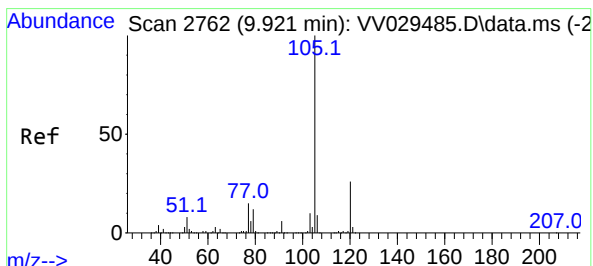
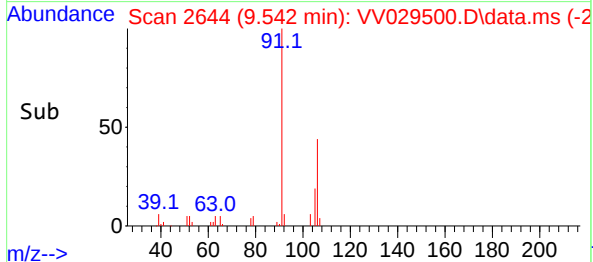
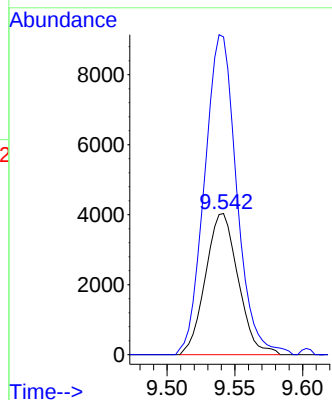
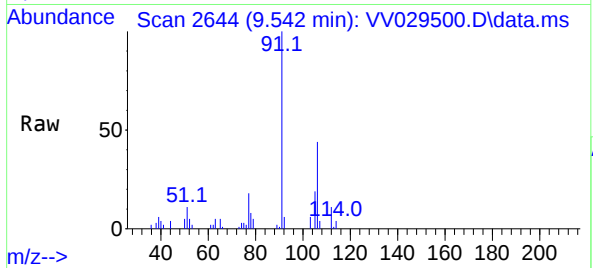




#54
o-Xylene
Concen: 1.048 ug/L
RT: 9.542 min Scan# 20
Delta R.T. 0.006 min
Lab File: VV029500.D
Acq: 09 Dec 2022 02:01

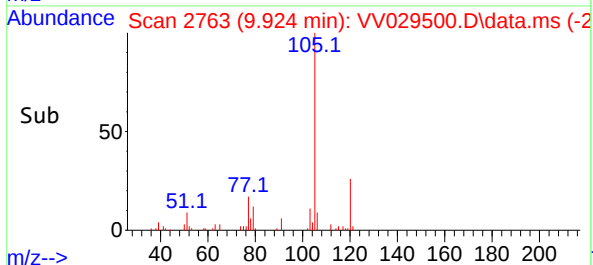
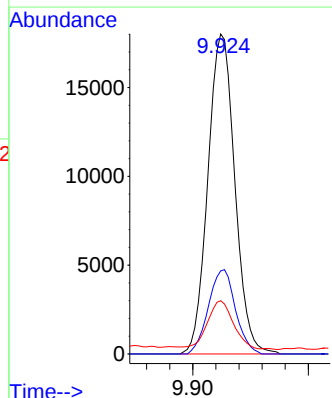
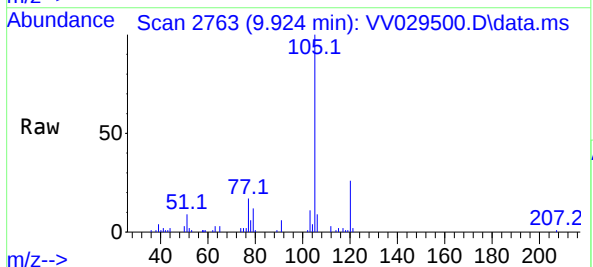
Instrument :
MSVOA_V
ClientSampleId :
F5N09

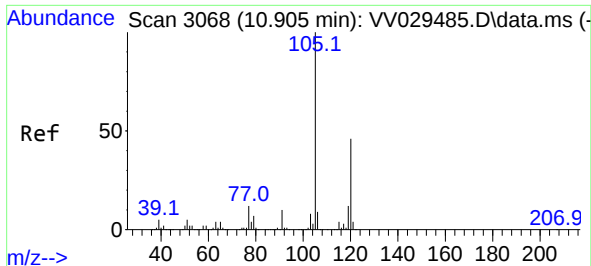
Tgt Ion:106 Resp: 6759
Ion Ratio Lower Upper
106 100
91 225.2 148.0 274.8



#60
Isopropylbenzene
Concen: 1.620 ug/L
RT: 9.924 min Scan# 2763
Delta R.T. 0.003 min
Lab File: VV029500.D
Acq: 09 Dec 2022 02:01

Tgt Ion:105 Resp: 29183
Ion Ratio Lower Upper
105 100
120 26.4 21.1 31.7
77 14.3 11.6 17.4

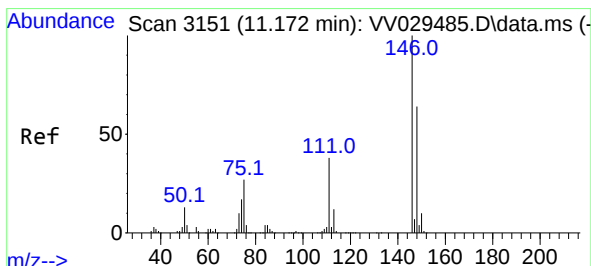
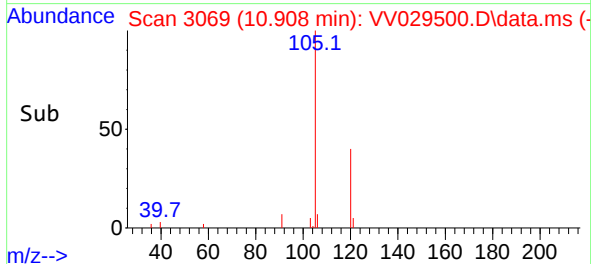
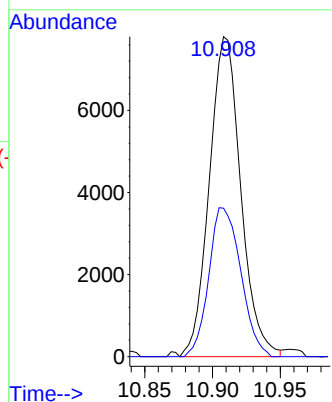
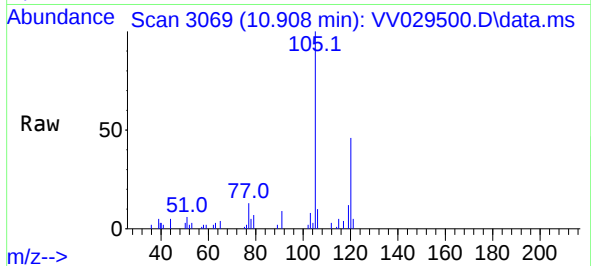




#63
1,2,4-Trimethylbenzene
Concen: 0.798 ug/L
RT: 10.908 min Scan# 3068
Delta R.T. 0.003 min
Lab File: VV029500.D
Acq: 09 Dec 2022 02:01

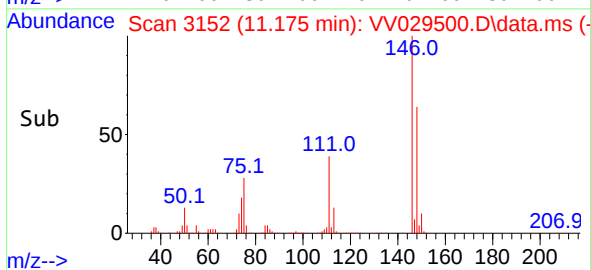
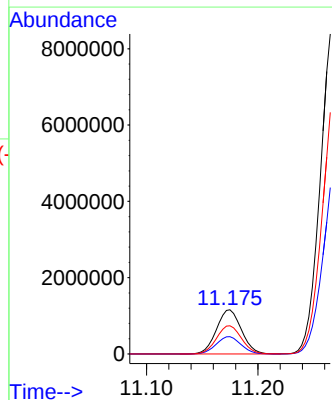
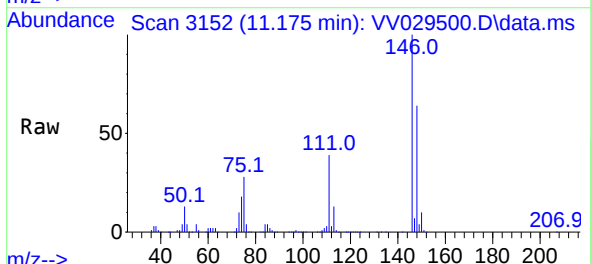
Instrument :
MSVOA_V
ClientSampleId :
F5N09

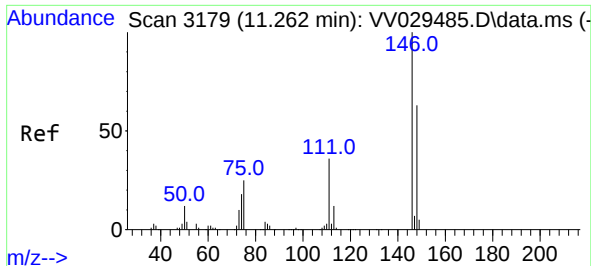
Tgt Ion:105 Resp: 12592
Ion Ratio Lower Upper
105 100
120 47.2 36.7 55.1



#64
1,3-Dichlorobenzene
Concen: 204.706 ug/L
RT: 11.175 min Scan# 3152
Delta R.T. 0.006 min
Lab File: VV029500.D
Acq: 09 Dec 2022 02:01

Tgt Ion:146 Resp: 1802630
Ion Ratio Lower Upper
146 100
111 39.2 27.4 51.0
148 64.0 44.6 82.8

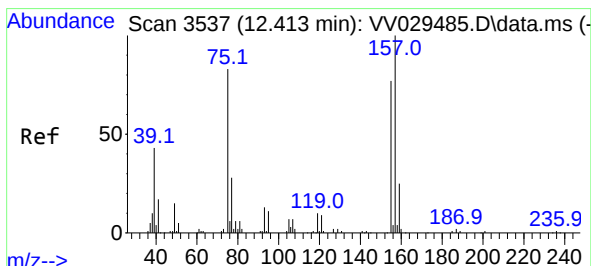
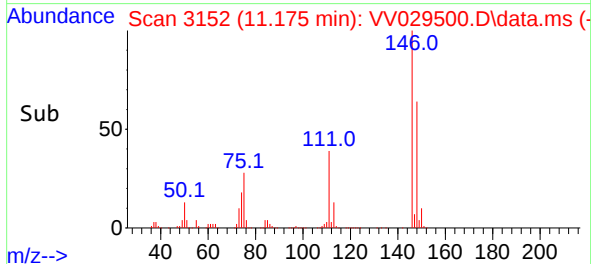
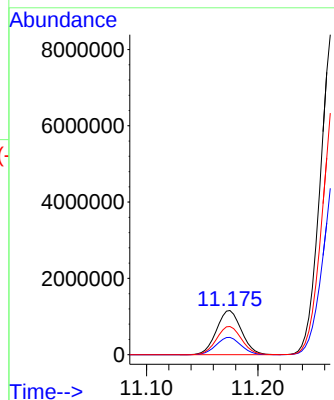
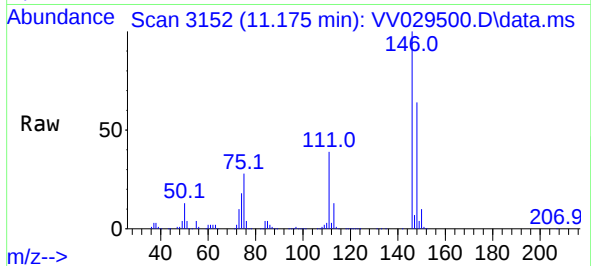




#65
1,4-Dichlorobenzene
Concen: 201.424 ug/L
RT: 11.175 min Scan# 3179
Delta R.T. -0.087 min
Lab File: VV029500.D
Acq: 09 Dec 2022 02:01

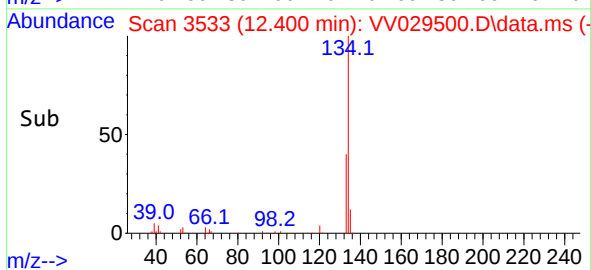
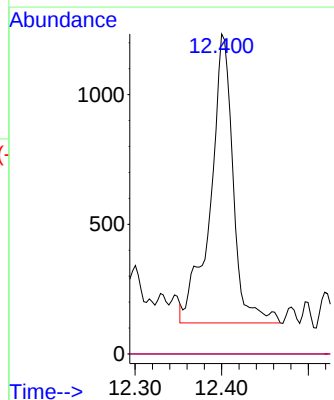
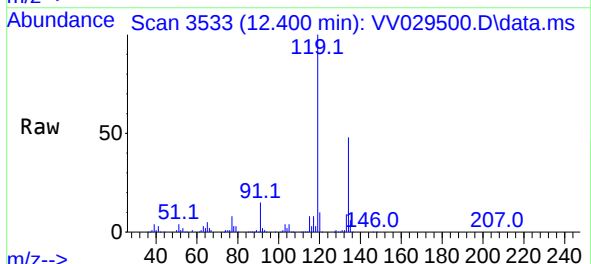
Instrument :
MSVOA_V
ClientSampleId :
F5N09

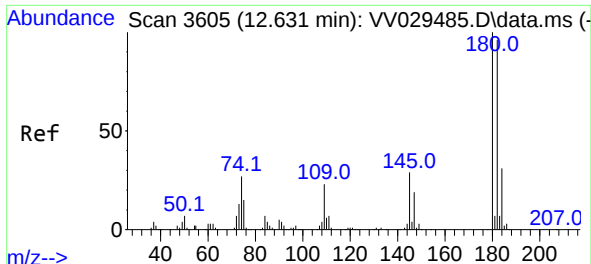
Tgt Ion:146 Resp: 1802630
Ion Ratio Lower Upper
146 100
111 39.2 26.2 48.8
148 64.0 44.7 83.1



#68
1,2-Dibromo-3-chloropropane
Concen: 1.375 ug/L
RT: 12.400 min Scan# 3533
Delta R.T. -0.016 min
Lab File: VV029500.D
Acq: 09 Dec 2022 02:01

Tgt Ion: 75 Resp: 2023
Ion Ratio Lower Upper
75 100
155 0.0 76.2 114.2#
157 0.0 96.0 144.0#





#69

1,3,5-Trichlorobenzene

Concen: 1.413 ug/L

RT: 13.252 min Scan# 31

Delta R.T. 0.620 min

Lab File: VV029500.D

Acq: 09 Dec 2022 02:01

Instrument :

MSVOA_V

ClientSampleId :

F5N09

Tgt Ion:180 Resp: 9902

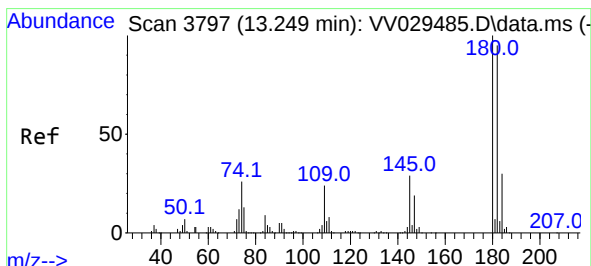
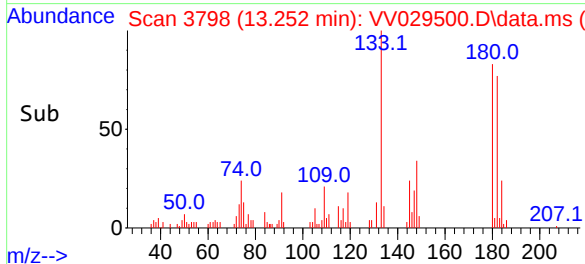
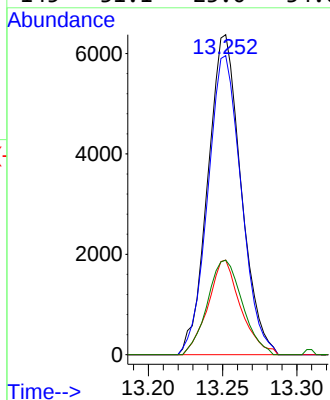
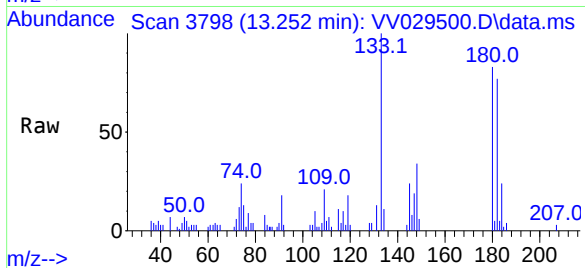
Ion Ratio Lower Upper

180 100

182 94.0 76.5 114.7

184 29.2 24.6 36.8

145 31.1 23.0 34.6



#70

1,2,4-trichlorobenzene

Concen: 1.589 ug/L

RT: 13.252 min Scan# 3798

Delta R.T. 0.003 min

Lab File: VV029500.D

Acq: 09 Dec 2022 02:01

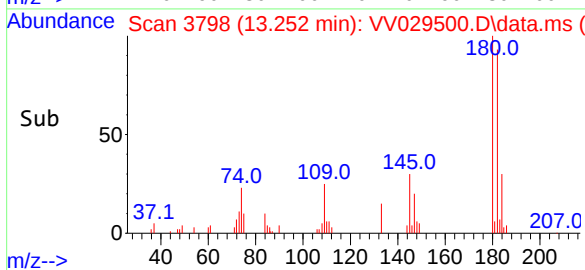
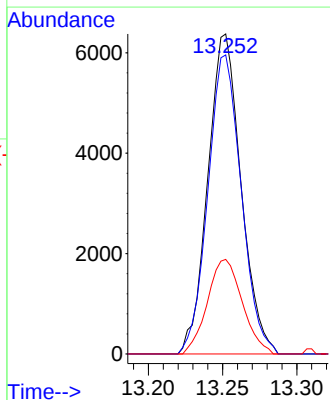
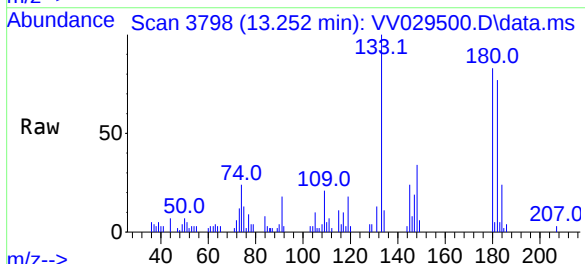
Tgt Ion:180 Resp: 9902

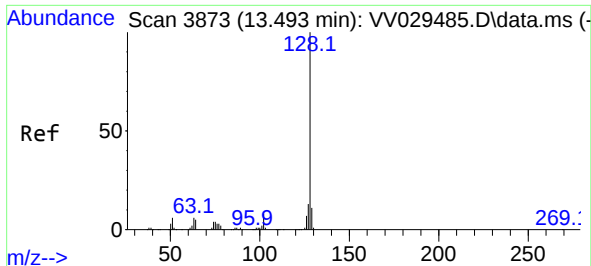
Ion Ratio Lower Upper

180 100

182 94.0 76.3 114.5

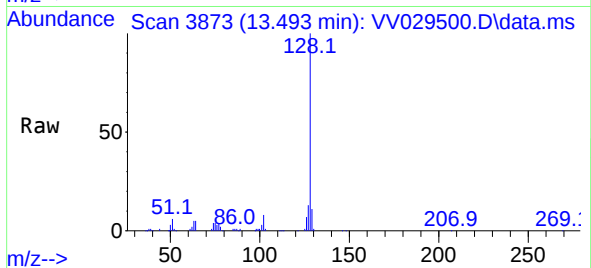
145 31.1 23.7 35.5





#71
Naphthalene
Concen: 8.276 ug/L
RT: 13.493 min Scan# 3873
Delta R.T. -0.000 min
Lab File: VV029500.D
Acq: 09 Dec 2022 02:01

Instrument :
MSVOA_V
ClientSampleId :
F5N09



Tgt Ion:128 Resp: 116983
Ion Ratio Lower Upper
128 100
127 12.0 10.2 15.4
129 10.2 8.5 12.7

