

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW112322\
 Data File : VW029320.D
 Acq On : 24 Nov 2022 01:58
 Operator : SY/MD
 Sample : N5725-15
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Nov 24 03:42:38 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR112322WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Nov 24 01:40:30 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	5.609	114	280900	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.844	117	246325	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.239	152	136135	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	81777	4.731	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	94.600%
7) Chloroethane-d5	1.565	69	61038	4.824	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	96.400%
11) 1,1-Dichloroethene-d2	2.108	63	125966	4.554	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	91.000%
20) 2-Butanone-d5	3.880	46	146113	50.526	ug/L	-0.03
Spiked Amount	50.000	Range	40 - 130	Recovery	=	101.060%
24) Chloroform-d	4.339	84	142198	4.609	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.200%
26) 1,2-Dichloroethane-d4	5.024	65	67251	4.954	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.000%
32) Benzene-d6	5.043	84	322569	4.738	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.800%
36) 1,2-Dichloropropane-d6	6.063	67	93053	4.864	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	97.200%
41) Toluene-d8	7.307	98	303907	4.730	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.600%
43) trans-1,3-Dichloroprop...	7.612	79	32991	4.473	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	89.400%
46) 2-Hexanone-d5	8.082	63	120587	45.868	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	91.740%
56) 1,1,2,2-Tetrachloroeth...	10.207	84	58796	4.981	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	99.600%
66) 1,2-Dichlorobenzene-d4	11.612	152	115223	4.845	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	96.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.217	85	18079	0.863	ug/L	98
3) Chloromethane	1.240	50	824	0.043	ug/L	93
5) Vinyl chloride	1.310	62	2730	0.143	ug/L #	54
12) 1,1-Dichloroethene	2.118	96	60975	4.222	ug/L	98
17) Methyl tert-butyl Ether	2.767	73	5298	0.143	ug/L #	74
18) trans-1,2-Dichloroethene	2.757	96	6315	0.381	ug/L	95
19) 1,1-Dichloroethane	3.182	63	396777	13.299	ug/L	98
22) cis-1,2-Dichloroethene	3.902	96	733454	38.682	ug/L	98
27) 1,2-Dichloroethane	5.124	62	12603	0.747	ug/L	99
29) 1,1,1-Trichloroethane	4.600	97	7305	0.258	ug/L	95
30) Cyclohexane	4.664	56	1441	0.051	ug/L #	84
31) Carbon tetrachloride	4.600	117	994	0.041	ug/L	98
33) Benzene	5.092	78	1084742	14.724	ug/L	100
34) Trichloroethene	5.905	95	277216	14.750	ug/L	98
35) Methylcyclohexane	6.124	83	4327	0.136	ug/L	93
37) 1,2-Dichloropropane	6.059	63	9873	0.569	ug/L #	85
39) cis-1,3-Dichloropropene	6.979	75	2183	0.086	ug/L #	73
42) Toluene	7.381	91	121185	1.533	ug/L	100
45) 1,1,2-Trichloroethane	7.776	97	796	0.068	ug/L #	15

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

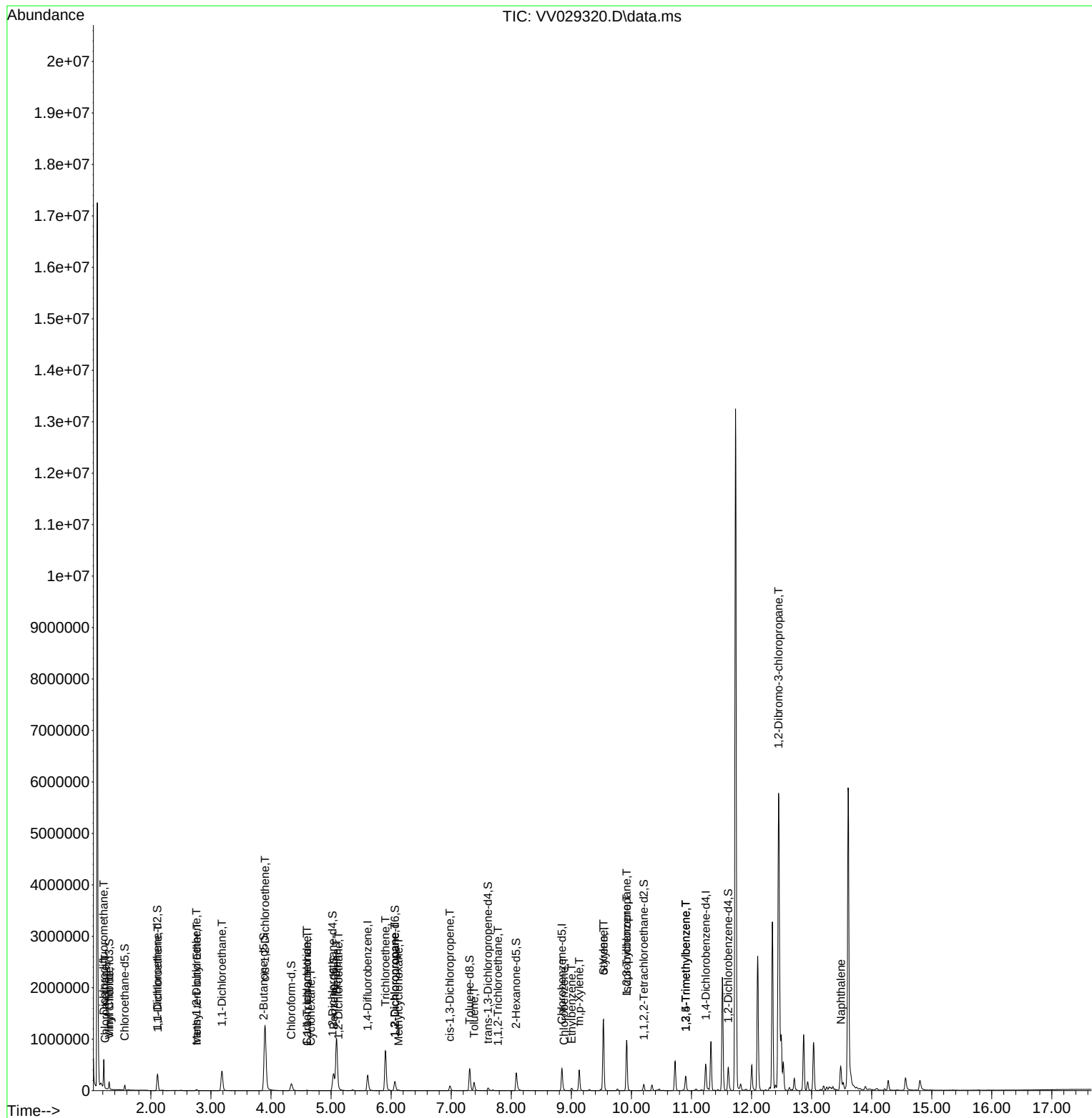
51) Chlorobenzene	8.876	112	4754	0.096	ug/L #	84
52) Ethylbenzene	9.005	91	34934	0.424	ug/L	100
53) m,p-Xylene	9.133	106	115681	3.558	ug/L	95
54) o-Xylene	9.535	106	371431	11.629	ug/L	98
55) Styrene	9.535	104	18923	0.351	ug/L #	1
60) Isopropylbenzene	9.921	105	649976	7.385	ug/L	100
61) 1,2,3-Trichloropropane	9.921	75	7227	0.765	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.905	105	152995	2.008	ug/L	96
63) 1,2,4-Trimethylbenzene	10.905	105	152995	1.996	ug/L	100
68) 1,2-Dibromo-3-chloropr...	12.452	75	117704	63.478	ug/L #	1
71) Naphthalene	13.490	128	228445	9.626	ug/L	100

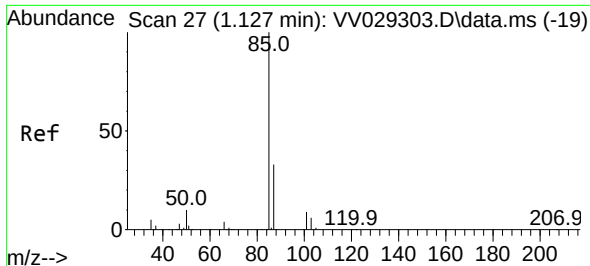
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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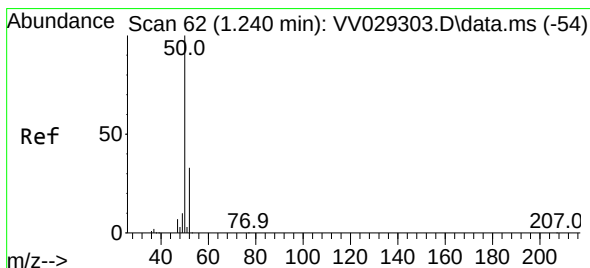
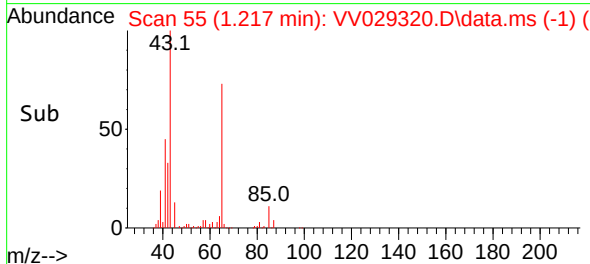
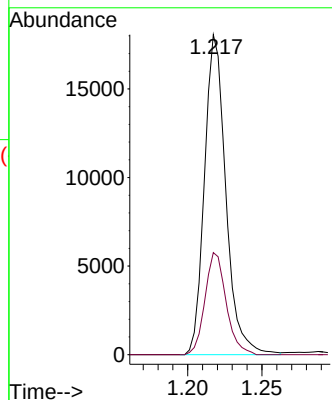
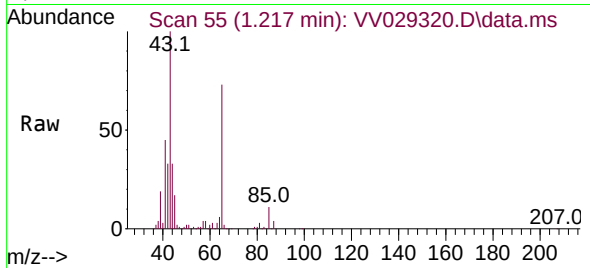




#2
Dichlorodifluoromethane
Concen: 0.863 ug/L
RT: 1.217 min Scan# 51
Delta R.T. 0.090 min
Lab File: VV029320.D
Acq: 24 Nov 2022 01:58

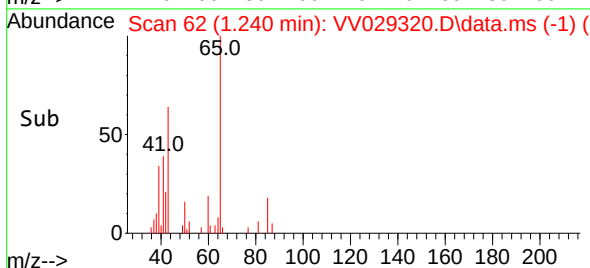
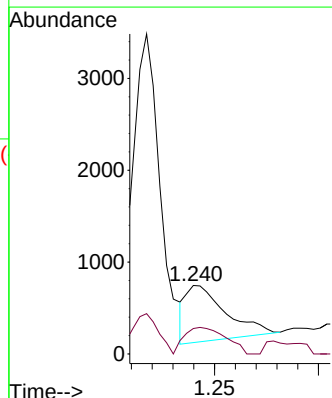
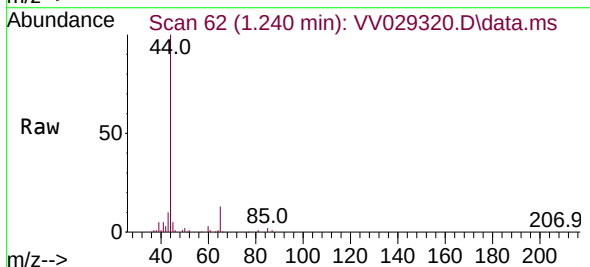
Instrument :
MSVOA_V
ClientSampleId :

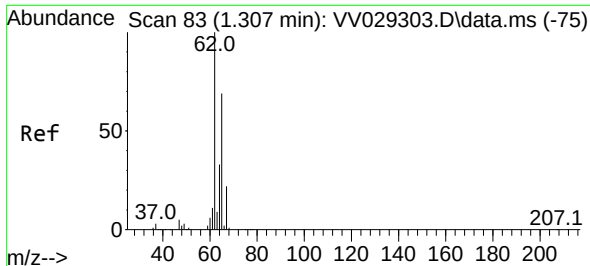
Tgt Ion: 85 Resp: 18079
Ion Ratio Lower Upper
85 100
87 31.5 26.2 39.4



#3
Chloromethane
Concen: 0.043 ug/L
RT: 1.240 min Scan# 62
Delta R.T. 0.000 min
Lab File: VV029320.D
Acq: 24 Nov 2022 01:58

Tgt Ion: 50 Resp: 824
Ion Ratio Lower Upper
50 100
52 37.2 23.2 43.2

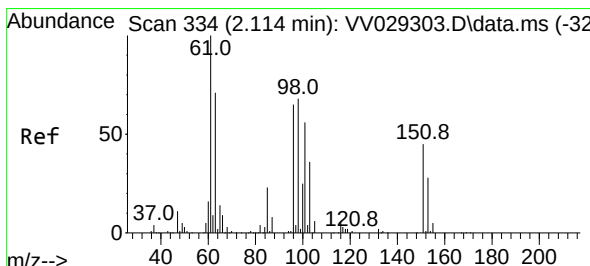
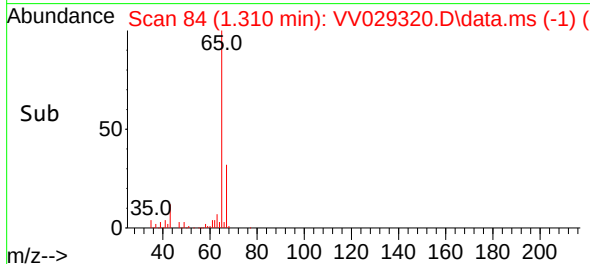
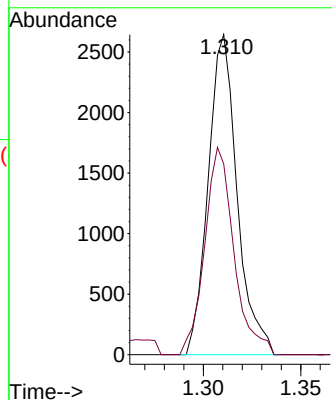
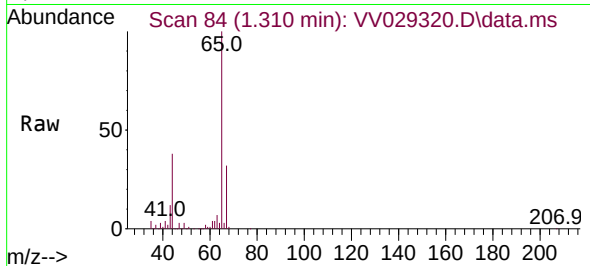




#5
 Vinyl chloride
 Concen: 0.143 ug/L
 RT: 1.310 min Scan# 84
 Delta R.T. 0.003 min
 Lab File: VV029320.D
 Acq: 24 Nov 2022 01:58

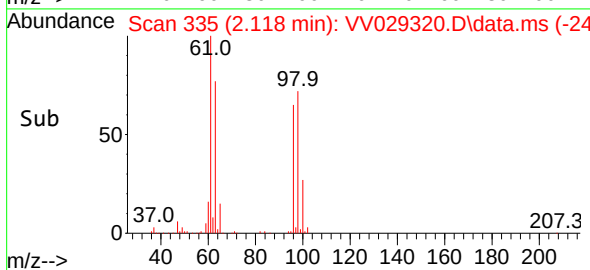
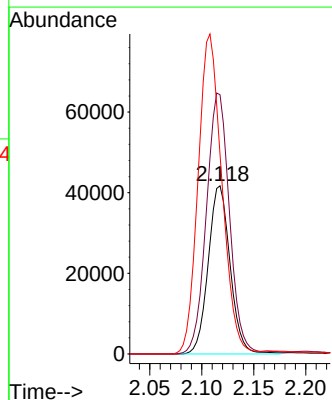
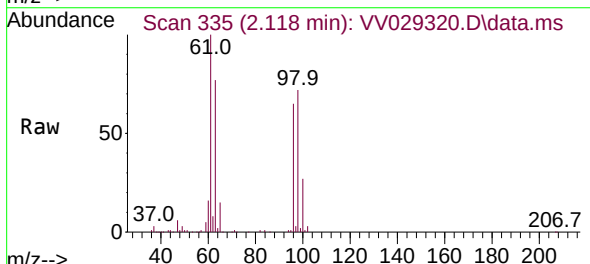
Instrument :
 MSVOA_V
 ClientSampleId :

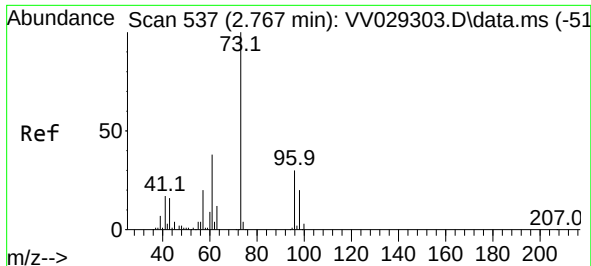
Tgt Ion: 62 Resp: 2730
 Ion Ratio Lower Upper
 62 100
 64 59.6 23.4 43.4#



#12
 1,1-Dichloroethene
 Concen: 4.222 ug/L
 RT: 2.118 min Scan# 335
 Delta R.T. 0.003 min
 Lab File: VV029320.D
 Acq: 24 Nov 2022 01:58

Tgt Ion: 96 Resp: 60975
 Ion Ratio Lower Upper
 96 100
 61 154.1 110.3 204.9
 63 118.5 84.4 156.8

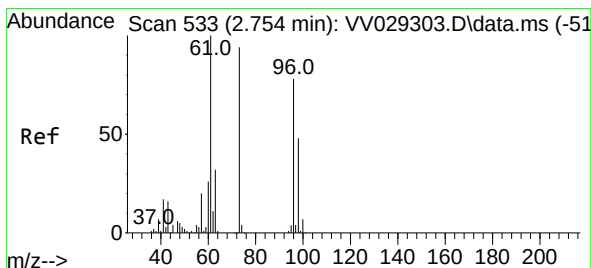
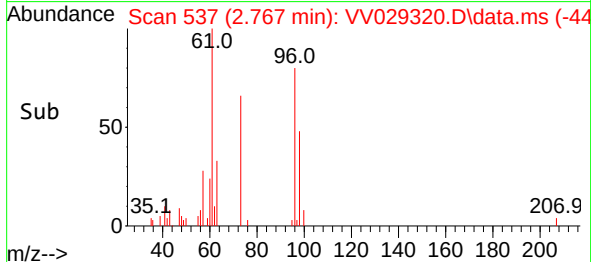
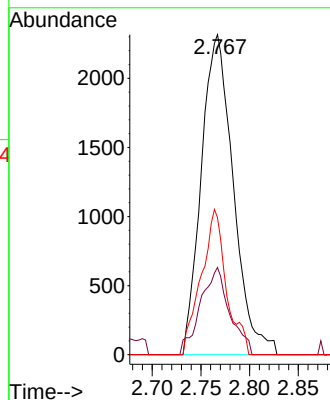
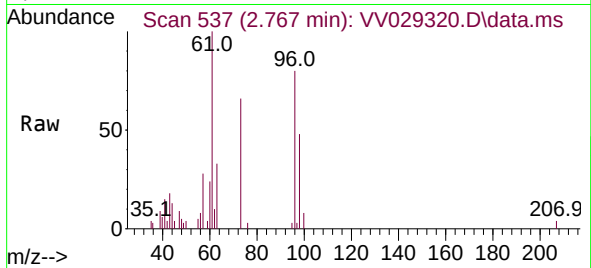




#17
Methyl tert-butyl Ether
Concen: 0.143 ug/L
RT: 2.767 min Scan# 51
Delta R.T. 0.000 min
Lab File: VV029320.D
Acq: 24 Nov 2022 01:58

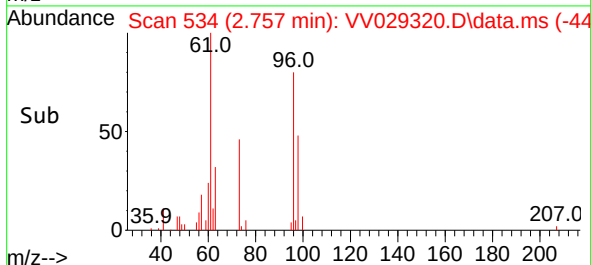
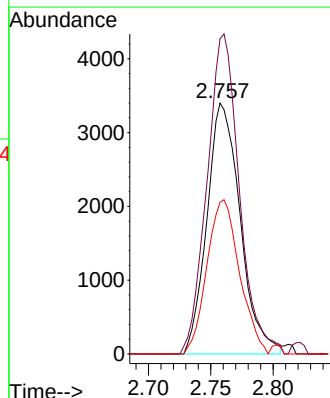
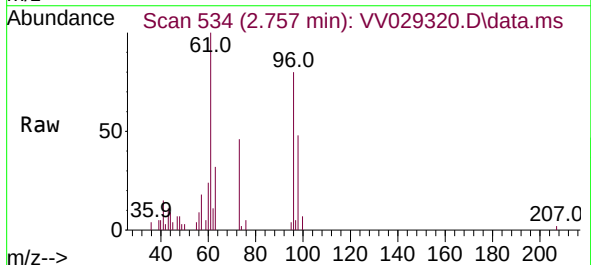
Instrument :
MSVOA_V
ClientSampleId :

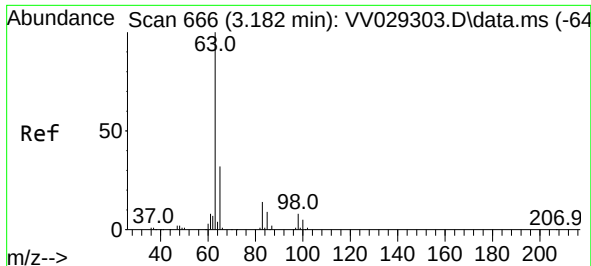
Tgt Ion: 73 Resp: 5298
Ion Ratio Lower Upper
73 100
43 24.9 13.2 19.8#
57 35.8 16.9 25.3#



#18
trans-1,2-Dichloroethene
Concen: 0.381 ug/L
RT: 2.757 min Scan# 534
Delta R.T. 0.003 min
Lab File: VV029320.D
Acq: 24 Nov 2022 01:58

Tgt Ion: 96 Resp: 6315
Ion Ratio Lower Upper
96 100
61 125.6 93.0 172.6
98 60.5 44.0 81.8





#19

1,1-Dichloroethane

Concen: 13.299 ug/L

RT: 3.182 min Scan# 6

Delta R.T. 0.000 min

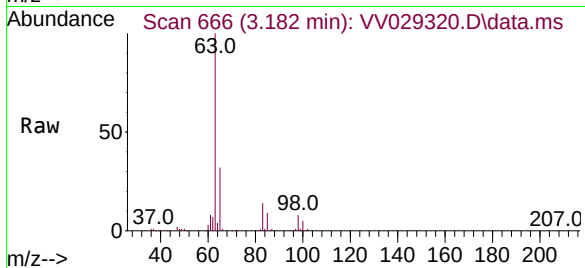
Lab File: VV029320.D

Acq: 24 Nov 2022 01:58

Instrument :

MSVOA_V

ClientSampleId :



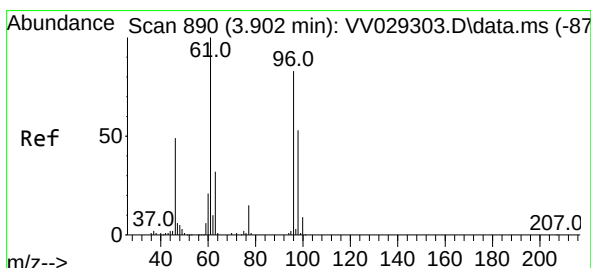
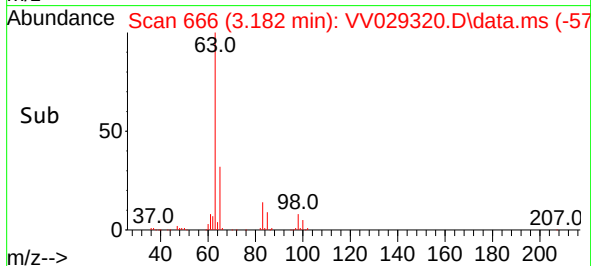
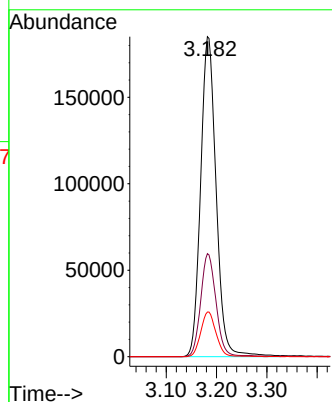
Tgt Ion: 63 Resp: 396777

Ion Ratio Lower Upper

63 100

65 32.2 21.6 40.2

83 13.9 10.3 19.1



#22

cis-1,2-Dichloroethene

Concen: 38.682 ug/L

RT: 3.902 min Scan# 890

Delta R.T. 0.000 min

Lab File: VV029320.D

Acq: 24 Nov 2022 01:58

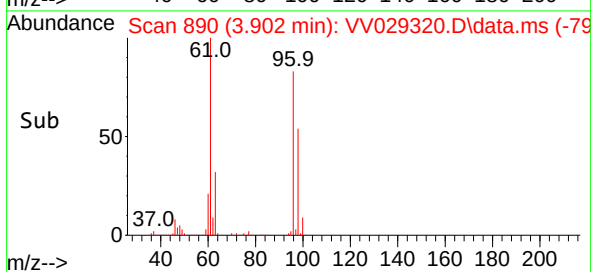
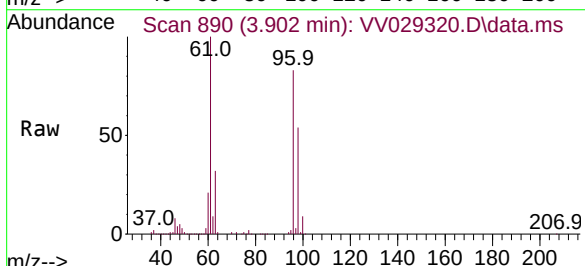
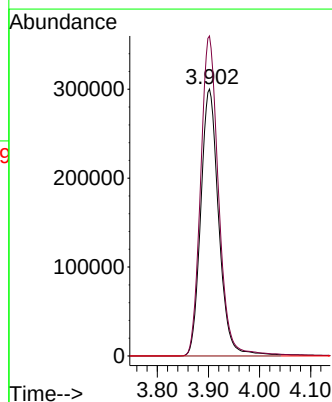
Tgt Ion: 96 Resp: 733454

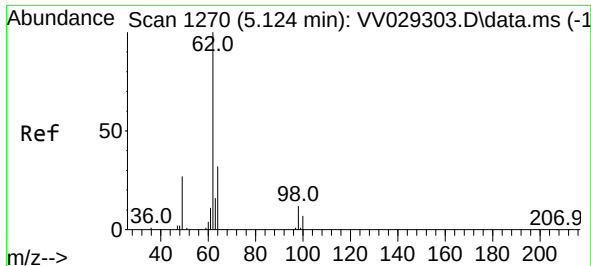
Ion Ratio Lower Upper

96 100

61 119.9 85.8 159.3

68 0.0 0.0 0.0





#27

1,2-Dichloroethane

Concen: 0.747 ug/L

RT: 5.124 min Scan# 11

Delta R.T. 0.000 min

Lab File: VV029320.D

Acq: 24 Nov 2022 01:58

Instrument :

MSVOA_V

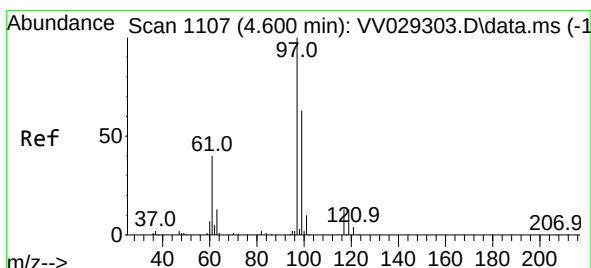
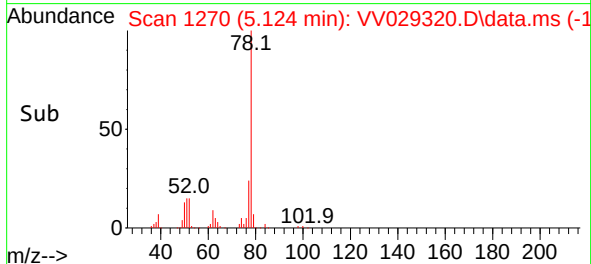
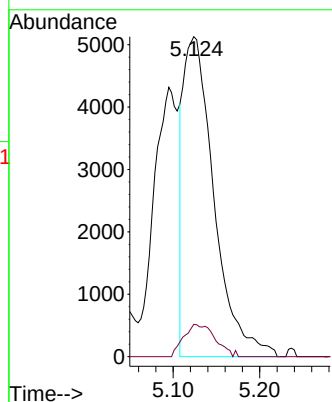
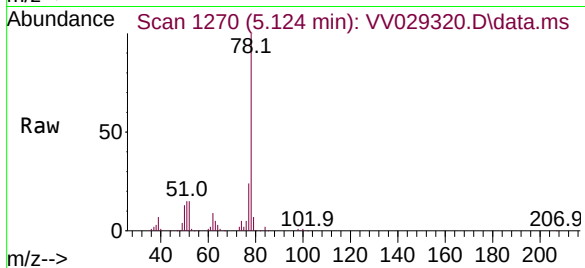
ClientSampleId :

Tgt Ion: 62 Resp: 12603

Ion Ratio Lower Upper

62 100

98 10.1 8.4 12.6



#29

1,1,1-Trichloroethane

Concen: 0.258 ug/L

RT: 4.600 min Scan# 1107

Delta R.T. 0.000 min

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Acq: 24 Nov 2022 01:58

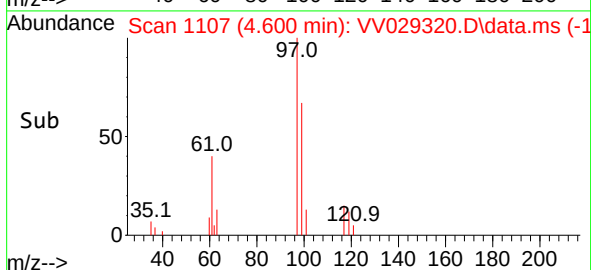
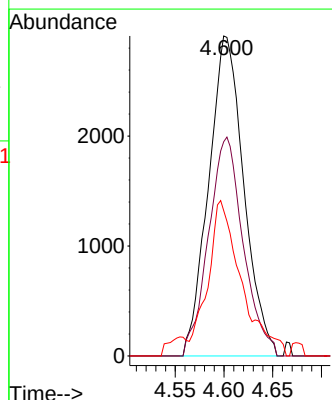
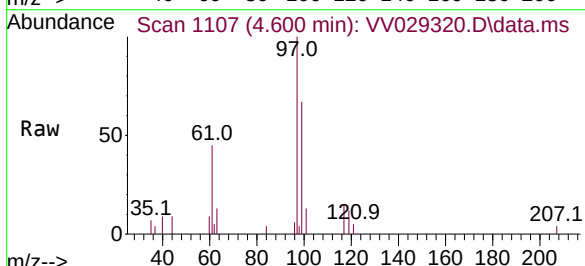
Tgt Ion: 97 Resp: 7305

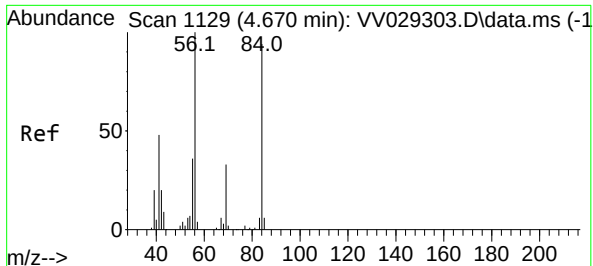
Ion Ratio Lower Upper

97 100

99 67.5 51.2 76.8

61 46.0 33.3 49.9

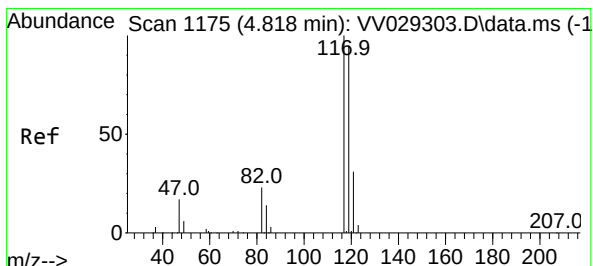
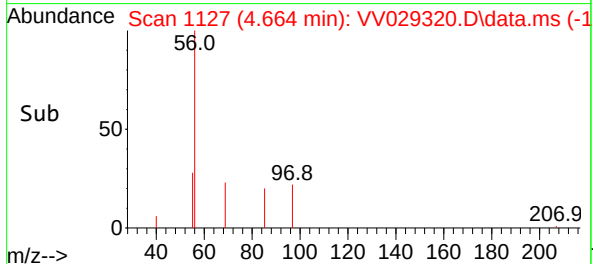
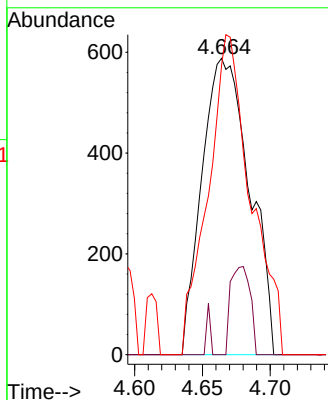
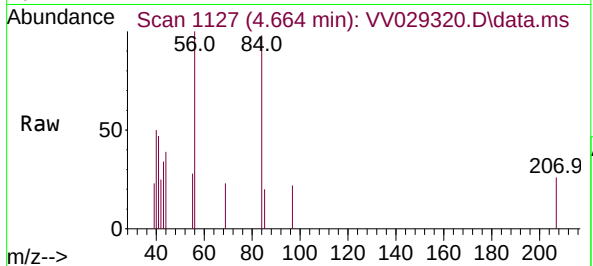




#30
Cyclohexane
Concen: 0.051 ug/L
RT: 4.664 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VV029320.D
Acq: 24 Nov 2022 01:58

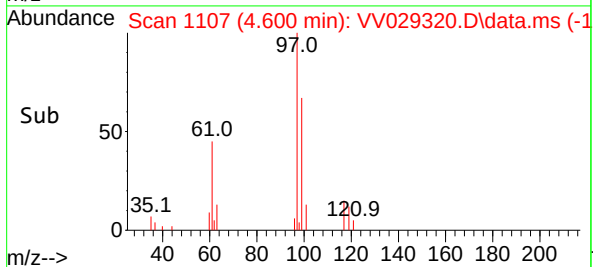
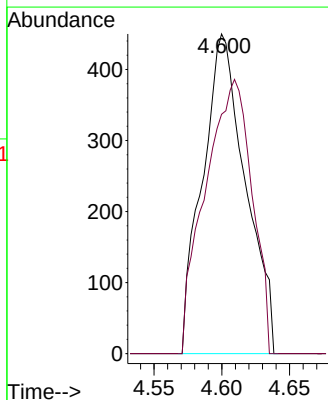
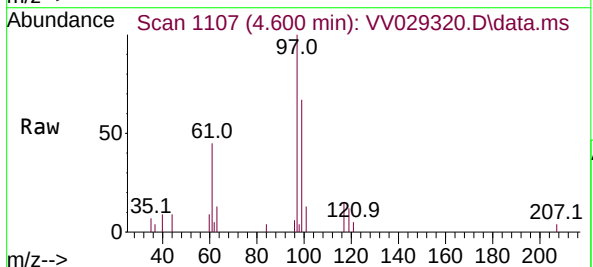
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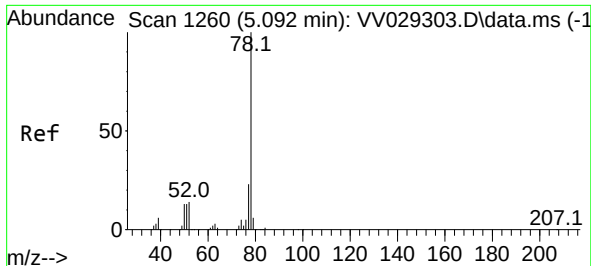
Tgt Ion: 56 Resp: 1441
Ion Ratio Lower Upper
56 100
69 1.4 26.1 39.1#
84 96.2 75.6 113.4



#31
Carbon tetrachloride
Concen: 0.041 ug/L
RT: 4.600 min Scan# 1107
Delta R.T. -0.219 min
Lab File: VV029320.D
Acq: 24 Nov 2022 01:58

Tgt Ion: 117 Resp: 994
Ion Ratio Lower Upper
117 100
119 93.1 75.7 113.5

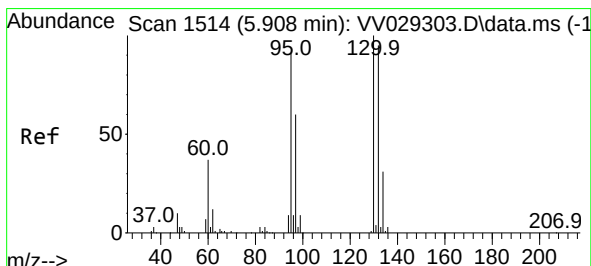
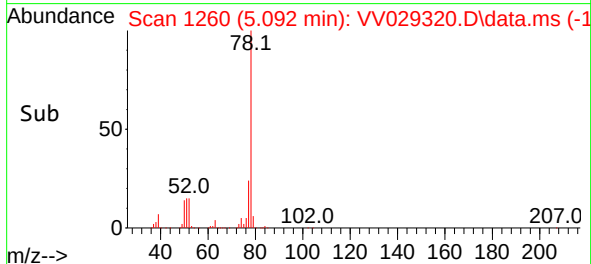
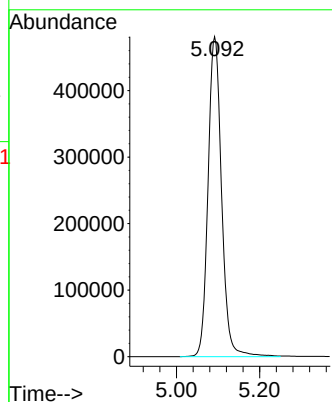
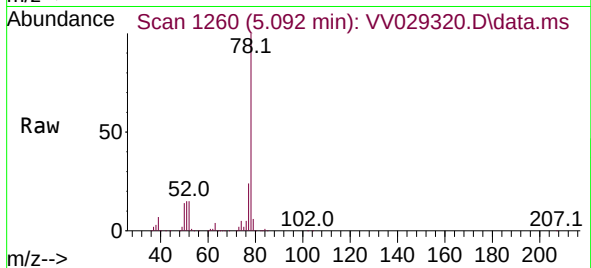




#33
Benzene
Concen: 14.724 ug/L
RT: 5.092 min Scan# 11
Delta R.T. 0.000 min
Lab File: VV029320.D
Acq: 24 Nov 2022 01:58

Instrument :
MSVOA_V
ClientSampleId :

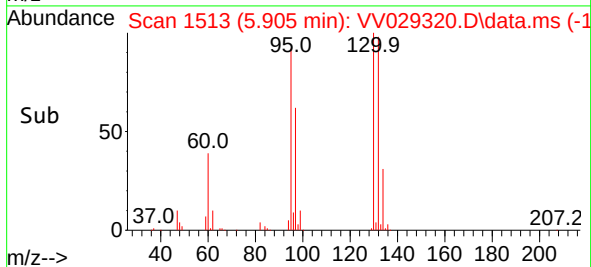
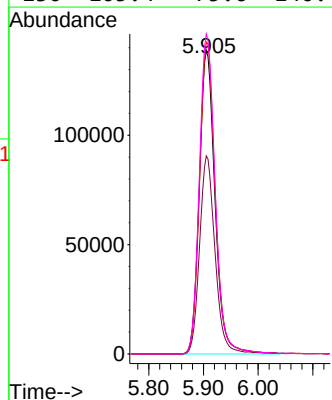
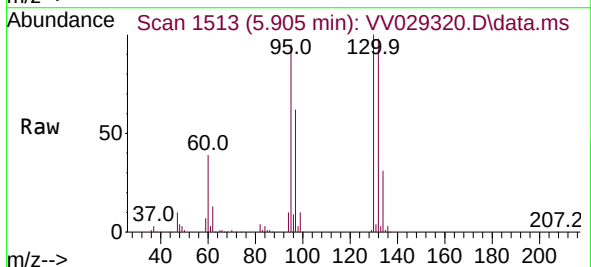
Tgt Ion: 78 Resp: 1084742

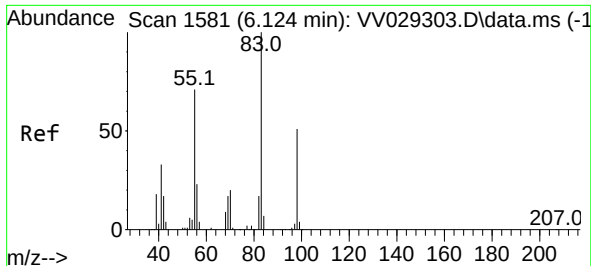


#34
Trichloroethene
Concen: 14.750 ug/L
RT: 5.905 min Scan# 1513
Delta R.T. -0.003 min
Lab File: VV029320.D
Acq: 24 Nov 2022 01:58

Tgt Ion: 95 Resp: 277216

Ion	Ratio	Lower	Upper
95	100		
97	65.2	45.4	84.4
132	102.8	73.3	136.1
130	105.4	75.6	140.4

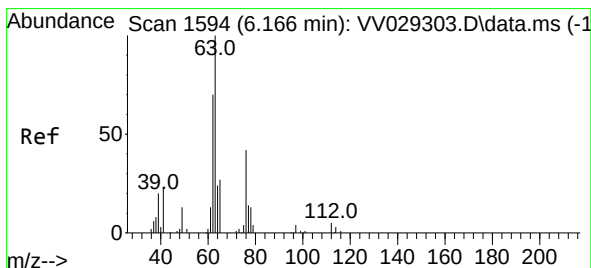
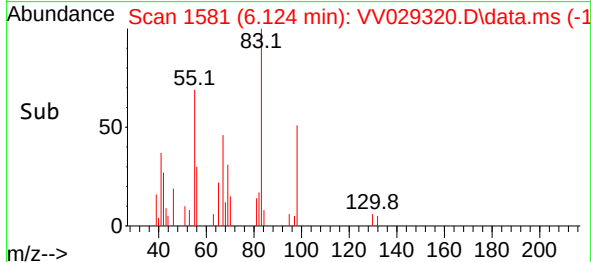
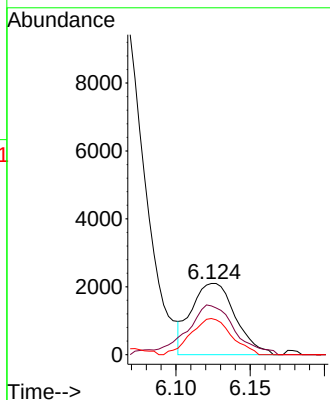
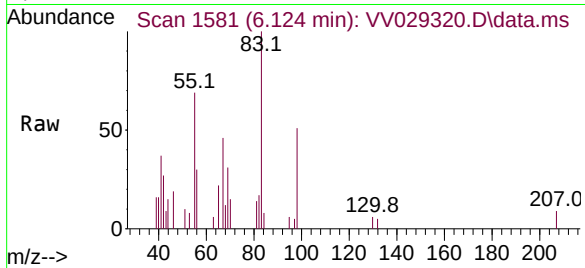




#35
Methylcyclohexane
Concen: 0.136 ug/L
RT: 6.124 min Scan# 1581
Delta R.T. 0.000 min
Lab File: VV029320.D
Acq: 24 Nov 2022 01:58

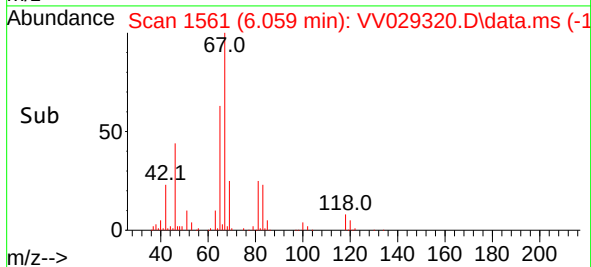
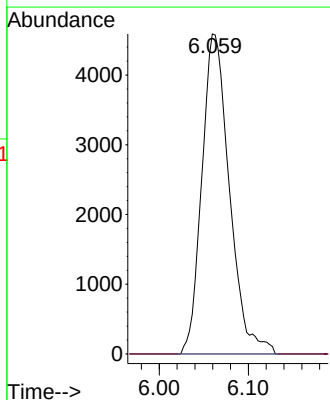
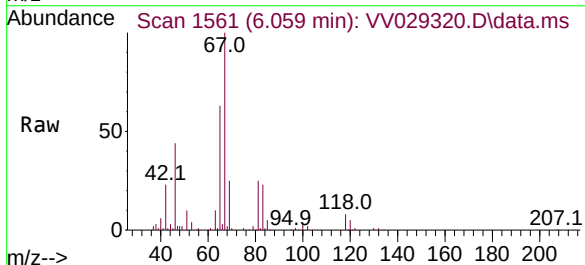
Instrument :
MSVOA_V
ClientSampleId :

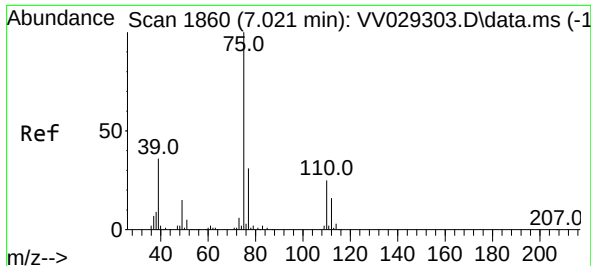
Tgt Ion	Ratio	Lower	Upper
83	100		
55	77.0	55.4	83.2
98	46.6	39.4	59.2



#37
1,2-Dichloropropane
Concen: 0.569 ug/L
RT: 6.059 min Scan# 1561
Delta R.T. -0.106 min
Lab File: VV029320.D
Acq: 24 Nov 2022 01:58

Tgt Ion	Ratio	Lower	Upper
63	100		
112	0.0	4.1	6.1#





#39

cis-1,3-Dichloropropene

Concen: 0.086 ug/L

RT: 6.979 min Scan# 1860

Delta R.T. -0.042 min

Lab File: VV029320.D

Acq: 24 Nov 2022 01:58

Instrument :

MSVOA_V

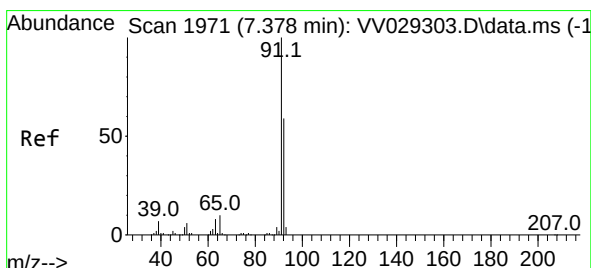
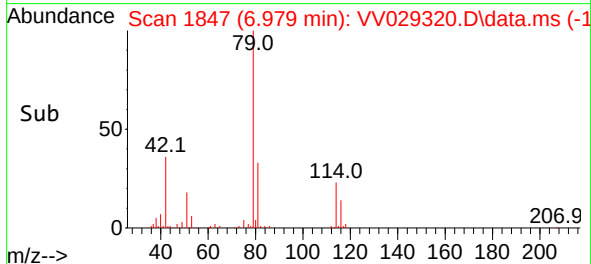
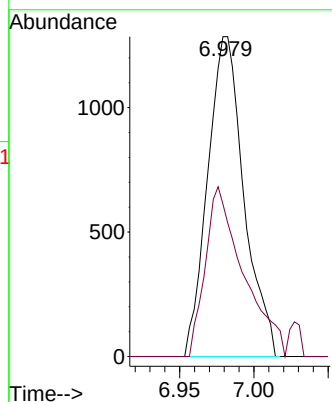
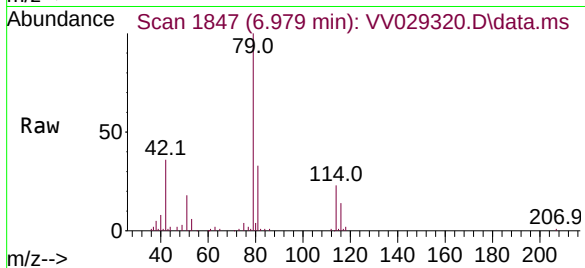
ClientSampleId :

Tgt Ion: 75 Resp: 2183

Ion Ratio Lower Upper

75 100

77 47.7 22.7 42.3#



#42

Toluene

Concen: 1.533 ug/L

RT: 7.381 min Scan# 1972

Delta R.T. 0.003 min

Lab File: VV029320.D

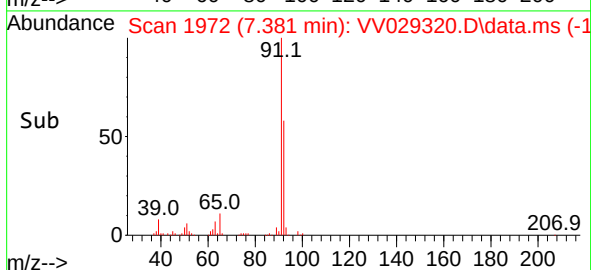
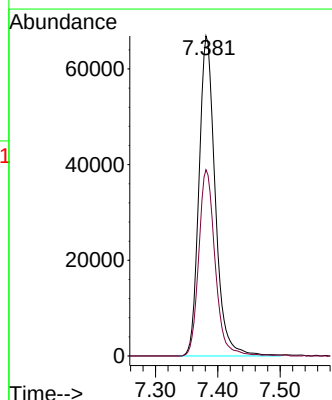
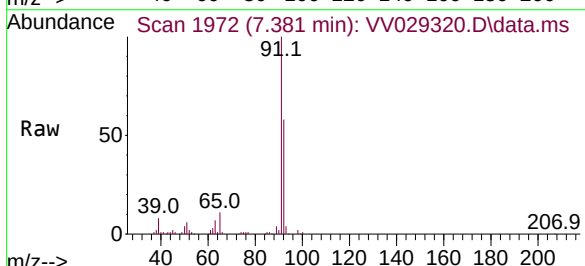
Acq: 24 Nov 2022 01:58

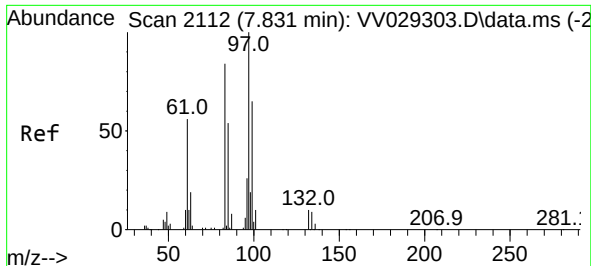
Tgt Ion: 91 Resp: 121185

Ion Ratio Lower Upper

91 100

92 58.2 40.8 75.8





#45

1,1,2-Trichloroethane

Concen: 0.068 ug/L

RT: 7.776 min Scan# 2095

Delta R.T. -0.055 min

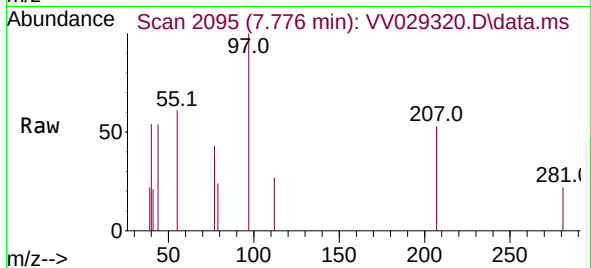
Lab File: VV029320.D

Acq: 24 Nov 2022 01:58

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion: 97 Resp: 796

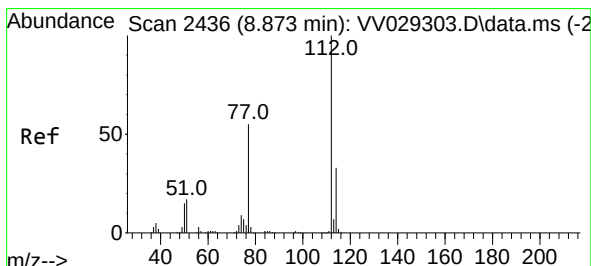
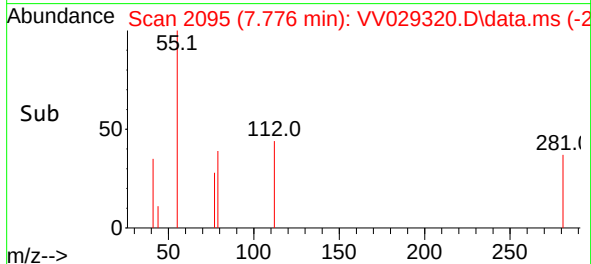
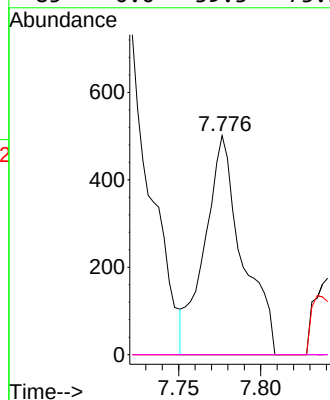
Ion Ratio Lower Upper

97 100

99 0.0 44.4 82.5#

83 0.0 59.5 110.5#

85 0.0 39.3 73.1#



#51

Chlorobenzene

Concen: 0.096 ug/L

RT: 8.876 min Scan# 2437

Delta R.T. 0.003 min

Lab File: VV029320.D

Acq: 24 Nov 2022 01:58

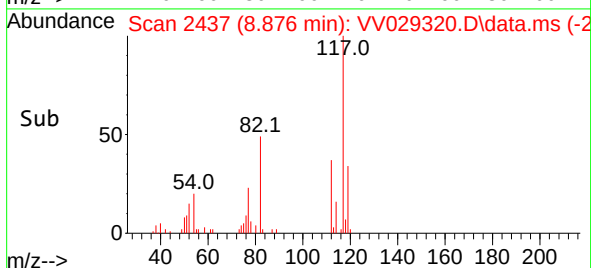
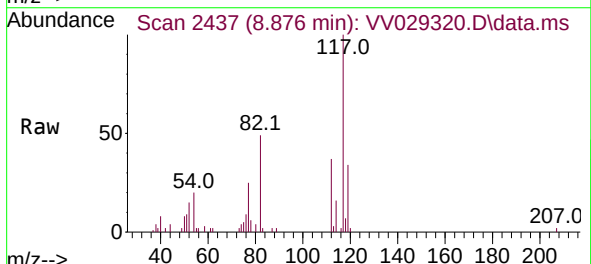
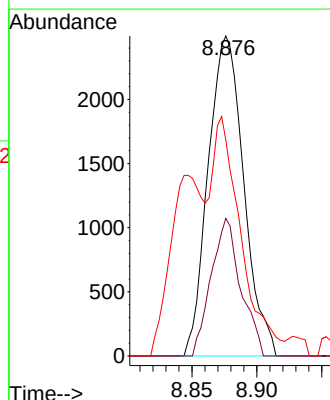
Tgt Ion: 112 Resp: 4754

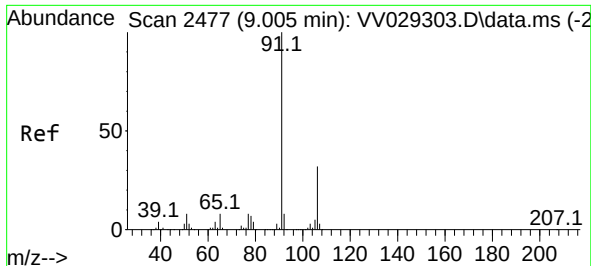
Ion Ratio Lower Upper

112 100

114 43.0 22.9 42.5#

77 67.5 45.3 67.9





#52

Ethylbenzene

Concen: 0.424 ug/L

RT: 9.005 min Scan# 24

Delta R.T. 0.000 min

Lab File: VV029320.D

Acq: 24 Nov 2022 01:58

Instrument :

MSVOA_V

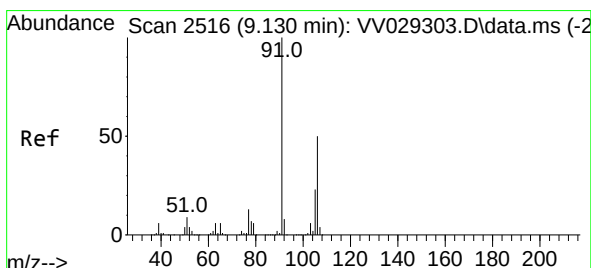
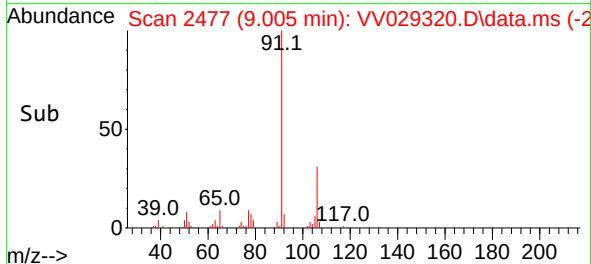
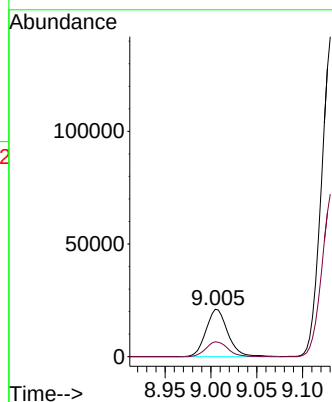
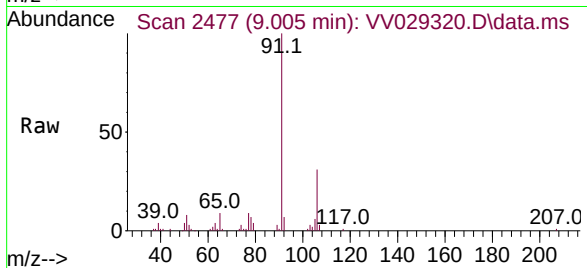
ClientSampleId :

Tgt Ion: 91 Resp: 34934

Ion Ratio Lower Upper

91 100

106 31.3 21.9 40.7



#53

m,p-Xylene

Concen: 3.558 ug/L

RT: 9.133 min Scan# 2517

Delta R.T. 0.003 min

Lab File: VV029320.D

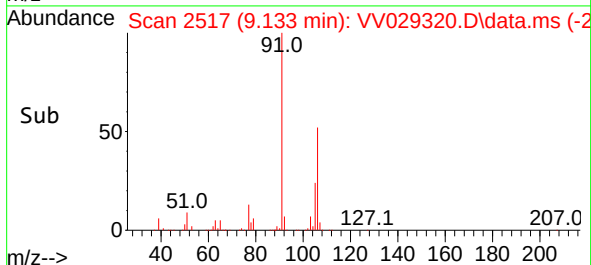
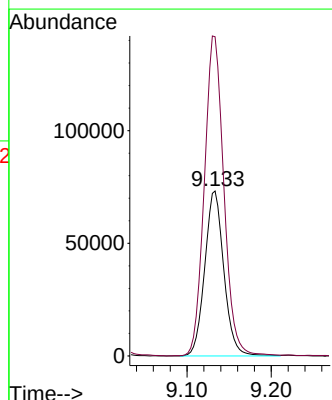
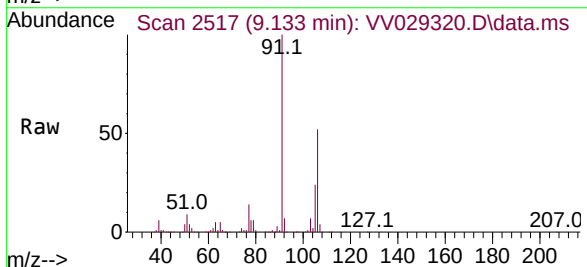
Acq: 24 Nov 2022 01:58

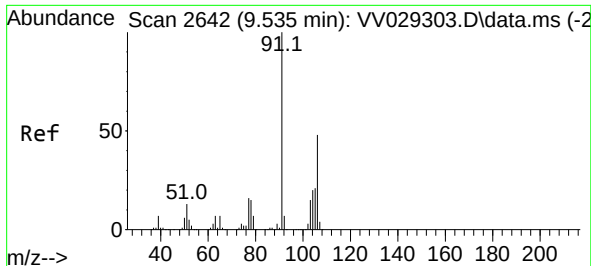
Tgt Ion: 106 Resp: 115681

Ion Ratio Lower Upper

106 100

91 193.5 140.6 261.2

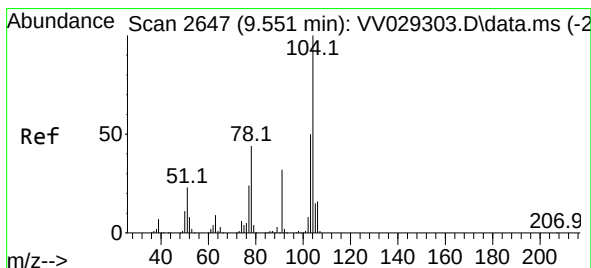
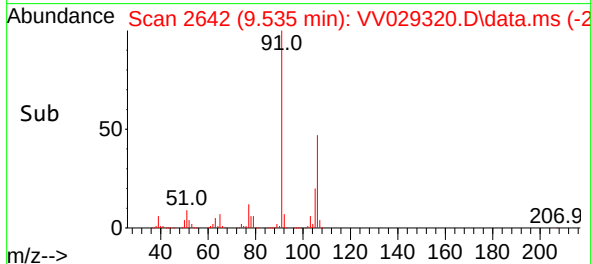
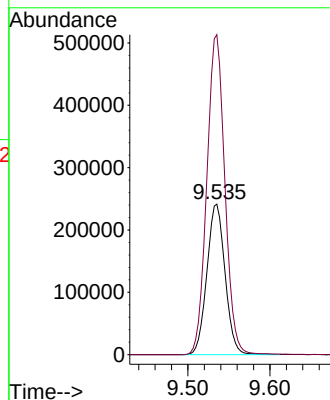
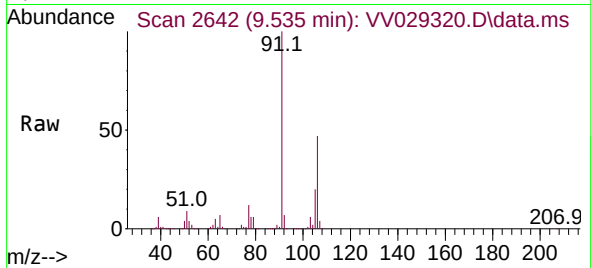




#54
o-Xylene
Concen: 11.629 ug/L
RT: 9.535 min Scan# 2642
Delta R.T. 0.000 min
Lab File: VV029320.D
Acq: 24 Nov 2022 01:58

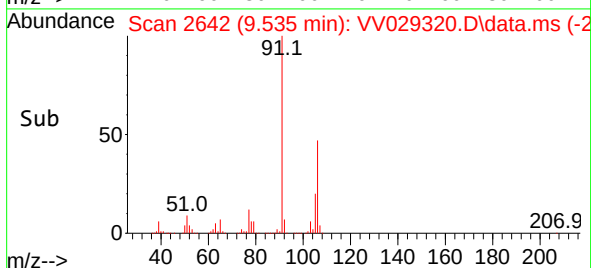
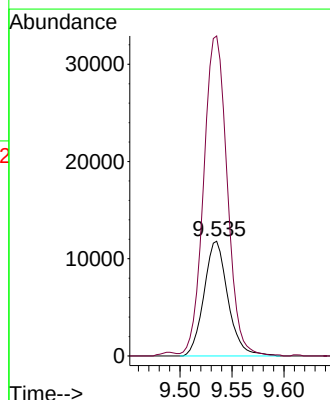
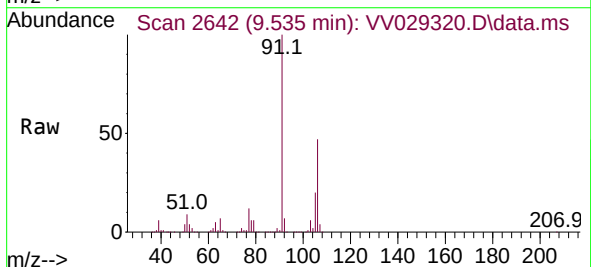
Instrument :
MSVOA_V
ClientSampleId :

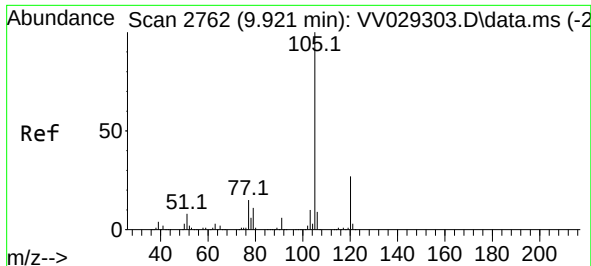
Tgt Ion:106 Resp: 371431
Ion Ratio Lower Upper
106 100
91 212.5 146.9 272.9



#55
Styrene
Concen: 0.351 ug/L
RT: 9.535 min Scan# 2642
Delta R.T. -0.016 min
Lab File: VV029320.D
Acq: 24 Nov 2022 01:58

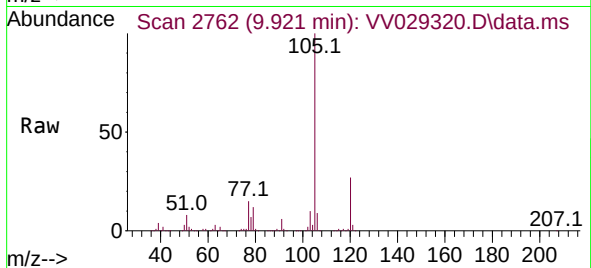
Tgt Ion:104 Resp: 18923
Ion Ratio Lower Upper
104 100
78 278.9 29.9 55.5#



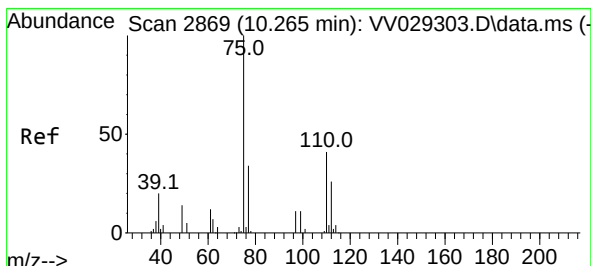
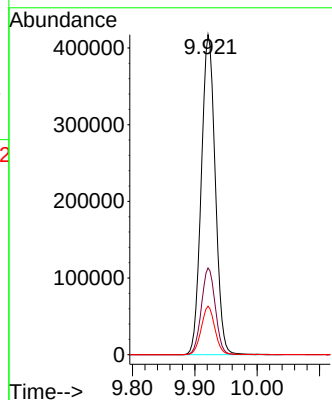
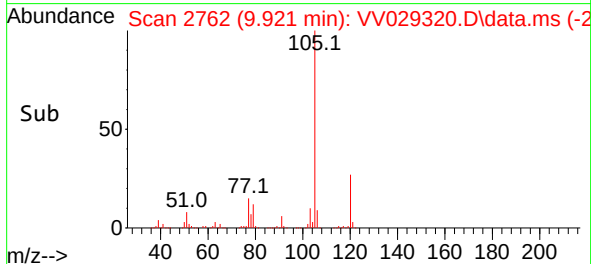


#60
Isopropylbenzene
Concen: 7.385 ug/L
RT: 9.921 min Scan# 2762
Delta R.T. 0.000 min
Lab File: VV029320.D
Acq: 24 Nov 2022 01:58

Instrument :
MSVOA_V
ClientSampleId :

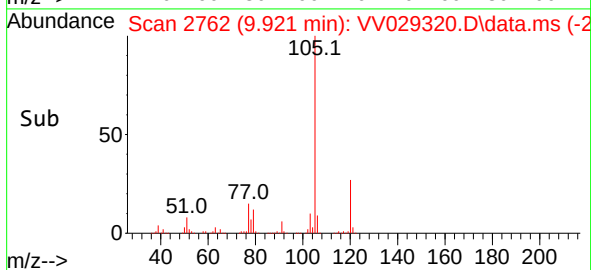
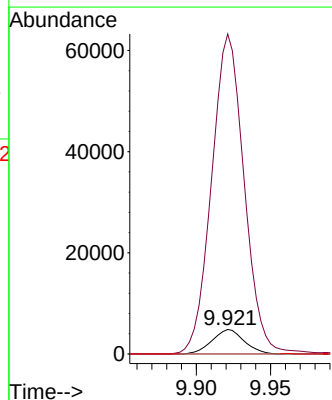
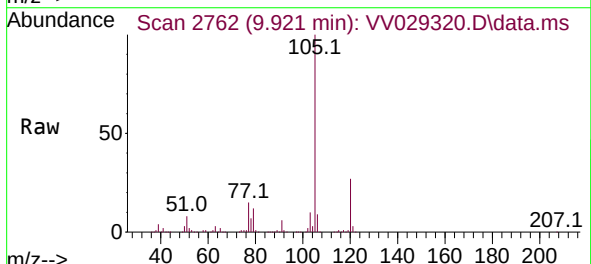


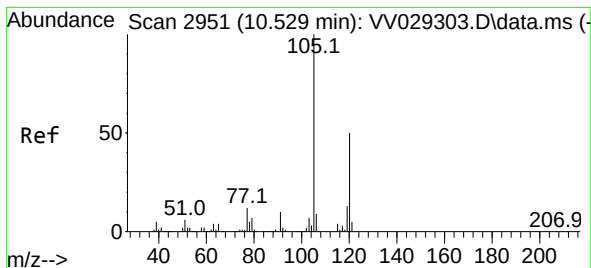
Tgt Ion:105 Resp: 649976
Ion Ratio Lower Upper
105 100
120 27.0 21.4 32.2
77 14.9 11.8 17.8



#61
1,2,3-Trichloropropane
Concen: 0.765 ug/L
RT: 9.921 min Scan# 2762
Delta R.T. -0.344 min
Lab File: VV029320.D
Acq: 24 Nov 2022 01:58

Tgt Ion: 75 Resp: 7227
Ion Ratio Lower Upper
75 100
77 1338.8 26.7 40.1#
110 0.0 32.2 48.4#





#62

1,3,5-Trimethylbenzene

Concen: 2.008 ug/L

RT: 10.905 min Scan# 3068

Delta R.T. 0.376 min

Lab File: VV029320.D

Acq: 24 Nov 2022 01:58

Instrument :

MSVOA_V

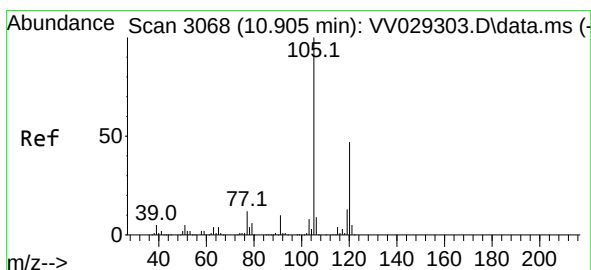
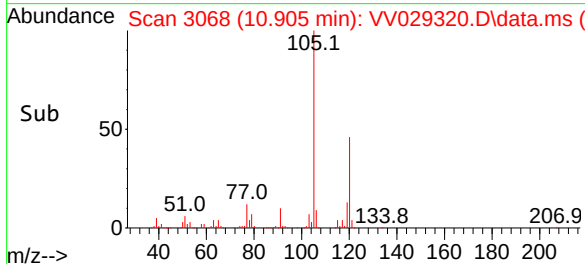
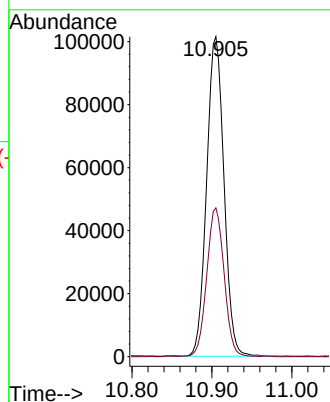
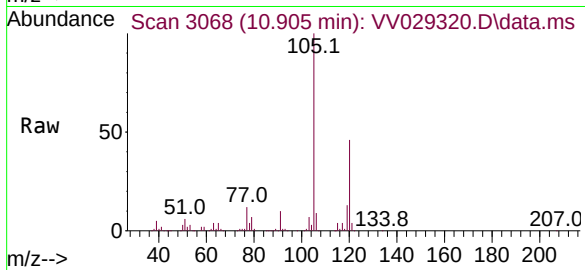
ClientSampleId :

Tgt Ion:105 Resp: 152995

Ion Ratio Lower Upper

105 100

120 46.7 39.6 59.4



#63

1,2,4-Trimethylbenzene

Concen: 1.996 ug/L

RT: 10.905 min Scan# 3068

Delta R.T. 0.000 min

Lab File: VV029320.D

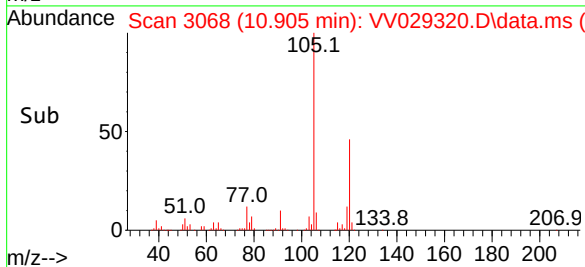
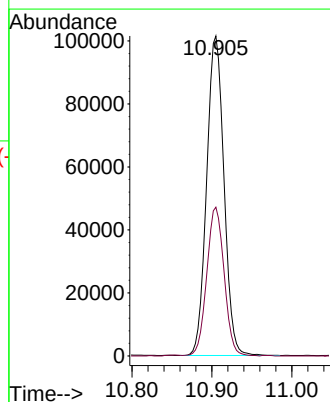
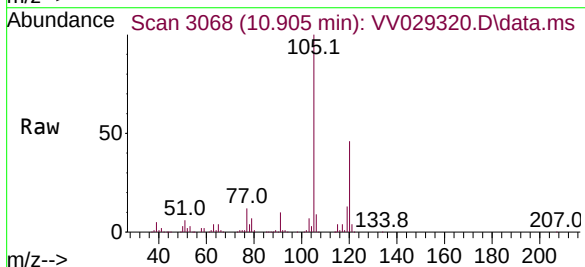
Acq: 24 Nov 2022 01:58

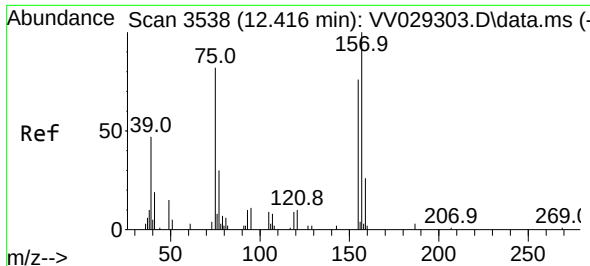
Tgt Ion:105 Resp: 152995

Ion Ratio Lower Upper

105 100

120 46.7 37.2 55.8

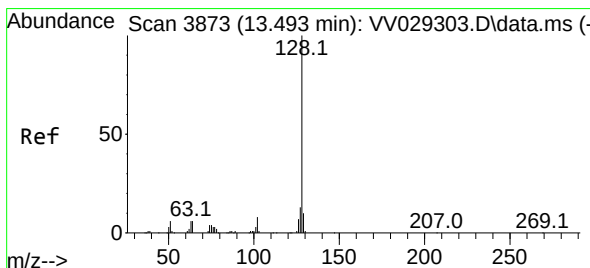
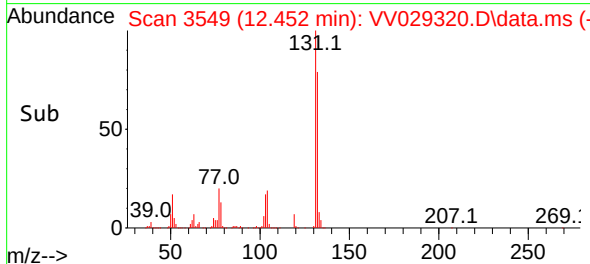
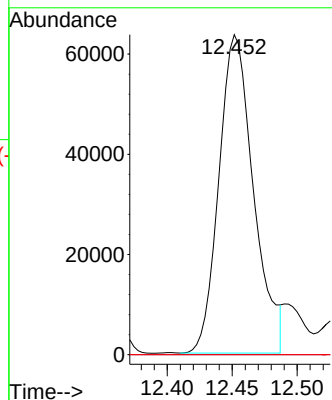
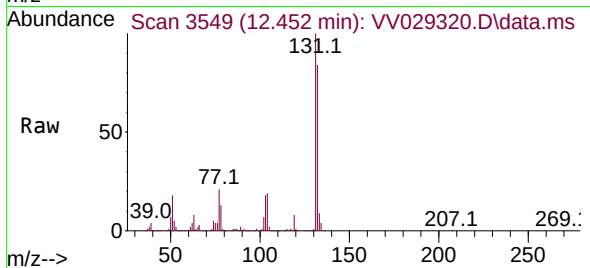




#68
1,2-Dibromo-3-chloropropane
Concen: 63.478 ug/L
RT: 12.452 min Scan# 3549
Delta R.T. 0.035 min
Lab File: VV029320.D
Acq: 24 Nov 2022 01:58

Instrument :
MSVOA_V
ClientSampleId :

Tgt Ion: 75 Resp: 117704
Ion Ratio Lower Upper
75 100
155 0.0 76.6 115.0#
157 0.0 96.9 145.3#



#71
Naphthalene
Concen: 9.626 ug/L
RT: 13.490 min Scan# 3872
Delta R.T. -0.003 min
Lab File: VV029320.D
Acq: 24 Nov 2022 01:58

Tgt Ion: 128 Resp: 228445
Ion Ratio Lower Upper
128 100
129 11.4 8.9 13.3
127 13.2 10.6 15.8

