

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW111021\
 Data File : VW023363.D
 Acq On : 11 Nov 2021 04:07
 Operator : SY/MD
 Sample : M4542-06
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Nov 11 05:19:54 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR110421WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Nov 11 03:34:54 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.619	114	129672	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.854	117	132101	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.249	152	75507	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.307	65	34700	4.272	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	85.400%
7) Chloroethane-d5	1.568	69	28421	4.293	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	85.800%
11) 1,1-Dichloroethene-d2	2.111	63	51917	3.414	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	68.200%
20) 2-Butanone-d5	3.886	46	66658	47.629	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	95.260%
24) Chloroform-d	4.352	84	70016	4.044	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	80.800%
26) 1,2-Dichloroethane-d4	5.037	65	32113	4.125	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	82.400%
32) Benzene-d6	5.053	84	135310	3.992	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	79.800%
36) 1,2-Dichloropropane-d6	6.072	67	41320	4.141	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	82.800%
41) Toluene-d8	7.317	98	120639	3.798	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	76.000%
43) trans-1,3-Dichloroprop...	7.629	79	13528	3.576	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	71.600%
46) 2-Hexanone-d5	8.088	63	50317	36.147	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	72.300%
56) 1,1,2,2-Tetrachloroeth...	10.217	84	29590	4.124	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	82.400%
66) 1,2-Dichlorobenzene-d4	11.625	152	52629	4.186	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	83.800%
Target Compounds						
					Qvalue	
3) Chloromethane	1.240	50	5648	0.525	ug/L	99
5) Vinyl chloride	1.310	62	46498	4.331	ug/L	99
8) Chloroethane	1.584	64	11432	1.845	ug/L	94
12) 1,1-Dichloroethene	2.121	96	7061	0.913	ug/L #	1
13) Acetone	2.175	43	4670	5.461	ug/L	89
18) trans-1,2-Dichloroethene	2.770	96	642	0.068	ug/L	95
19) 1,1-Dichloroethane	3.191	63	301089	18.760	ug/L	98
22) cis-1,2-Dichloroethene	3.912	96	220335	24.085	ug/L #	92
25) Chloroform	4.381	83	18943	1.107	ug/L	98
29) 1,1,1-Trichloroethane	4.609	97	529353	32.993	ug/L	99
31) Carbon tetrachloride	4.609	117	71718	4.977	ug/L	96
34) Trichloroethene	5.912	95	715880	72.909	ug/L	99
35) Methylcyclohexane	6.133	83	5464	0.353	ug/L	93
37) 1,2-Dichloropropane	6.072	63	4561	0.529	ug/L #	64
39) cis-1,3-Dichloropropene	6.992	75	1067	0.086	ug/L #	61
42) Toluene	7.394	91	21862	0.554	ug/L	98
47) Tetrachloroethene	7.979	164	10915	1.283	ug/L	98
49) Dibromochloromethane	7.979	129	9991	1.273	ug/L #	10
51) Chlorobenzene	8.882	112	215959	8.227	ug/L	98

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

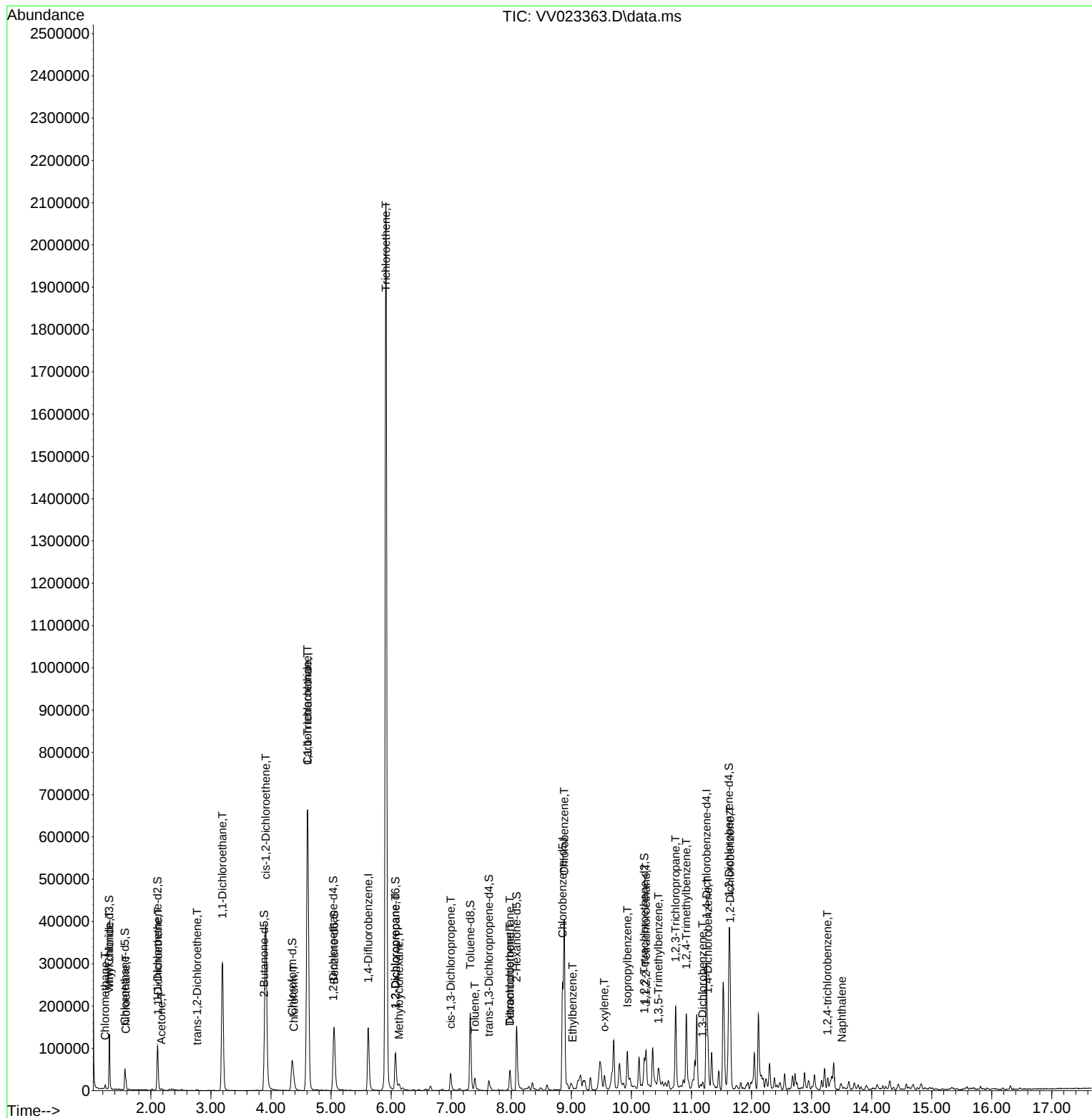
52) Ethylbenzene	9.021	91	3826	0.092	ug/L	96
54) o-xylene	9.548	106	4254	0.277	ug/L	91
57) 1,1,2,2-Tetrachloroethane	10.243	83	4869	0.718	ug/L #	42
60) Isopropylbenzene	9.934	105	56199	1.297	ug/L	98
61) 1,2,3-Trichloropropane	10.738	75	865	0.172	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.452	105	8779	0.244	ug/L	94
63) 1,2,4-Trimethylbenzene	10.915	105	89118	2.492	ug/L	99
64) 1,3-Dichlorobenzene	11.185	146	5448	0.246	ug/L	98
65) 1,4-Dichlorobenzene	11.275	146	43882	1.941	ug/L	98
67) 1,2-Dichlorobenzene	11.644	146	80127	4.045	ug/L	99
70) 1,2,4-trichlorobenzene	13.262	180	2038	0.147	ug/L #	68
71) Naphthalene	13.506	128	6412	0.313	ug/L #	76

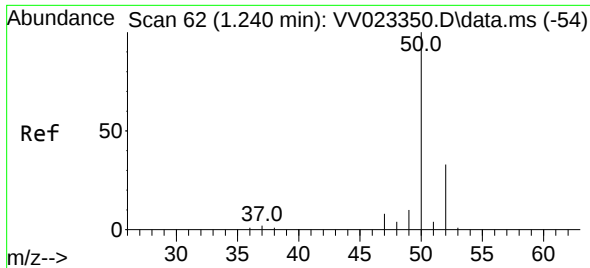
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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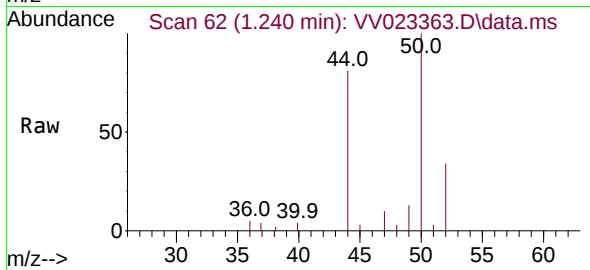
Quant Time: Nov 11 05:19:54 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR110421WMA.M
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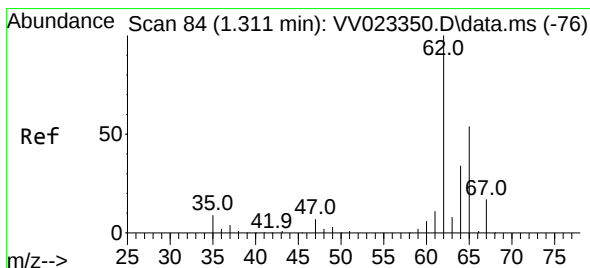
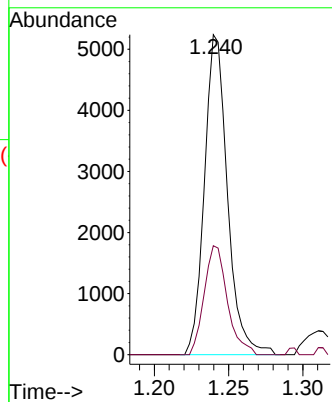
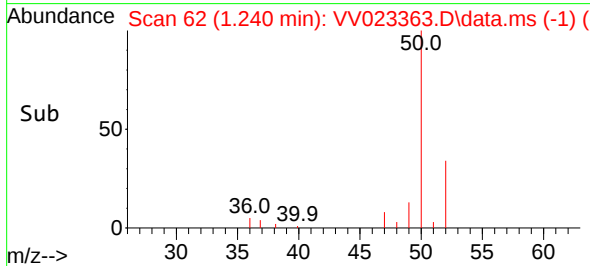


#3
Chloromethane
Concen: 0.525 ug/L
RT: 1.240 min Scan# 61
Delta R.T. -0.000 min
Lab File: VV023363.D
Acq: 11 Nov 2021 04:07

Instrument :
MSVOA_V
ClientSampleId :

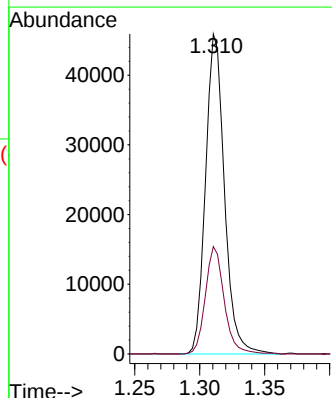
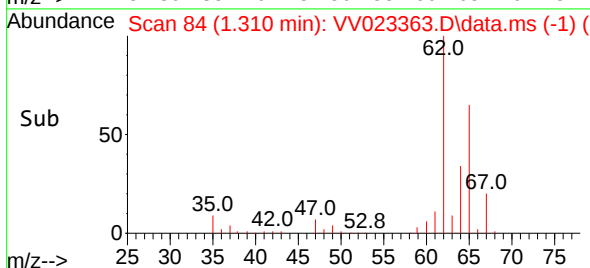
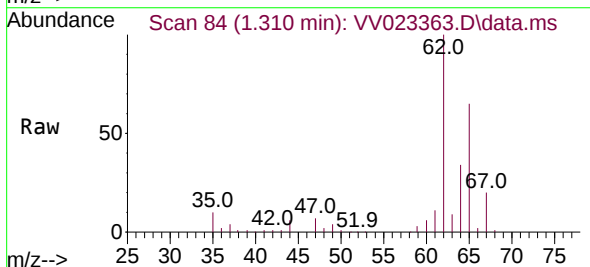


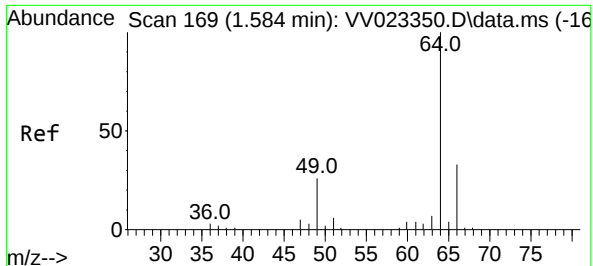
Tgt Ion: 50 Resp: 5648
Ion Ratio Lower Upper
50 100
52 34.0 24.3 45.1



#5
Vinyl chloride
Concen: 4.331 ug/L
RT: 1.310 min Scan# 84
Delta R.T. -0.000 min
Lab File: VV023363.D
Acq: 11 Nov 2021 04:07

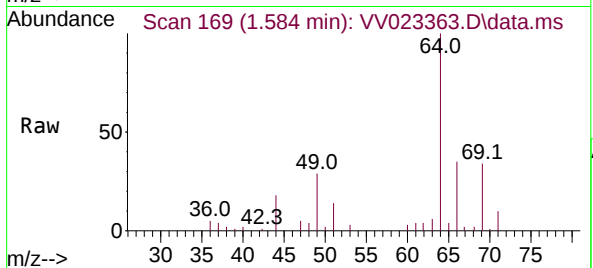
Tgt Ion: 62 Resp: 46498
Ion Ratio Lower Upper
62 100
64 33.6 23.1 42.9



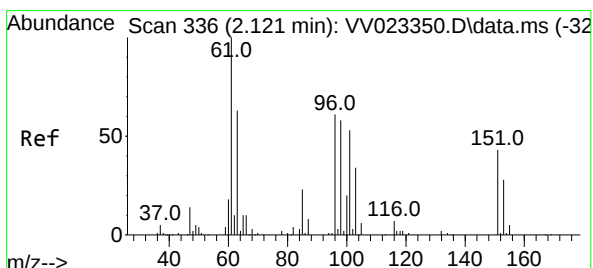
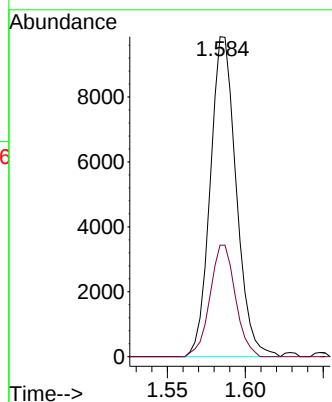
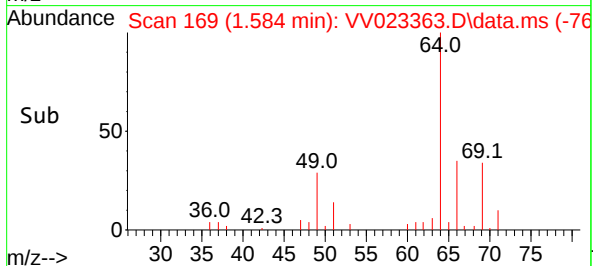


#8
Chloroethane
Concen: 1.845 ug/L
RT: 1.584 min Scan# 1
Delta R.T. -0.000 min
Lab File: VV023363.D
Acq: 11 Nov 2021 04:07

Instrument :
MSVOA_V
ClientSampleId :

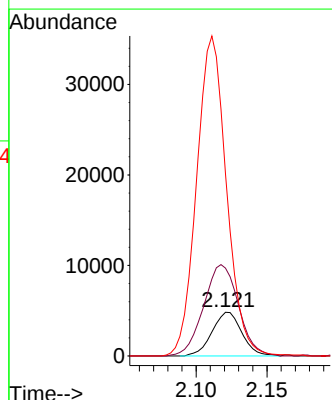
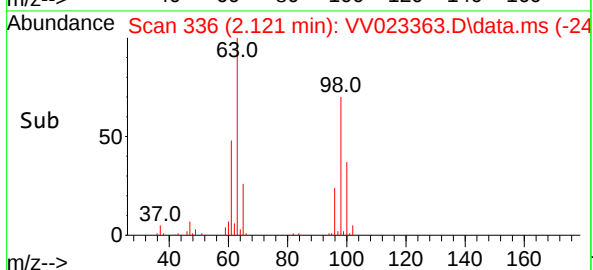
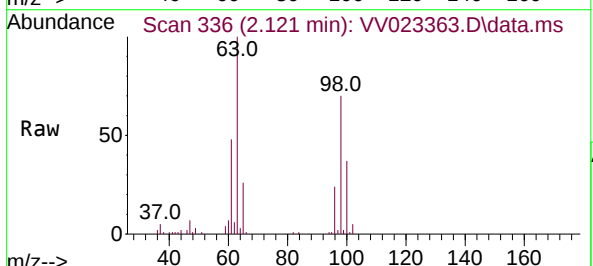


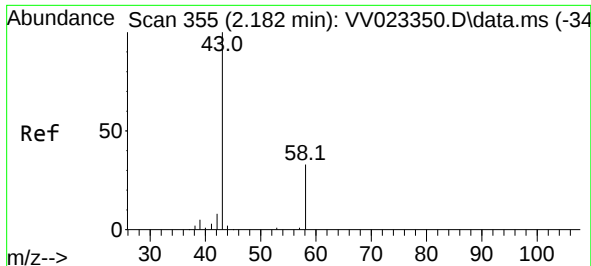
Tgt Ion: 64 Resp: 11432
Ion Ratio Lower Upper
64 100
66 34.9 22.1 41.1



#12
1,1-Dichloroethene
Concen: 0.913 ug/L
RT: 2.121 min Scan# 336
Delta R.T. -0.000 min
Lab File: VV023363.D
Acq: 11 Nov 2021 04:07

Tgt Ion: 96 Resp: 7061
Ion Ratio Lower Upper
96 100
61 201.3 121.5 225.7
63 417.6 99.6 185.0#





#13

Acetone

Concen: 5.461 ug/L

RT: 2.175 min Scan# 3

Delta R.T. -0.007 min

Lab File: VV023363.D

Acq: 11 Nov 2021 04:07

Instrument :

MSVOA_V

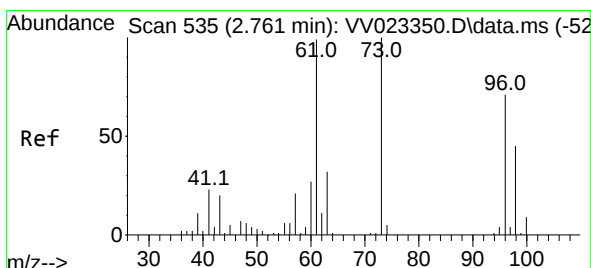
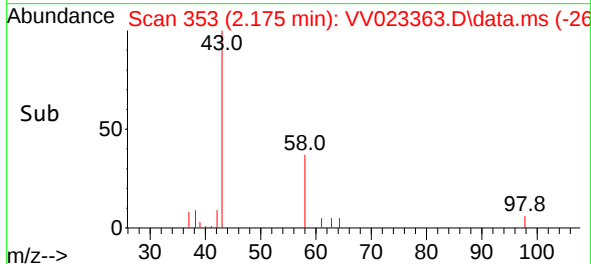
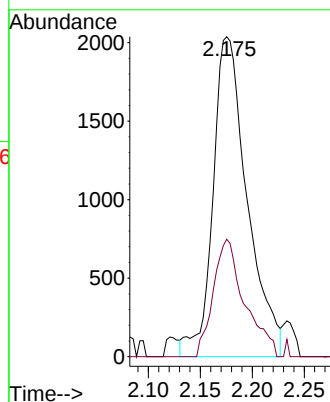
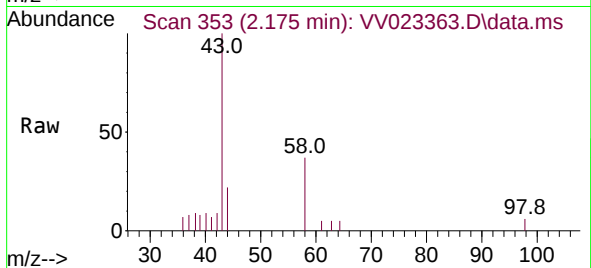
ClientSampleId :

Tgt Ion: 43 Resp: 4670

Ion Ratio Lower Upper

43 100

58 33.6 0.0 55.4



#18

trans-1,2-Dichloroethene

Concen: 0.068 ug/L

RT: 2.770 min Scan# 538

Delta R.T. 0.010 min

Lab File: VV023363.D

Acq: 11 Nov 2021 04:07

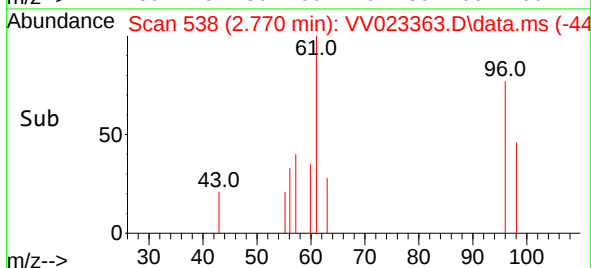
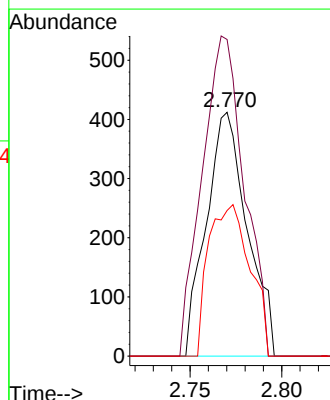
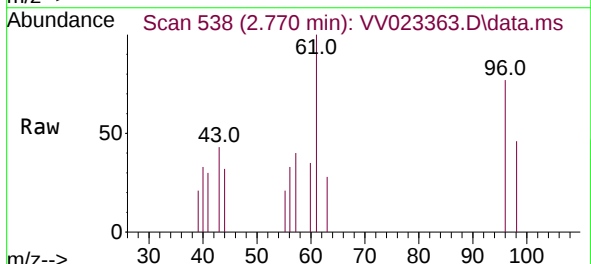
Tgt Ion: 96 Resp: 642

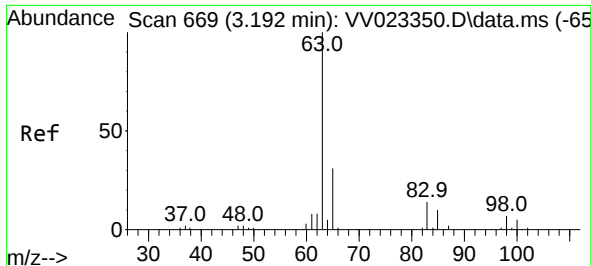
Ion Ratio Lower Upper

96 100

61 129.9 93.2 173.2

98 59.7 47.0 87.2





#19

1,1-Dichloroethane

Concen: 18.760 ug/L

RT: 3.191 min Scan# 6

Delta R.T. -0.000 min

Lab File: VV023363.D

Acq: 11 Nov 2021 04:07

Instrument :

MSVOA_V

ClientSampleId :

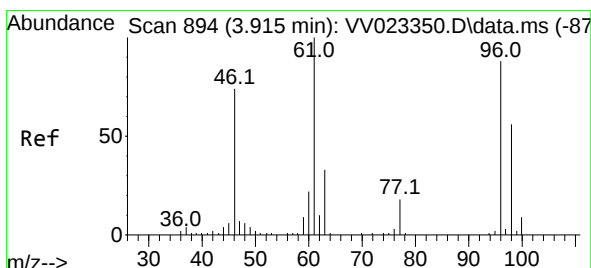
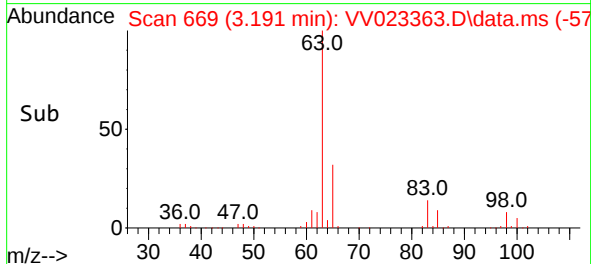
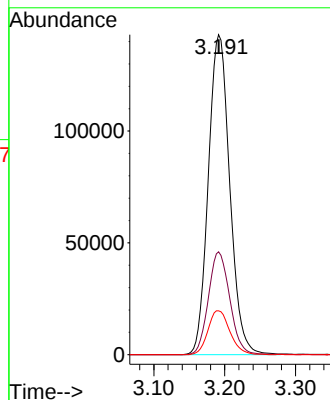
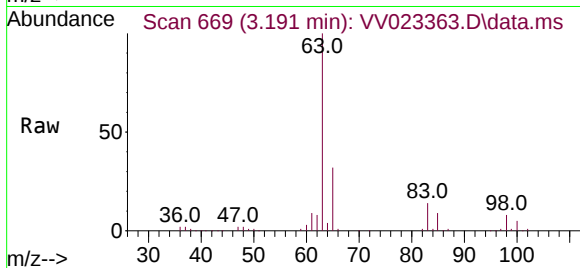
Tgt Ion: 63 Resp: 301089

Ion Ratio Lower Upper

63 100

65 32.2 22.6 42.0

83 13.7 11.1 20.7



#22

cis-1,2-Dichloroethene

Concen: 24.085 ug/L

RT: 3.912 min Scan# 893

Delta R.T. -0.003 min

Lab File: VV023363.D

Acq: 11 Nov 2021 04:07

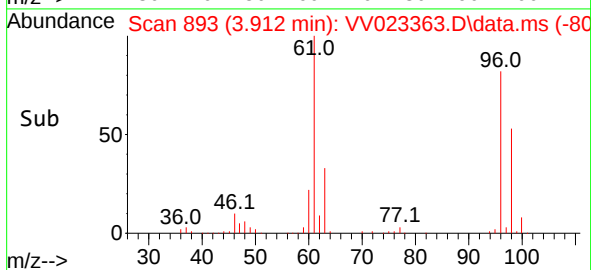
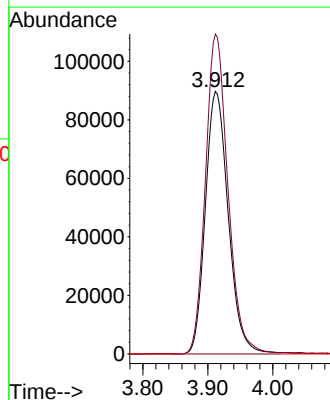
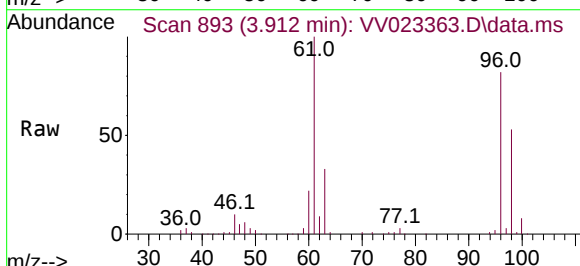
Tgt Ion: 96 Resp: 220335

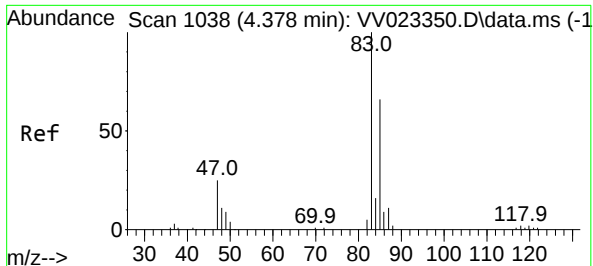
Ion Ratio Lower Upper

96 100

61 121.9 92.3 171.3

68 0.0 0.4 0.8#





#25

Chloroform

Concen: 1.107 ug/L

RT: 4.381 min Scan# 110

Delta R.T. 0.003 min

Lab File: VV023363.D

Acq: 11 Nov 2021 04:07

Instrument :

MSVOA_V

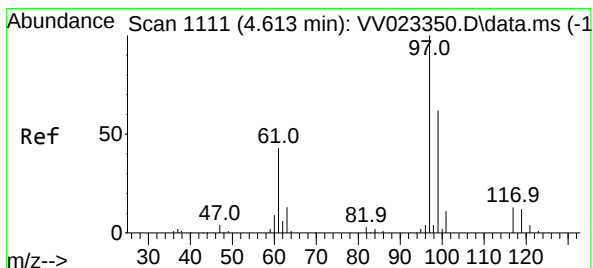
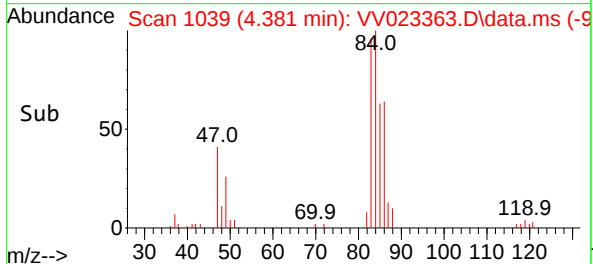
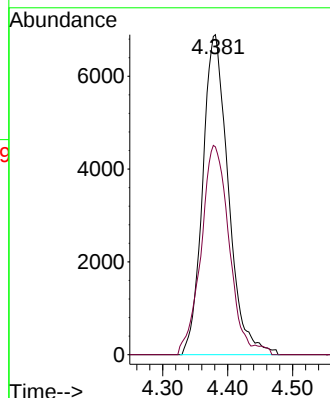
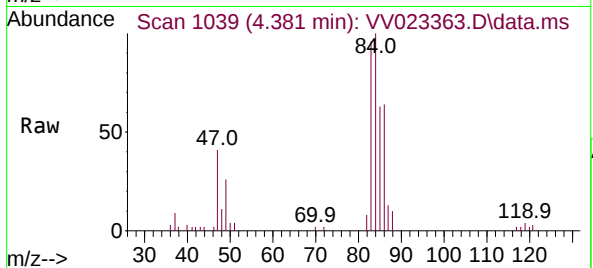
ClientSampleId :

Tgt Ion: 83 Resp: 18943

Ion Ratio Lower Upper

83 100

85 65.0 46.8 86.8



#29

1,1,1-Trichloroethane

Concen: 32.993 ug/L

RT: 4.609 min Scan# 1110

Delta R.T. -0.003 min

Lab File: VV023363.D

Acq: 11 Nov 2021 04:07

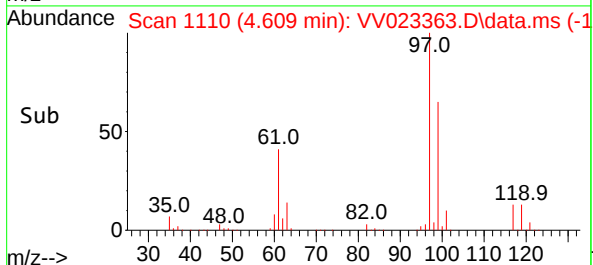
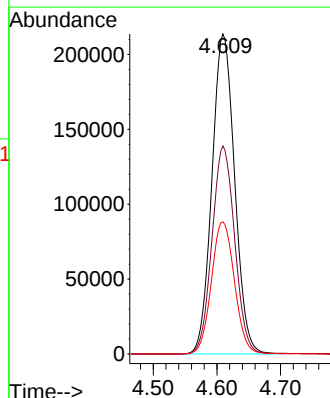
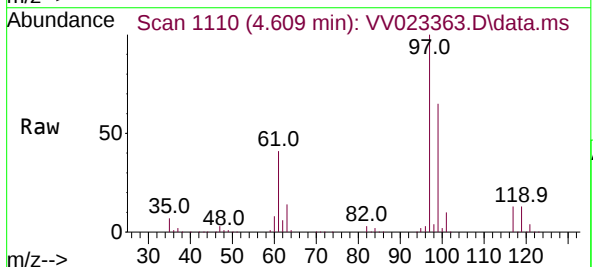
Tgt Ion: 97 Resp: 529353

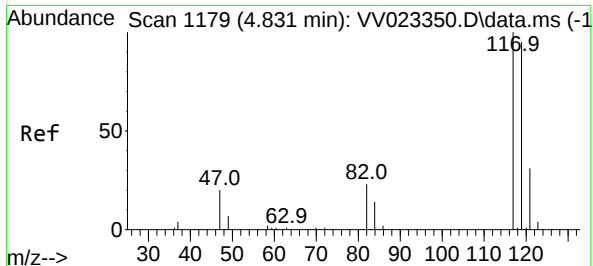
Ion Ratio Lower Upper

97 100

99 65.0 51.0 76.4

61 42.0 34.1 51.1

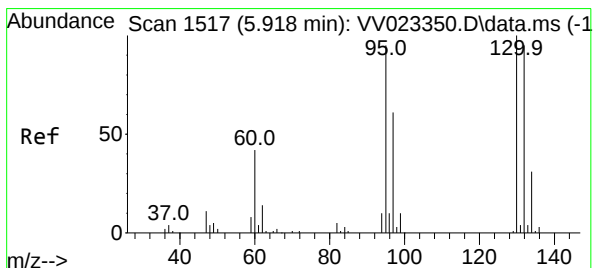
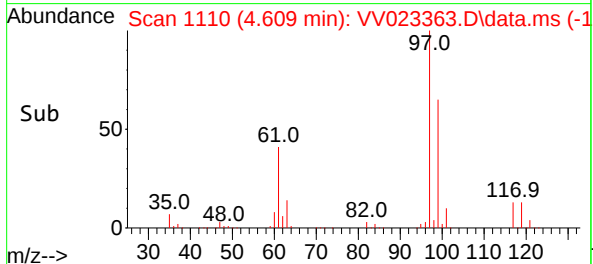
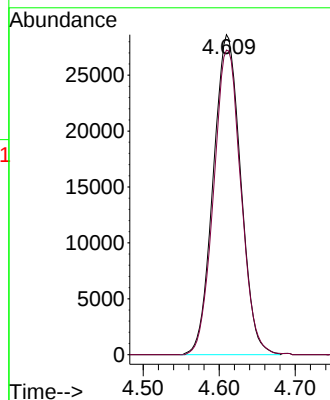
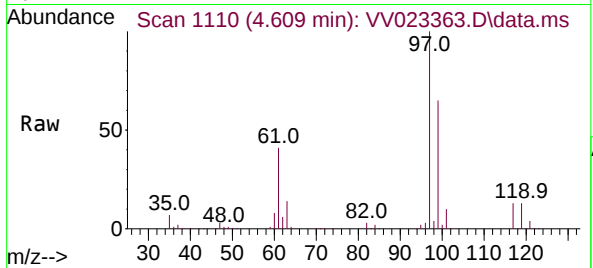




#31
Carbon tetrachloride
Concen: 4.977 ug/L
RT: 4.609 min Scan# 1179
Delta R.T. -0.222 min
Lab File: VV023363.D
Acq: 11 Nov 2021 04:07

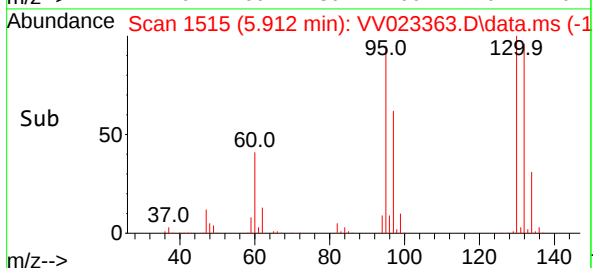
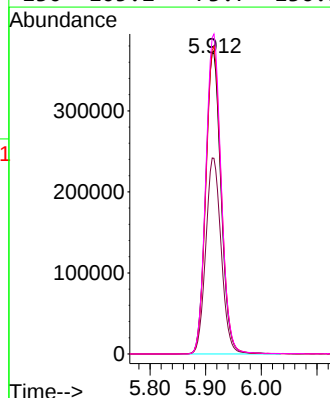
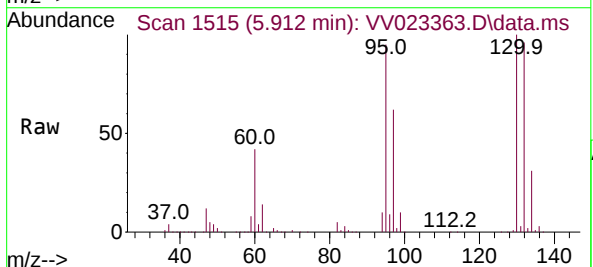
Instrument :
MSVOA_V
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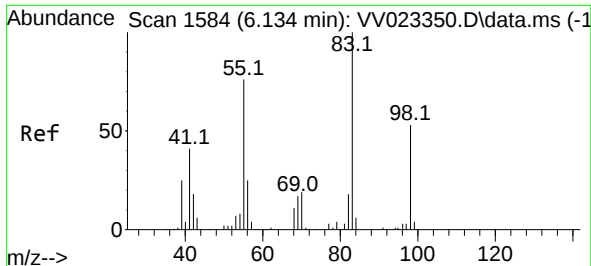
Tgt Ion:117 Resp: 71718
Ion Ratio Lower Upper
117 100
119 94.7 78.8 118.2



#34
Trichloroethene
Concen: 72.909 ug/L
RT: 5.912 min Scan# 1515
Delta R.T. -0.007 min
Lab File: VV023363.D
Acq: 11 Nov 2021 04:07

Tgt Ion: 95 Resp: 715880
Ion Ratio Lower Upper
95 100
97 65.1 45.0 83.6
132 101.1 69.7 129.4
130 105.2 73.7 136.9

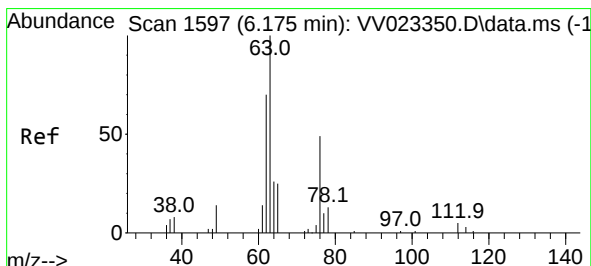
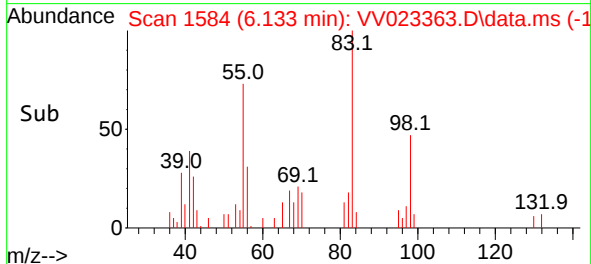
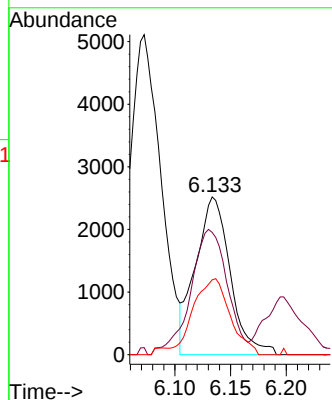
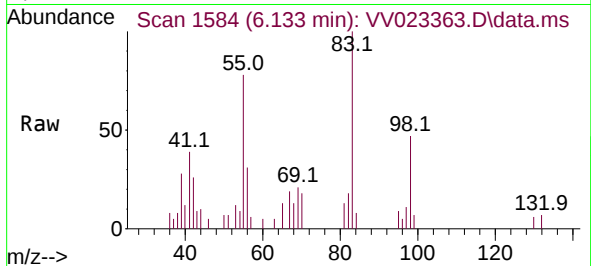




#35
Methylcyclohexane
Concen: 0.353 ug/L
RT: 6.133 min Scan# 1584
Delta R.T. -0.000 min
Lab File: VV023363.D
Acq: 11 Nov 2021 04:07

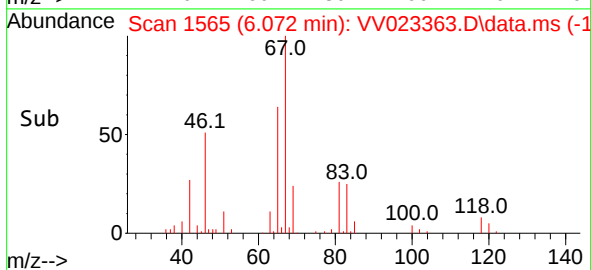
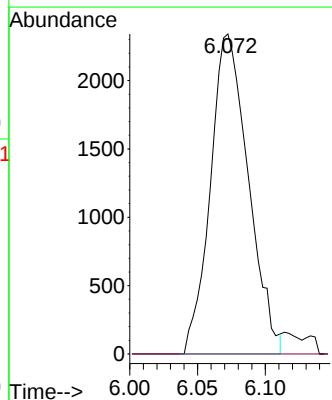
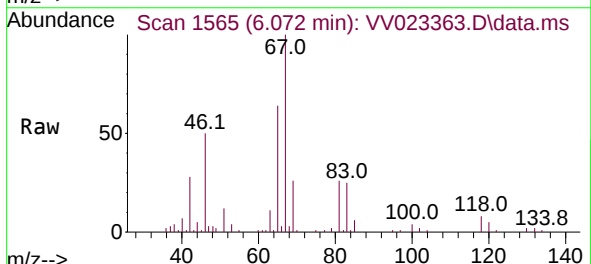
Instrument :
MSVOA_V
ClientSampleId :

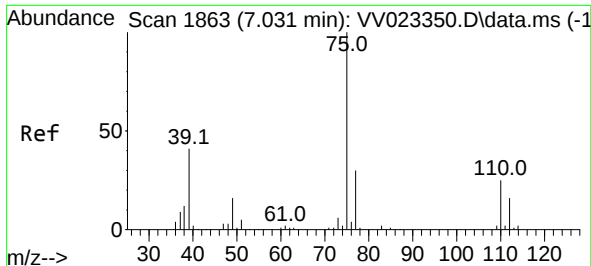
Tgt Ion:	83	Resp:	5464
Ion	Ratio	Lower	Upper
83	100		
55	83.9	62.8	94.2
98	53.0	37.9	56.9



#37
1,2-Dichloropropane
Concen: 0.529 ug/L
RT: 6.072 min Scan# 1565
Delta R.T. -0.103 min
Lab File: VV023363.D
Acq: 11 Nov 2021 04:07

Tgt Ion:	63	Resp:	4561
Ion	Ratio	Lower	Upper
63	100		
112	17.7	4.6	6.8#





#39

cis-1,3-Dichloropropene

Concen: 0.086 ug/L

RT: 6.992 min Scan# 1863

Delta R.T. -0.039 min

Lab File: VV023363.D

Acq: 11 Nov 2021 04:07

Instrument :

MSVOA_V

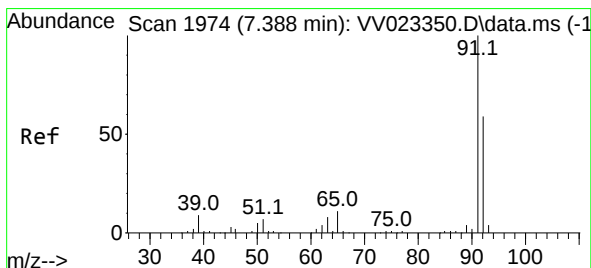
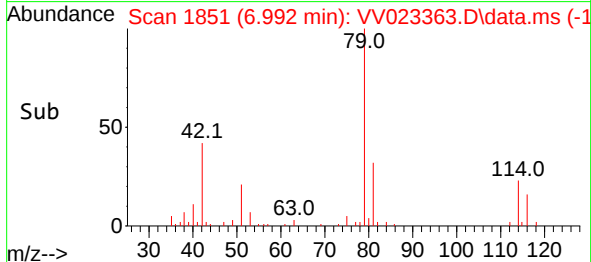
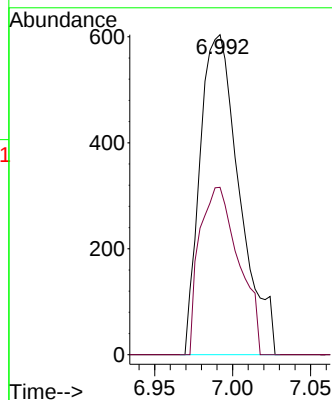
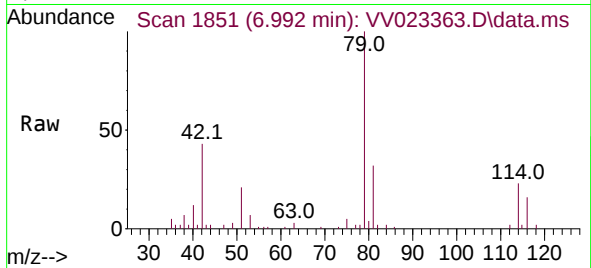
ClientSampleId :

Tgt Ion: 75 Resp: 1067

Ion Ratio Lower Upper

75 100

77 52.3 21.6 40.2#



#42

Toluene

Concen: 0.554 ug/L

RT: 7.394 min Scan# 1976

Delta R.T. 0.006 min

Lab File: VV023363.D

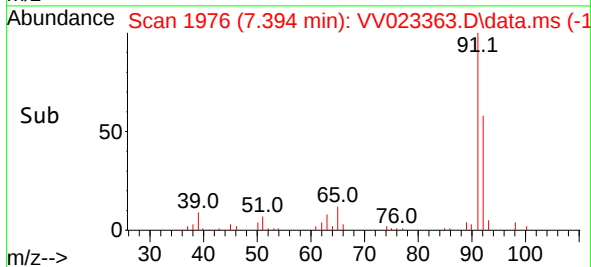
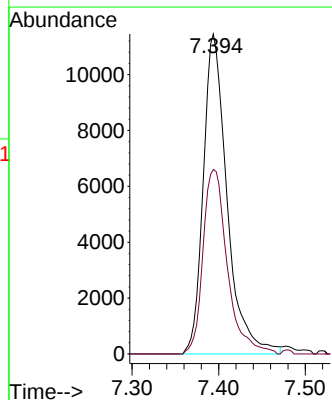
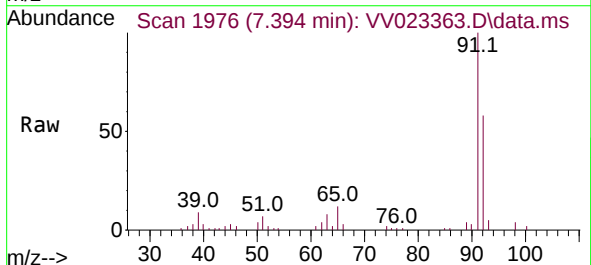
Acq: 11 Nov 2021 04:07

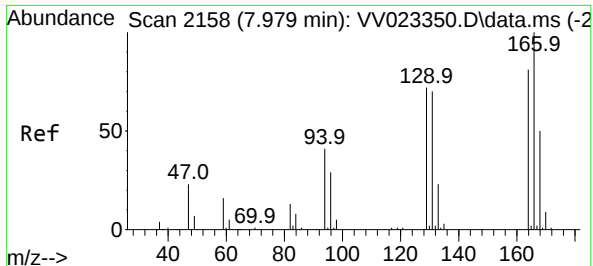
Tgt Ion: 91 Resp: 21862

Ion Ratio Lower Upper

91 100

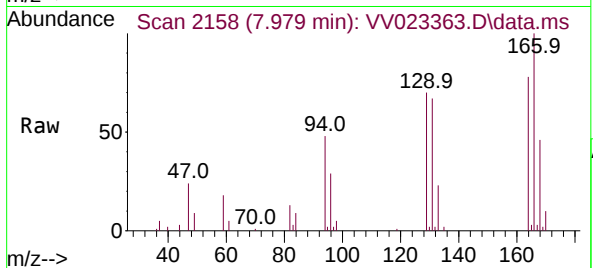
92 57.6 39.3 72.9



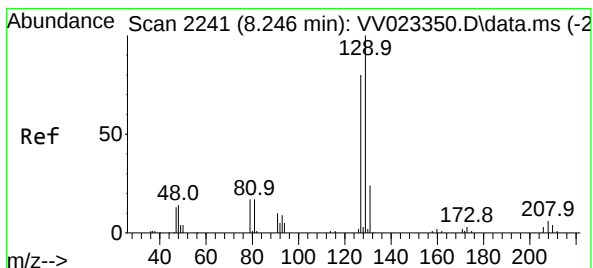
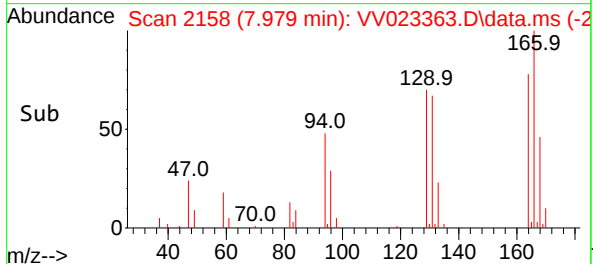
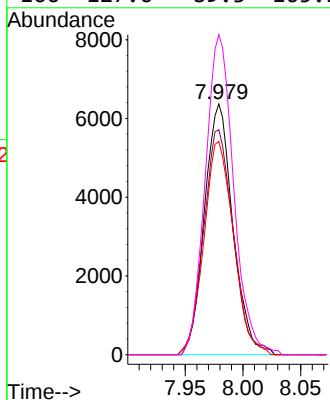


#47
Tetrachloroethene
Concen: 1.283 ug/L
RT: 7.979 min Scan# 2158
Delta R.T. -0.000 min
Lab File: VV023363.D
Acq: 11 Nov 2021 04:07

Instrument :
MSVOA_V
ClientSampleId :

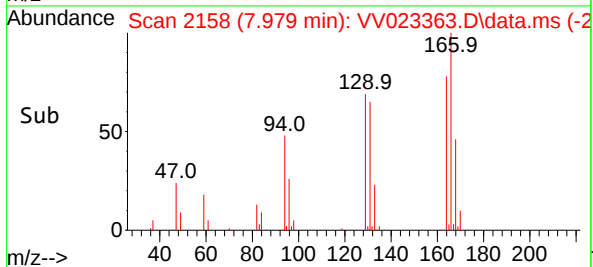
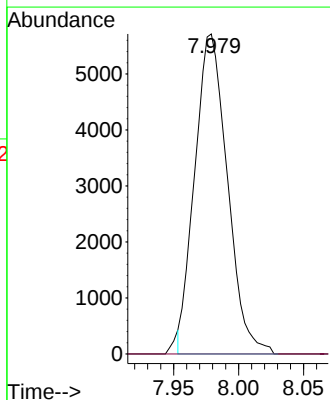
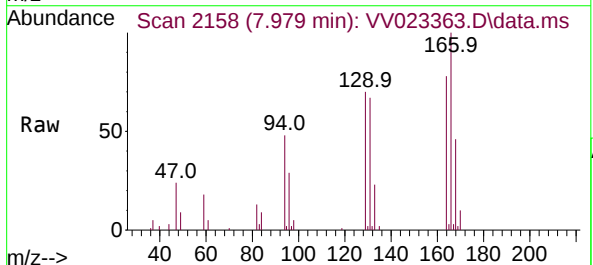


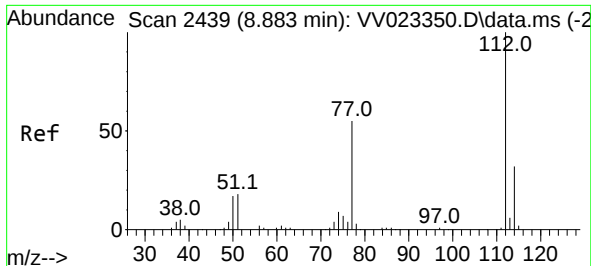
Tgt Ion:	164	Resp:	10915
Ion	Ratio	Lower	Upper
164	100		
129	89.7	64.0	119.0
131	85.0	63.4	117.8
166	127.6	89.3	165.9



#49
Dibromochloromethane
Concen: 1.273 ug/L
RT: 7.979 min Scan# 2158
Delta R.T. -0.267 min
Lab File: VV023363.D
Acq: 11 Nov 2021 04:07

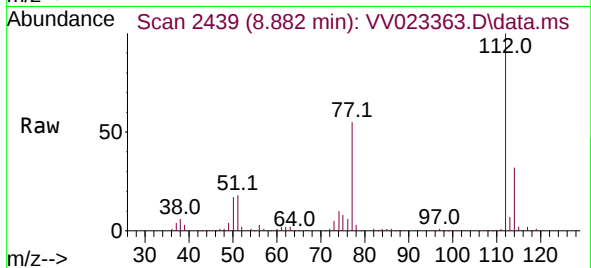
Tgt Ion:	129	Resp:	9991
Ion	Ratio	Lower	Upper
129	100		
127	0.0	54.7	101.7#



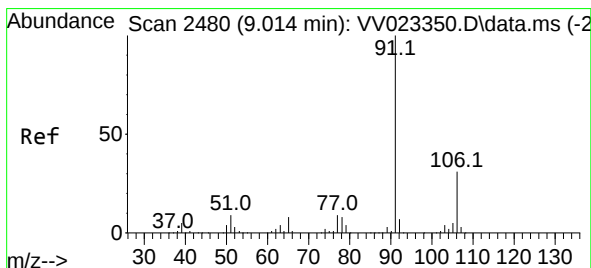
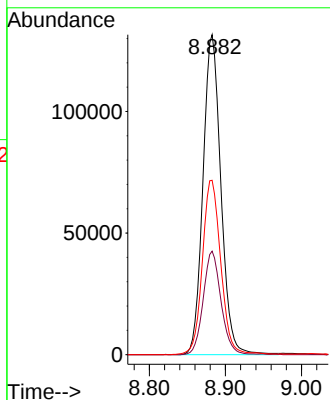
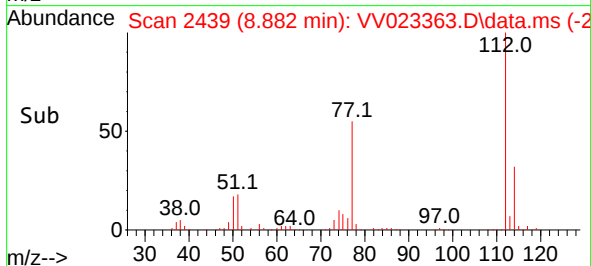


#51
Chlorobenzene
Concen: 8.227 ug/L
RT: 8.882 min Scan# 2439
Delta R.T. -0.000 min
Lab File: VV023363.D
Acq: 11 Nov 2021 04:07

Instrument :
MSVOA_V
ClientSampleId :

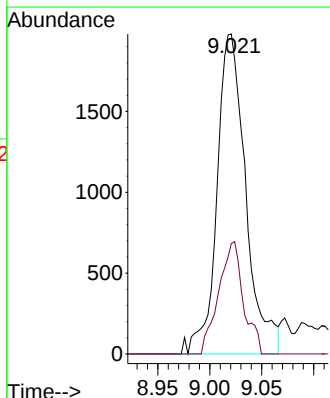
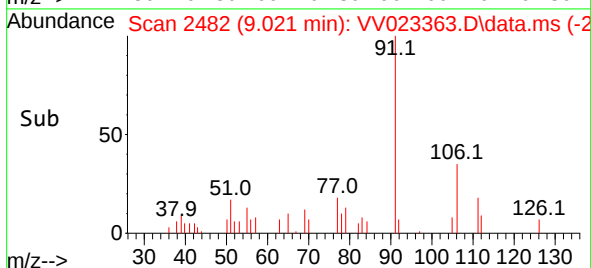
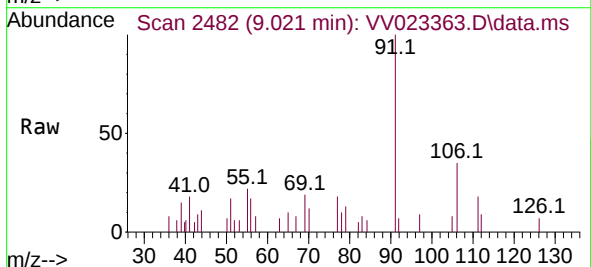


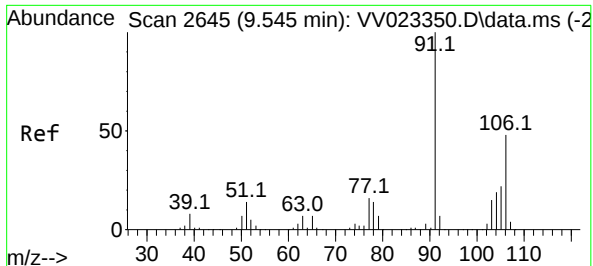
Tgt Ion:112 Resp: 215959
Ion Ratio Lower Upper
112 100
114 32.4 22.0 40.8
77 54.5 44.4 66.6



#52
Ethylbenzene
Concen: 0.092 ug/L
RT: 9.021 min Scan# 2482
Delta R.T. 0.006 min
Lab File: VV023363.D
Acq: 11 Nov 2021 04:07

Tgt Ion: 91 Resp: 3826
Ion Ratio Lower Upper
91 100
106 34.5 22.5 41.9

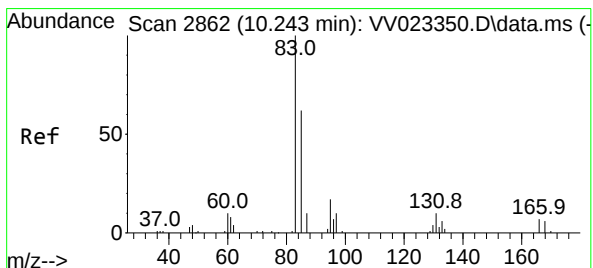
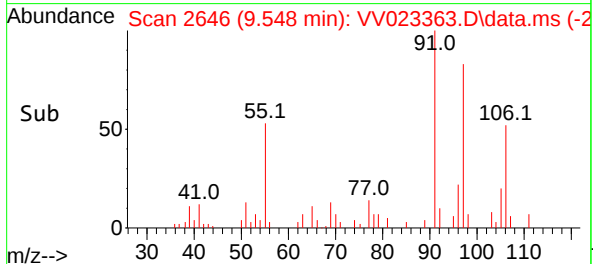
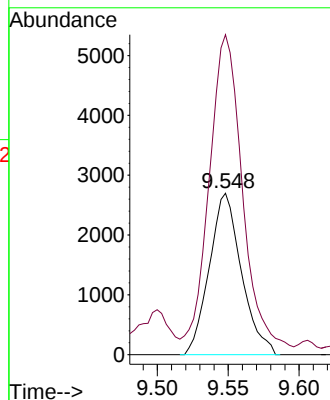
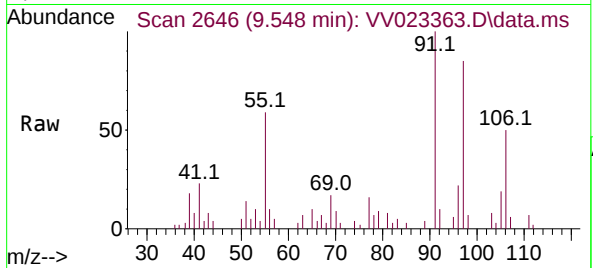




#54
o-xylene
Concen: 0.277 ug/L
RT: 9.548 min Scan# 2646
Delta R.T. 0.003 min
Lab File: VV023363.D
Acq: 11 Nov 2021 04:07

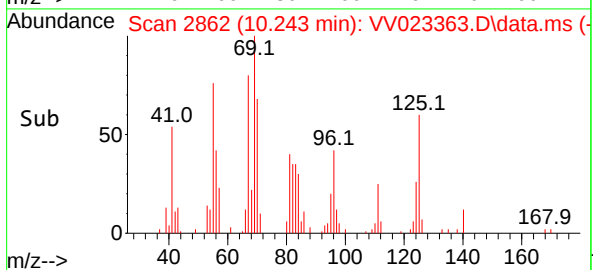
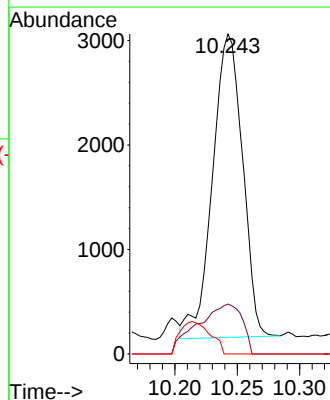
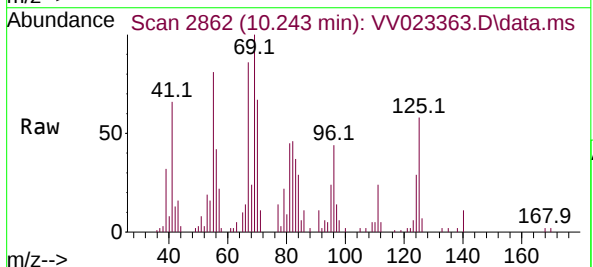
Instrument :
MSVOA_V
ClientSampleId :

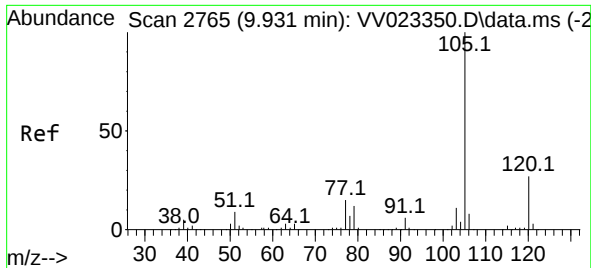
Tgt Ion:106 Resp: 4254
Ion Ratio Lower Upper
106 100
91 198.1 148.3 275.5



#57
1,1,2,2-Tetrachloroethane
Concen: 0.718 ug/L
RT: 10.243 min Scan# 2862
Delta R.T. -0.000 min
Lab File: VV023363.D
Acq: 11 Nov 2021 04:07

Tgt Ion: 83 Resp: 4869
Ion Ratio Lower Upper
83 100
85 15.6 45.1 83.9#
131 0.0 7.8 11.6#

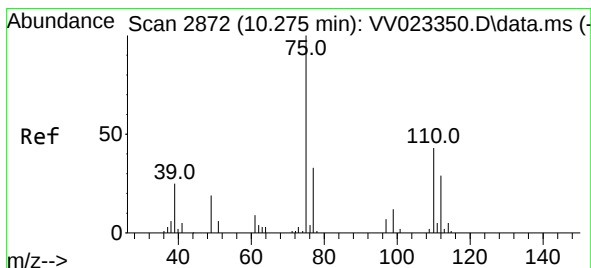
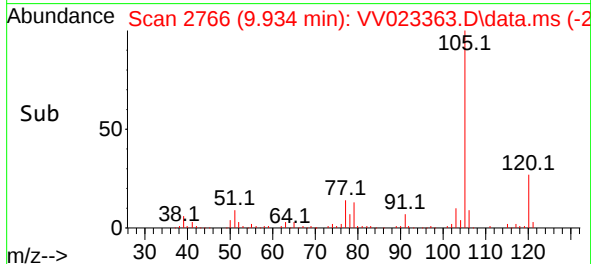
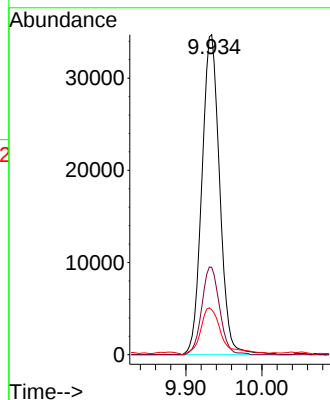
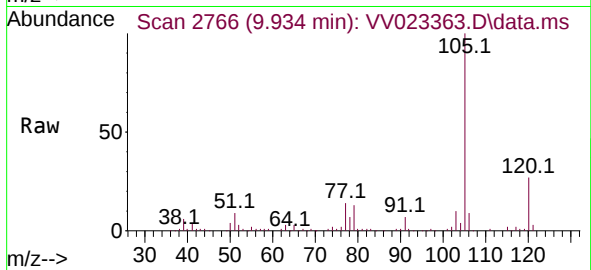




#60
Isopropylbenzene
Concen: 1.297 ug/L
RT: 9.934 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV023363.D
Acq: 11 Nov 2021 04:07

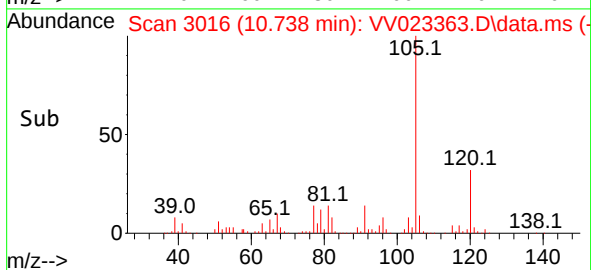
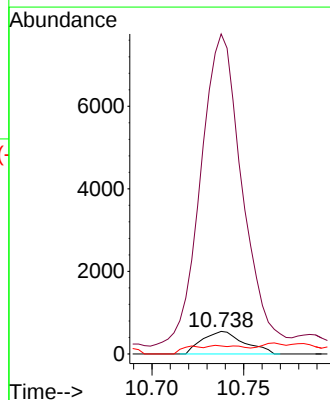
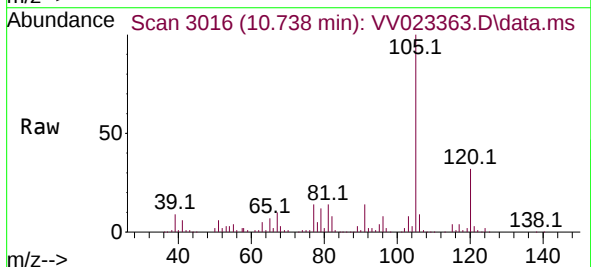
Instrument :
MSVOA_V
ClientSampleId :

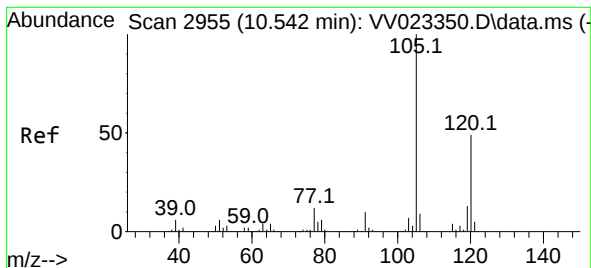
Tgt Ion:105 Resp: 56199
Ion Ratio Lower Upper
105 100
120 27.6 21.7 32.5
77 17.6 12.6 19.0



#61
1,2,3-Trichloropropane
Concen: 0.172 ug/L
RT: 10.738 min Scan# 3016
Delta R.T. 0.463 min
Lab File: VV023363.D
Acq: 11 Nov 2021 04:07

Tgt Ion: 75 Resp: 865
Ion Ratio Lower Upper
75 100
77 1368.7 26.6 39.8#
110 28.3 31.8 47.6#

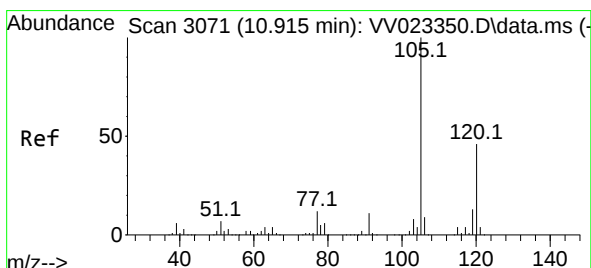
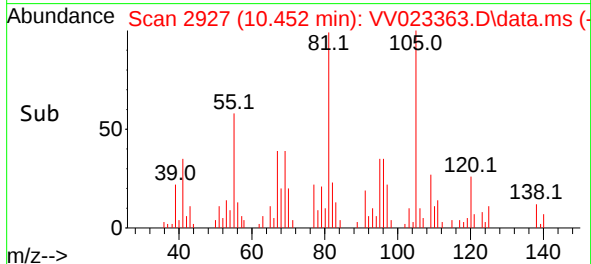
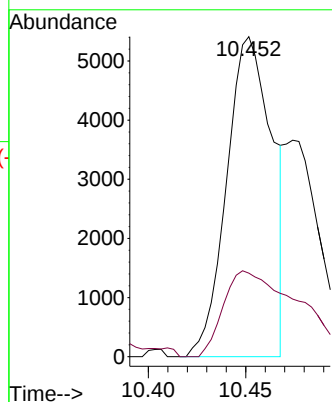
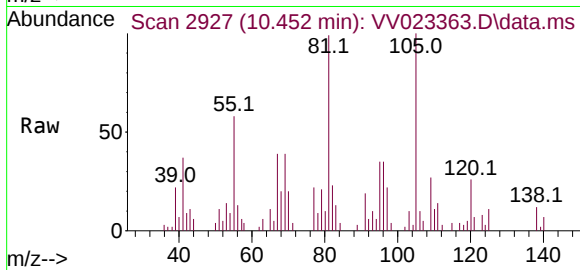




#62
 1,3,5-Trimethylbenzene
 Concen: 0.244 ug/L
 RT: 10.452 min Scan# 2955
 Delta R.T. -0.090 min
 Lab File: VV023363.D
 Acq: 11 Nov 2021 04:07

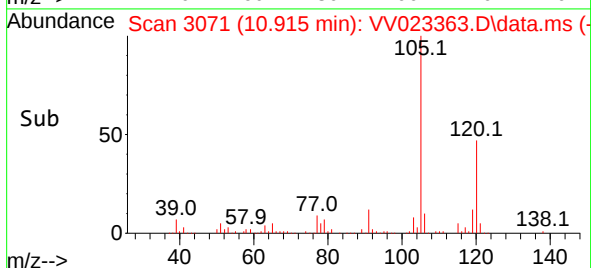
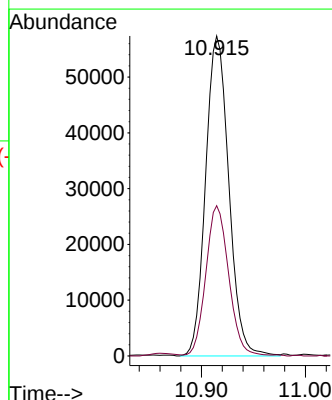
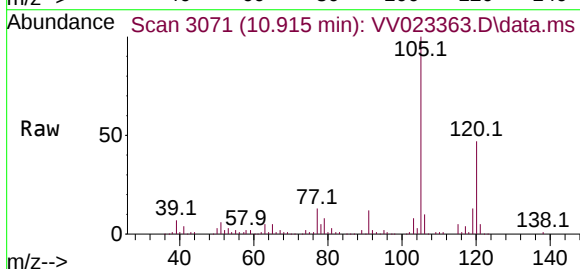
Instrument :
 MSVOA_V
 ClientSampleId :

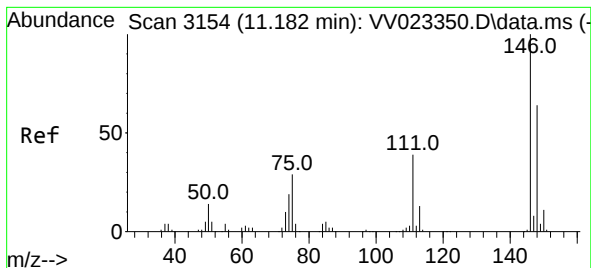
Tgt Ion:105 Resp: 8779
 Ion Ratio Lower Upper
 105 100
 120 45.2 39.7 59.5



#63
 1,2,4-Trimethylbenzene
 Concen: 2.492 ug/L
 RT: 10.915 min Scan# 3071
 Delta R.T. -0.000 min
 Lab File: VV023363.D
 Acq: 11 Nov 2021 04:07

Tgt Ion:105 Resp: 89118
 Ion Ratio Lower Upper
 105 100
 120 46.4 37.4 56.2





#64

1,3-Dichlorobenzene

Concen: 0.246 ug/L

RT: 11.185 min Scan# 3154

Delta R.T. 0.003 min

Lab File: VV023363.D

Acq: 11 Nov 2021 04:07

Instrument :

MSVOA_V

ClientSampleId :

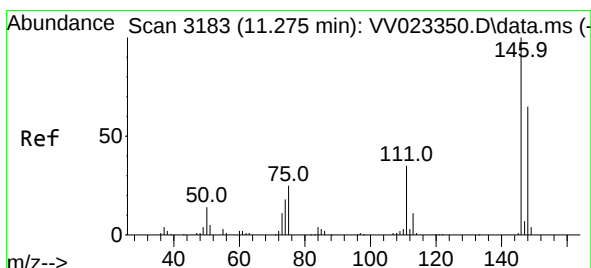
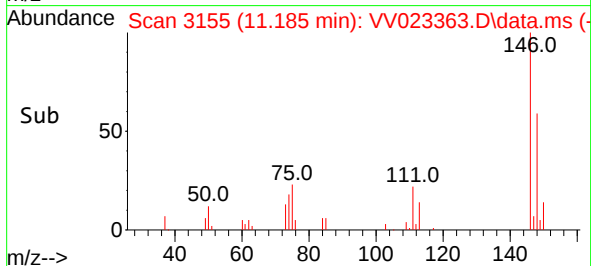
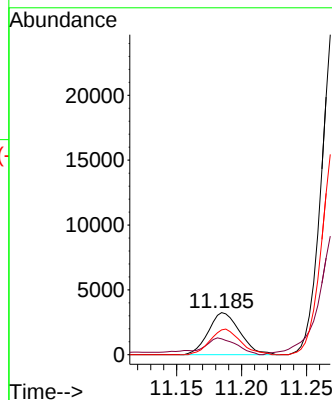
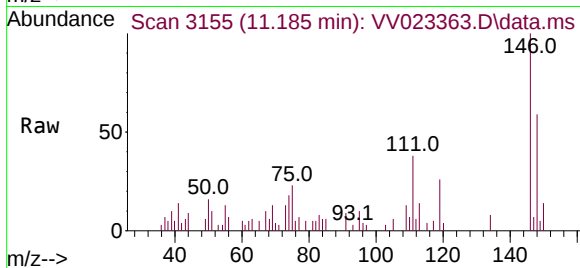
Tgt Ion:146 Resp: 5448

Ion Ratio Lower Upper

146 100

111 37.9 26.7 49.7

148 59.2 42.9 79.7



#65

1,4-Dichlorobenzene

Concen: 1.941 ug/L

RT: 11.275 min Scan# 3183

Delta R.T. -0.000 min

Lab File: VV023363.D

Acq: 11 Nov 2021 04:07

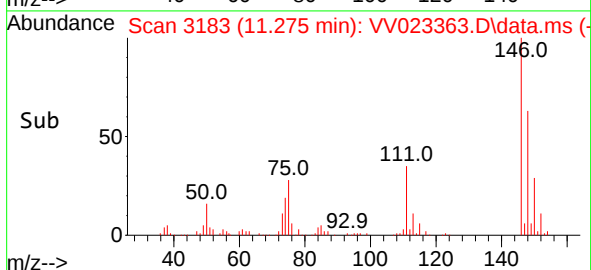
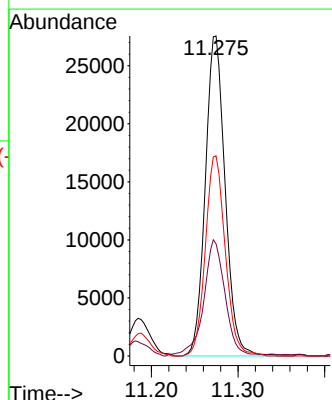
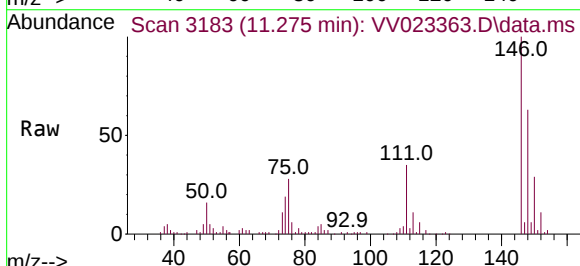
Tgt Ion:146 Resp: 43882

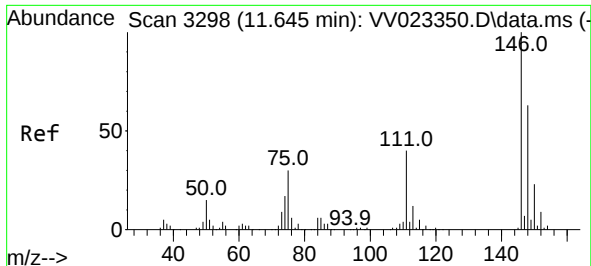
Ion Ratio Lower Upper

146 100

111 35.1 26.2 48.8

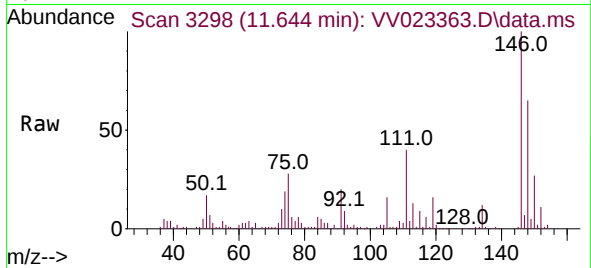
148 62.5 44.4 82.5



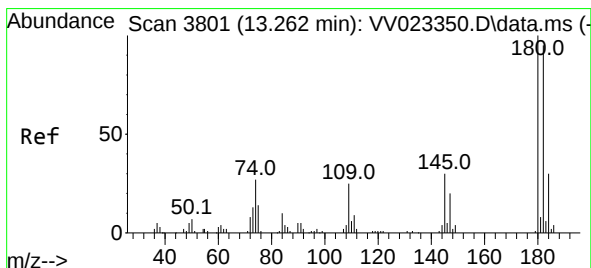
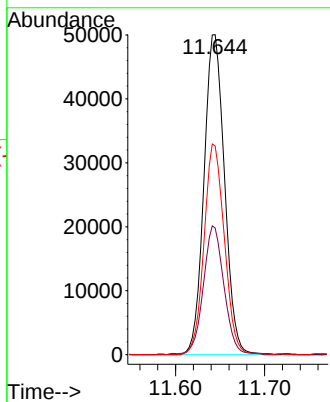
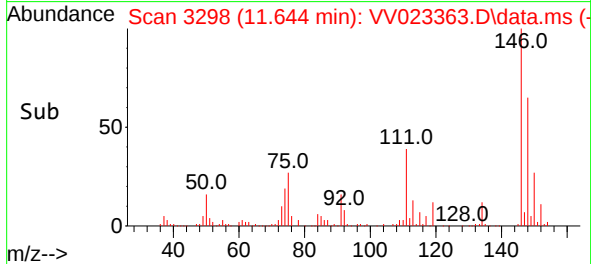


#67
1,2-Dichlorobenzene
Concen: 4.045 ug/L
RT: 11.644 min Scan# 31
Delta R.T. -0.000 min
Lab File: VV023363.D
Acq: 11 Nov 2021 04:07

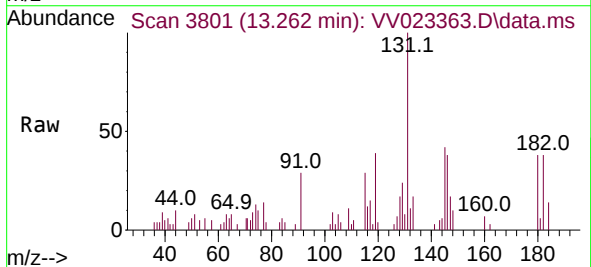
Instrument :
MSVOA_V
ClientSampleId :



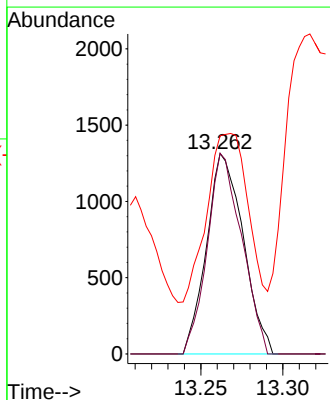
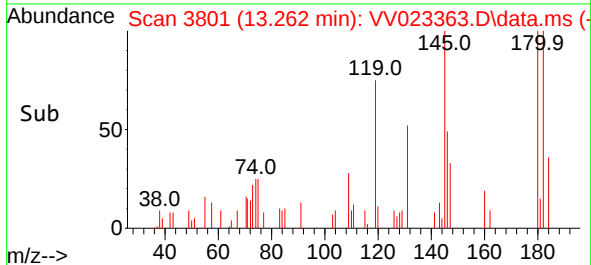
Tgt Ion:146 Resp: 80127
Ion Ratio Lower Upper
146 100
111 39.6 31.6 47.4
148 65.3 51.0 76.6

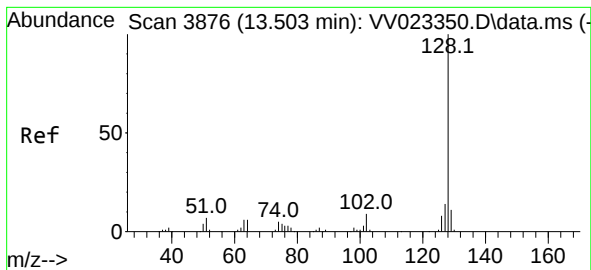


#70
1,2,4-trichlorobenzene
Concen: 0.147 ug/L
RT: 13.262 min Scan# 3801
Delta R.T. -0.000 min
Lab File: VV023363.D
Acq: 11 Nov 2021 04:07



Tgt Ion:180 Resp: 2038
Ion Ratio Lower Upper
180 100
182 94.1 76.9 115.3
145 99.3 24.4 36.6#





#71

Naphthalene

Concen: 0.313 ug/L

RT: 13.506 min Scan# 3877

Delta R.T. 0.003 min

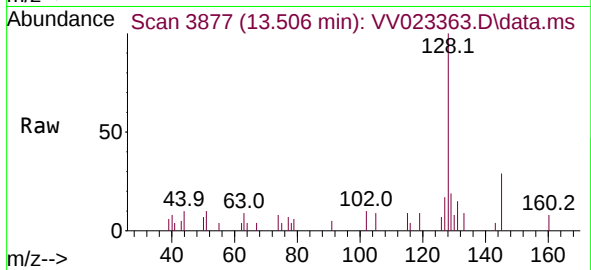
Lab File: VV023363.D

Acq: 11 Nov 2021 04:07

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion:128 Resp: 6412

Ion Ratio Lower Upper

128 100

129 23.9 8.6 13.0#

127 18.8 10.5 15.7#

