

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW121322\
 Data File : VW029646.D
 Acq On : 13 Dec 2022 13:16
 Operator : SY/MD
 Sample : N5928-08
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 EXZ71

Quant Time: Dec 13 22:51:29 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM120722WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Dec 13 22:49:59 2022
 Response via : Initial Calibration

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

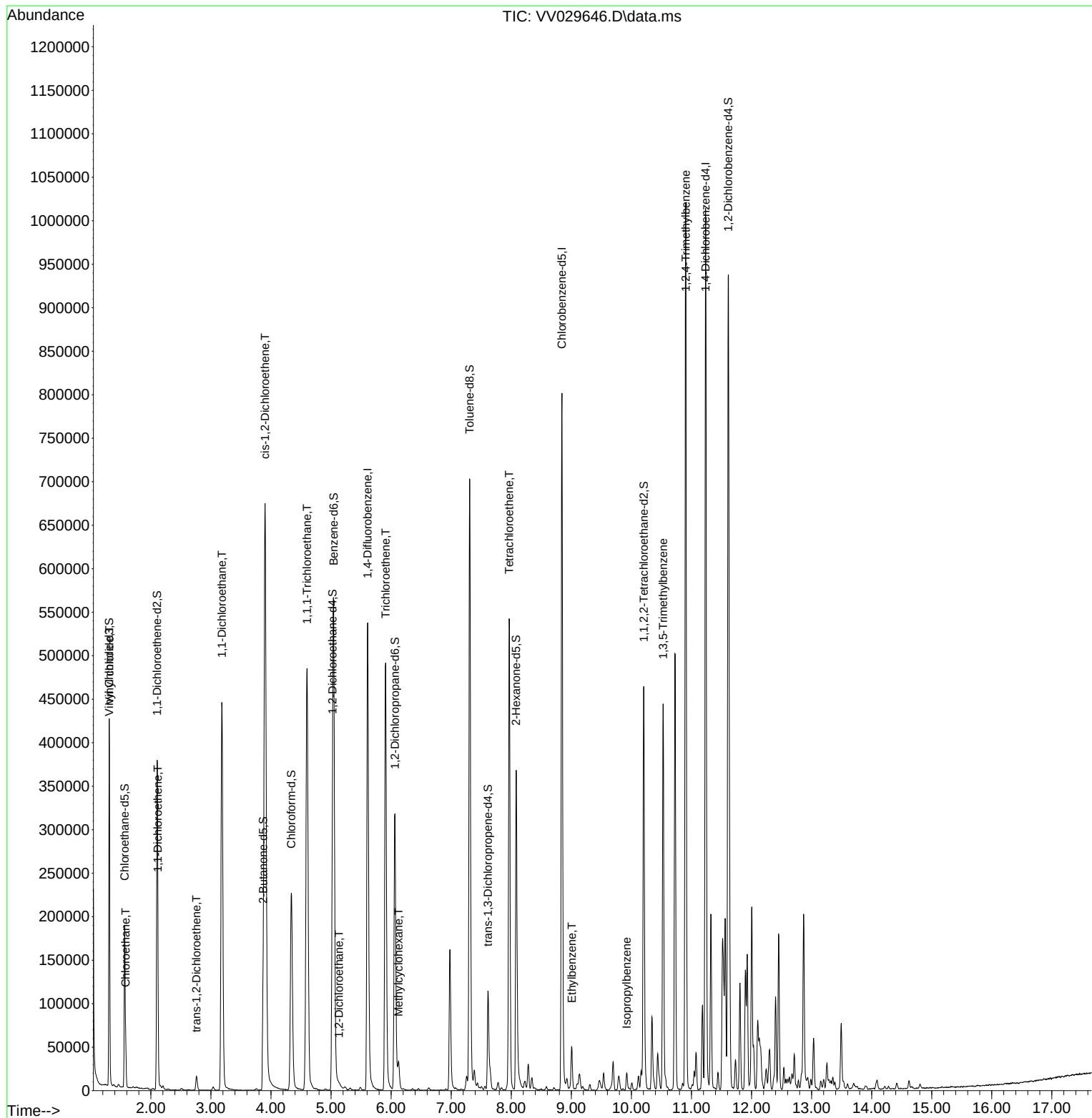
Internal Standards						
1) 1,4-Difluorobenzene	5.609	114	498445	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.844	117	458332	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.236	152	259693	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	139084	45.567	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	91.140%
7) Chloroethane-d5	1.564	69	115457	49.607	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	99.220%
11) 1,1-Dichloroethene-d2	2.104	63	189680	39.843	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	79.680%
21) 2-Butanone-d5	3.870	46	165820	89.056	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	89.060%
24) Chloroform-d	4.339	84	247008	43.004	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.000%
26) 1,2-Dichloroethane-d4	5.024	65	149515	45.577	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.160%
32) Benzene-d6	5.043	84	547352	45.196	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.400%
36) 1,2-Dichloropropane-d6	6.063	67	168529	45.558	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	91.120%
41) Toluene-d8	7.307	98	492795	43.186	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	86.380%
43) trans-1,3-Dichloroprop...	7.612	79	70536	37.761	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	75.520%
47) 2-Hexanone-d5	8.082	63	142897	90.460	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	90.460%
56) 1,1,2,2-Tetrachloroeth...	10.207	84	232075	43.902	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	87.800%
66) 1,2-Dichlorobenzene-d4	11.612	152	213340	43.155	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	86.320%
Target Compounds						Qvalue
5) Vinyl chloride	1.310	62	139629	37.282	ug/L	99
8) Chloroethane	1.580	64	27351	13.115	ug/L	99
12) 1,1-Dichloroethene	2.117	96	15773	5.920	ug/L #	1
17) trans-1,2-Dichloroethene	2.757	96	5577	1.817	ug/L	98
19) 1,1-Dichloroethane	3.182	63	461293	87.712	ug/L	99
20) cis-1,2-Dichloroethene	3.902	96	390615	115.713	ug/L	92
27) 1,2-Dichloroethane	5.130	62	3406	0.884	ug/L #	89
30) 1,1,1-Trichloroethane	4.600	97	409393	81.985	ug/L	98
34) Trichloroethene	5.908	95	177477	54.822	ug/L	98
35) Methylcyclohexane	6.124	83	12810	2.330	ug/L	96
46) Tetrachloroethene	7.966	164	127998	49.177	ug/L	97
52) Ethylbenzene	9.008	91	35325	2.416	ug/L	98
60) Isopropylbenzene	9.924	105	13316	0.873	ug/L	97
62) 1,3,5-Trimethylbenzene	10.529	105	236850	17.569	ug/L	99
63) 1,2,4-Trimethylbenzene	10.905	105	563028	42.133	ug/L	100

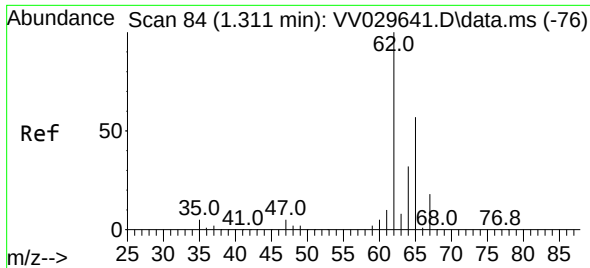
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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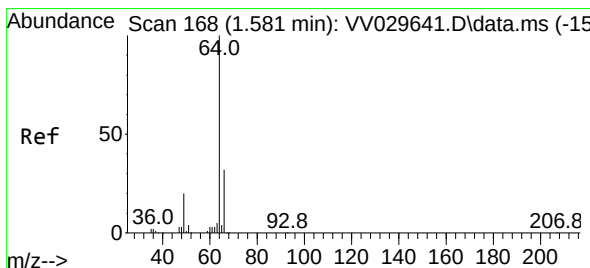
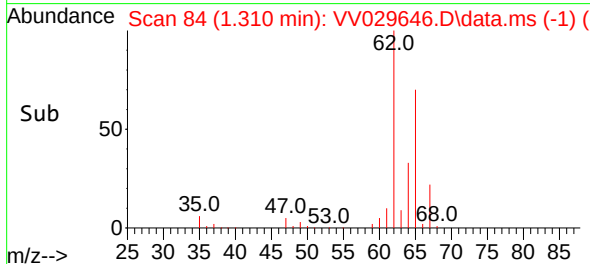
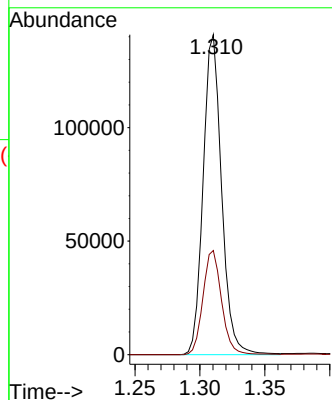
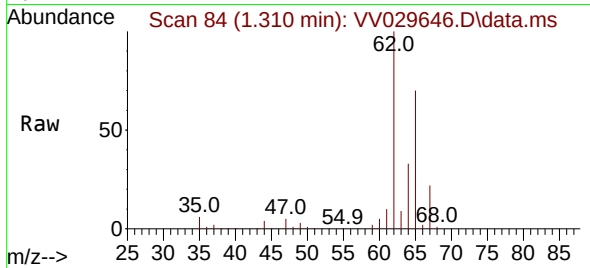




#5
 Vinyl chloride
 Concen: 37.282 ug/L
 RT: 1.310 min Scan# 84
 Delta R.T. -0.000 min
 Lab File: VV029646.D
 Acq: 13 Dec 2022 13:16

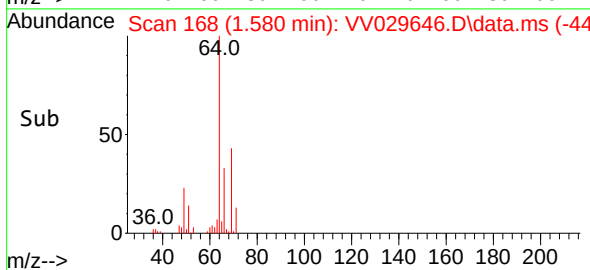
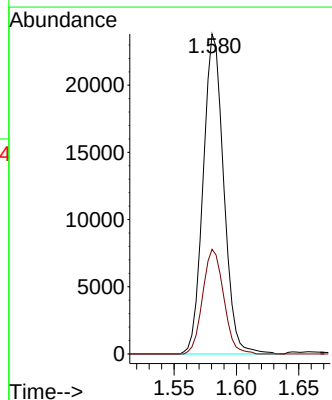
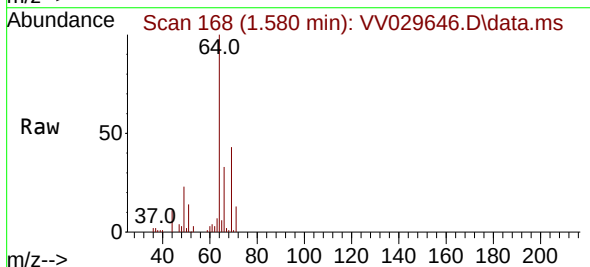
Instrument :
 MSVOA_V
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 EXZ71

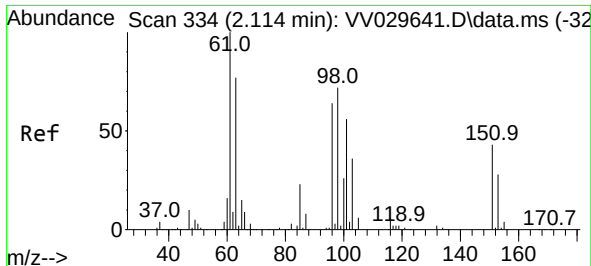
Tgt Ion: 62 Resp: 139629
 Ion Ratio Lower Upper
 62 100
 64 32.6 22.5 41.9



#8
 Chloroethane
 Concen: 13.115 ug/L
 RT: 1.580 min Scan# 168
 Delta R.T. -0.000 min
 Lab File: VV029646.D
 Acq: 13 Dec 2022 13:16

Tgt Ion: 64 Resp: 27351
 Ion Ratio Lower Upper
 64 100
 66 32.7 22.5 41.9





#12

1,1-Dichloroethene

Concen: 5.920 ug/L

RT: 2.117 min Scan# 31

Delta R.T. 0.003 min

Lab File: VV029646.D

Acq: 13 Dec 2022 13:16

Instrument :

MSVOA_V

ClientSampleId :

EXZ71

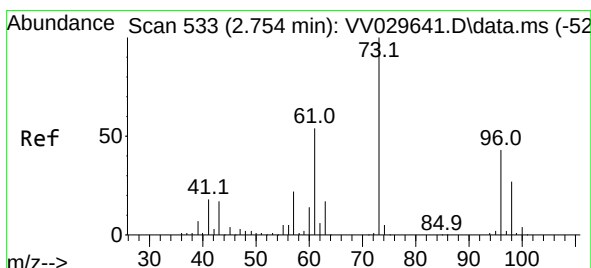
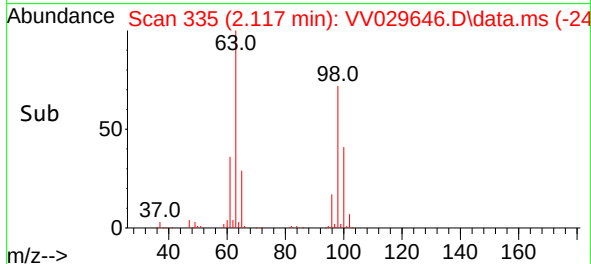
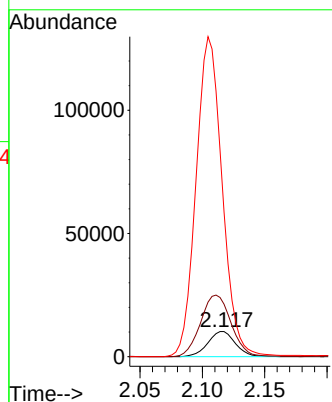
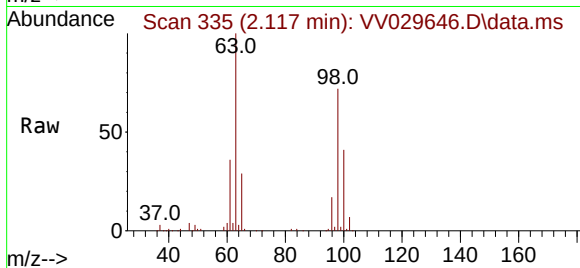
Tgt Ion: 96 Resp: 15773

Ion Ratio Lower Upper

96 100

61 208.9 103.3 191.9#

63 576.6 77.3 143.7#



#17

trans-1,2-Dichloroethene

Concen: 1.817 ug/L

RT: 2.757 min Scan# 534

Delta R.T. 0.003 min

Lab File: VV029646.D

Acq: 13 Dec 2022 13:16

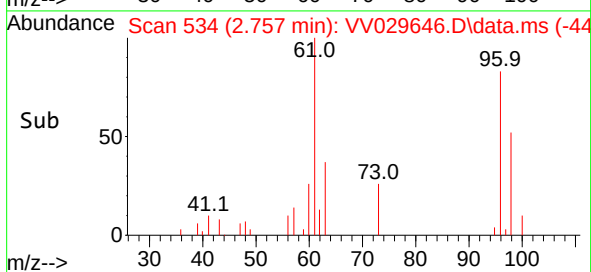
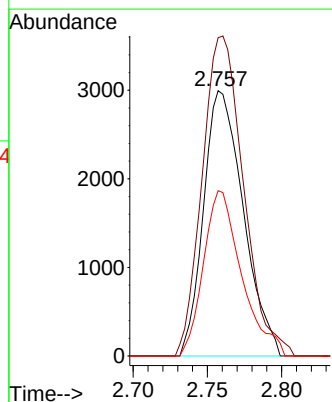
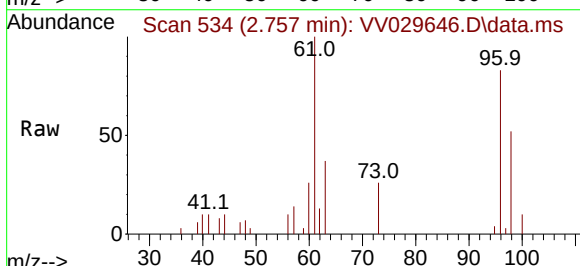
Tgt Ion: 96 Resp: 5577

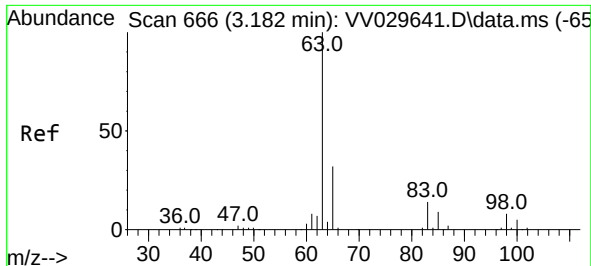
Ion Ratio Lower Upper

96 100

61 119.9 86.4 160.4

98 62.3 43.4 80.6





#19

1,1-Dichloroethane

Concen: 87.712 ug/L

RT: 3.182 min Scan# 6

Delta R.T. -0.000 min

Lab File: VV029646.D

Acq: 13 Dec 2022 13:16

Instrument :

MSVOA_V

ClientSampleId :

EXZ71

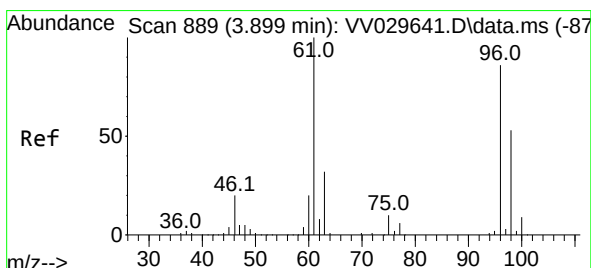
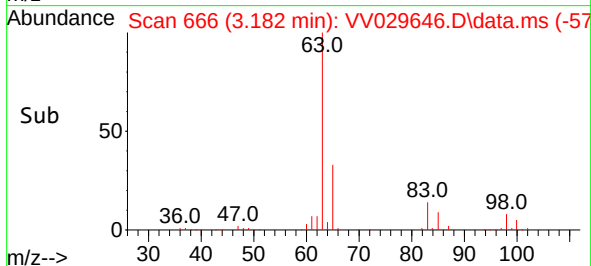
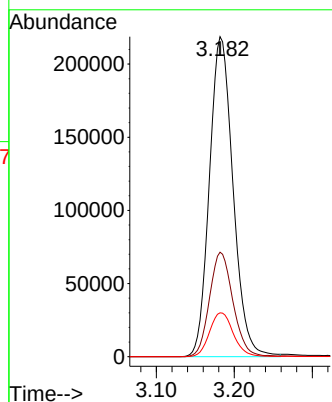
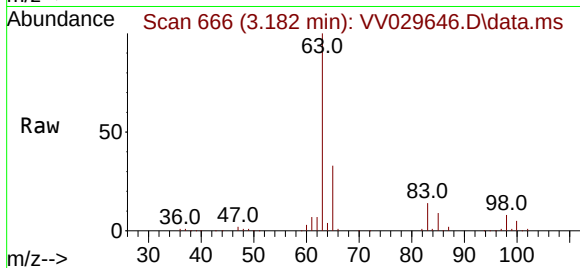
Tgt Ion: 63 Resp: 461293

Ion Ratio Lower Upper

63 100

65 32.6 22.5 41.7

83 13.7 10.4 19.2



#20

cis-1,2-Dichloroethene

Concen: 115.713 ug/L

RT: 3.902 min Scan# 890

Delta R.T. 0.003 min

Lab File: VV029646.D

Acq: 13 Dec 2022 13:16

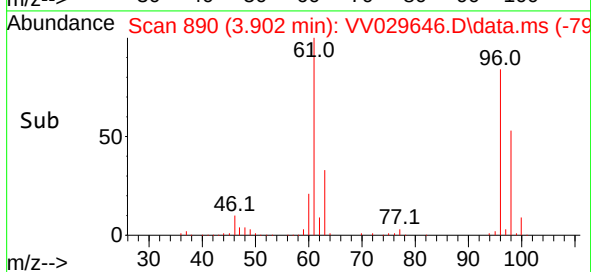
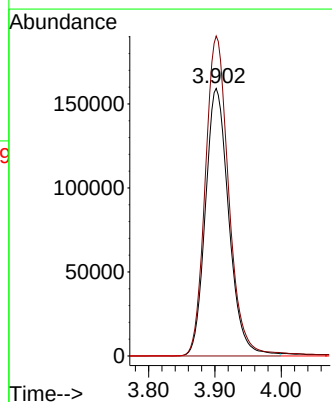
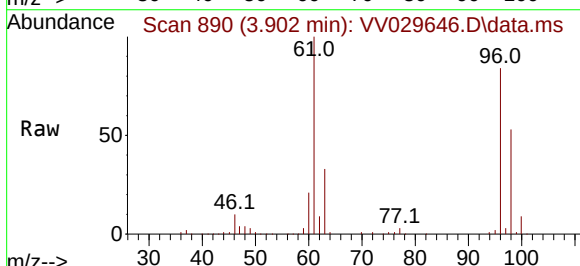
Tgt Ion: 96 Resp: 390615

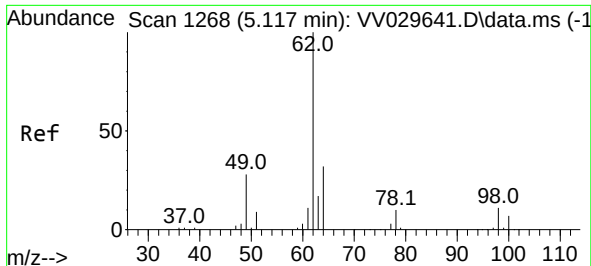
Ion Ratio Lower Upper

96 100

61 119.6 78.0 144.9

68 0.0 0.0 0.0





#27

1,2-Dichloroethane

Concen: 0.884 ug/L

RT: 5.130 min Scan# 1107

Delta R.T. 0.013 min

Lab File: VV029646.D

Acq: 13 Dec 2022 13:16

Instrument :

MSVOA_V

ClientSampleId :

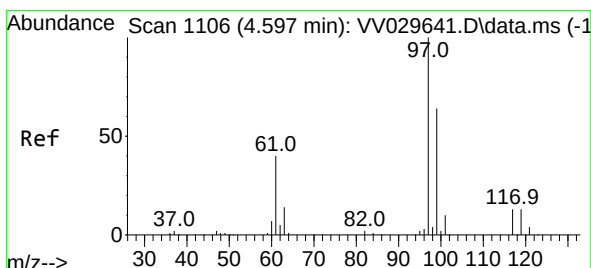
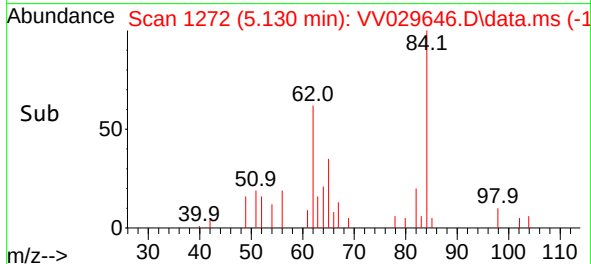
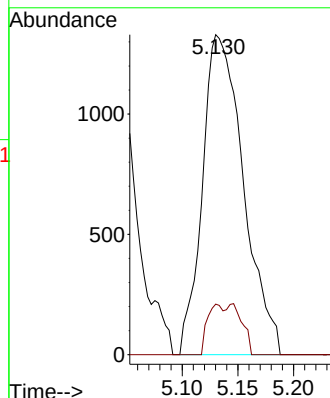
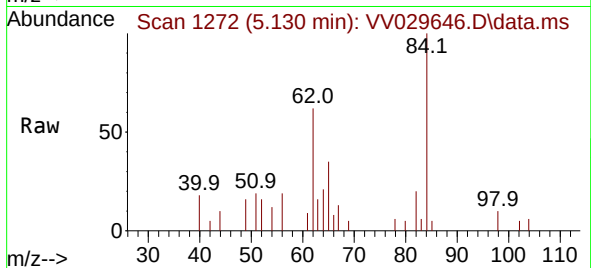
EXZ71

Tgt Ion: 62 Resp: 3406

Ion Ratio Lower Upper

62 100

98 15.8 9.4 14.0#



#30

1,1,1-Trichloroethane

Concen: 81.985 ug/L

RT: 4.600 min Scan# 1107

Delta R.T. 0.003 min

Lab File: VV029646.D

Acq: 13 Dec 2022 13:16

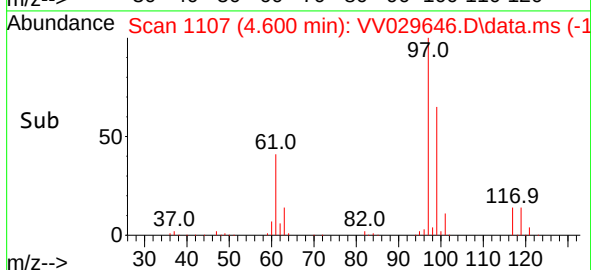
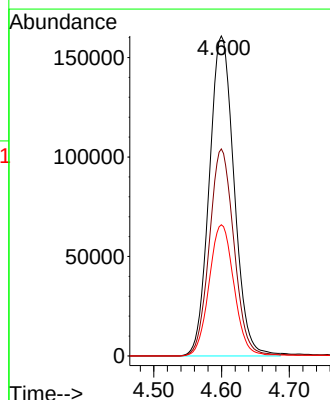
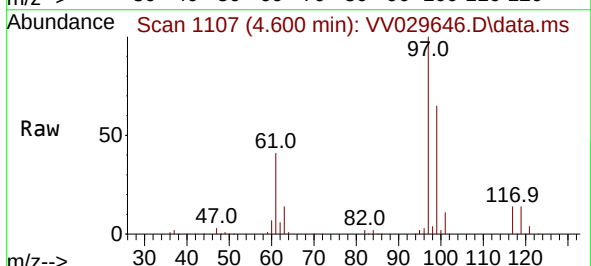
Tgt Ion: 97 Resp: 409393

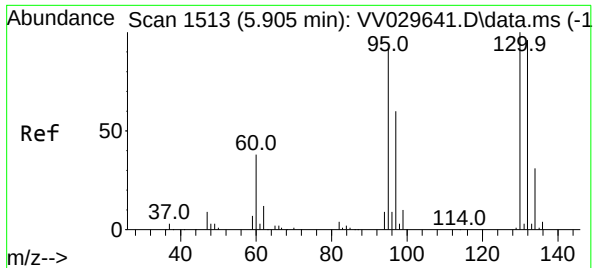
Ion Ratio Lower Upper

97 100

99 64.1 52.1 78.1

61 41.0 31.8 47.8





#34

Trichloroethene

Concen: 54.822 ug/L

RT: 5.908 min Scan# 1

Delta R.T. 0.003 min

Lab File: VV029646.D

Acq: 13 Dec 2022 13:16

Instrument :

MSVOA_V

ClientSampleId :

EXZ71

Tgt Ion: 95 Resp: 177477

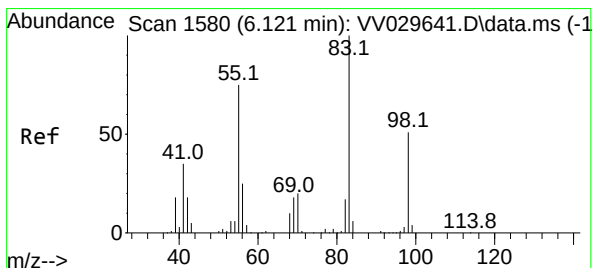
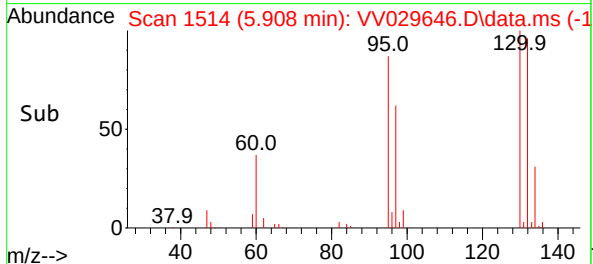
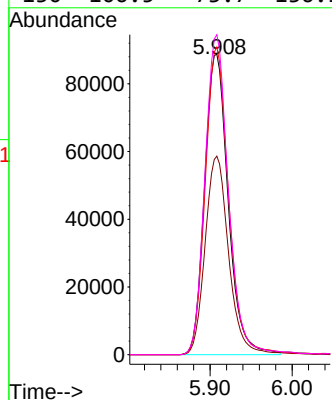
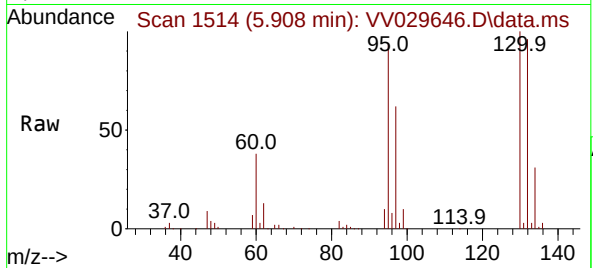
Ion Ratio Lower Upper

95 100

97 66.1 44.0 81.8

132 102.4 69.9 129.9

130 106.5 73.7 136.9



#35

Methylcyclohexane

Concen: 2.330 ug/L

RT: 6.124 min Scan# 1581

Delta R.T. 0.003 min

Lab File: VV029646.D

Acq: 13 Dec 2022 13:16

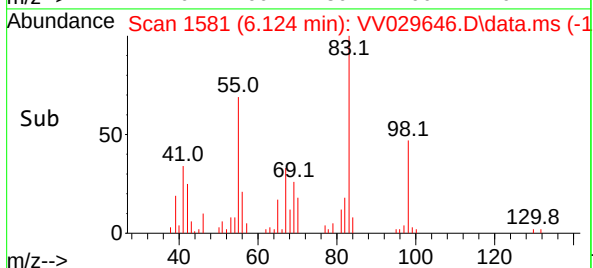
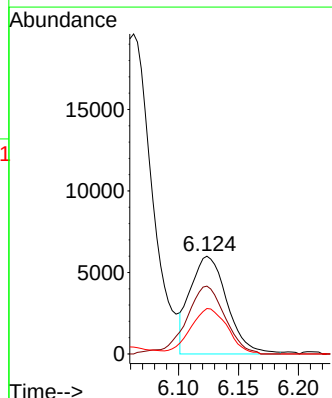
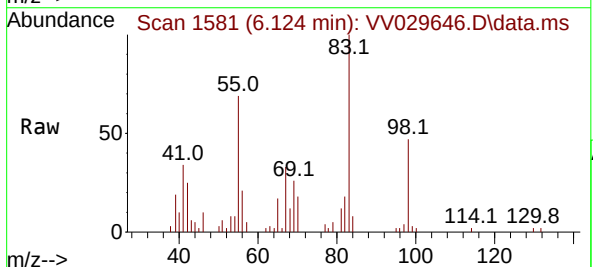
Tgt Ion: 83 Resp: 12810

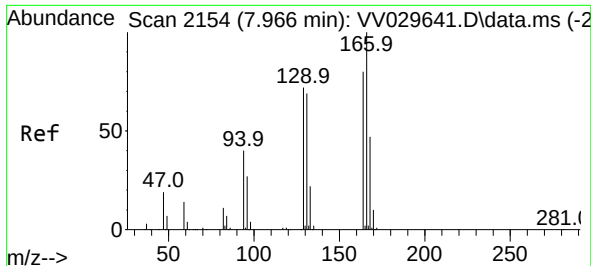
Ion Ratio Lower Upper

83 100

55 73.1 55.5 83.3

98 46.8 39.8 59.8





#46

Tetrachloroethene

Concen: 49.177 ug/L

RT: 7.966 min Scan# 2154

Delta R.T. -0.000 min

Lab File: VV029646.D

Acq: 13 Dec 2022 13:16

Instrument :

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ClientSampleId :

EXZ71

Tgt Ion:164 Resp: 127998

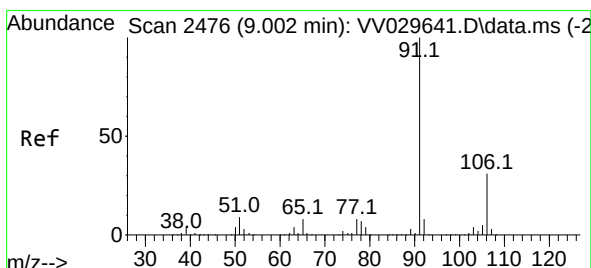
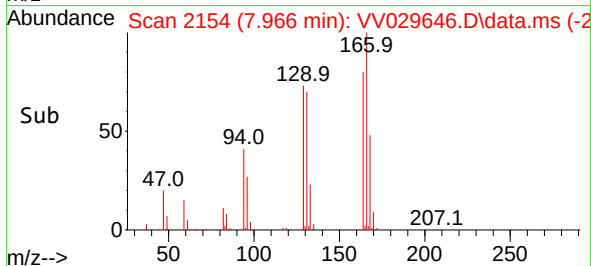
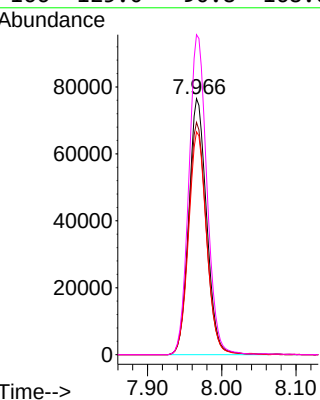
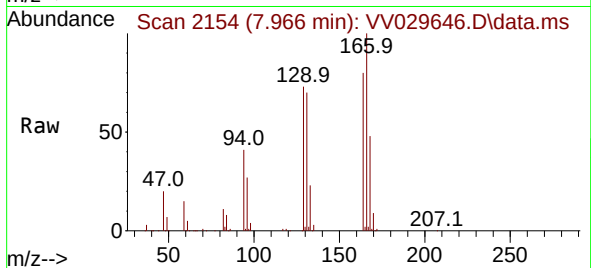
Ion Ratio Lower Upper

164 100

129 90.8 65.3 121.3

131 87.1 63.1 117.1

166 125.0 90.8 168.6



#52

Ethylbenzene

Concen: 2.416 ug/L

RT: 9.008 min Scan# 2478

Delta R.T. 0.006 min

Lab File: VV029646.D

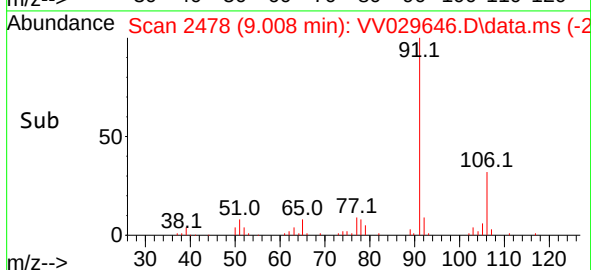
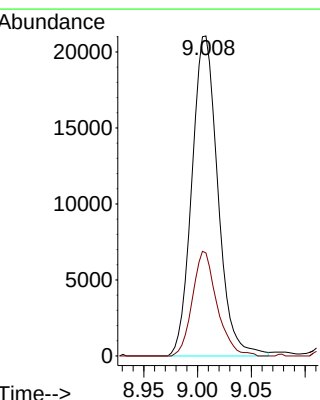
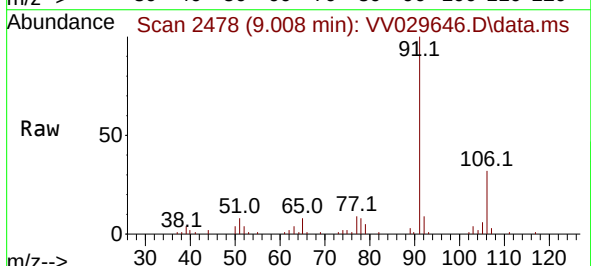
Acq: 13 Dec 2022 13:16

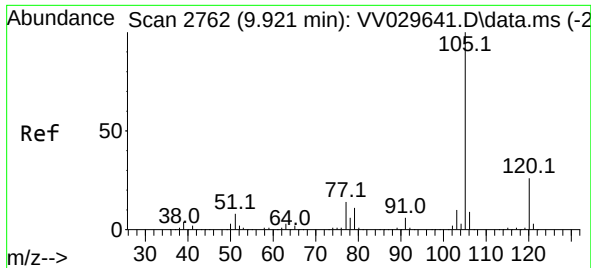
Tgt Ion: 91 Resp: 35325

Ion Ratio Lower Upper

91 100

106 32.2 21.8 40.6

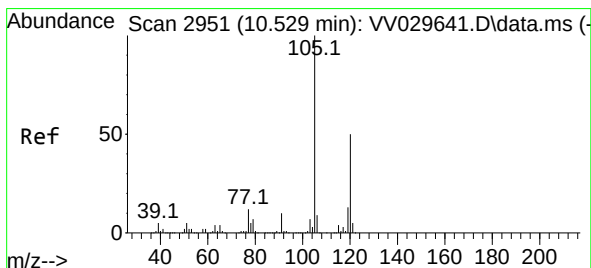
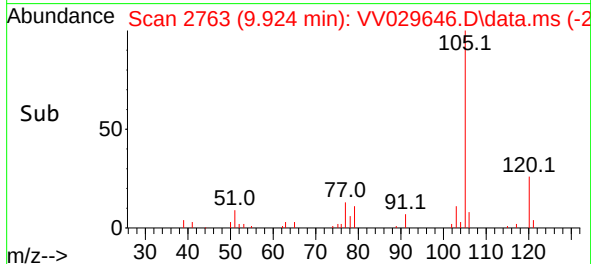
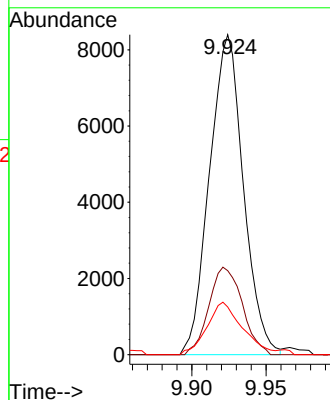
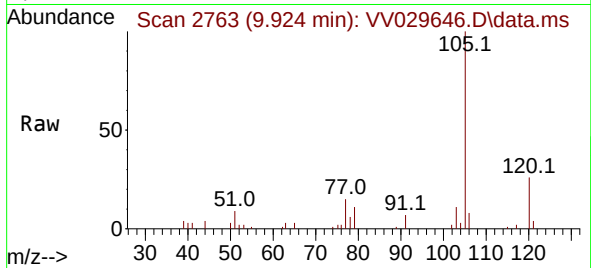




#60
Isopropylbenzene
Concen: 0.873 ug/L
RT: 9.924 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV029646.D
Acq: 13 Dec 2022 13:16

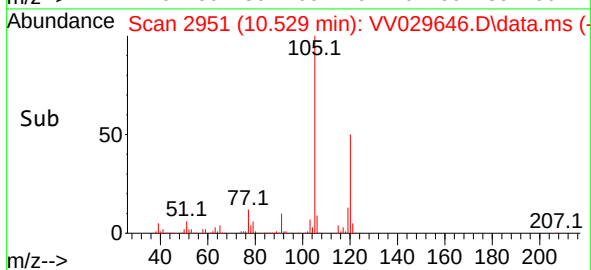
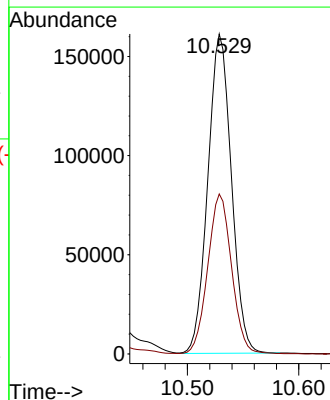
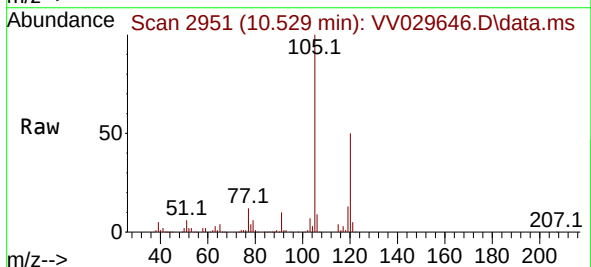
Instrument :
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ClientSampleId :
EXZ71

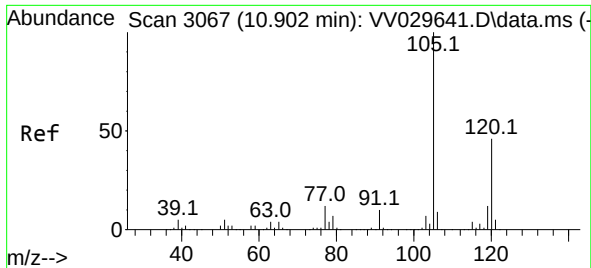
Tgt Ion:105 Resp: 13316
Ion Ratio Lower Upper
105 100
120 27.0 21.1 31.7
77 17.2 11.6 17.4



#62
1,3,5-Trimethylbenzene
Concen: 17.569 ug/L
RT: 10.529 min Scan# 2951
Delta R.T. -0.000 min
Lab File: VV029646.D
Acq: 13 Dec 2022 13:16

Tgt Ion:105 Resp: 236850
Ion Ratio Lower Upper
105 100
120 50.4 40.0 60.0





#63
 1,2,4-Trimethylbenzene
 Concen: 42.133 ug/L
 RT: 10.905 min Scan# 3068
 Delta R.T. 0.003 min
 Lab File: VV029646.D
 Acq: 13 Dec 2022 13:16

Instrument :
 MSVOA_V
 ClientSampleId :
 EXZ71

Tgt Ion:105 Resp: 563028
 Ion Ratio Lower Upper
 105 100
 120 45.9 36.7 55.1

