

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW121322\
 Data File : VW029652.D
 Acq On : 13 Dec 2022 15:37
 Operator : SY/MD
 Sample : N5928-17
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 EXZ78

Quant Time: Dec 13 22:52:48 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	511361	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.844	117	477209	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.239	152	265050	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	133847	42.744	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	85.480%
7) Chloroethane-d5	1.565	69	108804	45.567	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	91.140%
11) 1,1-Dichloroethene-d2	2.105	63	180472	36.951	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	73.900%
21) 2-Butanone-d5	3.867	46	158178	82.806	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	82.810%
24) Chloroform-d	4.339	84	237629	40.326	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	80.660%
26) 1,2-Dichloroethane-d4	5.024	65	142436	42.323	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	84.640%
32) Benzene-d6	5.043	84	517019	41.002	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	82.000%
36) 1,2-Dichloropropane-d6	6.063	67	160338	41.629	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	83.260%
41) Toluene-d8	7.307	98	466174	39.237	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	78.480%#
43) trans-1,3-Dichloroprop...	7.612	79	68337	35.136	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	70.280%
47) 2-Hexanone-d5	8.082	63	135733	82.526	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	82.530%
56) 1,1,2,2-Tetrachloroeth...	10.204	84	224431	40.776	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	81.560%
66) 1,2-Dichlorobenzene-d4	11.612	152	200200	39.679	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	79.360%#
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.310	62	246175	64.070	ug/L	99
8) Chloroethane	1.581	64	843870	394.422	ug/L	98
10) 1,1,2-Trichloro-1,2,2-...	2.105	101	1917	0.717	ug/L #	18
12) 1,1-Dichloroethene	2.114	96	16234	5.939	ug/L #	1
17) trans-1,2-Dichloroethene	2.757	96	21543	6.840	ug/L	96
19) 1,1-Dichloroethane	3.182	63	2111914	391.426	ug/L	99
20) cis-1,2-Dichloroethene	3.902	96	1058045	305.512	ug/L	94
27) 1,2-Dichloroethane	5.137	62	6895	1.745	ug/L	99
30) 1,1,1-Trichloroethane	4.600	97	795754	153.054	ug/L	98
34) Trichloroethene	5.912	95	16018	4.752	ug/L	94
42) Toluene	7.381	91	330920	22.857	ug/L	100
46) Tetrachloroethene	7.969	164	37905	13.987	ug/L	97
49) Dibromochloromethane	7.969	129	33985	9.177	ug/L #	10
52) Ethylbenzene	9.005	91	101060	6.639	ug/L	98
53) m,p-Xylene	9.127	106	87945	14.598	ug/L	100
54) o-Xylene	9.535	106	54757	9.189	ug/L	97
60) Isopropylbenzene	9.921	105	16303	1.048	ug/L	97
62) 1,3,5-Trimethylbenzene	10.529	105	43445	3.158	ug/L	98
63) 1,2,4-Trimethylbenzene	10.902	105	239999	17.597	ug/L	98

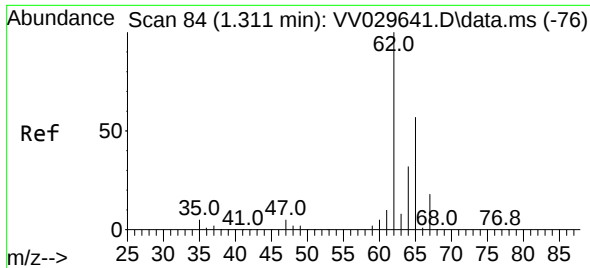
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV121322\
Data File : VV029652.D
Acq On : 13 Dec 2022 15:37
Operator : SY/MD
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Quant Time: Dec 13 22:52:48 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM120722WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Dec 13 22:49:59 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) 1,2-Dichlorobenzene	11.632	146	11860	1.524	ug/L	97
71) Naphthalene	13.493	128	20617	1.688	ug/L	98

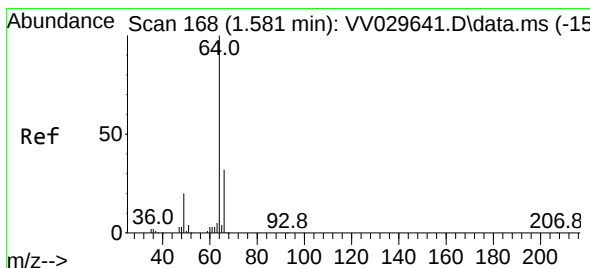
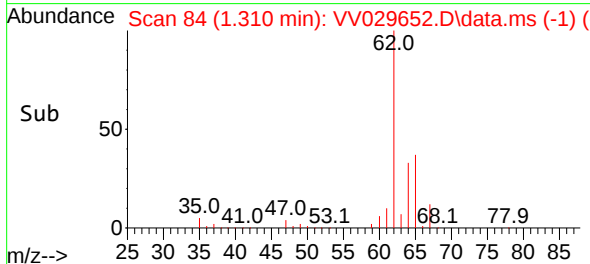
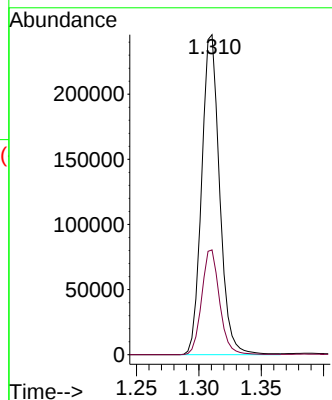
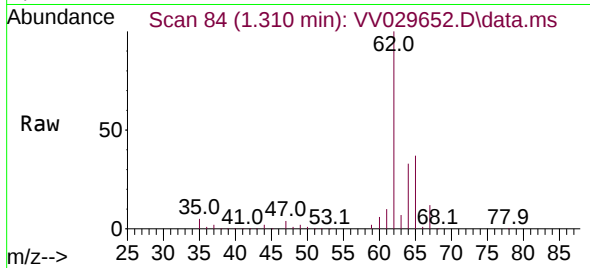
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#5
 Vinyl chloride
 Concen: 64.070 ug/L
 RT: 1.310 min Scan# 84
 Delta R.T. -0.000 min
 Lab File: VV029652.D
 Acq: 13 Dec 2022 15:37

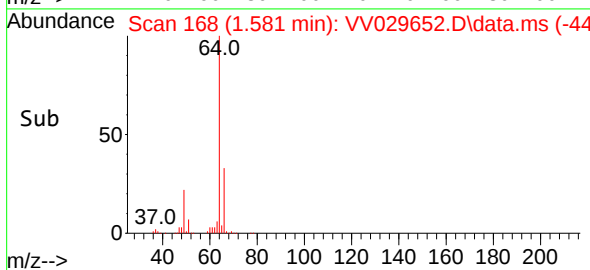
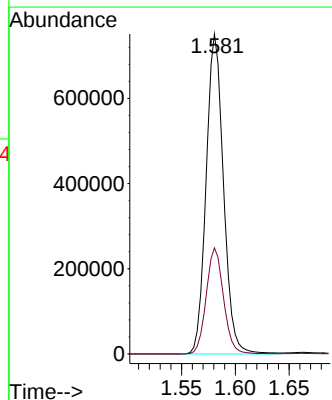
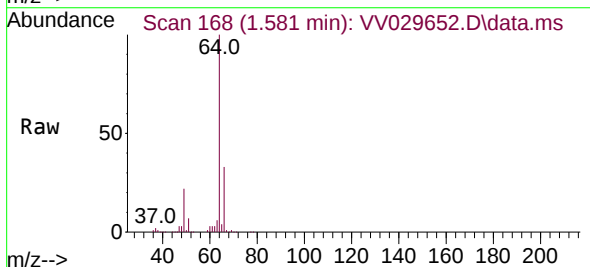
Instrument :
 MSVOA_V
 ClientSampleId :
 EXZ78

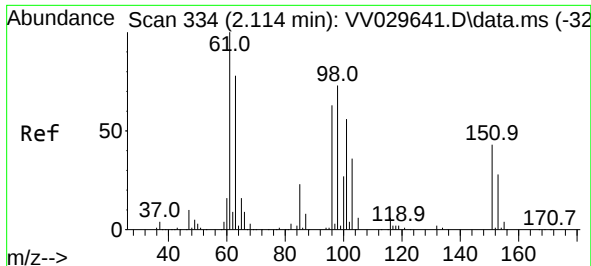
Tgt Ion: 62 Resp: 246175
 Ion Ratio Lower Upper
 62 100
 64 32.8 22.5 41.9



#8
 Chloroethane
 Concen: 394.422 ug/L
 RT: 1.581 min Scan# 168
 Delta R.T. -0.000 min
 Lab File: VV029652.D
 Acq: 13 Dec 2022 15:37

Tgt Ion: 64 Resp: 843870
 Ion Ratio Lower Upper
 64 100
 66 33.2 22.5 41.9





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.717 ug/L

RT: 2.105 min Scan# 31

Delta R.T. -0.010 min

Lab File: VV029652.D

Acq: 13 Dec 2022 15:37

Instrument :

MSVOA_V

ClientSampleId :

EXZ78

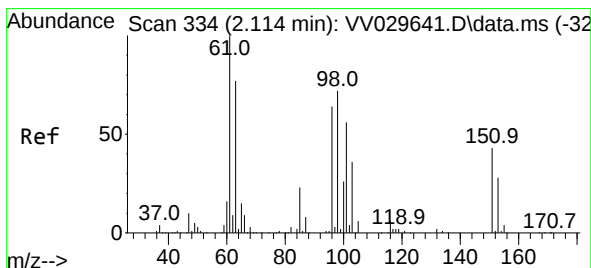
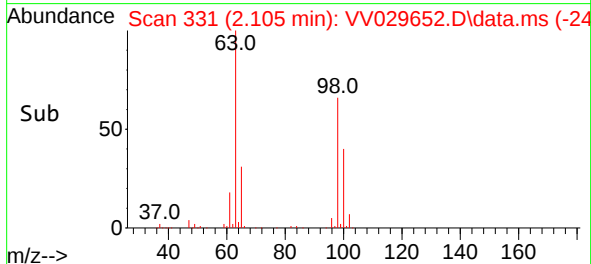
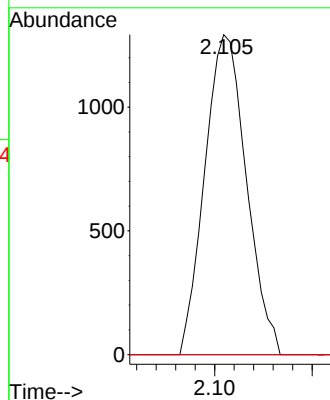
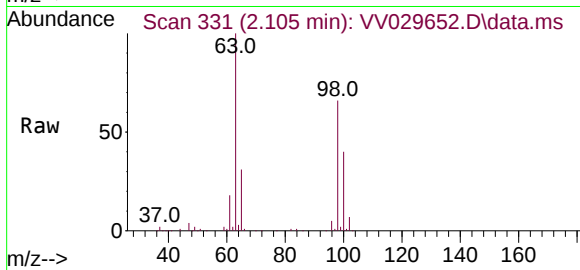
Tgt Ion:101 Resp: 1917

Ion Ratio Lower Upper

101 100

85 0.0 33.6 50.4#

151 0.0 63.5 95.3#



#12

1,1-Dichloroethene

Concen: 5.939 ug/L

RT: 2.114 min Scan# 334

Delta R.T. -0.000 min

Lab File: VV029652.D

Acq: 13 Dec 2022 15:37

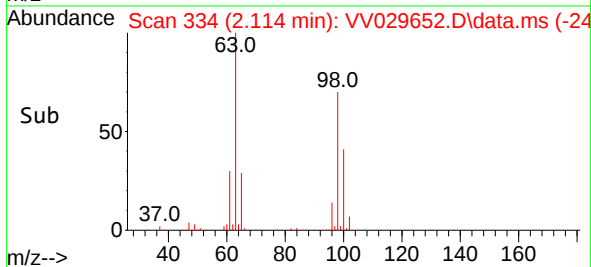
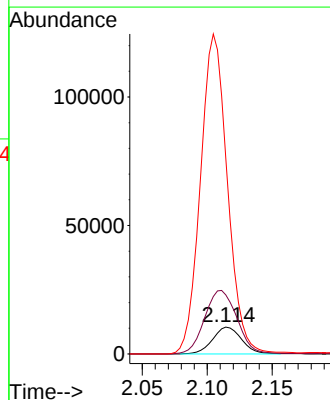
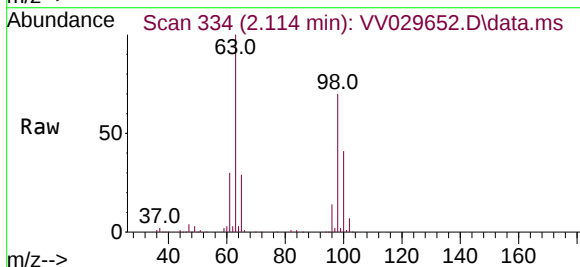
Tgt Ion: 96 Resp: 16234

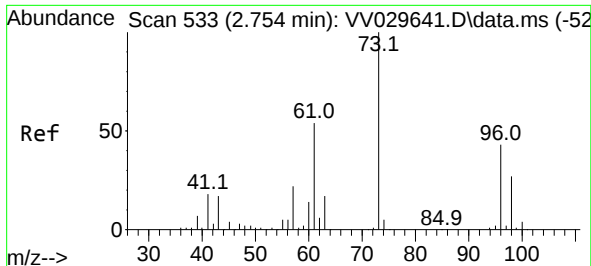
Ion Ratio Lower Upper

96 100

61 219.4 103.3 191.9#

63 727.3 77.3 143.7#





#17

trans-1,2-Dichloroethene

Concen: 6.840 ug/L

RT: 2.757 min Scan# 51

Delta R.T. 0.003 min

Lab File: VV029652.D

Acq: 13 Dec 2022 15:37

Instrument :

MSVOA_V

ClientSampleId :

EXZ78

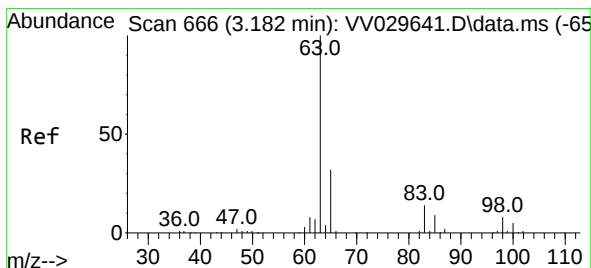
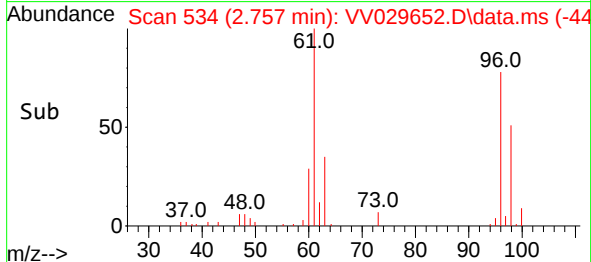
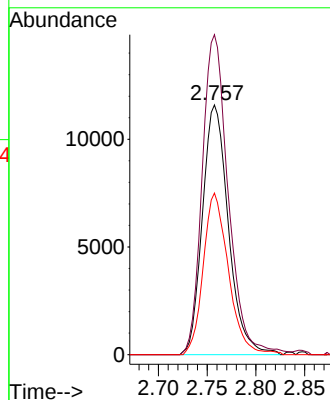
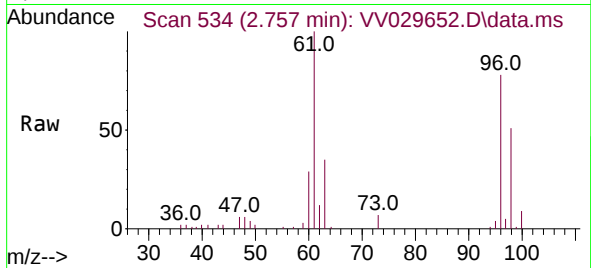
Tgt Ion: 96 Resp: 21543

Ion Ratio Lower Upper

96 100

61 128.1 86.4 160.4

98 64.7 43.4 80.6



#19

1,1-Dichloroethane

Concen: 391.426 ug/L

RT: 3.182 min Scan# 666

Delta R.T. -0.000 min

Lab File: VV029652.D

Acq: 13 Dec 2022 15:37

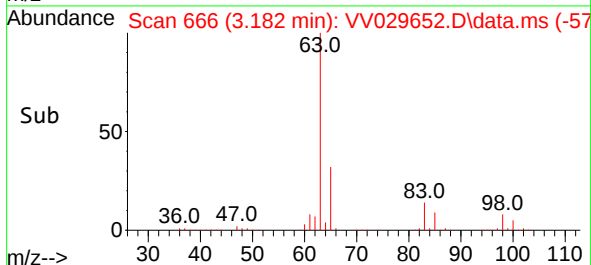
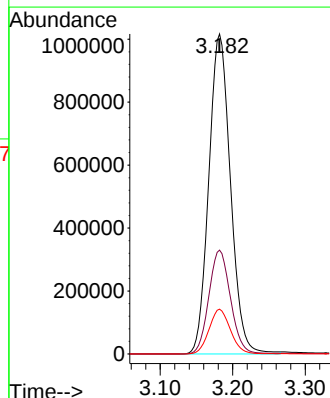
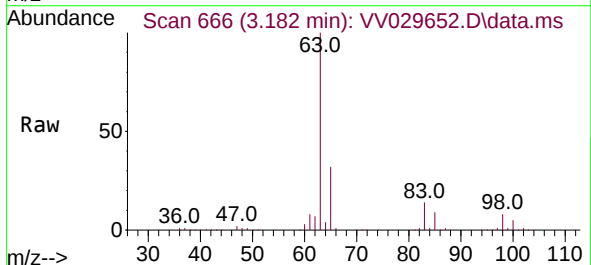
Tgt Ion: 63 Resp: 2111914

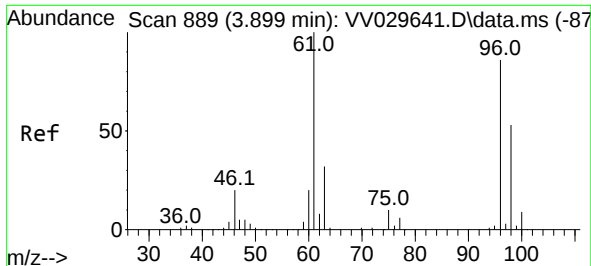
Ion Ratio Lower Upper

63 100

65 32.5 22.5 41.7

83 14.0 10.4 19.2



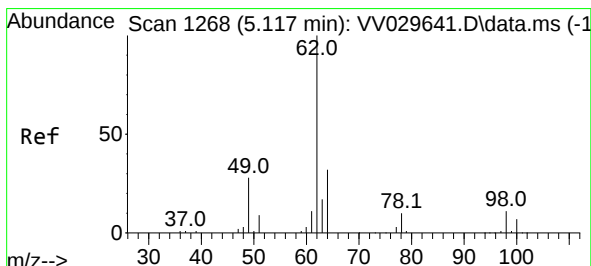
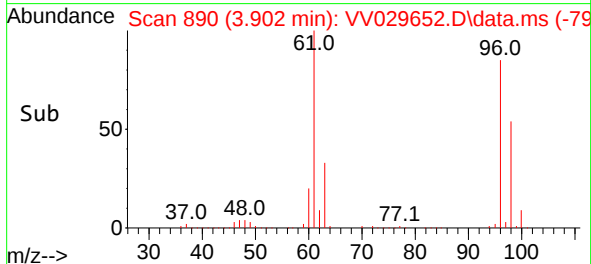
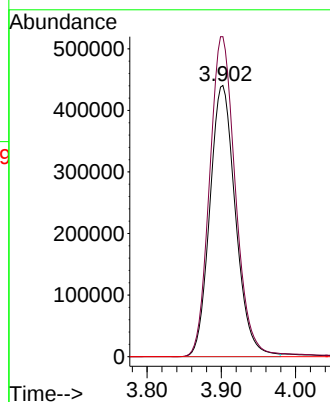
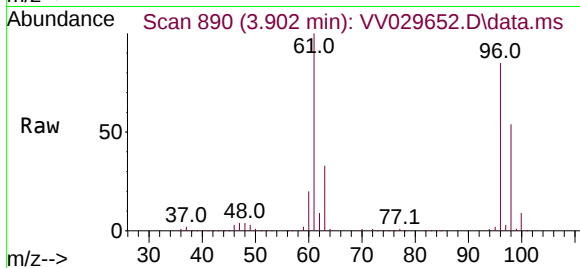


#20
 cis-1,2-Dichloroethene
 Concen: 305.512 ug/L
 RT: 3.902 min Scan# 890
 Delta R.T. 0.003 min
 Lab File: VV029652.D
 Acq: 13 Dec 2022 15:37

Instrument :
 MSVOA_V
 ClientSampleId :
 EXZ78

Tgt Ion: 96 Resp: 1058045

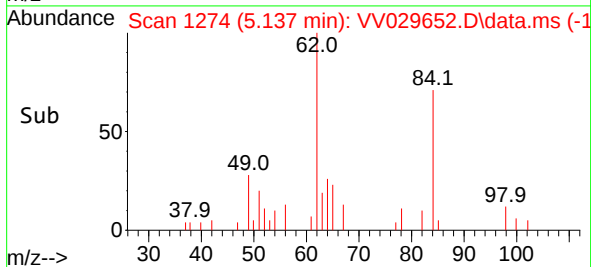
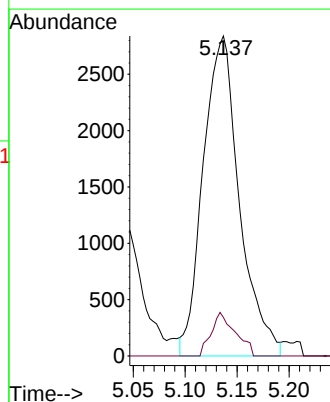
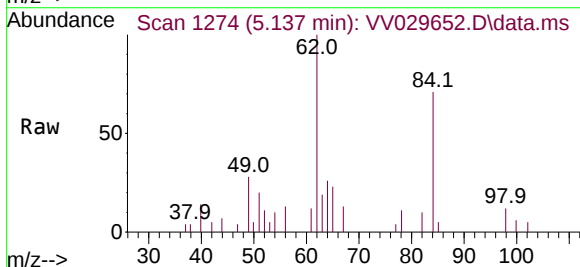
Ion	Ratio	Lower	Upper
96	100		
61	118.0	78.0	144.9
68	0.0	0.0	0.0

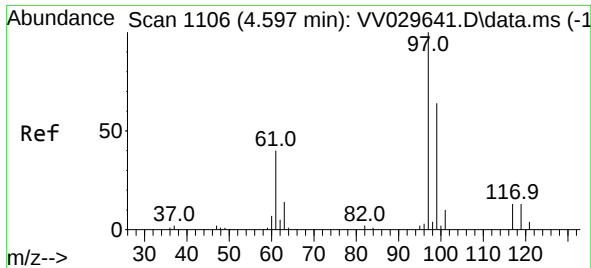


#27
 1,2-Dichloroethane
 Concen: 1.745 ug/L
 RT: 5.137 min Scan# 1274
 Delta R.T. 0.019 min
 Lab File: VV029652.D
 Acq: 13 Dec 2022 15:37

Tgt Ion: 62 Resp: 6895

Ion	Ratio	Lower	Upper
62	100		
98	12.0	9.4	14.0





#30

1,1,1-Trichloroethane

Concen: 153.054 ug/L

RT: 4.600 min Scan# 1106

Delta R.T. 0.003 min

Lab File: VV029652.D

Acq: 13 Dec 2022 15:37

Instrument :

MSVOA_V

ClientSampleId :

EXZ78

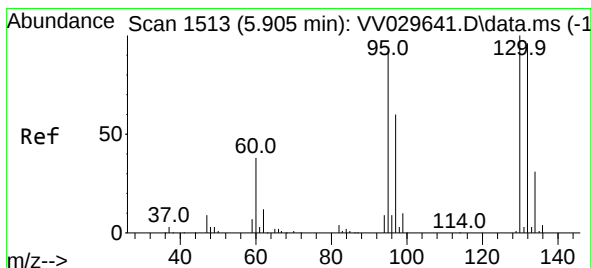
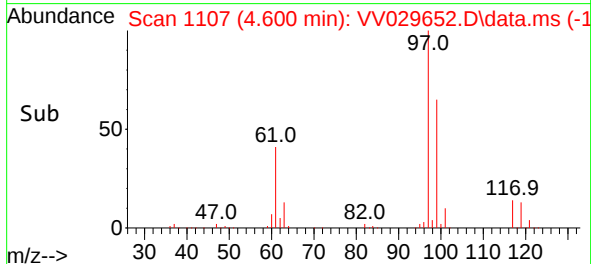
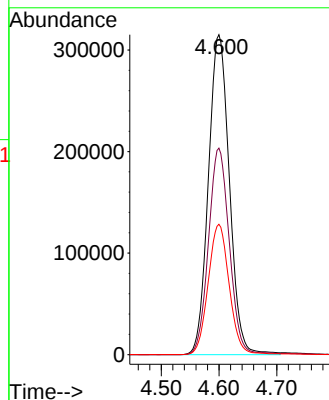
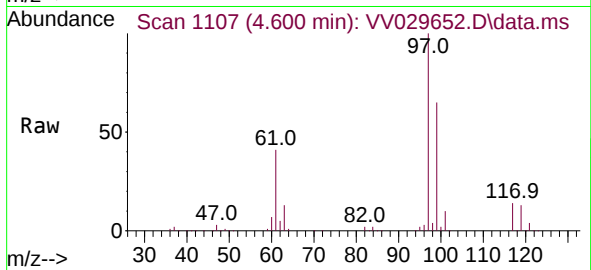
Tgt Ion: 97 Resp: 795754

Ion Ratio Lower Upper

97 100

99 63.7 52.1 78.1

61 40.7 31.8 47.8



#34

Trichloroethene

Concen: 4.752 ug/L

RT: 5.912 min Scan# 1515

Delta R.T. 0.006 min

Lab File: VV029652.D

Acq: 13 Dec 2022 15:37

Tgt Ion: 95 Resp: 16018

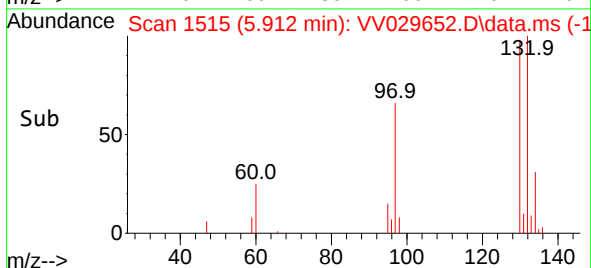
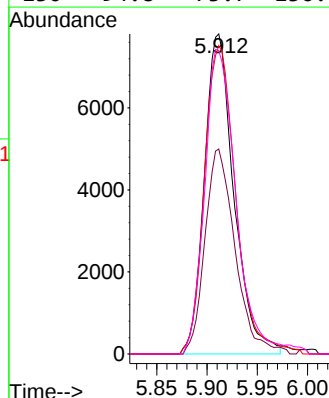
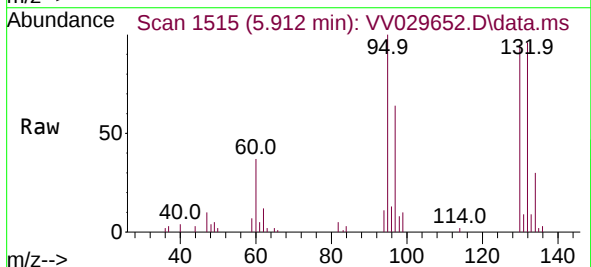
Ion Ratio Lower Upper

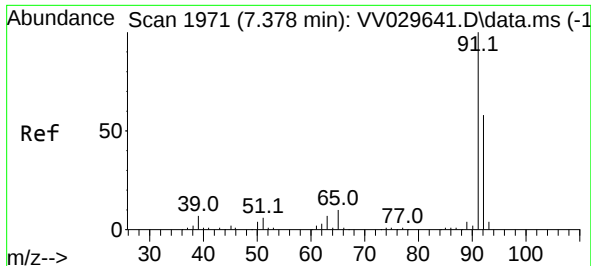
95 100

97 64.1 44.0 81.8

132 96.4 69.9 129.9

130 94.8 73.7 136.9





#42

Toluene

Concen: 22.857 ug/L

RT: 7.381 min Scan# 1971

Delta R.T. 0.003 min

Lab File: VV029652.D

Acq: 13 Dec 2022 15:37

Instrument :

MSVOA_V

ClientSampleId :

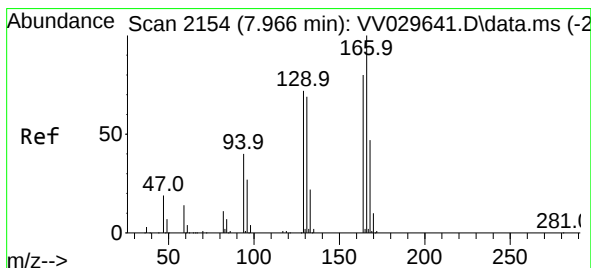
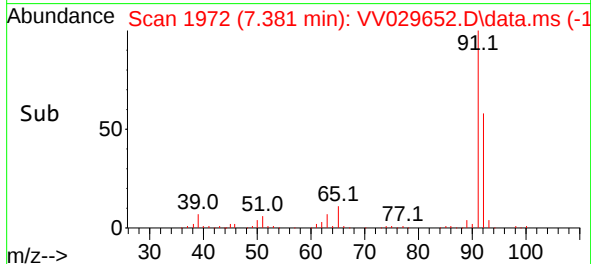
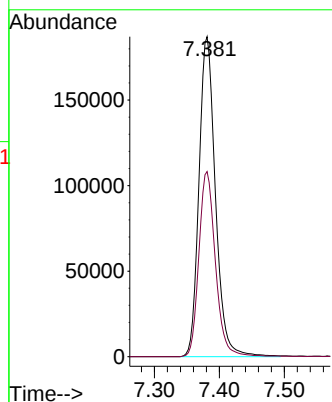
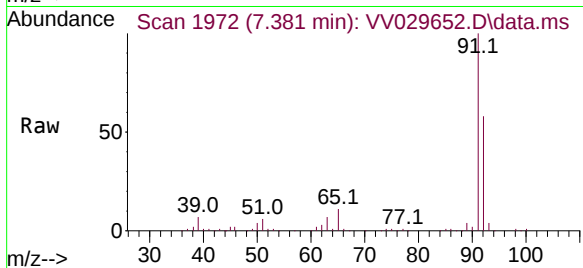
EXZ78

Tgt Ion: 91 Resp: 330920

Ion Ratio Lower Upper

91 100

92 57.9 40.6 75.4



#46

Tetrachloroethene

Concen: 13.987 ug/L

RT: 7.969 min Scan# 2155

Delta R.T. 0.003 min

Lab File: VV029652.D

Acq: 13 Dec 2022 15:37

Tgt Ion: 164 Resp: 37905

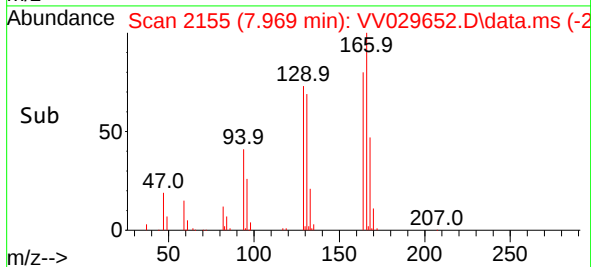
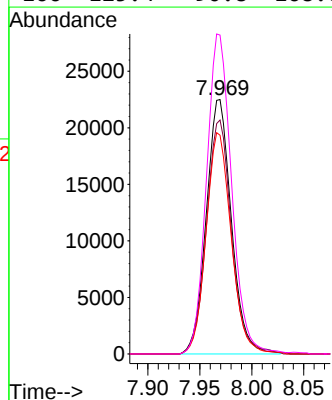
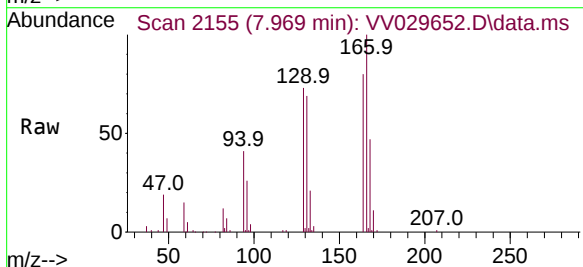
Ion Ratio Lower Upper

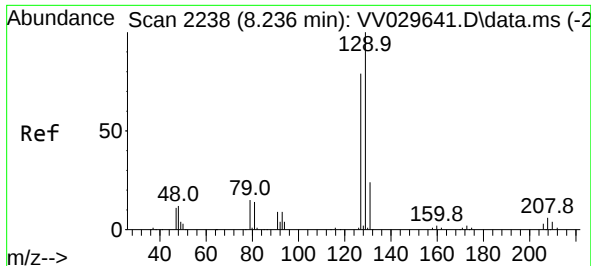
164 100

129 92.0 65.3 121.3

131 86.0 63.1 117.1

166 125.4 90.8 168.6





#49

Dibromochloromethane

Concen: 9.177 ug/L

RT: 7.969 min Scan# 2155

Delta R.T. -0.267 min

Lab File: VV029652.D

Acq: 13 Dec 2022 15:37

Instrument :

MSVOA_V

ClientSampleId :

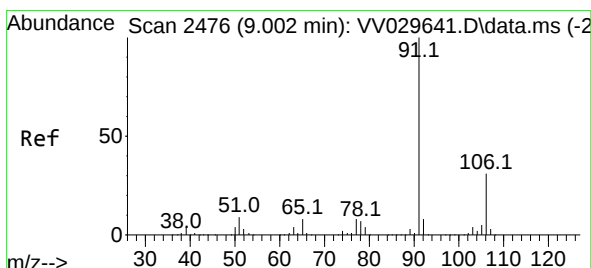
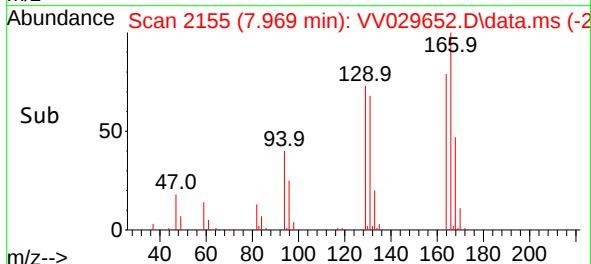
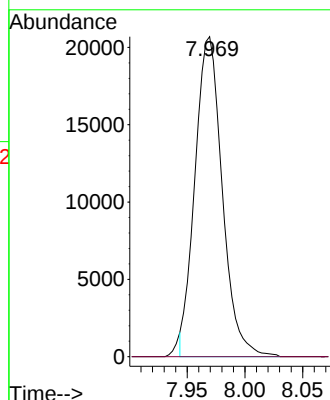
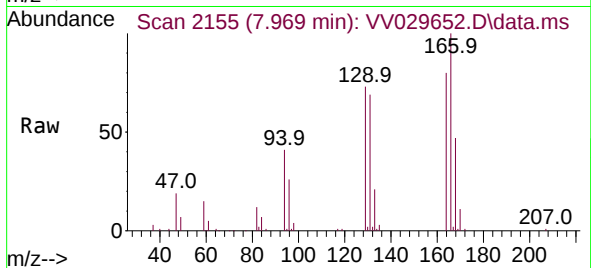
EXZ78

Tgt Ion:129 Resp: 33985

Ion Ratio Lower Upper

129 100

127 0.0 55.2 102.4#



#52

Ethylbenzene

Concen: 6.639 ug/L

RT: 9.005 min Scan# 2477

Delta R.T. 0.003 min

Lab File: VV029652.D

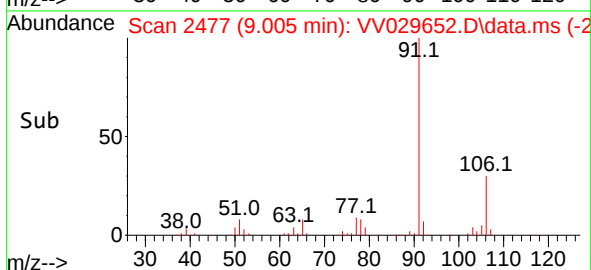
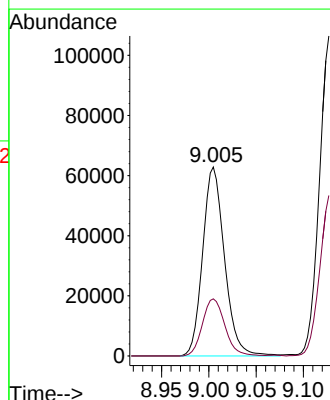
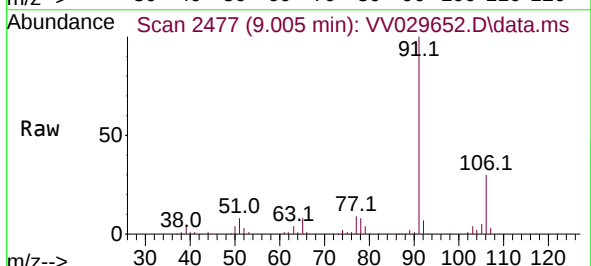
Acq: 13 Dec 2022 15:37

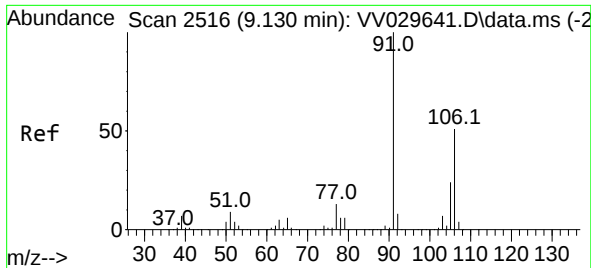
Tgt Ion: 91 Resp: 101060

Ion Ratio Lower Upper

91 100

106 30.2 21.8 40.6

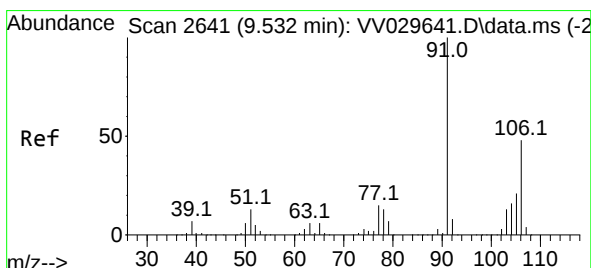
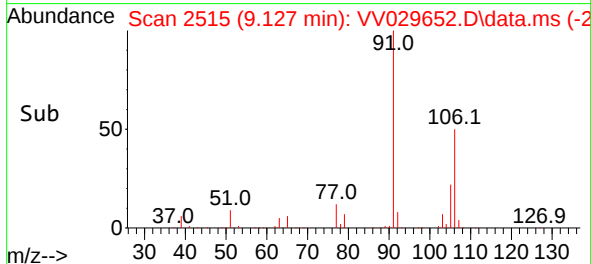
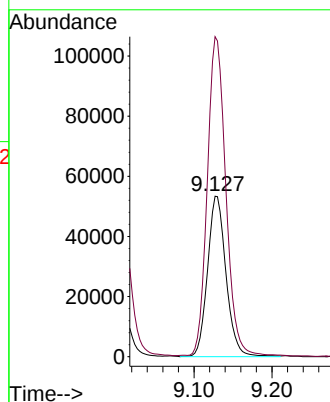
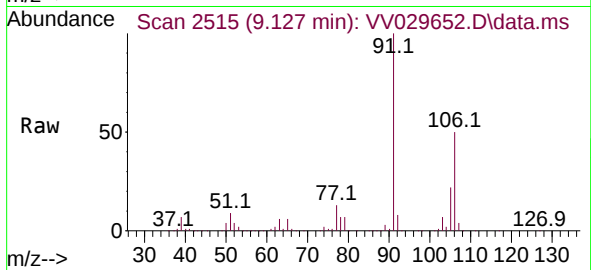




#53
m,p-Xylene
Concen: 14.598 ug/L
RT: 9.127 min Scan# 2516
Delta R.T. -0.003 min
Lab File: VV029652.D
Acq: 13 Dec 2022 15:37

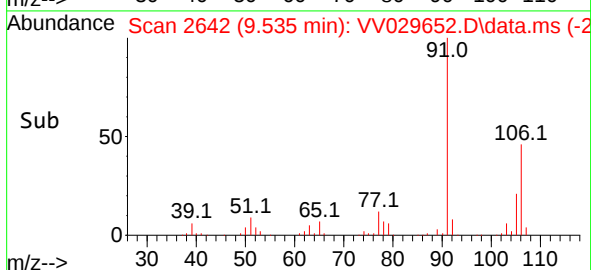
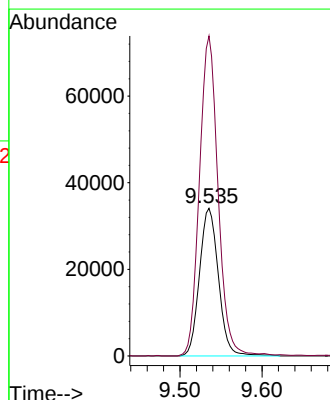
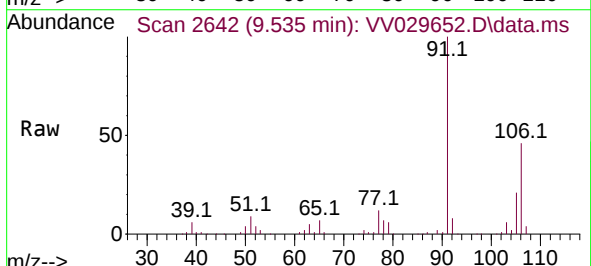
Instrument :
MSVOA_V
ClientSampleId :
EXZ78

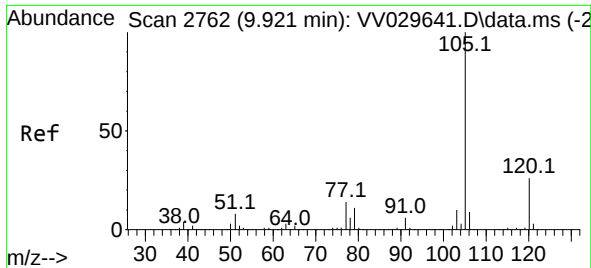
Tgt Ion:106 Resp: 87945
Ion Ratio Lower Upper
106 100
91 199.3 139.5 259.1



#54
o-Xylene
Concen: 9.189 ug/L
RT: 9.535 min Scan# 2642
Delta R.T. 0.003 min
Lab File: VV029652.D
Acq: 13 Dec 2022 15:37

Tgt Ion:106 Resp: 54757
Ion Ratio Lower Upper
106 100
91 216.8 148.0 274.8

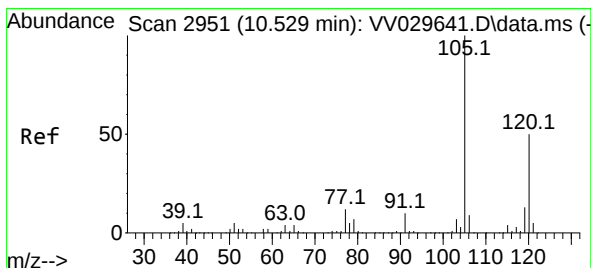
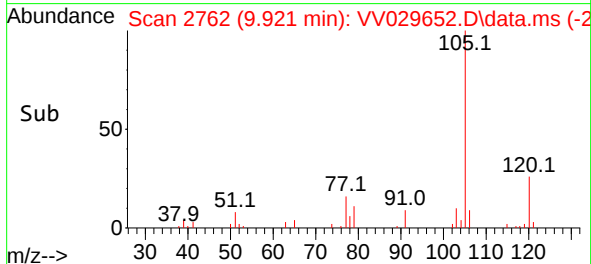
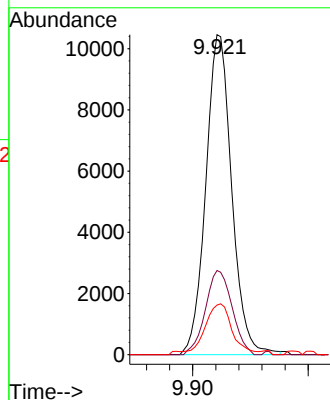
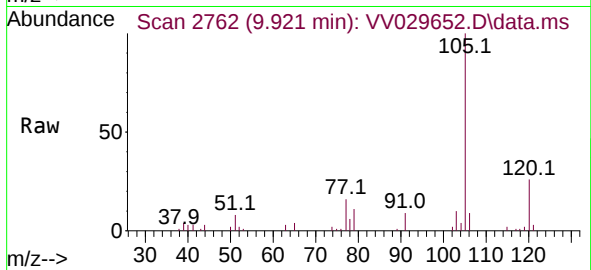




#60
Isopropylbenzene
Concen: 1.048 ug/L
RT: 9.921 min Scan# 21
Delta R.T. -0.000 min
Lab File: VV029652.D
Acq: 13 Dec 2022 15:37

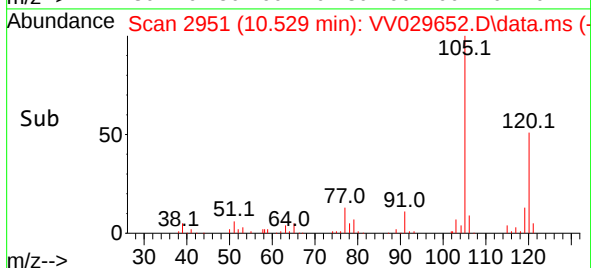
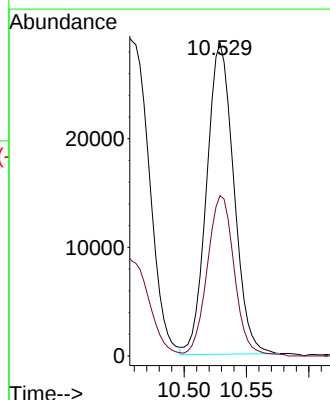
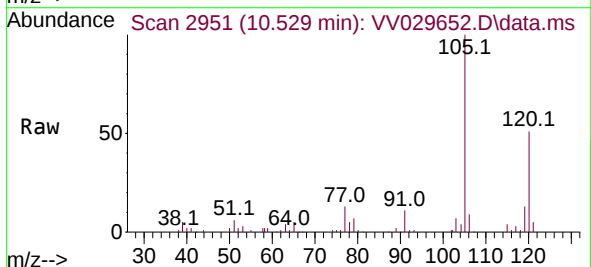
Instrument :
MSVOA_V
ClientSampleId :
EXZ78

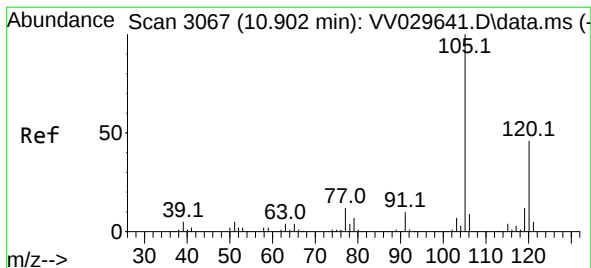
Tgt Ion:105 Resp: 16303
Ion Ratio Lower Upper
105 100
120 27.0 21.1 31.7
77 16.5 11.6 17.4



#62
1,3,5-Trimethylbenzene
Concen: 3.158 ug/L
RT: 10.529 min Scan# 2951
Delta R.T. -0.000 min
Lab File: VV029652.D
Acq: 13 Dec 2022 15:37

Tgt Ion:105 Resp: 43445
Ion Ratio Lower Upper
105 100
120 51.4 40.0 60.0





#63

1,2,4-Trimethylbenzene

Concen: 17.597 ug/L

RT: 10.902 min Scan# 3067

Delta R.T. -0.000 min

Lab File: VV029652.D

Acq: 13 Dec 2022 15:37

Instrument :

MSVOA_V

ClientSampleId :

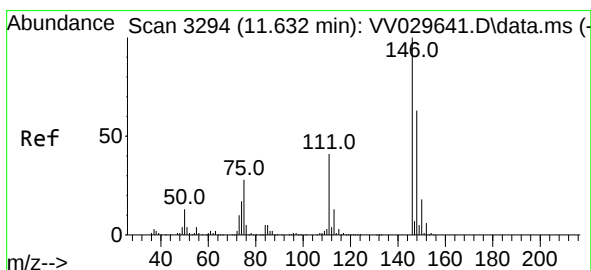
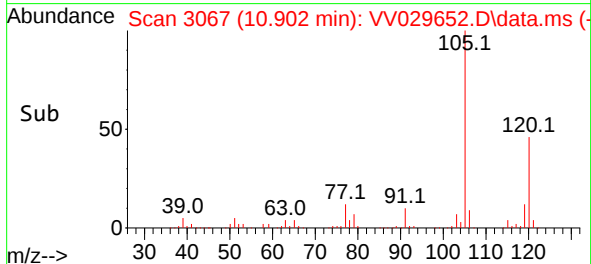
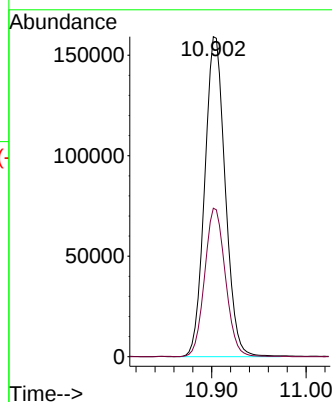
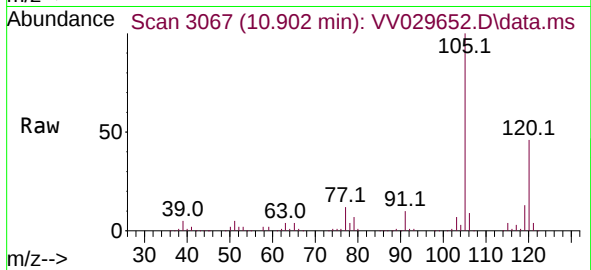
EXZ78

Tgt Ion:105 Resp: 239999

Ion Ratio Lower Upper

105 100

120 46.9 36.7 55.1



#67

1,2-Dichlorobenzene

Concen: 1.524 ug/L

RT: 11.632 min Scan# 3294

Delta R.T. -0.000 min

Lab File: VV029652.D

Acq: 13 Dec 2022 15:37

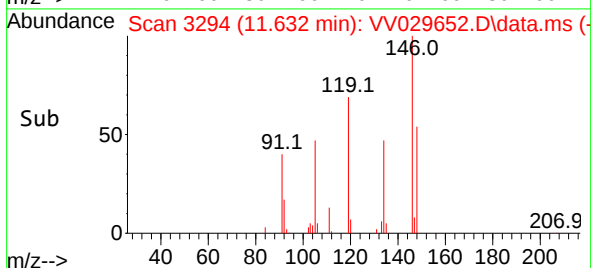
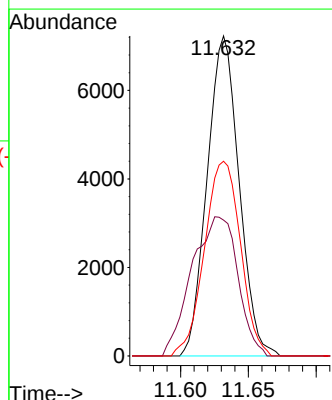
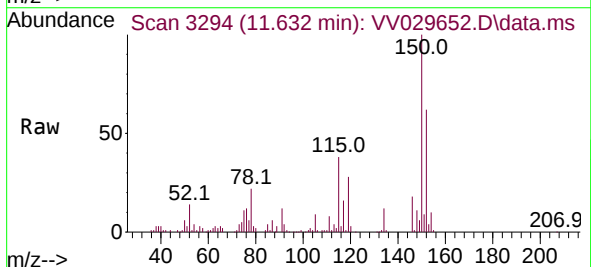
Tgt Ion:146 Resp: 11860

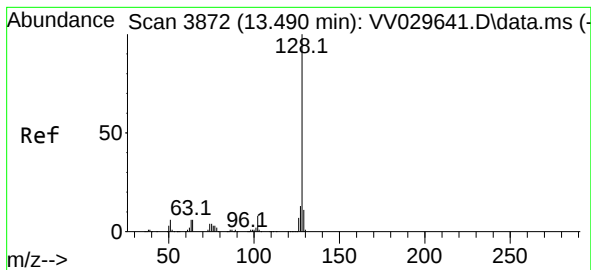
Ion Ratio Lower Upper

146 100

111 42.4 32.0 48.0

148 60.8 50.6 76.0





#71

Naphthalene

Concen: 1.688 ug/L

RT: 13.493 min Scan# 3873

Delta R.T. 0.003 min

Lab File: VV029652.D

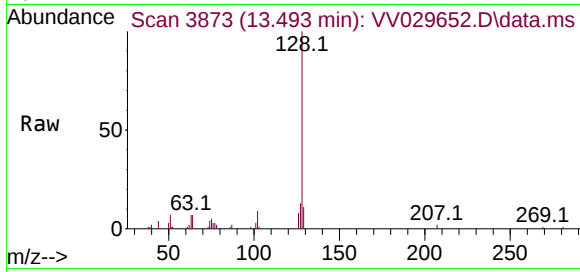
Acq: 13 Dec 2022 15:37

Instrument :

MSVOA_V

ClientSampleId :

EXZ78



Tgt Ion:128 Resp: 20617

Ion Ratio Lower Upper

128 100

127 12.2 10.2 15.4

129 11.3 8.5 12.7

