

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW121423\
 Data File : VW033368.D
 Acq On : 15 Dec 2023 04:20
 Operator : SY/MD
 Sample : 05802-18
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Dec 15 06:14:36 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM120123WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Dec 08 21:51:12 2023
 Response via : Initial Calibration

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

Internal Standards							
1) 1,4-Difluorobenzene		5.535	114	173788	50.000	ug/L	0.00
28) Chlorobenzene-d5		8.786	117	177857	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4		11.184	152	121074	50.000	ug/L	# 0.00
System Monitoring Compounds							
4) Vinyl Chloride-d3		1.281	65	58370	56.184	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	112.360%	
7) Chloroethane-d5		1.532	69	28207	38.967	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	77.940%	
11) 1,1-Dichloroethene-d2		2.059	65	15972	40.413	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	80.820%	
21) 2-Butanone-d5		3.815	46	59909	116.102	ug/L	0.04
Spiked Amount	100.000	Range	40 - 130	Recovery	=	116.100%	
24) Chloroform-d		4.249	84	109695	49.754	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.500%	
26) 1,2-Dichloroethane-d4		4.940	65	76041	55.474	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	110.940%	
32) Benzene-d6		4.960	84	200709	48.251	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.500%	
36) 1,2-Dichloropropane-d6		5.989	67	43486	38.881	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	77.760%	
41) Toluene-d8		7.243	98	195608	49.295	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.600%	
43) trans-1,3-Dichloroprop...		7.551	79	32453	45.887	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	91.780%	
47) 2-Hexanone-d5		8.024	63	40811	90.829	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	90.830%	
56) 1,1,2,2-Tetrachloroeth...		10.152	84	78162	49.161	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	98.320%	
66) 1,2-Dichlorobenzene-d4		11.242	152	71	0.033	ug/L	-0.32
Spiked Amount	50.000	Range	80 - 120	Recovery	=	0.060%#	
Target Compounds							
						Qvalue	
5) Vinyl chloride		1.281	62	2522604	2099.406	ug/L	98
8) Chloroethane		1.548	64	616	0.963	ug/L	# 43
12) 1,1-Dichloroethene		2.069	96	41467	47.593	ug/L	93
14) Carbon disulfide		2.249	76	3791	1.213	ug/L	# 91
17) trans-1,2-Dichloroethene		2.696	96	74527	65.148	ug/L	88
18) Methyl tert-butyl Ether		2.703	73	22814	6.565	ug/L	95
19) 1,1-Dichloroethane		3.114	63	48116	25.413	ug/L	97
27) 1,2-Dichloroethane		5.046	62	19738	11.471	ug/L	95
29) Cyclohexane		4.583	56	4620	2.812	ug/L	# 69
33) Benzene		5.008	78	508594	112.844	ug/L	100
34) Trichloroethene		5.837	95	9317	6.919	ug/L	84
39) cis-1,3-Dichloropropene		6.911	75	2401	1.269	ug/L	91
42) Toluene		7.313	91	768693	151.353	ug/L	100
44) trans-1,3-Dichloropropene		7.554	75	1806	0.944	ug/L	# 74
46) Tetrachloroethene		7.905	164	27127	23.436	ug/L	94
51) Chlorobenzene		8.812	112	1604283	449.190	ug/L	96
52) Ethylbenzene		8.950	91	8137	1.392	ug/L	100
53) m,p-Xylene		9.075	106	10133	4.377	ug/L	87
54) o-Xylene		9.480	106	8398	3.676	ug/L	88

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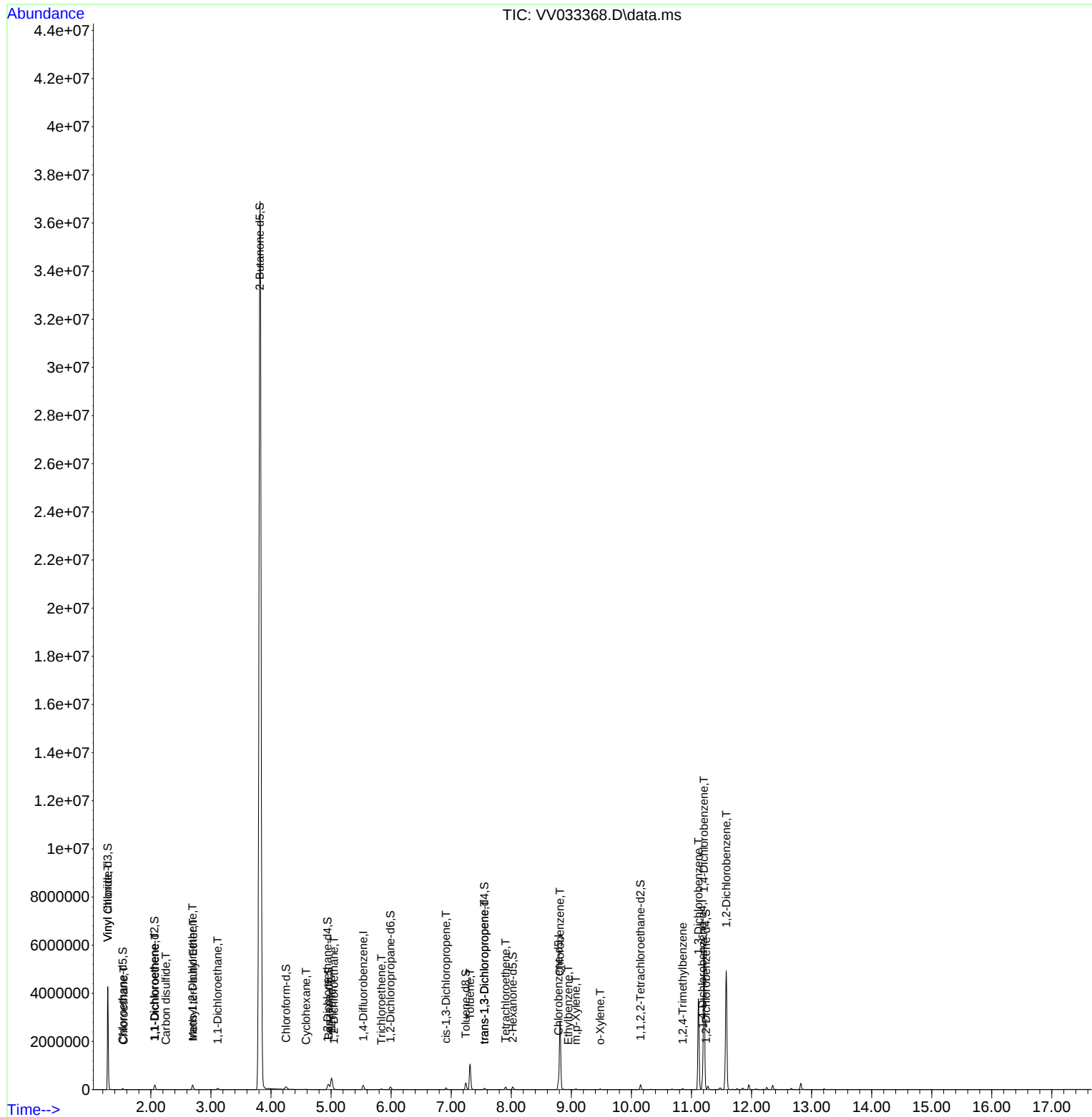
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
63) 1,2,4-Trimethylbenzene	10.853	105	27342	4.668	ug/L	97
64) 1,3-Dichlorobenzene	11.117	146	1596416	428.041	ug/L	98
65) 1,4-Dichlorobenzene	11.210	146	2618542	675.893	ug/L	99
67) 1,2-Dichlorobenzene	11.580	146	2014274	550.900	ug/L	98

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

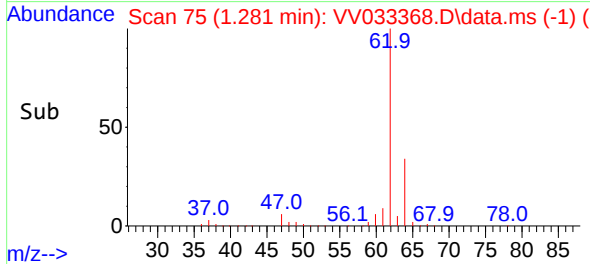
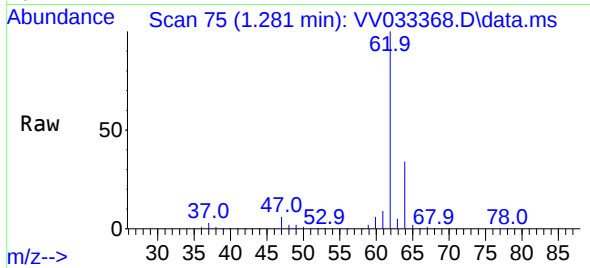
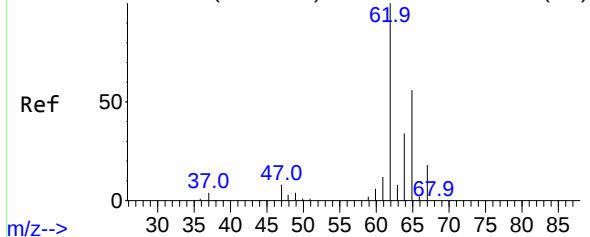
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV121423\
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Abundance Scan 76 (1.285 min): VV033348.D\data.ms (-68)



#5

Vinyl chloride

Concen: 2099.406 ug/L

RT: 1.281 min Scan# 71

Delta R.T. -0.003 min

Lab File: VV033368.D

Acq: 15 Dec 2023 04:20

Instrument :

MSVOA_V

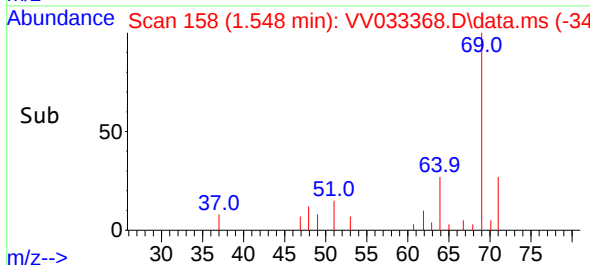
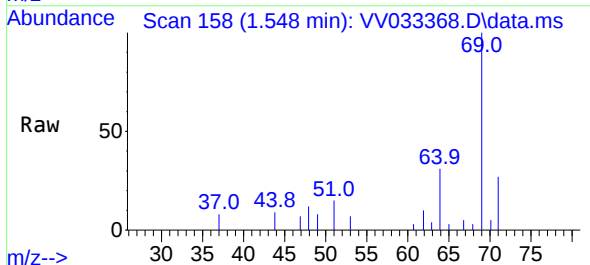
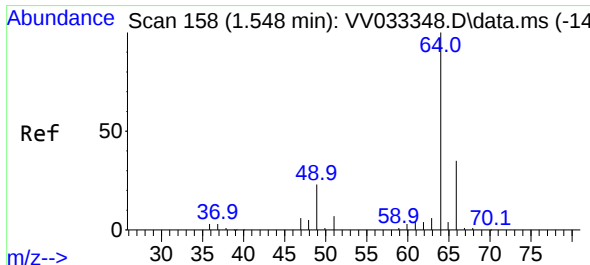
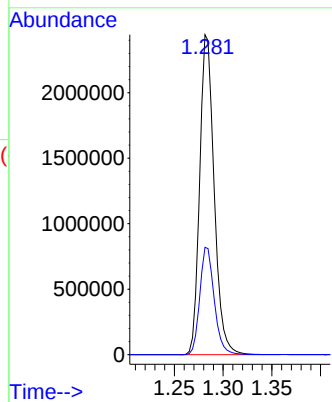
ClientSampleId :

Tgt Ion: 62 Resp: 2522604

Ion Ratio Lower Upper

62 100

64 33.5 24.2 45.0



#8

Chloroethane

Concen: 0.963 ug/L

RT: 1.548 min Scan# 158

Delta R.T. -0.000 min

Lab File: VV033368.D

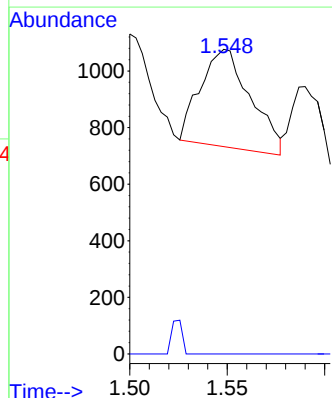
Acq: 15 Dec 2023 04:20

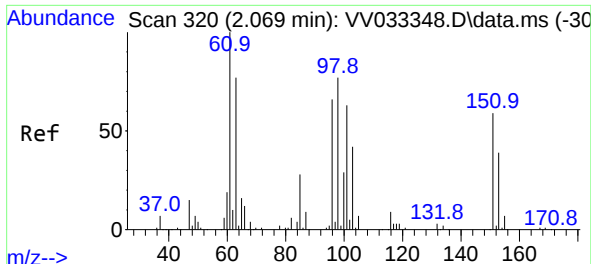
Tgt Ion: 64 Resp: 616

Ion Ratio Lower Upper

64 100

66 0.0 22.3 41.5#





#12

1,1-Dichloroethene

Concen: 47.593 ug/L

RT: 2.069 min Scan# 31

Delta R.T. -0.000 min

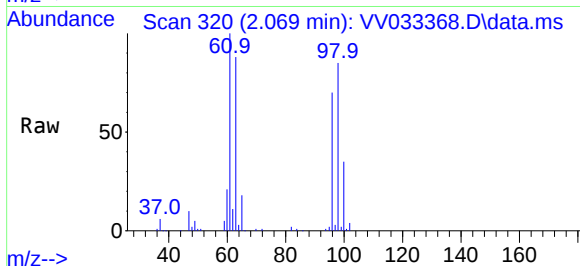
Lab File: VV033368.D

Acq: 15 Dec 2023 04:20

Instrument :

MSVOA_V

ClientSampleId :



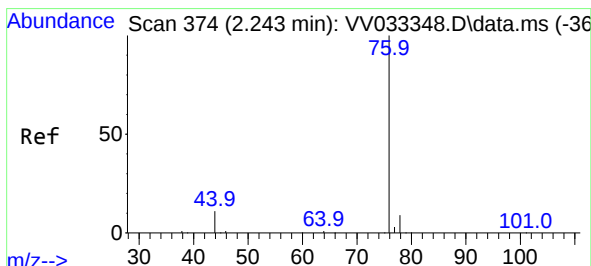
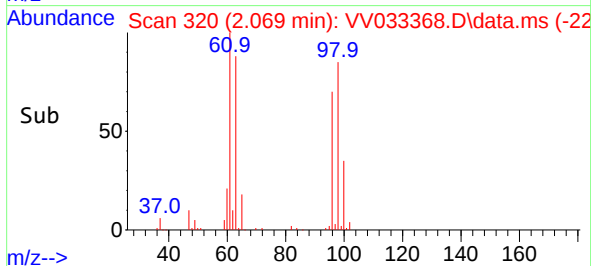
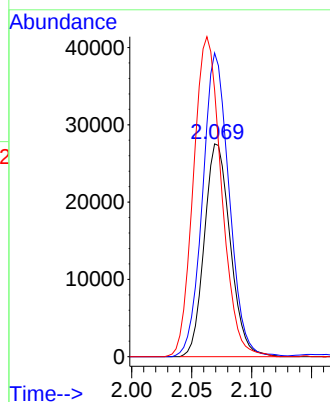
Tgt Ion: 96 Resp: 41467

Ion Ratio Lower Upper

96 100

61 142.7 109.1 202.7

63 125.4 85.3 158.3



#14

Carbon disulfide

Concen: 1.213 ug/L

RT: 2.249 min Scan# 376

Delta R.T. 0.006 min

Lab File: VV033368.D

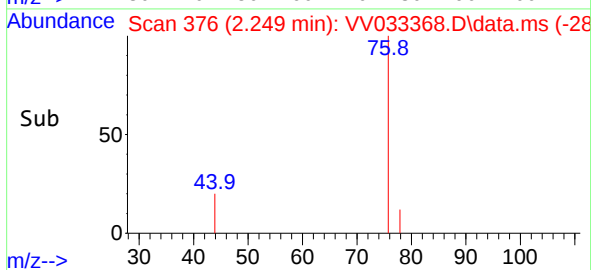
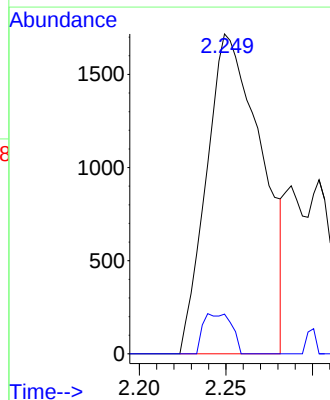
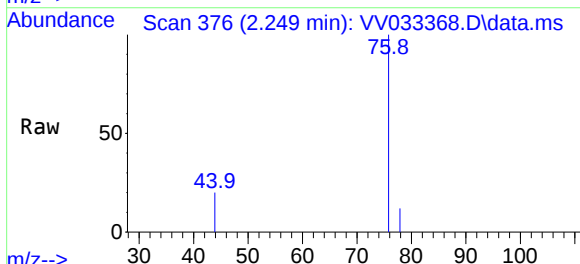
Acq: 15 Dec 2023 04:20

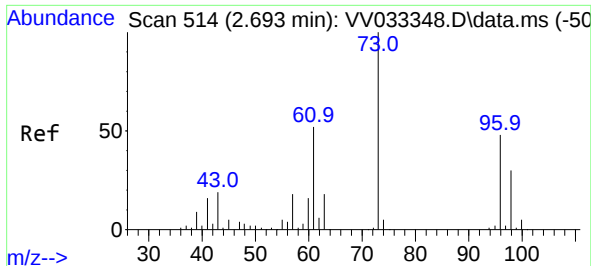
Tgt Ion: 76 Resp: 3791

Ion Ratio Lower Upper

76 100

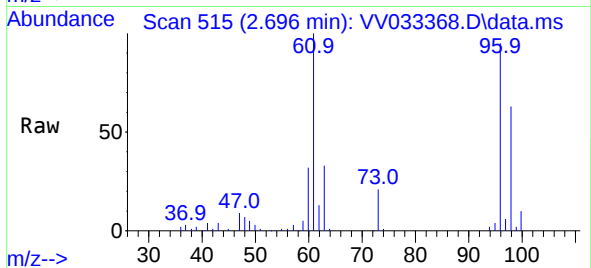
78 12.4 7.4 11.0#



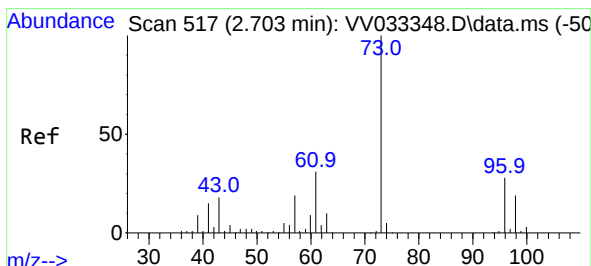
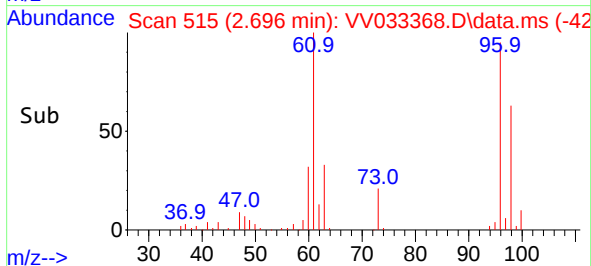
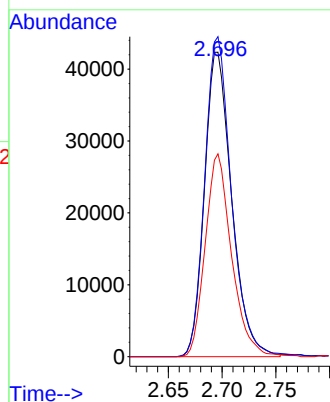


#17
trans-1,2-Dichloroethene
Concen: 65.148 ug/L
RT: 2.696 min Scan# 514
Delta R.T. 0.003 min
Lab File: VV033368.D
Acq: 15 Dec 2023 04:20

Instrument :
MSVOA_V
ClientSampleId :

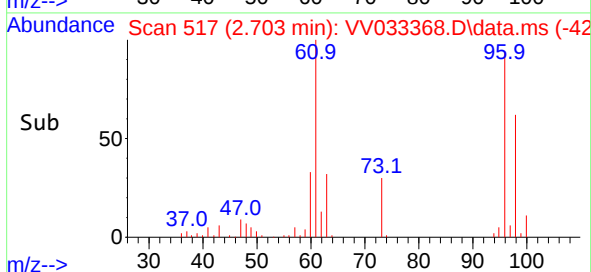
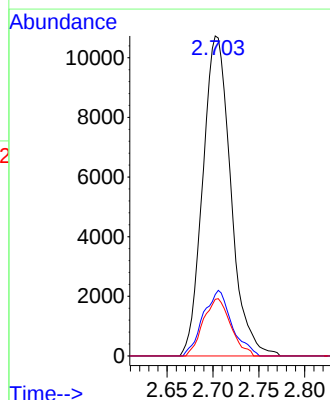
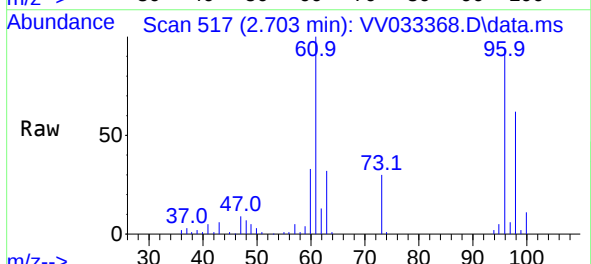


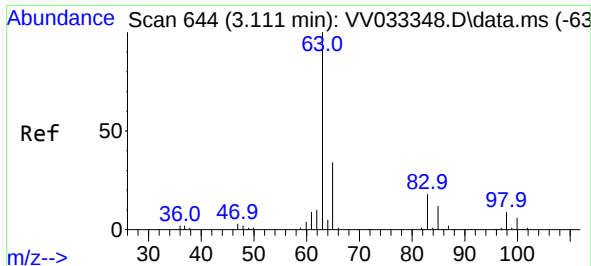
Tgt Ion: 96 Resp: 74527
Ion Ratio Lower Upper
96 100
61 105.1 86.5 160.6
98 66.6 45.1 83.7



#18
Methyl tert-butyl Ether
Concen: 6.565 ug/L
RT: 2.703 min Scan# 517
Delta R.T. 0.003 min
Lab File: VV033368.D
Acq: 15 Dec 2023 04:20

Tgt Ion: 73 Resp: 22814
Ion Ratio Lower Upper
73 100
43 21.0 15.4 23.2
57 17.6 16.1 24.1





#19

1,1-Dichloroethane

Concen: 25.413 ug/L

RT: 3.114 min Scan# 64

Delta R.T. 0.006 min

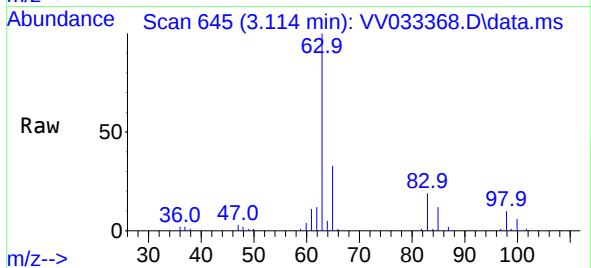
Lab File: VV033368.D

Acq: 15 Dec 2023 04:20

Instrument :

MSVOA_V

ClientSampleId :



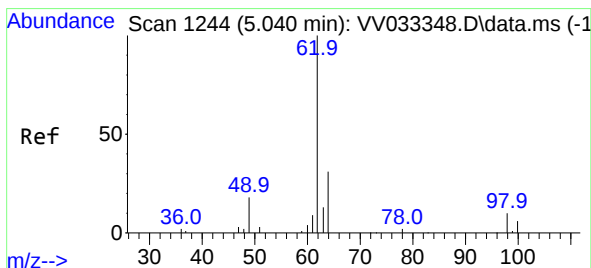
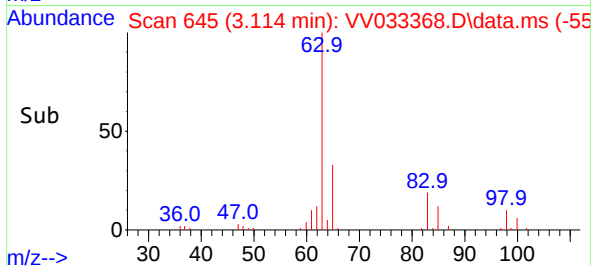
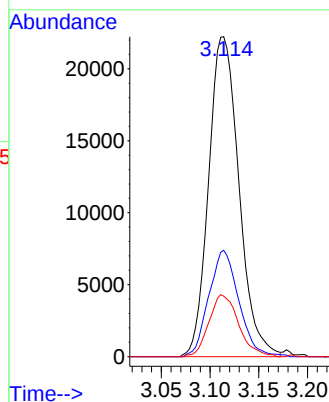
Tgt Ion: 63 Resp: 48116

Ion Ratio Lower Upper

63 100

65 33.3 23.0 42.6

83 18.9 11.4 21.2



#27

1,2-Dichloroethane

Concen: 11.471 ug/L

RT: 5.046 min Scan# 1246

Delta R.T. 0.010 min

Lab File: VV033368.D

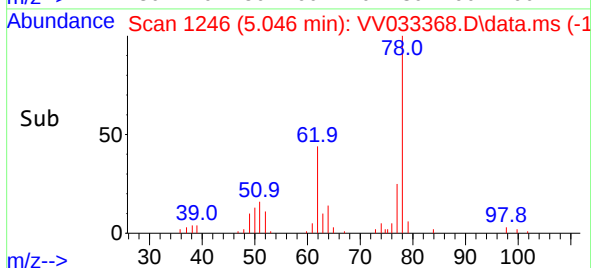
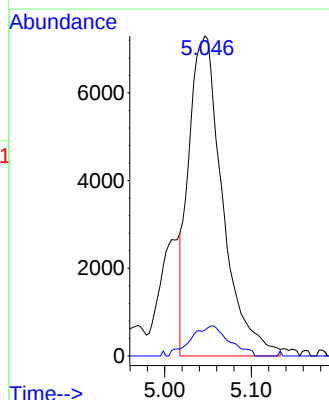
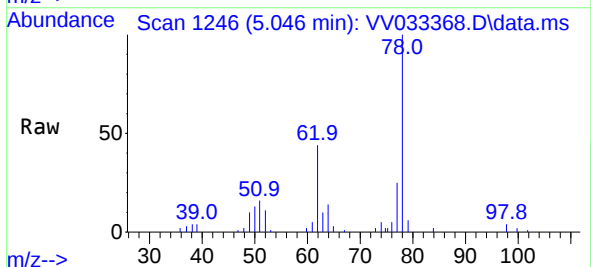
Acq: 15 Dec 2023 04:20

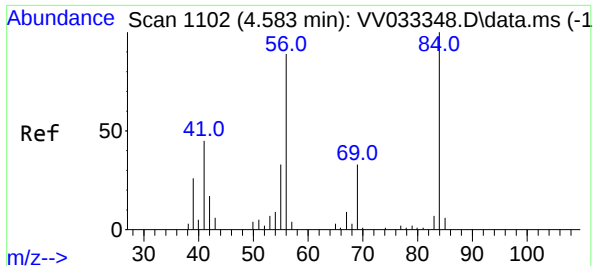
Tgt Ion: 62 Resp: 19738

Ion Ratio Lower Upper

62 100

98 8.1 7.8 11.8





#29

Cyclohexane

Concen: 2.812 ug/L

RT: 4.583 min Scan# 1102

Delta R.T. -0.000 min

Lab File: VV033368.D

Acq: 15 Dec 2023 04:20

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ClientSampleId :

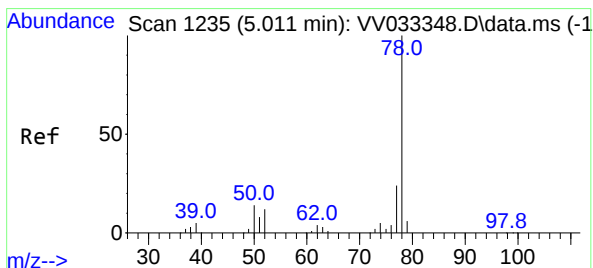
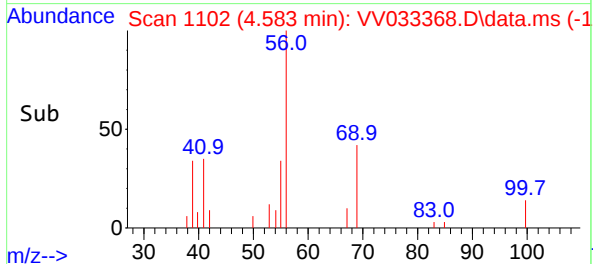
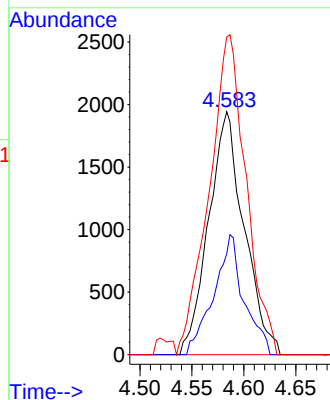
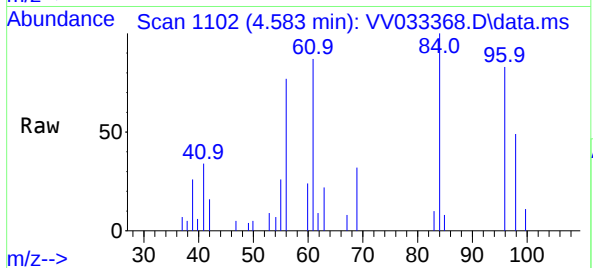
Tgt Ion: 56 Resp: 4620

Ion Ratio Lower Upper

56 100

69 41.9 26.9 40.3#

84 136.9 80.6 121.0#



#33

Benzene

Concen: 112.844 ug/L

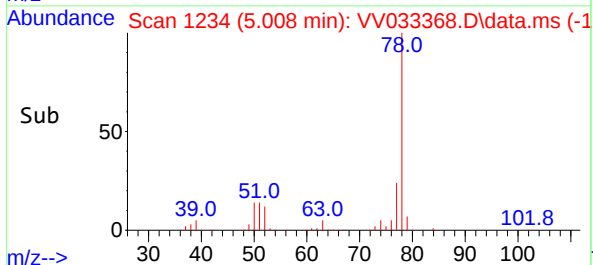
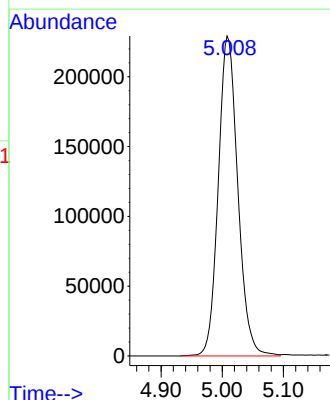
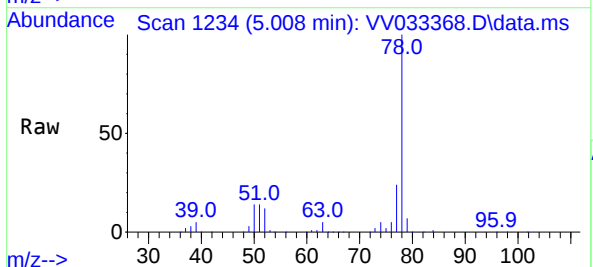
RT: 5.008 min Scan# 1234

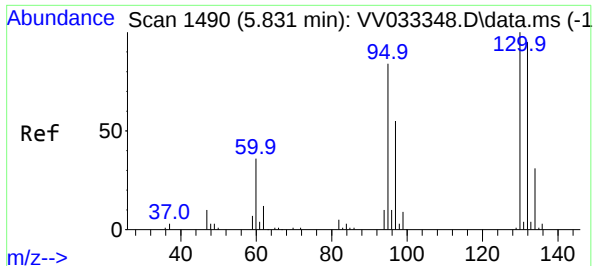
Delta R.T. 0.003 min

Lab File: VV033368.D

Acq: 15 Dec 2023 04:20

Tgt Ion: 78 Resp: 508594





#34

Trichloroethene

Concen: 6.919 ug/L

RT: 5.837 min Scan# 14

Delta R.T. 0.006 min

Lab File: VV033368.D

Acq: 15 Dec 2023 04:20

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 95 Resp: 9317

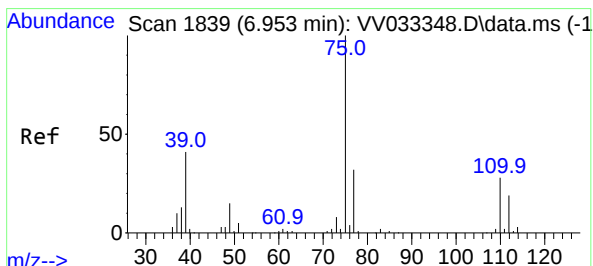
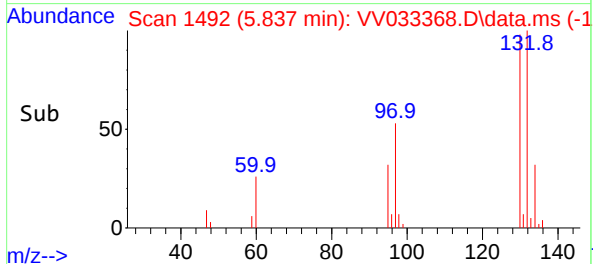
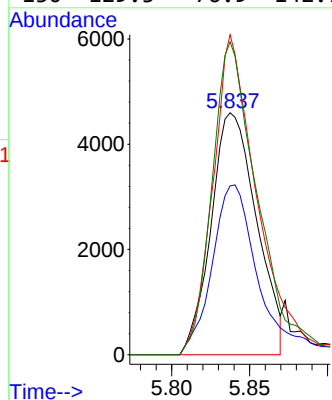
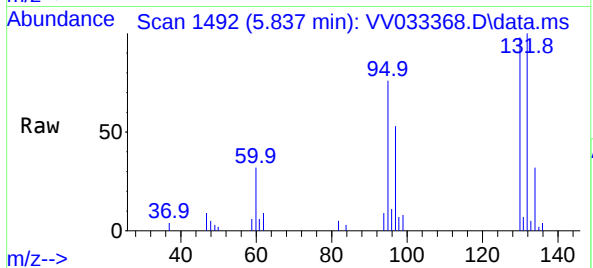
Ion Ratio Lower Upper

95 100

97 69.8 45.8 85.0

132 132.3 77.4 143.8

130 129.3 76.9 142.7



#39

cis-1,3-Dichloropropene

Concen: 1.269 ug/L

RT: 6.911 min Scan# 1826

Delta R.T. -0.039 min

Lab File: VV033368.D

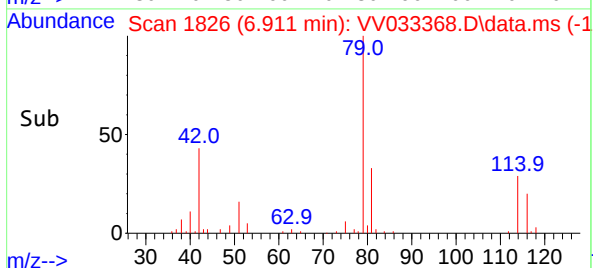
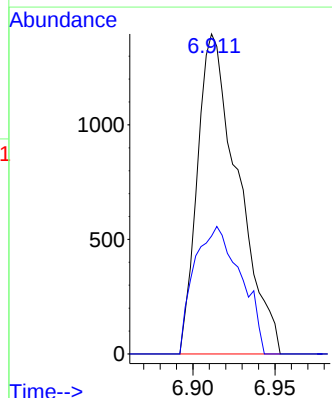
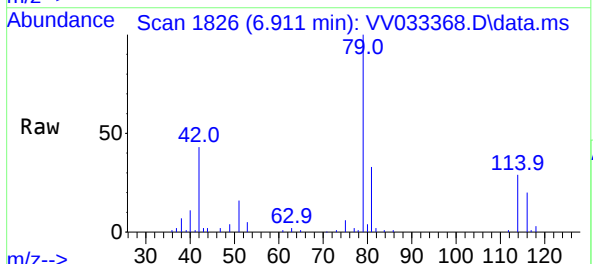
Acq: 15 Dec 2023 04:20

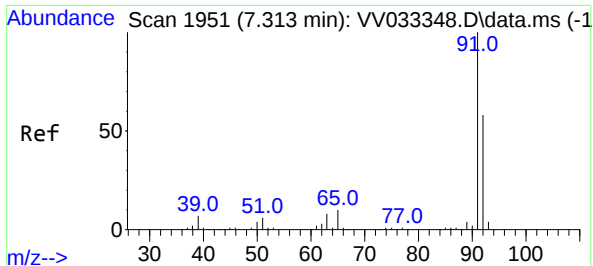
Tgt Ion: 75 Resp: 2401

Ion Ratio Lower Upper

75 100

77 36.9 22.4 41.6





#42

Toluene

Concen: 151.353 ug/L

RT: 7.313 min Scan# 1951

Delta R.T. -0.000 min

Lab File: VV033368.D

Acq: 15 Dec 2023 04:20

Instrument :

MSVOA_V

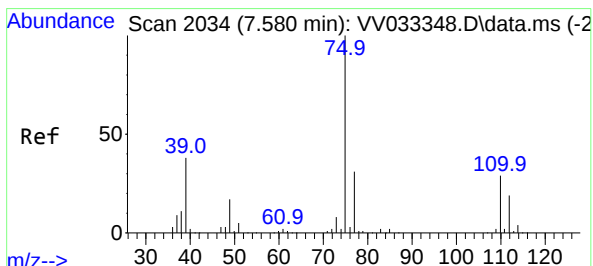
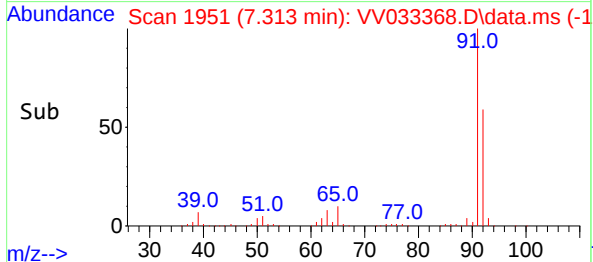
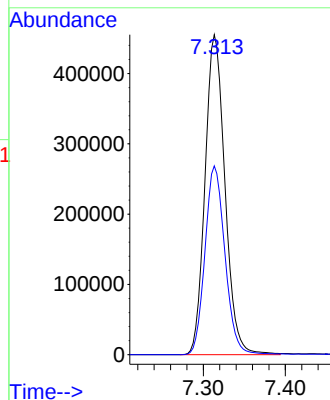
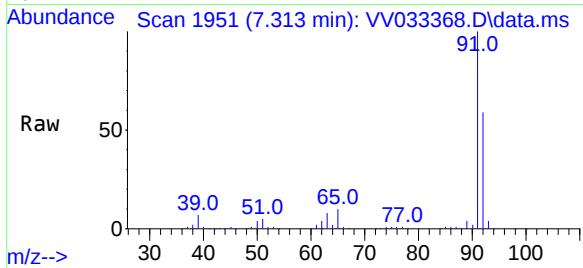
ClientSampleId :

Tgt Ion: 91 Resp: 768693

Ion Ratio Lower Upper

91 100

92 59.0 41.3 76.7



#44

trans-1,3-Dichloropropene

Concen: 0.944 ug/L

RT: 7.554 min Scan# 2026

Delta R.T. -0.026 min

Lab File: VV033368.D

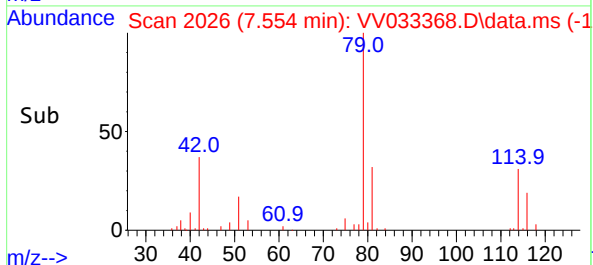
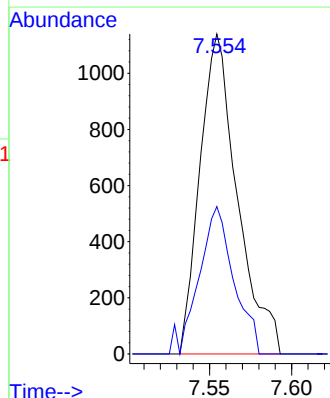
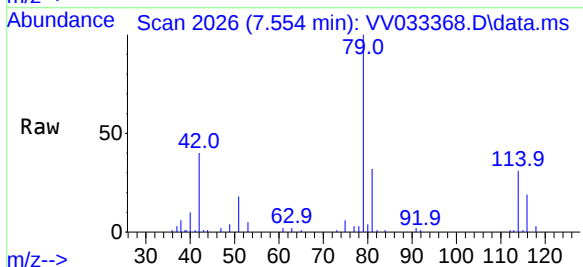
Acq: 15 Dec 2023 04:20

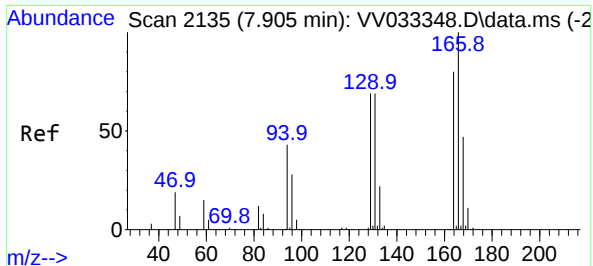
Tgt Ion: 75 Resp: 1806

Ion Ratio Lower Upper

75 100

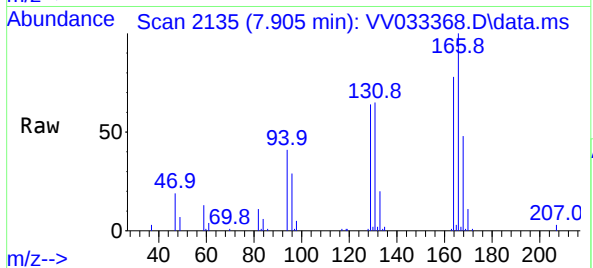
77 46.1 22.0 41.0#





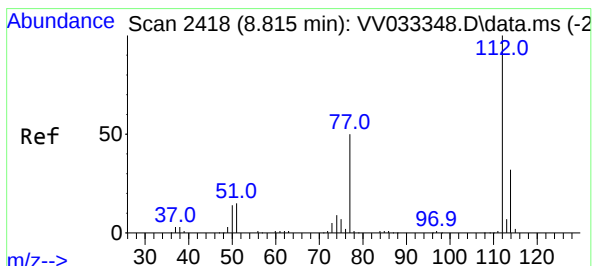
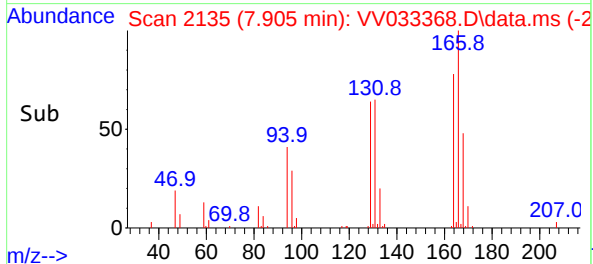
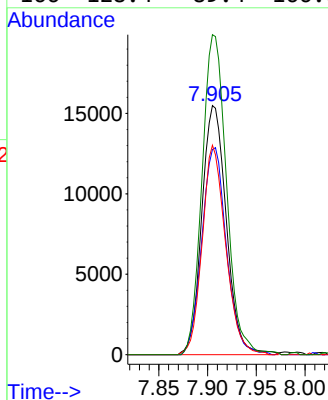
#46
Tetrachloroethene
Concen: 23.436 ug/L
RT: 7.905 min Scan# 2135
Delta R.T. -0.000 min
Lab File: VV033368.D
Acq: 15 Dec 2023 04:20

Instrument :
MSVOA_V
ClientSampleId :



Tgt Ion:164 Resp: 27127

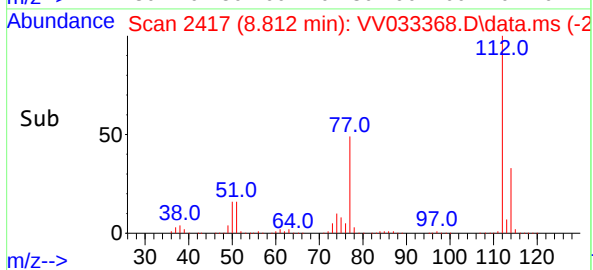
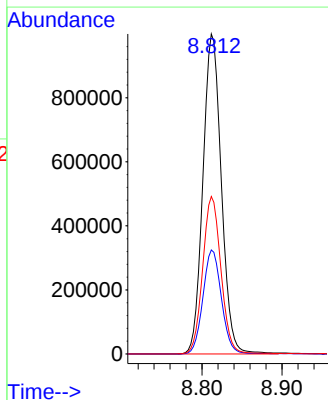
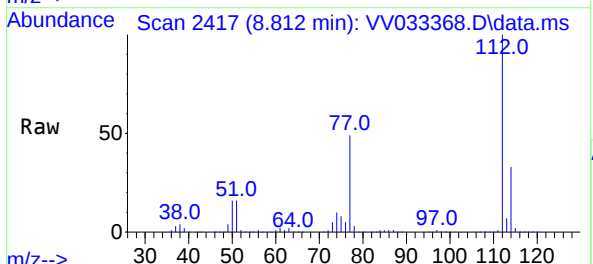
Ion	Ratio	Lower	Upper
164	100		
129	82.3	65.6	121.8
131	84.1	64.7	120.1
166	128.4	89.4	166.0

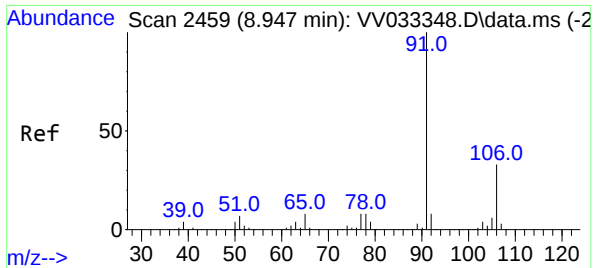


#51
Chlorobenzene
Concen: 449.190 ug/L
RT: 8.812 min Scan# 2417
Delta R.T. -0.000 min
Lab File: VV033368.D
Acq: 15 Dec 2023 04:20

Tgt Ion:112 Resp: 1604283

Ion	Ratio	Lower	Upper
112	100		
114	32.5	22.9	42.5
77	49.2	42.6	64.0





#52

Ethylbenzene

Concen: 1.392 ug/L

RT: 8.950 min Scan# 2459

Delta R.T. 0.003 min

Lab File: VV033368.D

Acq: 15 Dec 2023 04:20

Instrument :

MSVOA_V

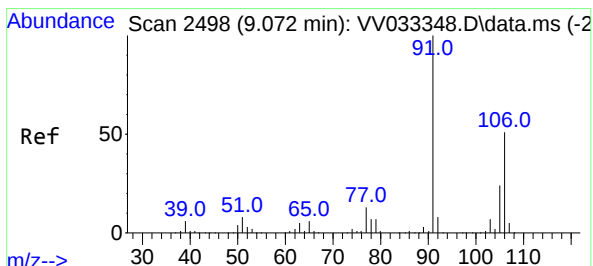
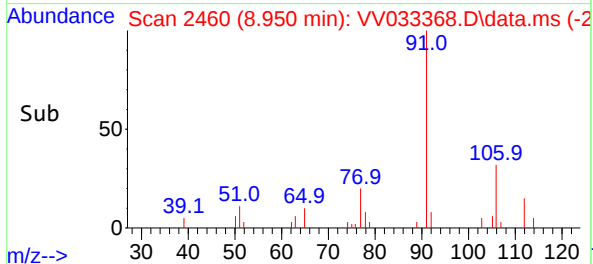
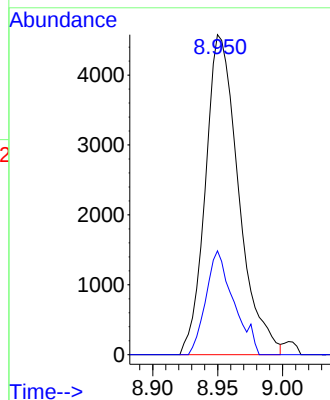
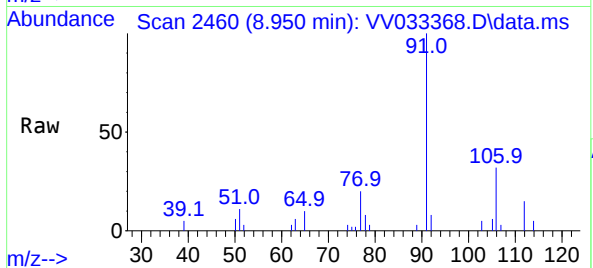
ClientSampleId :

Tgt Ion: 91 Resp: 8137

Ion Ratio Lower Upper

91 100

106 32.4 22.6 42.0



#53

m,p-Xylene

Concen: 4.377 ug/L

RT: 9.075 min Scan# 2499

Delta R.T. 0.003 min

Lab File: VV033368.D

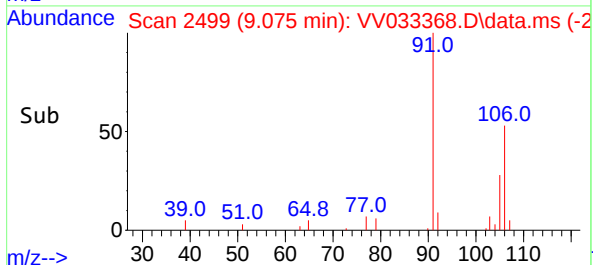
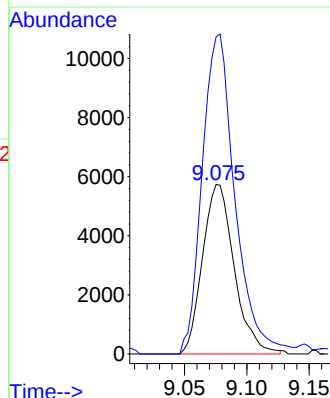
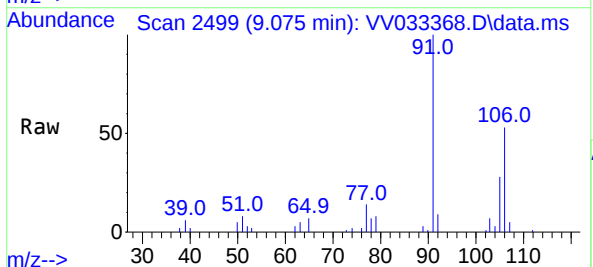
Acq: 15 Dec 2023 04:20

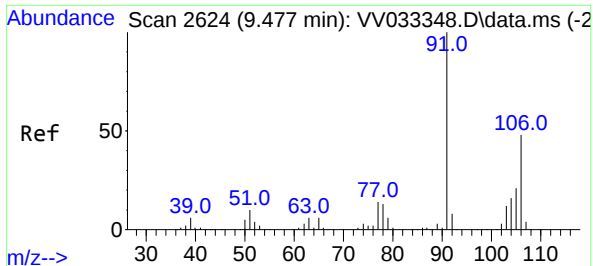
Tgt Ion: 106 Resp: 10133

Ion Ratio Lower Upper

106 100

91 187.0 145.2 269.6

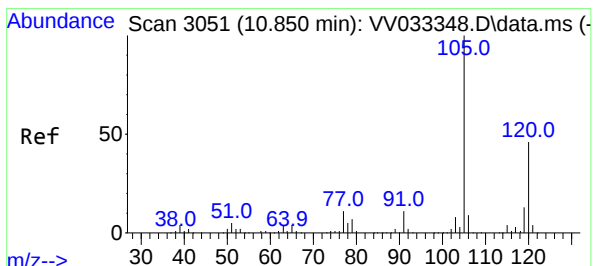
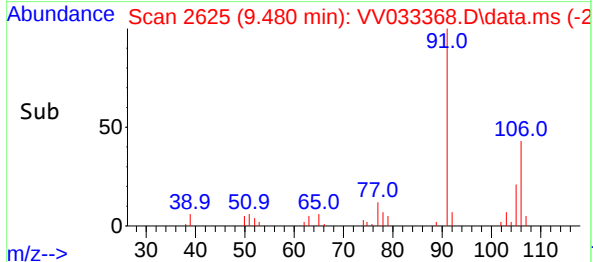
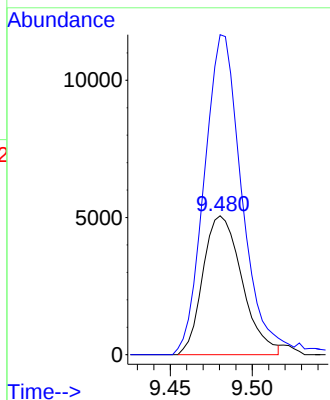
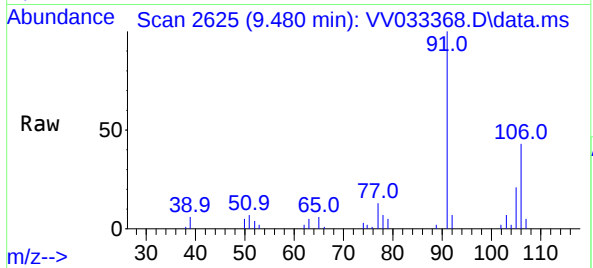




#54
o-Xylene
Concen: 3.676 ug/L
RT: 9.480 min Scan# 20
Delta R.T. 0.003 min
Lab File: VV033368.D
Acq: 15 Dec 2023 04:20

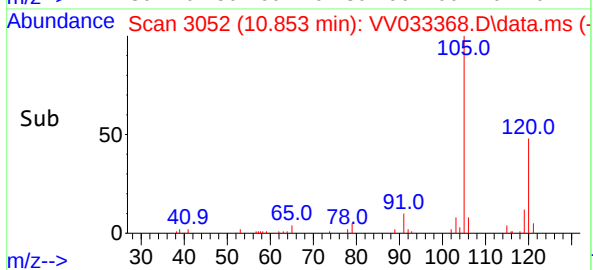
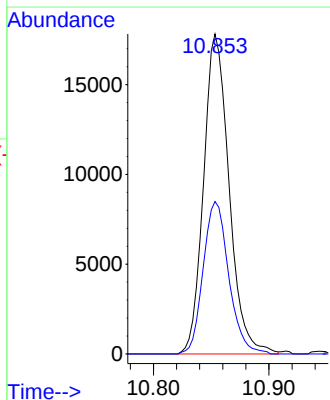
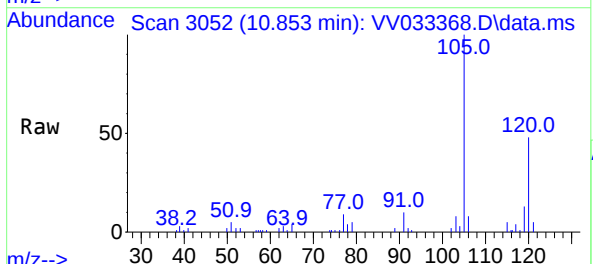
Instrument :
MSVOA_V
ClientSampleId :

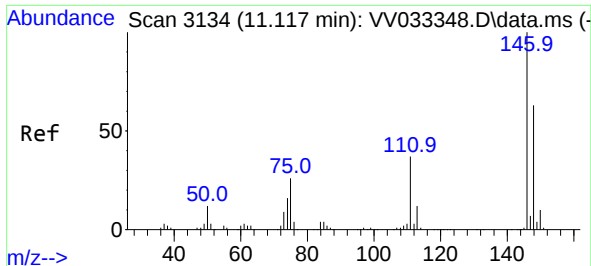
Tgt Ion:106 Resp: 8398
Ion Ratio Lower Upper
106 100
91 230.5 147.8 274.6



#63
1,2,4-Trimethylbenzene
Concen: 4.668 ug/L
RT: 10.853 min Scan# 3052
Delta R.T. 0.003 min
Lab File: VV033368.D
Acq: 15 Dec 2023 04:20

Tgt Ion:105 Resp: 27342
Ion Ratio Lower Upper
105 100
120 47.7 36.7 55.1

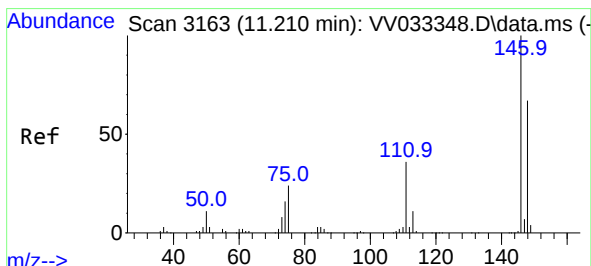
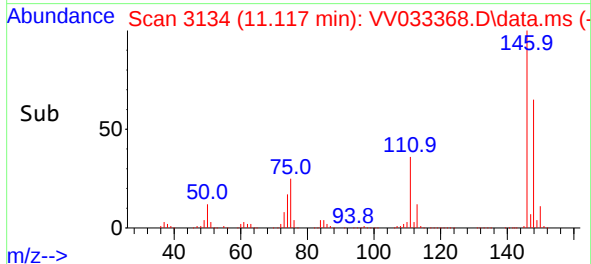
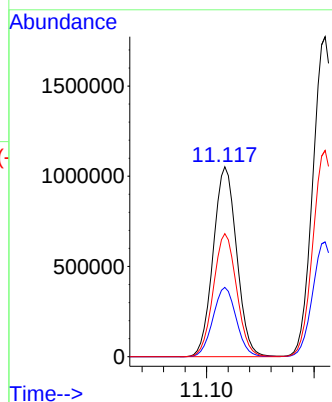
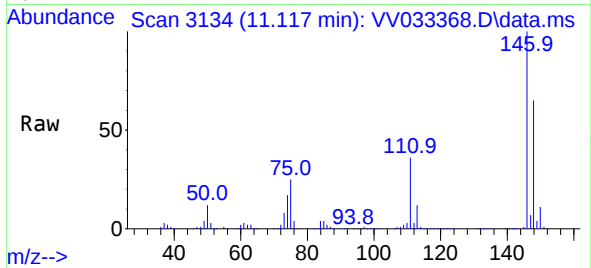




#64
1,3-Dichlorobenzene
Concen: 428.041 ug/L
RT: 11.117 min Scan# 3134
Delta R.T. -0.000 min
Lab File: VV033368.D
Acq: 15 Dec 2023 04:20

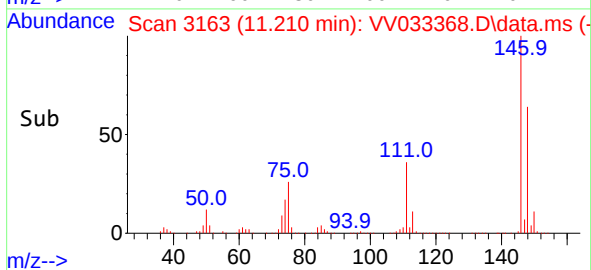
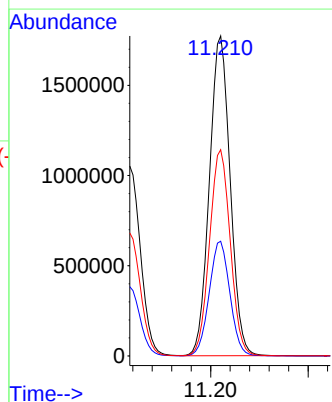
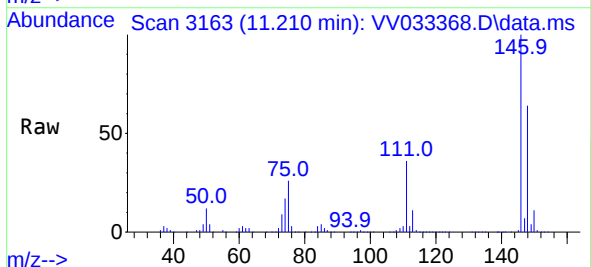
Instrument :
MSVOA_V
ClientSampleId :

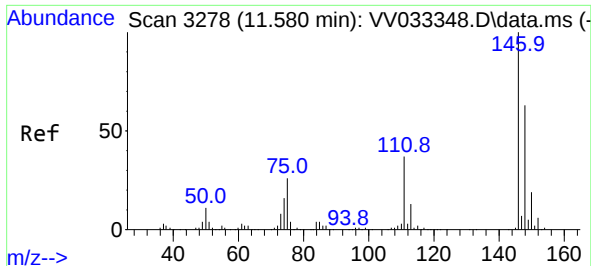
Tgt Ion:146 Resp: 1596416
Ion Ratio Lower Upper
146 100
111 36.5 26.2 48.6
148 64.8 44.5 82.7



#65
1,4-Dichlorobenzene
Concen: 675.893 ug/L
RT: 11.210 min Scan# 3163
Delta R.T. 0.003 min
Lab File: VV033368.D
Acq: 15 Dec 2023 04:20

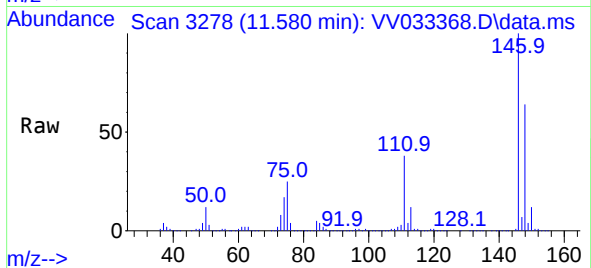
Tgt Ion:146 Resp: 2618542
Ion Ratio Lower Upper
146 100
111 35.9 25.9 48.1
148 64.4 44.9 83.5





#67
 1,2-Dichlorobenzene
 Concen: 550.900 ug/L
 RT: 11.580 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: VV033368.D
 Acq: 15 Dec 2023 04:20

Instrument :
 MSVOA_V
 ClientSampleId :



Tgt Ion:146 Resp: 2014274

Ion	Ratio	Lower	Upper
146	100		
111	38.2	32.4	48.6
148	64.2	51.8	77.8

