

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW121323\
 Data File : VW033296.D
 Acq On : 13 Dec 2023 23:08
 Operator : SY/MD
 Sample : 05731-22
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 EOY68

Quant Time: Dec 13 23:38:21 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR121323WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Dec 13 23:30:39 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.535	114	125345	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.786	117	123283	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.188	152	60765	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.278	65	39626	4.931	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	98.600%
7) Chloroethane-d5	1.532	69	29637	4.959	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	99.200%
11) 1,1-Dichloroethene-d2	2.060	65	15538	4.858	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	97.200%
20) 2-Butanone-d5	3.805	46	55902	58.788	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	117.580%
24) Chloroform-d	4.249	84	86315	5.150	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	103.000%
26) 1,2-Dichloroethane-d4	4.947	65	40376	5.544	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	110.800%
32) Benzene-d6	4.960	84	167215	5.243	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	104.800%
36) 1,2-Dichloropropane-d6	5.989	67	38600	5.317	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	106.400%
41) Toluene-d8	7.243	98	154560	4.974	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.400%
43) trans-1,3-Dichloroprop...	7.555	79	17392	5.252	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	105.000%
46) 2-Hexanone-d5	8.027	63	55720	60.271	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	120.540%
56) 1,1,2,2-Tetrachloroeth...	10.152	84	27378	5.577	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	111.600%
66) 1,2-Dichlorobenzene-d4	11.561	152	58349	5.452	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	109.000%
Target Compounds						
					Qvalue	
3) Chloromethane	1.214	50	1594	0.178	ug/L	93
5) Vinyl chloride	1.281	62	2196	0.243	ug/L #	49
14) Carbon disulfide	2.243	76	3373	0.144	ug/L #	75
15) Methyl Acetate	2.375	43	1427	0.800	ug/L #	49
22) cis-1,2-Dichloroethene	3.815	96	66566	7.415	ug/L	93
25) Chloroform	4.272	83	9170	0.570	ug/L	96
27) 1,2-Dichloroethane	4.957	62	1199	0.136	ug/L #	72
33) Benzene	5.018	78	9811	0.297	ug/L	100
34) Trichloroethene	5.838	95	12112	1.258	ug/L	96
35) Methylcyclohexane	6.050	83	3690	0.259	ug/L #	83
37) 1,2-Dichloropropane	5.989	63	4934	0.743	ug/L #	81
39) cis-1,3-Dichloropropene	6.918	75	1406	0.130	ug/L #	76
42) Toluene	7.317	91	79247	2.094	ug/L	100
44) trans-1,3-Dichloropropene	7.561	75	741	0.082	ug/L #	17
49) Dibromochloromethane	7.915	129	688	0.096	ug/L #	11
51) Chlorobenzene	8.815	112	5157	0.199	ug/L	95
52) Ethylbenzene	8.950	91	51209	1.208	ug/L	100
53) m,p-Xylene	9.079	106	7329	0.420	ug/L	97
54) o-Xylene	9.484	106	3662	0.222	ug/L	99

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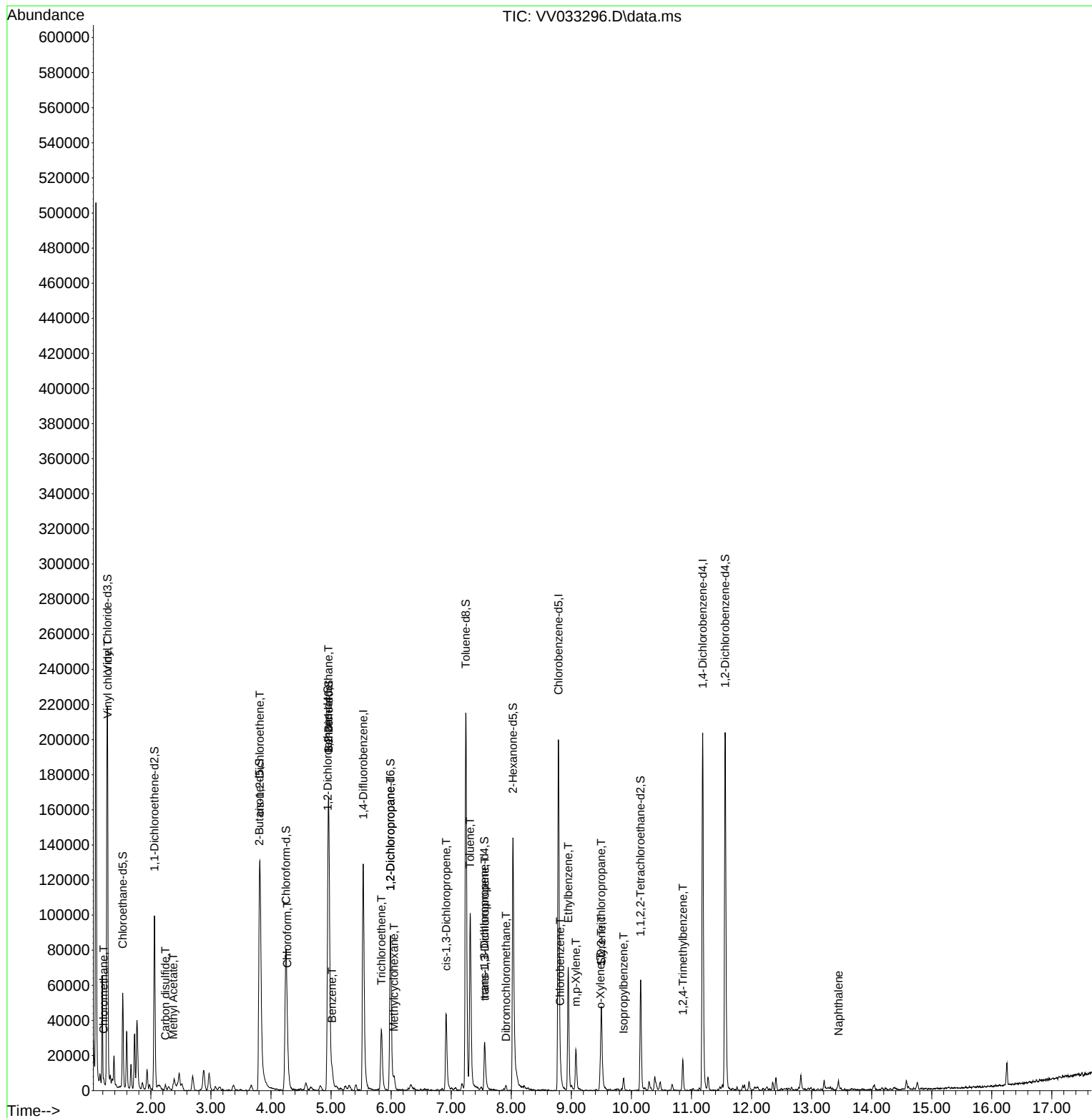
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) Styrene	9.503	104	25760	0.950	ug/L	95
60) Isopropylbenzene	9.870	105	5248	0.130	ug/L	96
61) 1,2,3-Trichloropropane	9.497	75	995	0.309	ug/L #	1
63) 1,2,4-Trimethylbenzene	10.857	105	10466	0.321	ug/L	99
71) Naphthalene	13.448	128	5062	0.347	ug/L #	97

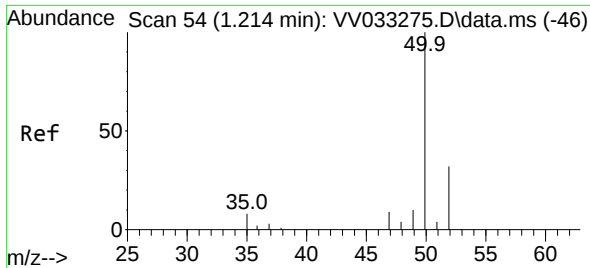
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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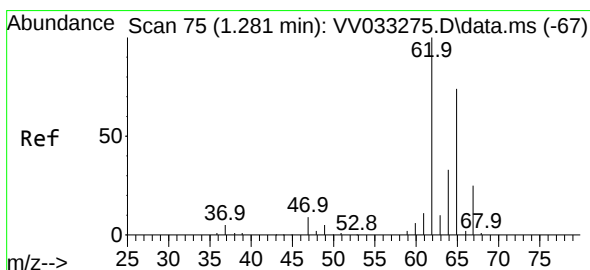
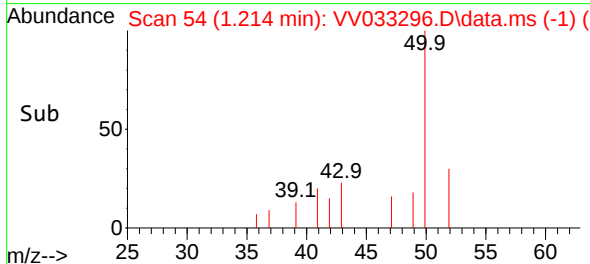
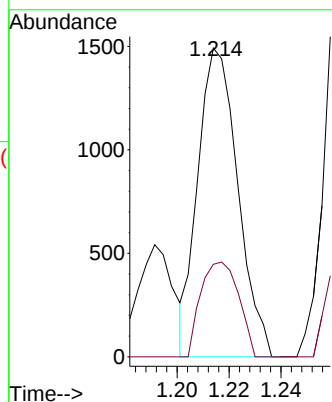
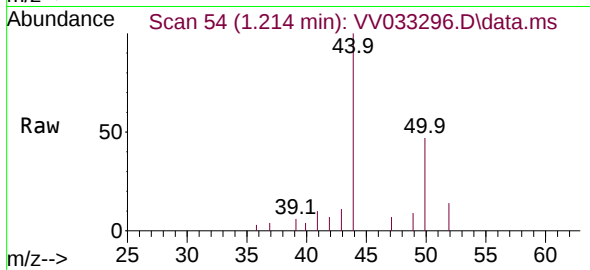




#3
Chloromethane
Concen: 0.178 ug/L
RT: 1.214 min Scan# 54
Delta R.T. 0.000 min
Lab File: VV033296.D
Acq: 13 Dec 2023 23:08

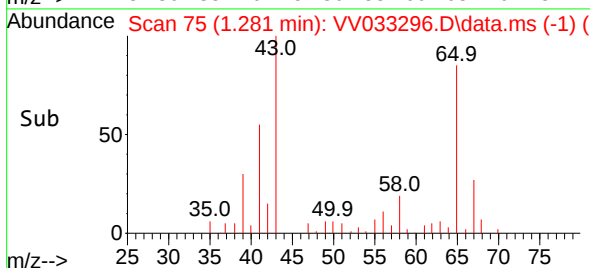
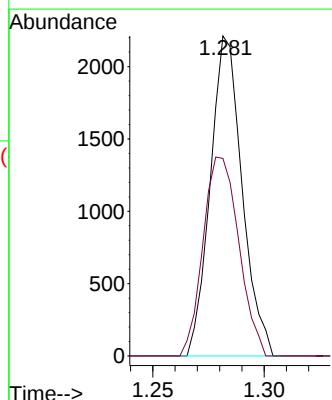
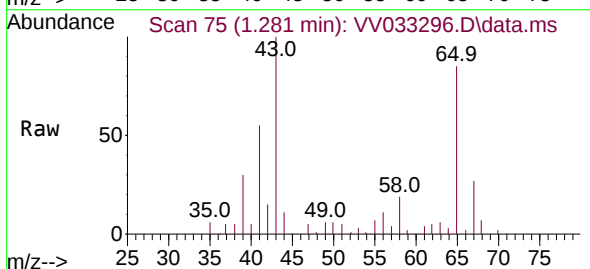
Instrument :
MSVOA_V
ClientSampleId :
E0Y68

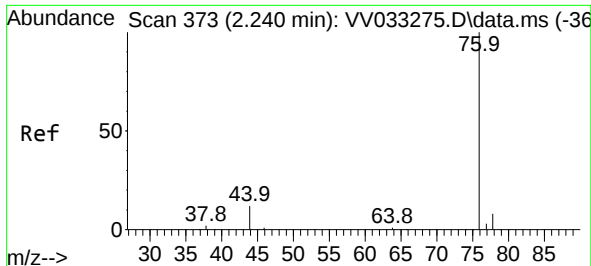
Tgt Ion: 50 Resp: 1594
Ion Ratio Lower Upper
50 100
52 30.0 23.8 44.2



#5
Vinyl chloride
Concen: 0.243 ug/L
RT: 1.281 min Scan# 75
Delta R.T. 0.000 min
Lab File: VV033296.D
Acq: 13 Dec 2023 23:08

Tgt Ion: 62 Resp: 2196
Ion Ratio Lower Upper
62 100
64 61.8 23.0 42.8#

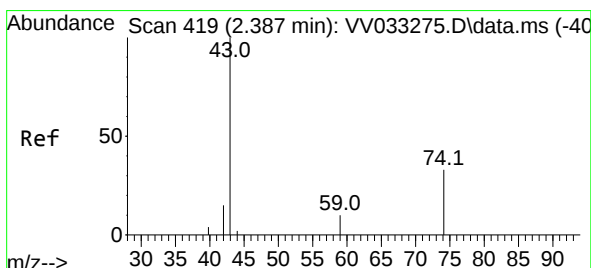
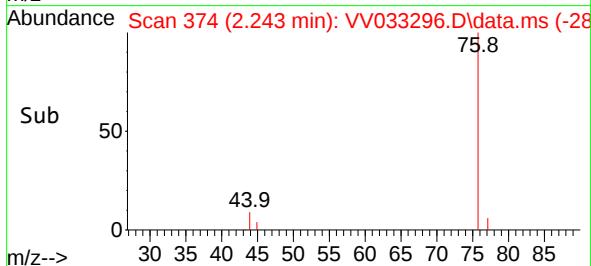
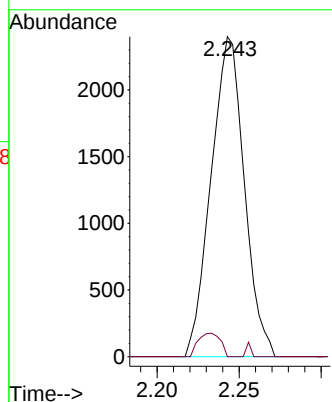
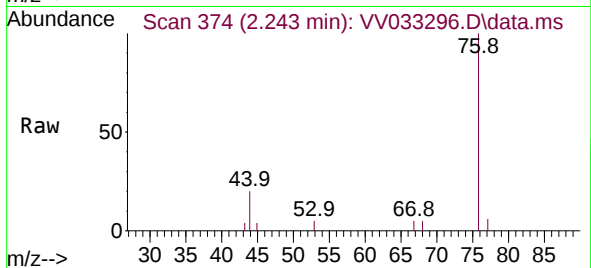




#14
Carbon disulfide
Concen: 0.144 ug/L
RT: 2.243 min Scan# 31
Delta R.T. 0.003 min
Lab File: VV033296.D
Acq: 13 Dec 2023 23:08

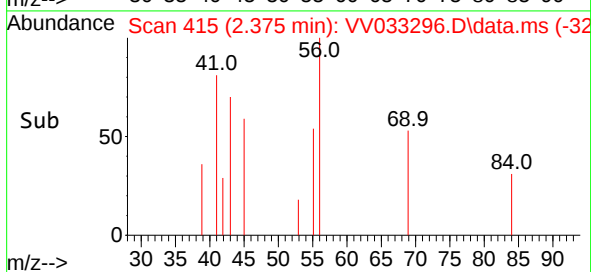
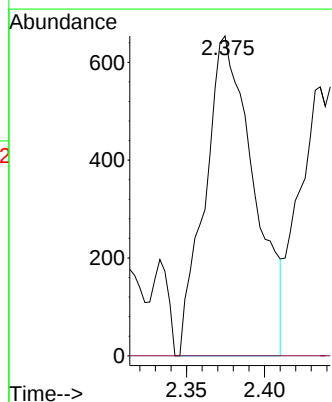
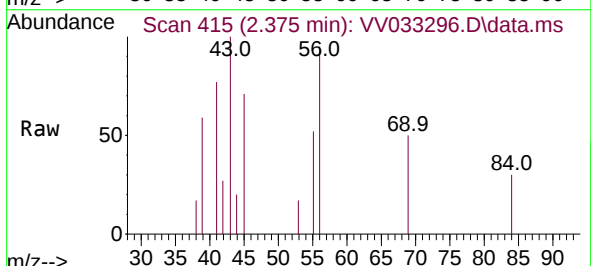
Instrument :
MSVOA_V
ClientSampleId :
E0Y68

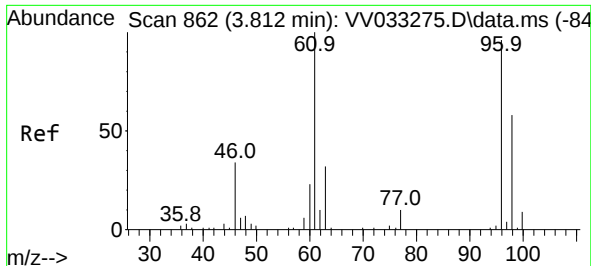
Tgt Ion: 76 Resp: 3373
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#



#15
Methyl Acetate
Concen: 0.800 ug/L
RT: 2.375 min Scan# 415
Delta R.T. -0.013 min
Lab File: VV033296.D
Acq: 13 Dec 2023 23:08

Tgt Ion: 43 Resp: 1427
Ion Ratio Lower Upper
43 100
74 0.0 21.0 31.6#





#22

cis-1,2-Dichloroethene

Concen: 7.415 ug/L

RT: 3.815 min Scan# 80

Delta R.T. 0.003 min

Lab File: VV033296.D

Acq: 13 Dec 2023 23:08

Instrument :

MSVOA_V

ClientSampleId :

E0Y68

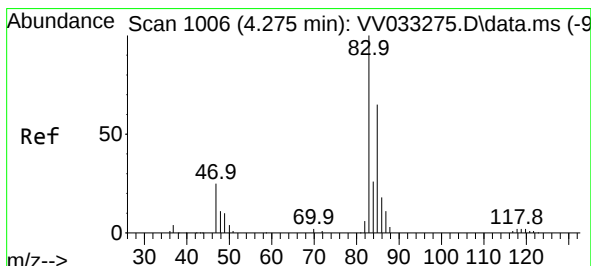
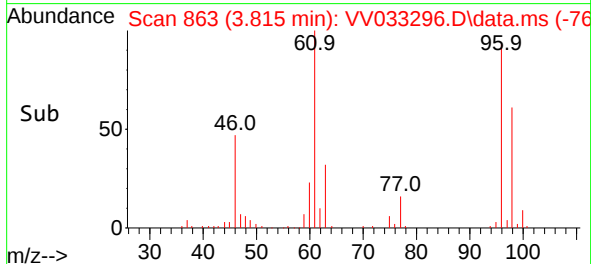
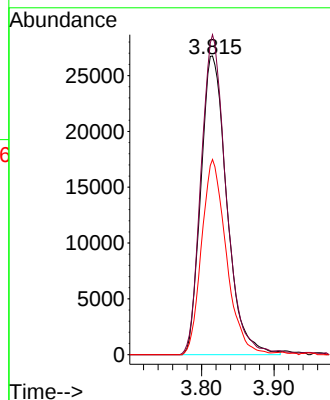
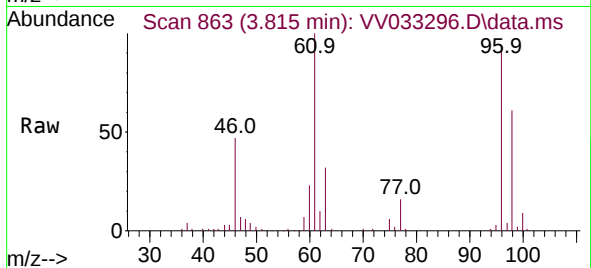
Tgt Ion: 96 Resp: 66566

Ion Ratio Lower Upper

96 100

61 107.1 69.9 129.9

98 65.4 42.4 78.8



#25

Chloroform

Concen: 0.570 ug/L

RT: 4.272 min Scan# 1005

Delta R.T. -0.003 min

Lab File: VV033296.D

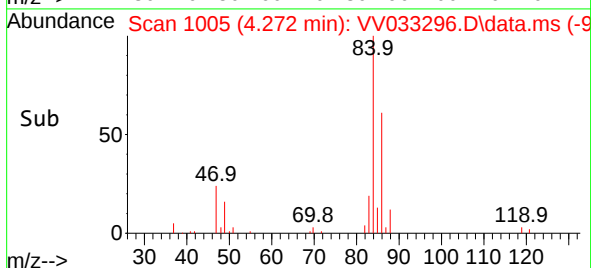
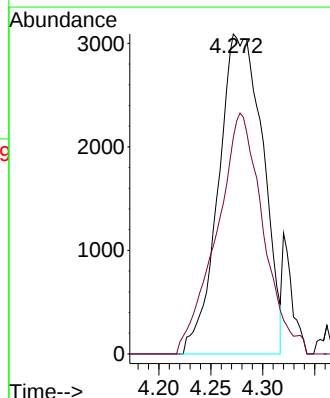
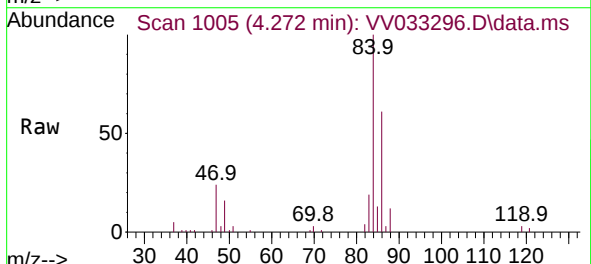
Acq: 13 Dec 2023 23:08

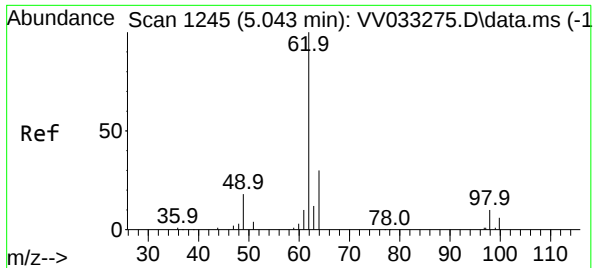
Tgt Ion: 83 Resp: 9170

Ion Ratio Lower Upper

83 100

85 67.6 45.3 84.1





#27

1,2-Dichloroethane

Concen: 0.136 ug/L

RT: 4.957 min Scan# 1199

Delta R.T. -0.087 min

Lab File: VV033296.D

Acq: 13 Dec 2023 23:08

Instrument :

MSVOA_V

ClientSampleId :

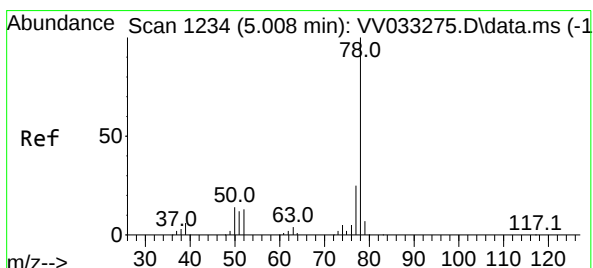
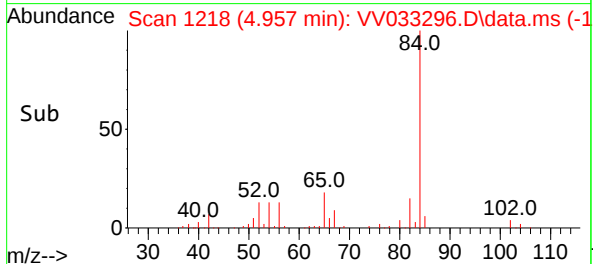
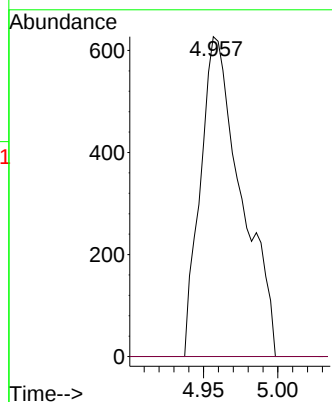
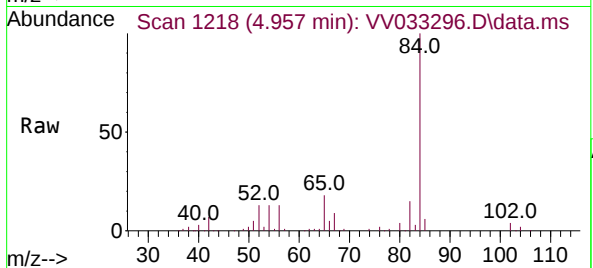
E0Y68

Tgt Ion: 62 Resp: 1199

Ion Ratio Lower Upper

62 100

98 0.0 8.2 12.4#



#33

Benzene

Concen: 0.297 ug/L

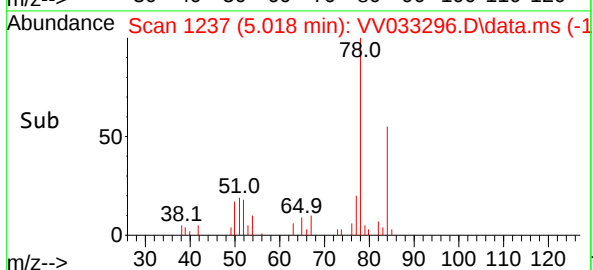
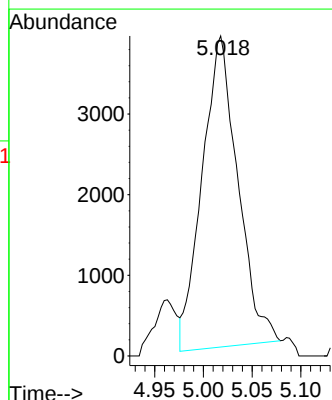
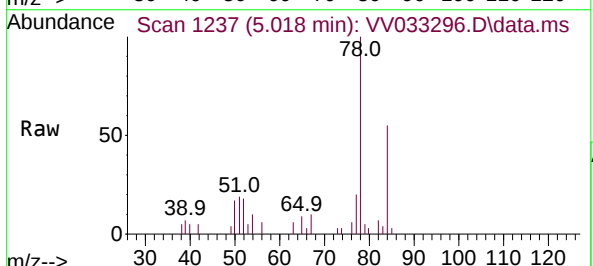
RT: 5.018 min Scan# 1237

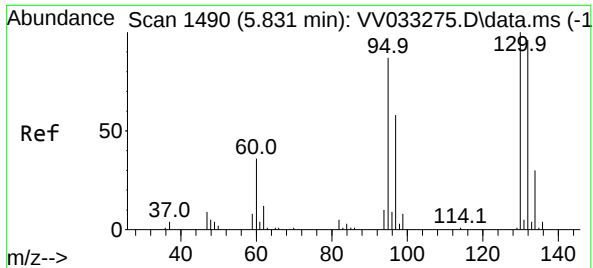
Delta R.T. 0.010 min

Lab File: VV033296.D

Acq: 13 Dec 2023 23:08

Tgt Ion: 78 Resp: 9811



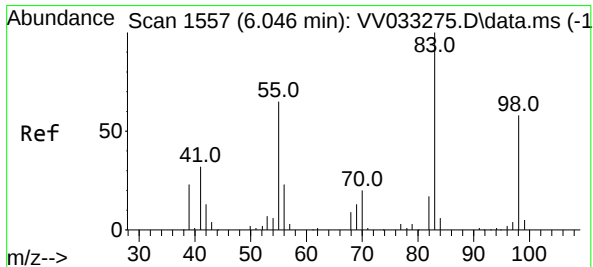
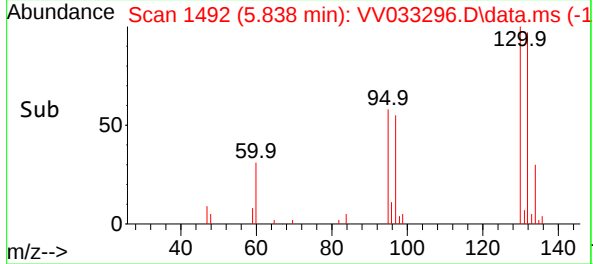
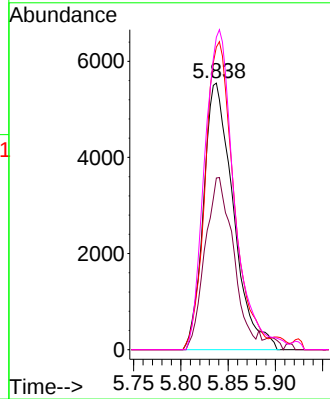
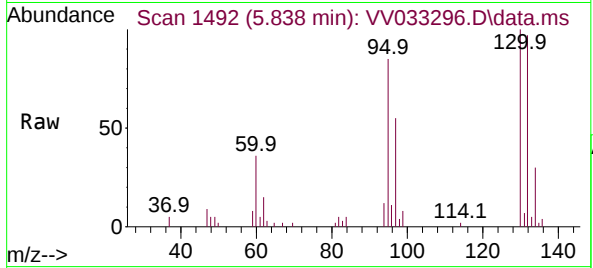


#34
 Trichloroethene
 Concen: 1.258 ug/L
 RT: 5.838 min Scan# 1492
 Delta R.T. 0.006 min
 Lab File: VV033296.D
 Acq: 13 Dec 2023 23:08

Instrument :
 MSVOA_V
 ClientSampleId :
 E0Y68

Tgt Ion: 95 Resp: 12112

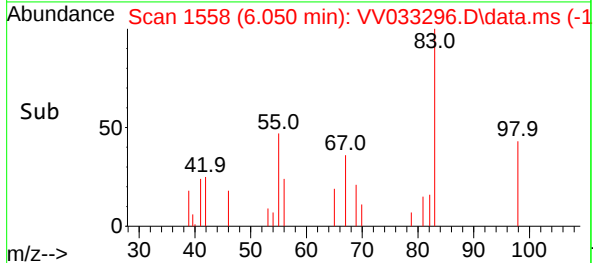
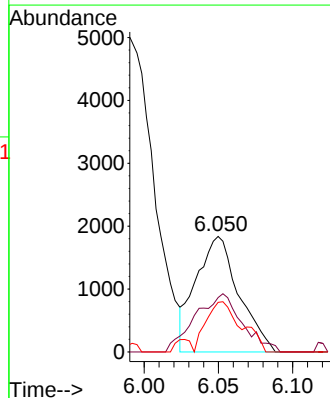
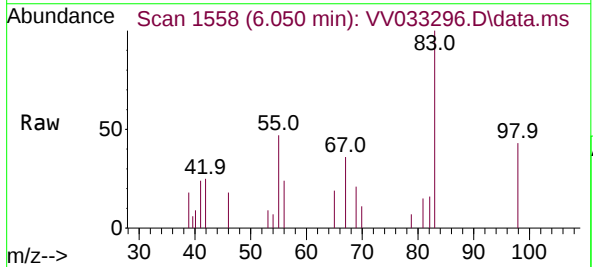
Ion	Ratio	Lower	Upper
95	100		
97	64.4	46.5	86.5
132	113.5	75.1	139.5
130	117.2	79.3	147.3

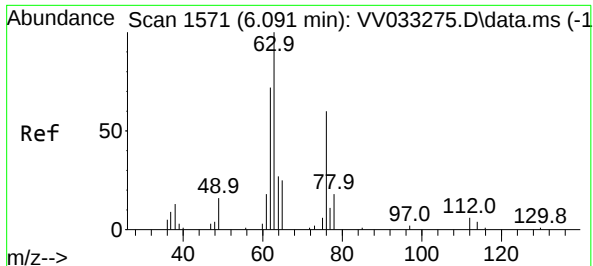


#35
 Methylcyclohexane
 Concen: 0.259 ug/L
 RT: 6.050 min Scan# 1558
 Delta R.T. 0.003 min
 Lab File: VV033296.D
 Acq: 13 Dec 2023 23:08

Tgt Ion: 83 Resp: 3690

Ion	Ratio	Lower	Upper
83	100		
55	55.1	50.7	76.1
98	35.9	42.4	63.6





#37

1,2-Dichloropropane

Concen: 0.743 ug/L

RT: 5.989 min Scan# 11

Delta R.T. -0.103 min

Lab File: VV033296.D

Acq: 13 Dec 2023 23:08

Instrument :

MSVOA_V

ClientSampleId :

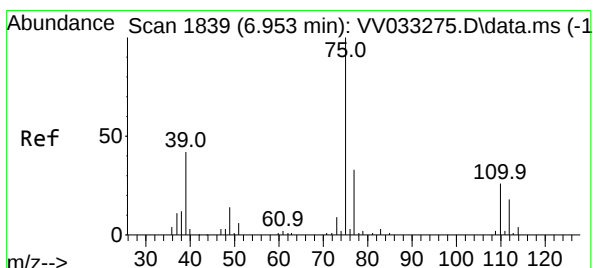
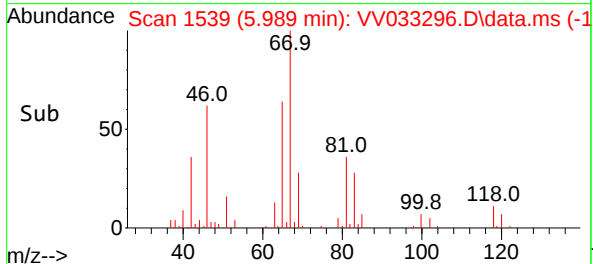
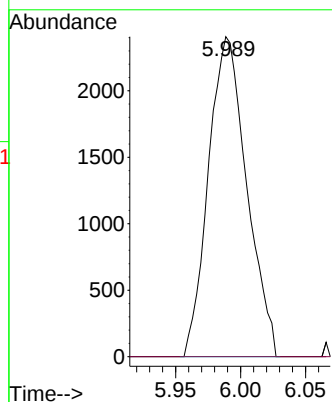
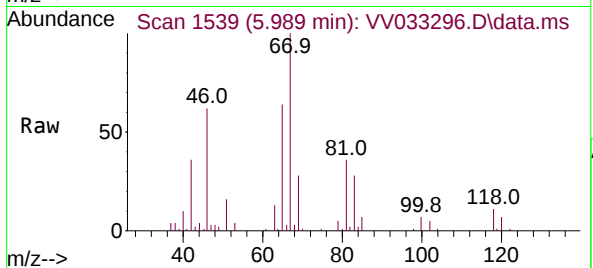
E0Y68

Tgt Ion: 63 Resp: 4934

Ion Ratio Lower Upper

63 100

112 0.0 5.0 7.6#



#39

cis-1,3-Dichloropropene

Concen: 0.130 ug/L

RT: 6.918 min Scan# 1828

Delta R.T. -0.035 min

Lab File: VV033296.D

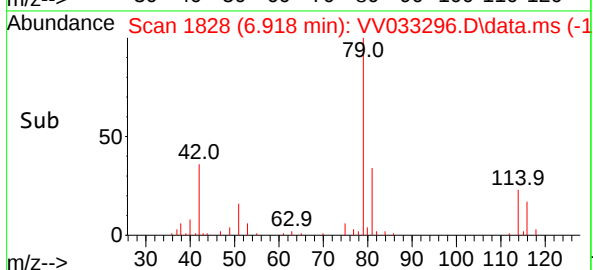
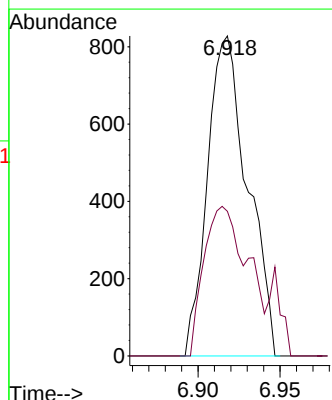
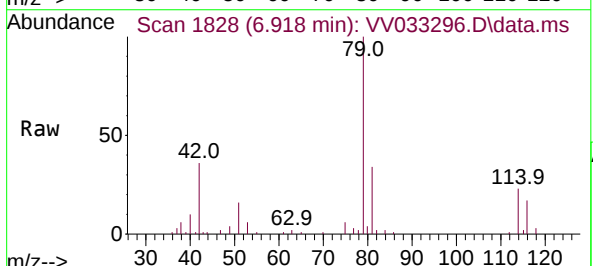
Acq: 13 Dec 2023 23:08

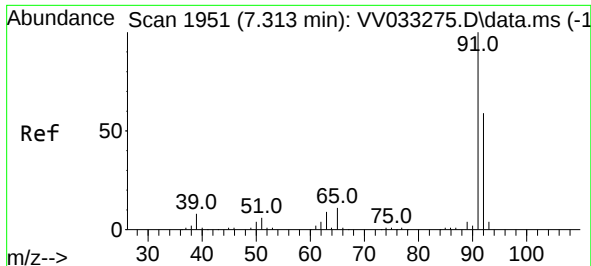
Tgt Ion: 75 Resp: 1406

Ion Ratio Lower Upper

75 100

77 45.2 22.1 41.1#





#42

Toluene

Concen: 2.094 ug/L

RT: 7.317 min Scan# 1951

Delta R.T. 0.003 min

Lab File: VV033296.D

Acq: 13 Dec 2023 23:08

Instrument :

MSVOA_V

ClientSampleId :

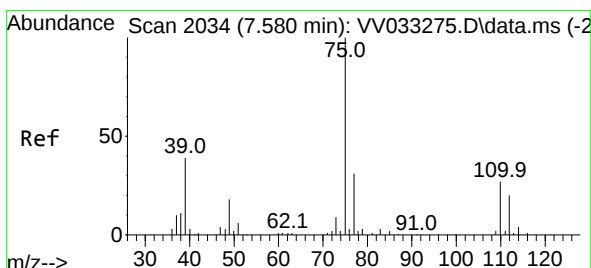
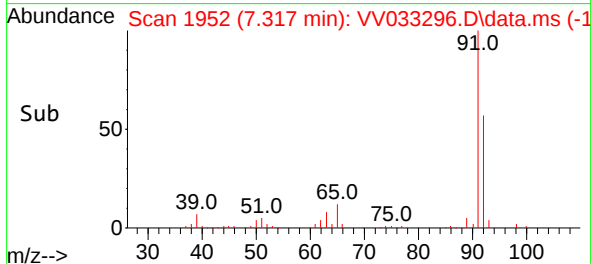
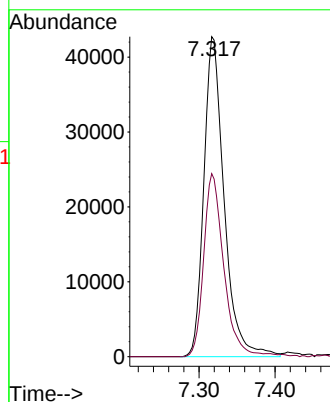
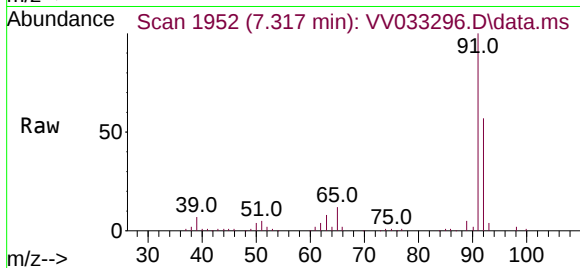
E0Y68

Tgt Ion: 91 Resp: 79247

Ion Ratio Lower Upper

91 100

92 57.2 40.2 74.6



#44

trans-1,3-Dichloropropene

Concen: 0.082 ug/L

RT: 7.561 min Scan# 2028

Delta R.T. -0.019 min

Lab File: VV033296.D

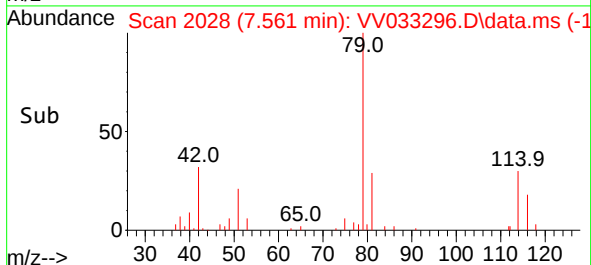
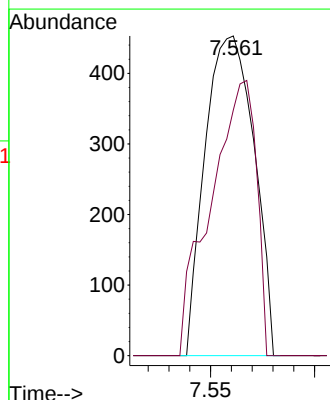
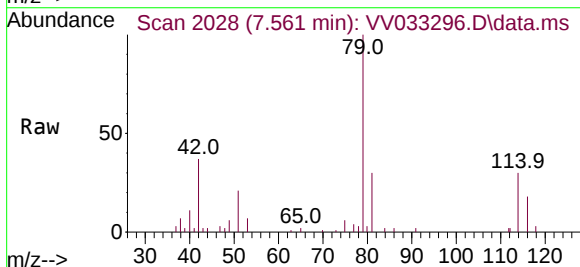
Acq: 13 Dec 2023 23:08

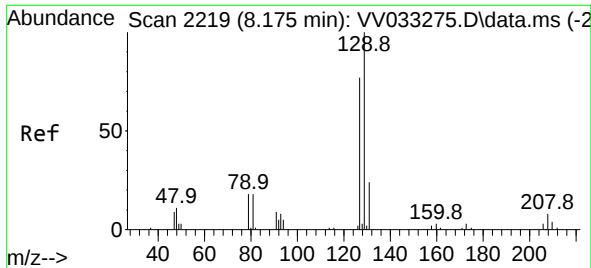
Tgt Ion: 75 Resp: 741

Ion Ratio Lower Upper

75 100

77 76.8 21.7 40.3#





#49

Dibromochloromethane

Concen: 0.096 ug/L

RT: 7.915 min Scan# 2138

Delta R.T. -0.260 min

Lab File: VV033296.D

Acq: 13 Dec 2023 23:08

Instrument :

MSVOA_V

ClientSampleId :

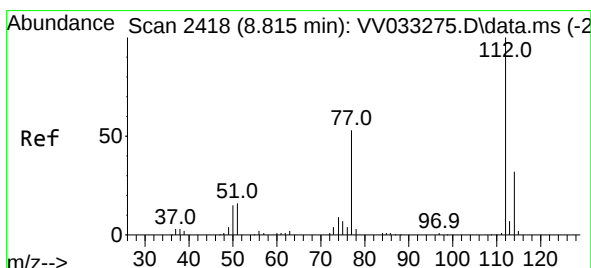
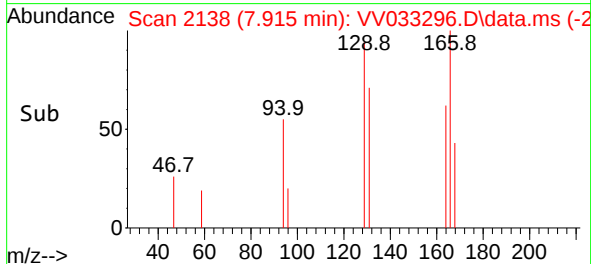
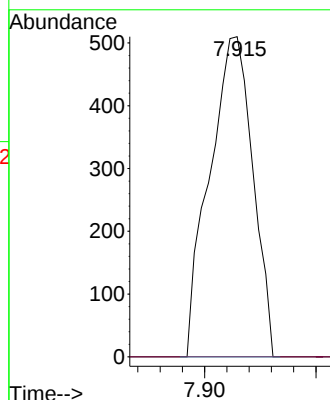
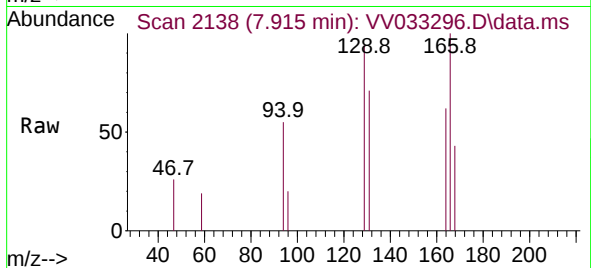
E0Y68

Tgt Ion:129 Resp: 688

Ion Ratio Lower Upper

129 100

127 0.0 53.2 98.8#



#51

Chlorobenzene

Concen: 0.199 ug/L

RT: 8.815 min Scan# 2418

Delta R.T. 0.000 min

Lab File: VV033296.D

Acq: 13 Dec 2023 23:08

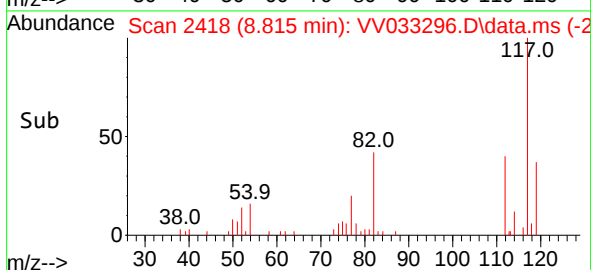
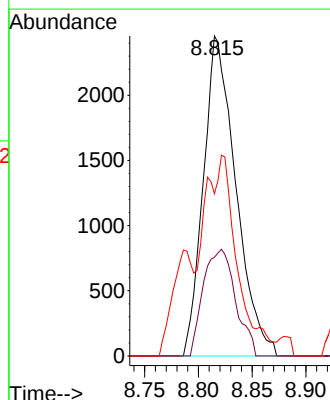
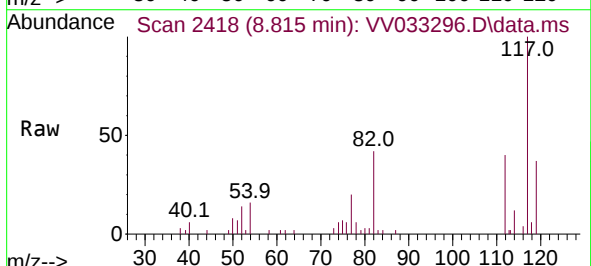
Tgt Ion:112 Resp: 5157

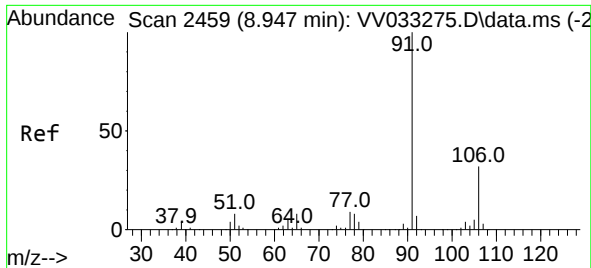
Ion Ratio Lower Upper

112 100

114 29.5 22.8 42.4

77 48.5 41.3 61.9

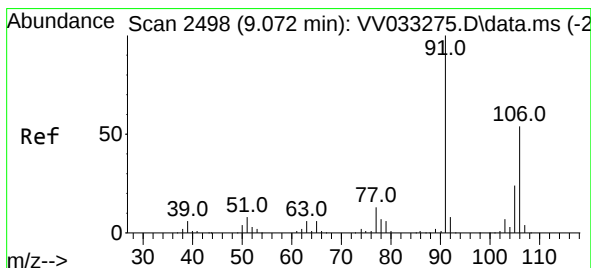
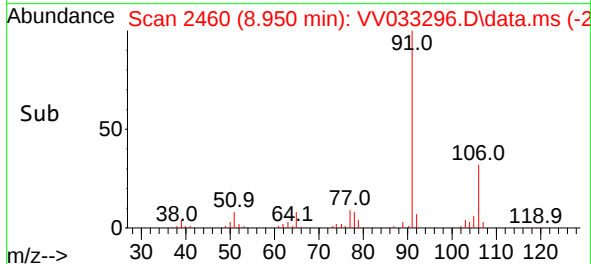
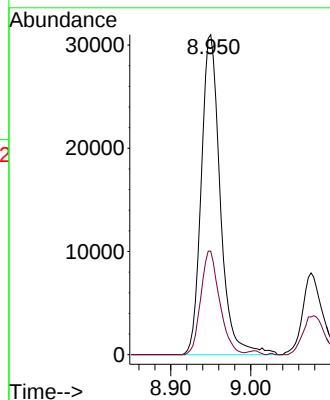
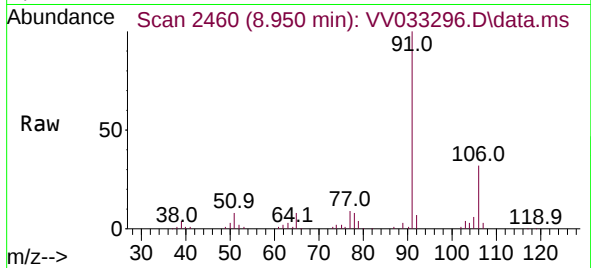




#52
Ethylbenzene
Concen: 1.208 ug/L
RT: 8.950 min Scan# 2459
Delta R.T. 0.003 min
Lab File: VV033296.D
Acq: 13 Dec 2023 23:08

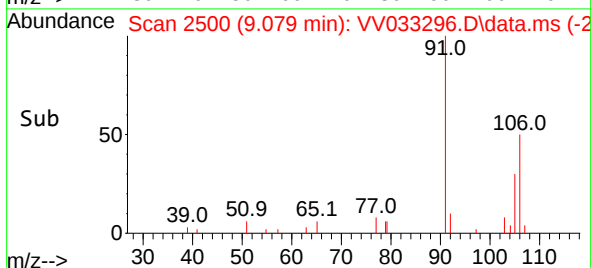
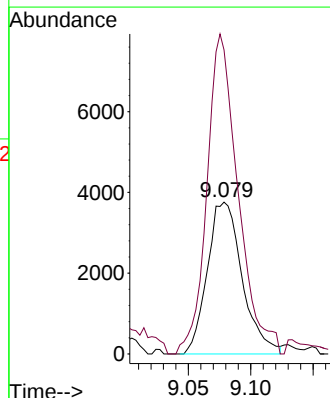
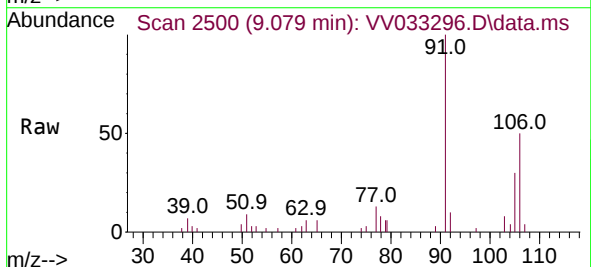
Instrument :
MSVOA_V
ClientSampleId :
E0Y68

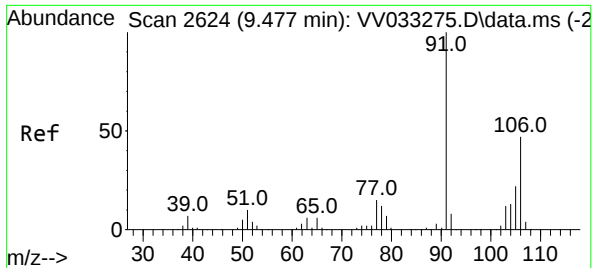
Tgt Ion: 91 Resp: 51209
Ion Ratio Lower Upper
91 100
106 32.4 22.7 42.3



#53
m,p-Xylene
Concen: 0.420 ug/L
RT: 9.079 min Scan# 2500
Delta R.T. 0.006 min
Lab File: VV033296.D
Acq: 13 Dec 2023 23:08

Tgt Ion: 106 Resp: 7329
Ion Ratio Lower Upper
106 100
91 200.1 136.8 254.0

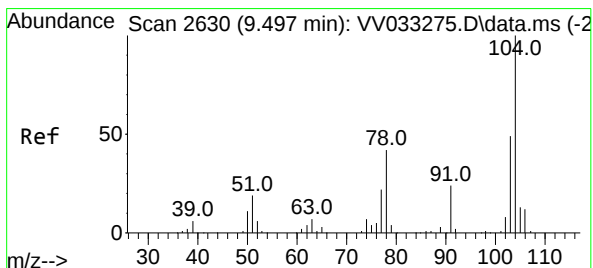
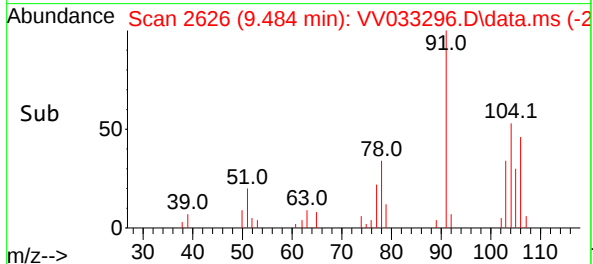
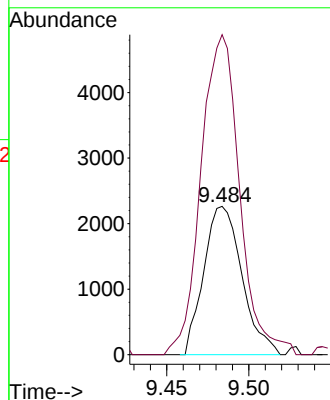
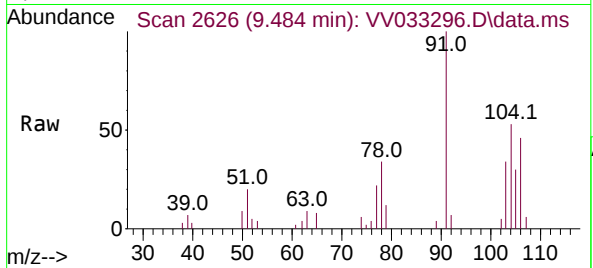




#54
o-Xylene
Concen: 0.222 ug/L
RT: 9.484 min Scan# 2624
Delta R.T. 0.006 min
Lab File: VV033296.D
Acq: 13 Dec 2023 23:08

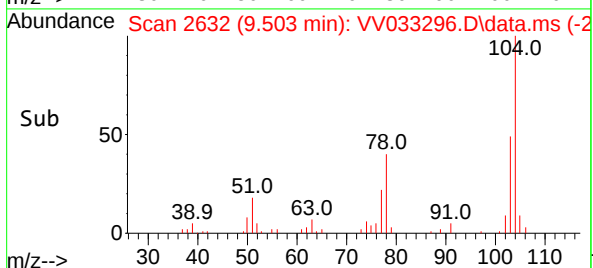
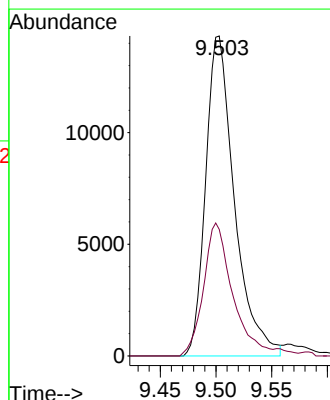
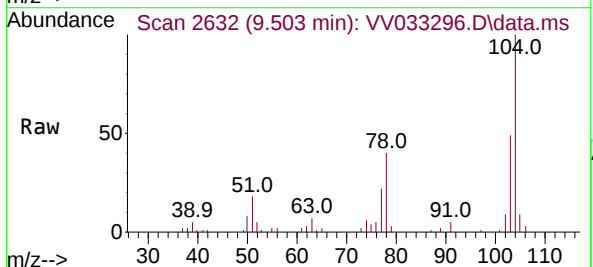
Instrument :
MSVOA_V
ClientSampleId :
E0Y68

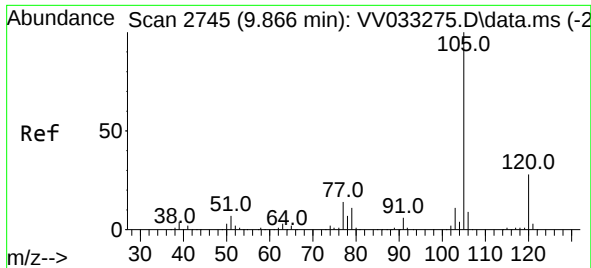
Tgt Ion:106 Resp: 3662
Ion Ratio Lower Upper
106 100
91 215.8 149.9 278.5



#55
Styrene
Concen: 0.950 ug/L
RT: 9.503 min Scan# 2632
Delta R.T. 0.006 min
Lab File: VV033296.D
Acq: 13 Dec 2023 23:08

Tgt Ion:104 Resp: 25760
Ion Ratio Lower Upper
104 100
78 39.6 29.9 55.5

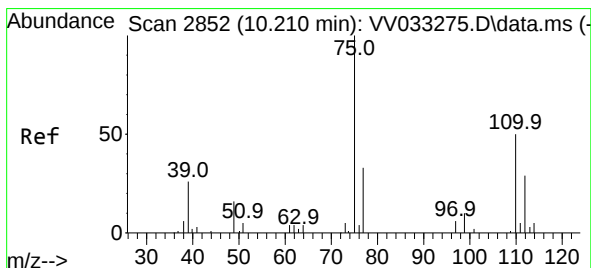
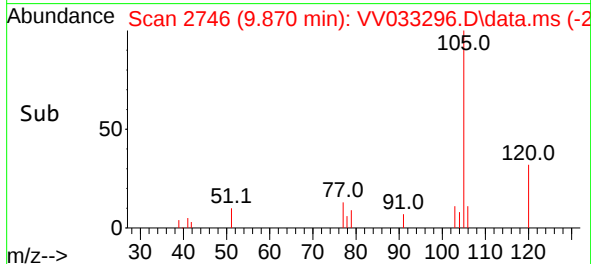
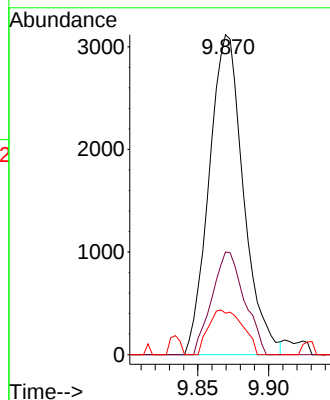
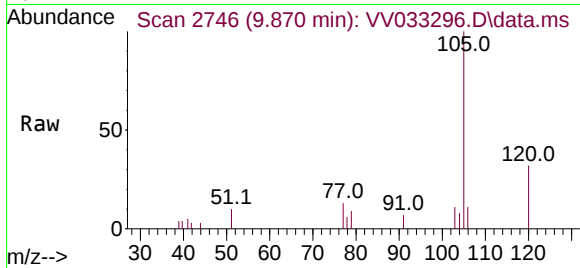




#60
Isopropylbenzene
Concen: 0.130 ug/L
RT: 9.870 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV033296.D
Acq: 13 Dec 2023 23:08

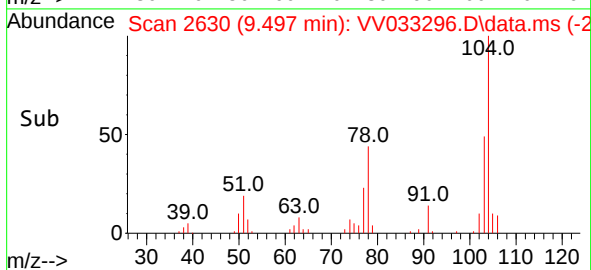
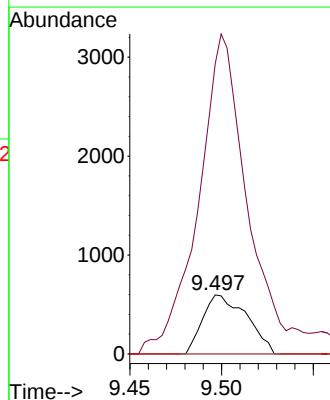
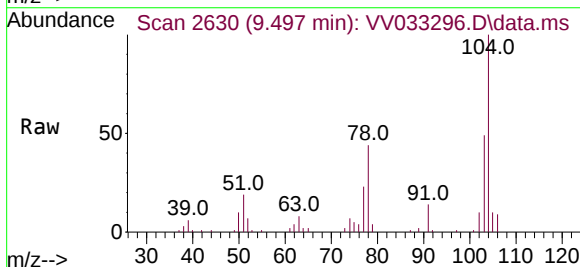
Instrument :
MSVOA_V
ClientSampleId :
E0Y68

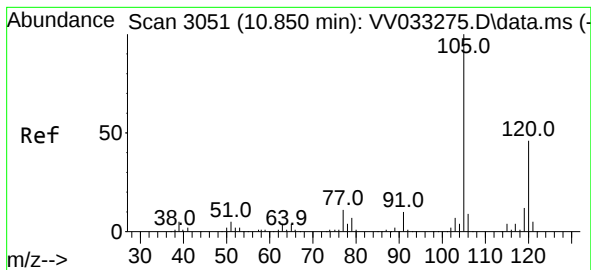
Tgt Ion:	105	Resp:	5248
Ion	Ratio	Lower	Upper
105	100		
120	30.3	22.2	33.4
77	13.8	11.6	17.4



#61
1,2,3-Trichloropropane
Concen: 0.309 ug/L
RT: 9.497 min Scan# 2630
Delta R.T. -0.714 min
Lab File: VV033296.D
Acq: 13 Dec 2023 23:08

Tgt Ion:	75	Resp:	995
Ion	Ratio	Lower	Upper
75	100		
77	606.9	27.4	41.2#
110	0.0	39.4	59.2#





#63

1,2,4-Trimethylbenzene

Concen: 0.321 ug/L

RT: 10.857 min Scan# 3051

Delta R.T. 0.006 min

Lab File: VV033296.D

Acq: 13 Dec 2023 23:08

Instrument :

MSVOA_V

ClientSampleId :

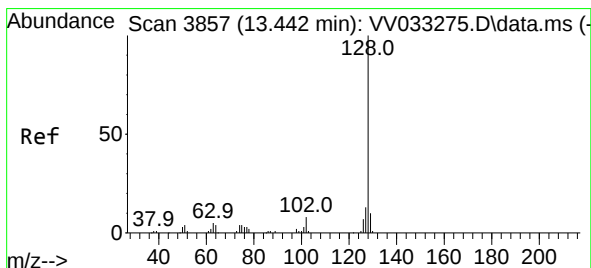
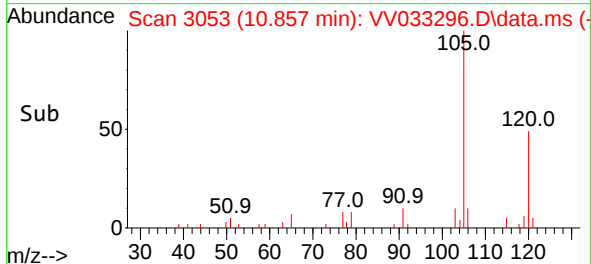
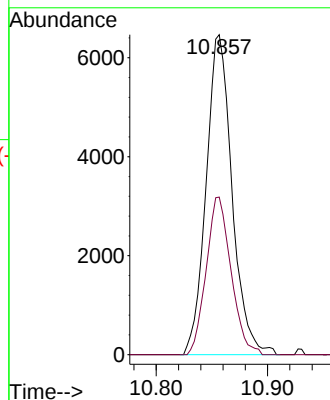
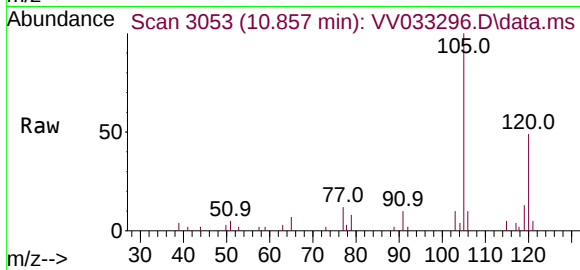
E0Y68

Tgt Ion:105 Resp: 10466

Ion Ratio Lower Upper

105 100

120 47.2 38.1 57.1



#71

Naphthalene

Concen: 0.347 ug/L

RT: 13.448 min Scan# 3859

Delta R.T. 0.006 min

Lab File: VV033296.D

Acq: 13 Dec 2023 23:08

Tgt Ion:128 Resp: 5062

Ion Ratio Lower Upper

128 100

129 13.4 8.8 13.2#

127 12.9 10.1 15.1

