

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092724\
 Data File : VV037596.D
 Acq On : 27 Sep 2024 11:16
 Operator : SY/MD
 Sample : P4185-06
 Misc : 5mL/MSVOA_V/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Sep 27 23:46:59 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM092624WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Sep 27 23:45:04 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.529	114	620128	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.780	117	603107	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.178	152	315505	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.278	65	238045	43.728	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	87.460%
7) Chloroethane-d5	1.532	69	191281	45.268	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	90.540%
11) 1,1-Dichloroethene-d2	2.060	65	102199	44.936	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	89.880%
21) 2-Butanone-d5	3.789	46	190419	98.207	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	98.210%
24) Chloroform-d	4.243	84	435495	44.966	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.940%
26) 1,2-Dichloroethane-d4	4.937	65	255631	45.093	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.180%
32) Benzene-d6	4.953	84	856262	45.371	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.740%
36) 1,2-Dichloropropane-d6	5.985	67	273524	45.515	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	91.020%
41) Toluene-d8	7.236	98	766259	44.777	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	89.560%
43) trans-1,3-Dichloroprop...	7.548	79	122110	43.741	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	87.480%
47) 2-Hexanone-d5	8.024	63	109369	86.187	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	86.190%
56) 1,1,2,2-Tetrachloroeth...	10.146	84	315300	45.155	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	90.300%
66) 1,2-Dichlorobenzene-d4	11.554	152	313513	47.157	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.320%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.285	62	266732	48.544	ug/L	99
8) Chloroethane	1.548	64	173677	51.283	ug/L	100
10) 1,1,2-Trichloro-1,2,2-...	2.060	101	3268	0.739	ug/L #	24
12) 1,1-Dichloroethene	2.069	96	73743	17.862	ug/L #	41
17) trans-1,2-Dichloroethene	2.690	96	42697	9.776	ug/L	99
19) 1,1-Dichloroethane	3.105	63	5706675	681.955	ug/L	99
20) cis-1,2-Dichloroethene	3.805	96	6962211	1424.484	ug/L	99
27) 1,2-Dichloroethane	5.047	62	25435	4.158	ug/L	99
30) 1,1,1-Trichloroethane	4.503	97	3481752	468.730	ug/L	99
31) Carbon tetrachloride	4.503	117	454266	70.341	ug/L	99
33) Benzene	5.014	78	24361	1.339	ug/L	100
34) Trichloroethene	5.831	95	59663	12.317	ug/L	98
35) Methylcyclohexane	5.985	83	64450	8.649	ug/L #	20
39) cis-1,3-Dichloropropene	6.908	75	7651	1.020	ug/L #	68
42) Toluene	7.313	91	261621	13.874	ug/L	98
46) Tetrachloroethene	7.902	164	51286	13.848	ug/L	97
48) 2-Hexanone	8.024	43	13510	4.543	ug/L #	65
52) Ethylbenzene	8.944	91	101805	4.796	ug/L	98
53) m,p-Xylene	9.069	106	95848	12.133	ug/L	99

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Quant Title : VOC Analysis
QLast Update : Fri Sep 27 23:45:04 2024
Response via : Initial Calibration

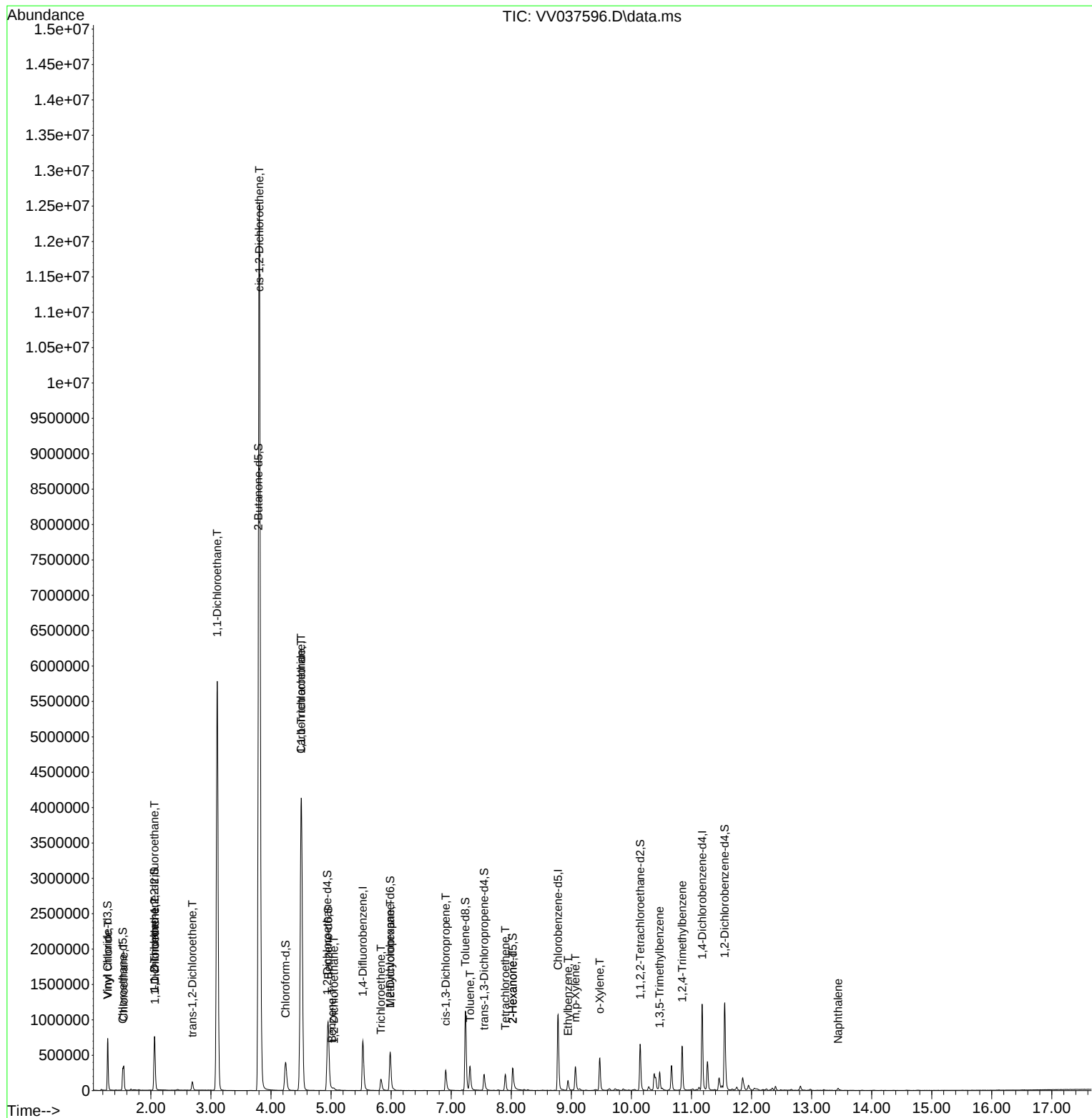
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	9.474	106	124665	16.165	ug/L	96
62) 1,3,5-Trimethylbenzene	10.471	105	131697	8.121	ug/L	98
63) 1,2,4-Trimethylbenzene	10.847	105	339580	21.045	ug/L	99
71) Naphthalene	13.442	128	25805	1.568	ug/L #	94

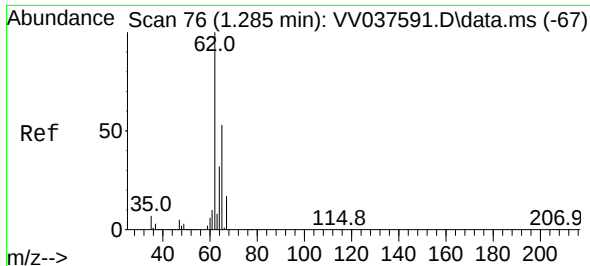
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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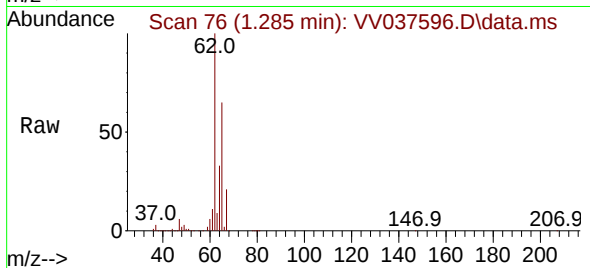


#5
 Vinyl chloride
 Concen: 48.544 ug/L
 RT: 1.285 min Scan# 76
 Delta R.T. 0.000 min
 Lab File: VV037596.D
 Acq: 27 Sep 2024 11:16

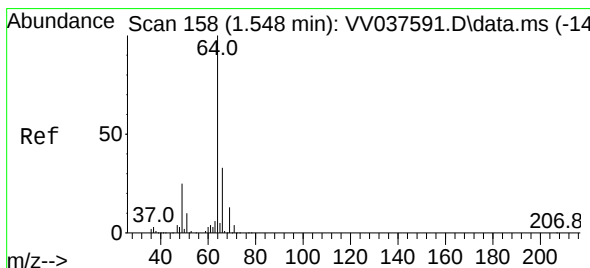
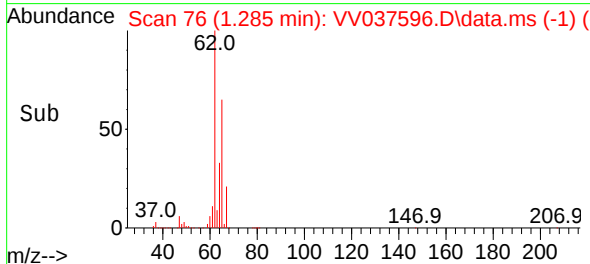
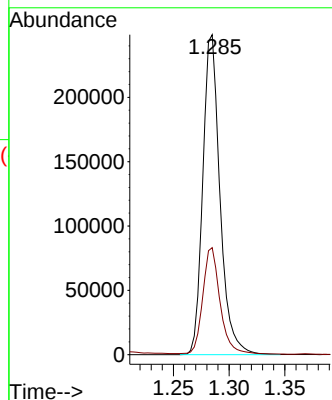
Instrument :

MSVOA_V

ClientSampleId :

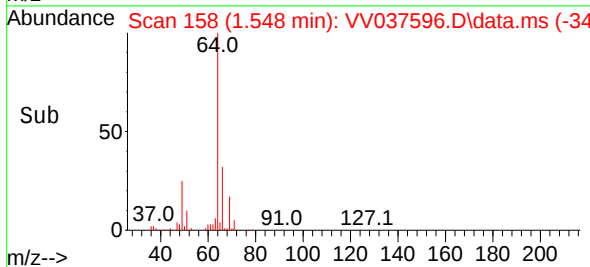
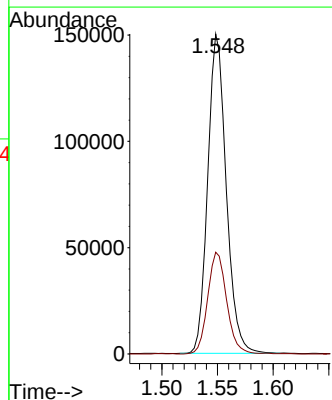
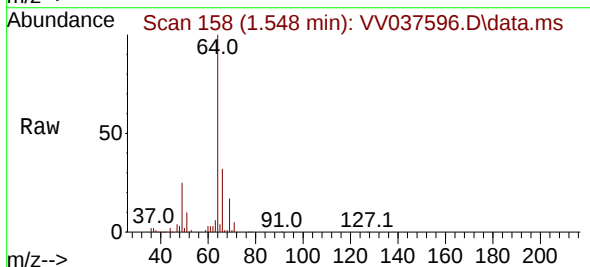


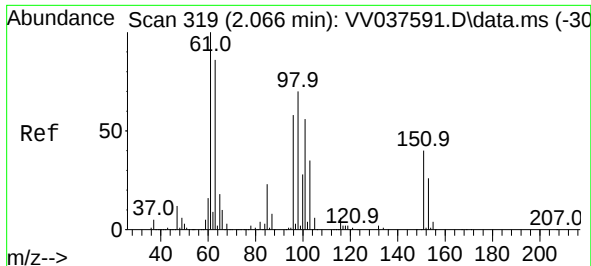
Tgt Ion: 62 Resp: 266732
 Ion Ratio Lower Upper
 62 100
 64 33.5 23.2 43.0



#8
 Chloroethane
 Concen: 51.283 ug/L
 RT: 1.548 min Scan# 158
 Delta R.T. 0.000 min
 Lab File: VV037596.D
 Acq: 27 Sep 2024 11:16

Tgt Ion: 64 Resp: 173677
 Ion Ratio Lower Upper
 64 100
 66 31.8 22.2 41.2

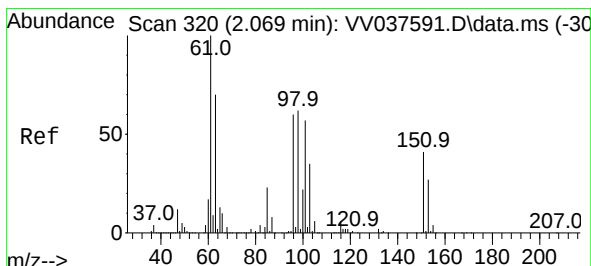
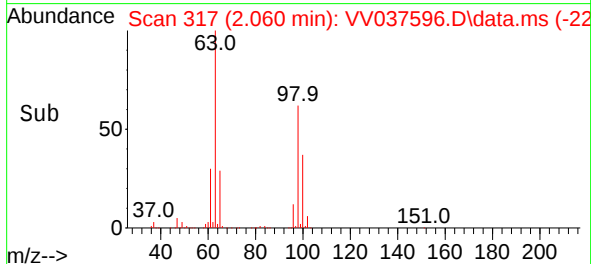
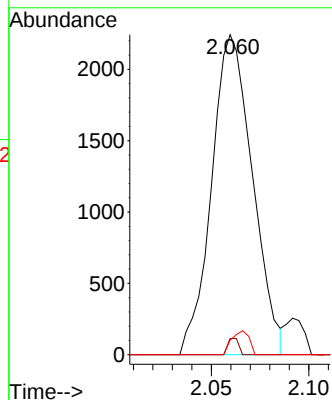
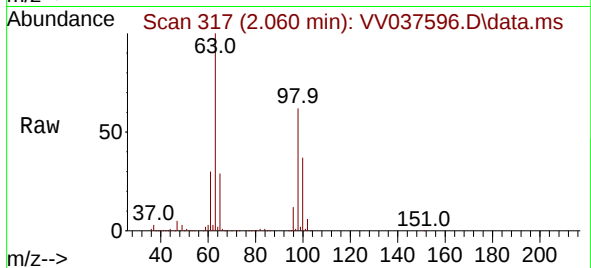




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.739 ug/L
RT: 2.060 min Scan# 319
Delta R.T. -0.006 min
Lab File: VV037596.D
Acq: 27 Sep 2024 11:16

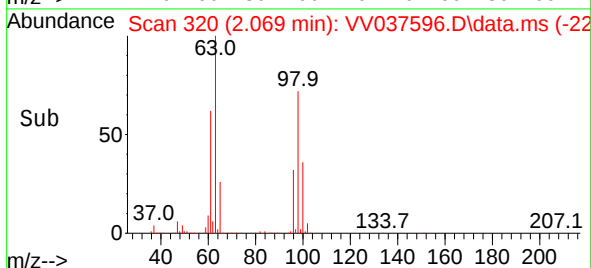
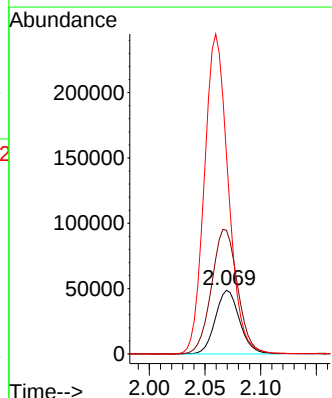
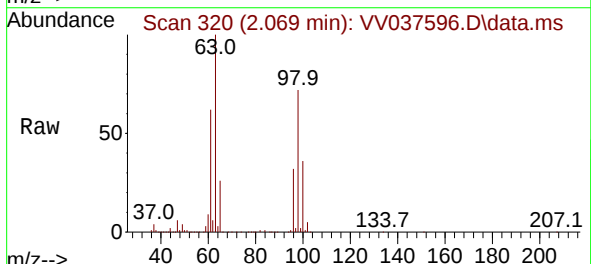
Instrument :
MSVOA_V
ClientSampleId :

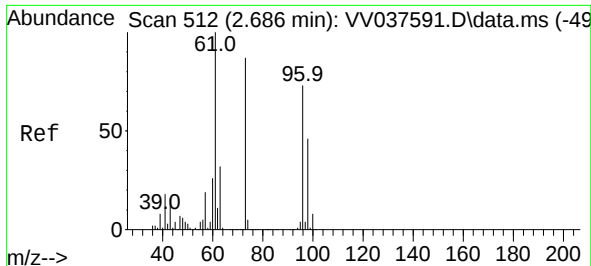
Tgt Ion:101 Resp: 3268
Ion Ratio Lower Upper
101 100
85 1.3 34.6 52.0#
151 3.2 57.5 86.3#



#12
1,1-Dichloroethene
Concen: 17.862 ug/L
RT: 2.069 min Scan# 320
Delta R.T. 0.000 min
Lab File: VV037596.D
Acq: 27 Sep 2024 11:16

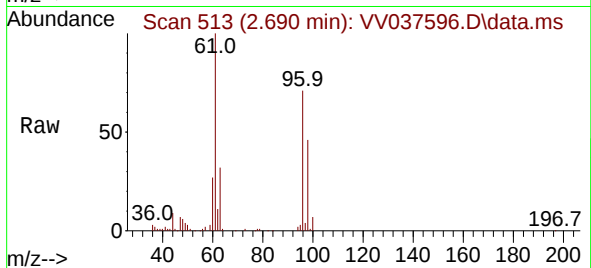
Tgt Ion: 96 Resp: 73743
Ion Ratio Lower Upper
96 100
61 194.2 122.6 227.6
63 313.5 118.0 219.2#



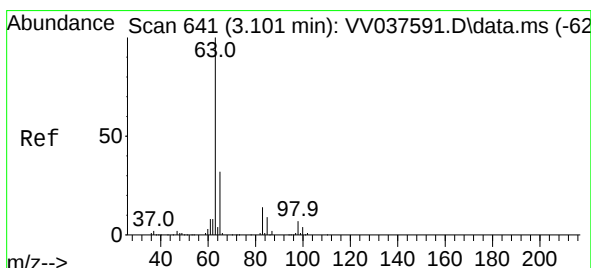
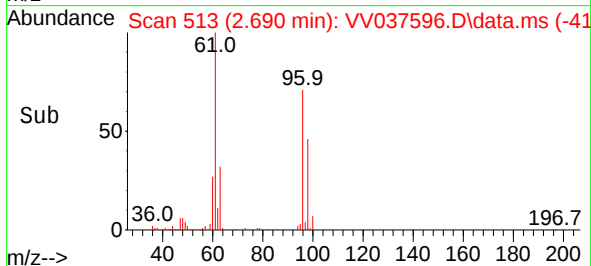
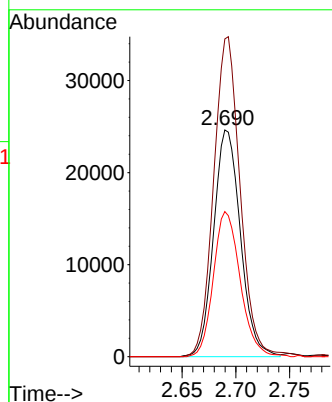


#17
trans-1,2-Dichloroethene
Concen: 9.776 ug/L
RT: 2.690 min Scan# 512
Delta R.T. 0.003 min
Lab File: VV037596.D
Acq: 27 Sep 2024 11:16

Instrument :
MSVOA_V
ClientSampleId :

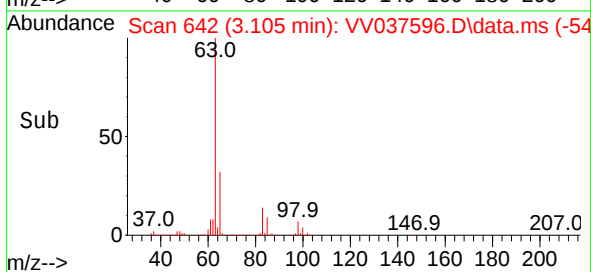
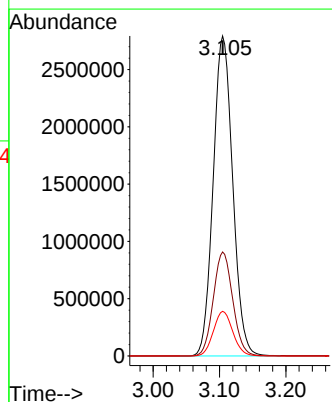
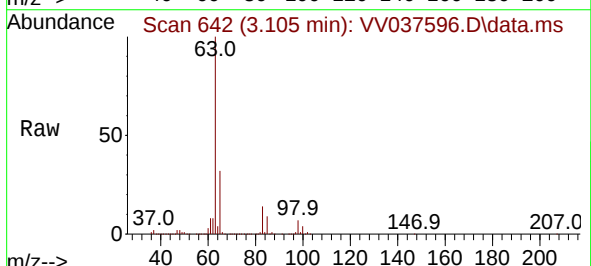


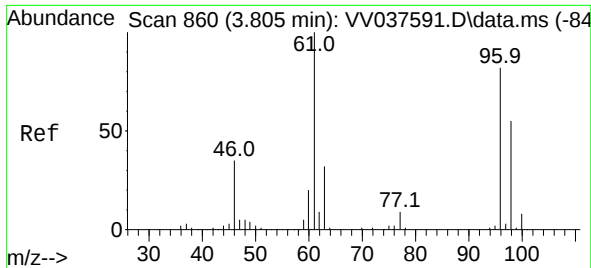
Tgt Ion: 96 Resp: 42697
Ion Ratio Lower Upper
96 100
61 140.1 97.3 180.7
98 64.0 43.9 81.5



#19
1,1-Dichloroethane
Concen: 681.955 ug/L
RT: 3.105 min Scan# 642
Delta R.T. 0.003 min
Lab File: VV037596.D
Acq: 27 Sep 2024 11:16

Tgt Ion: 63 Resp: 5706675
Ion Ratio Lower Upper
63 100
65 32.5 22.4 41.6
83 13.9 9.5 17.7

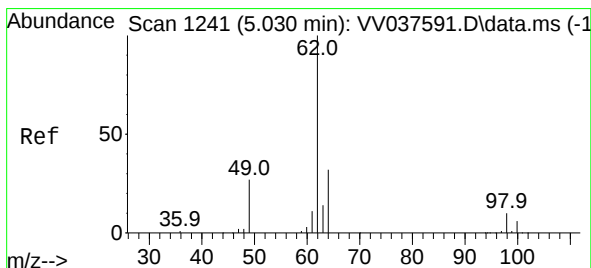
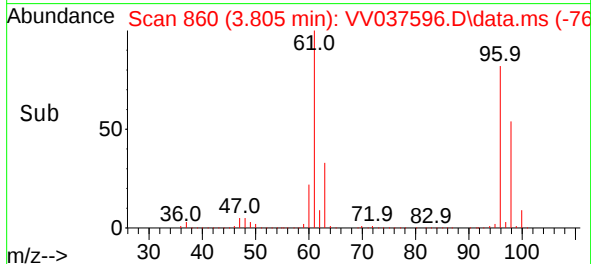
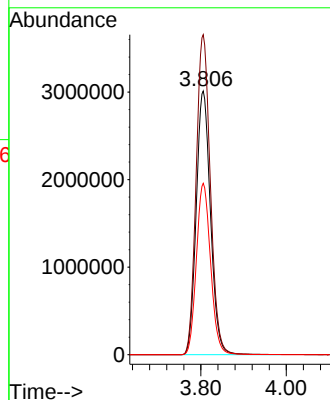
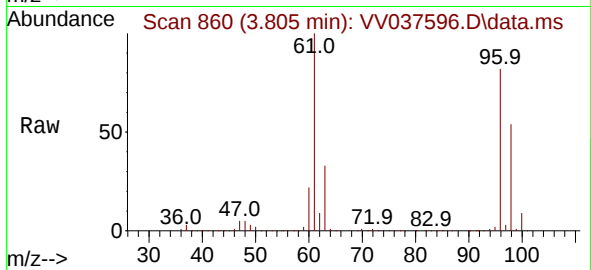




#20
 cis-1,2-Dichloroethene
 Concen: 1424.484 ug/L
 RT: 3.805 min Scan# 860
 Delta R.T. 0.000 min
 Lab File: VV037596.D
 Acq: 27 Sep 2024 11:16

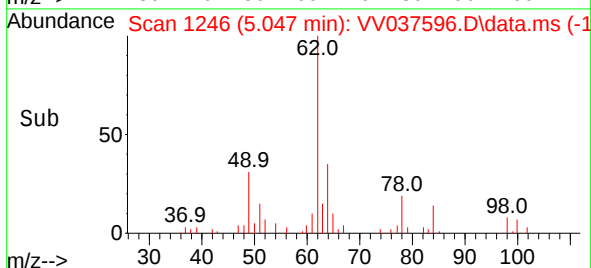
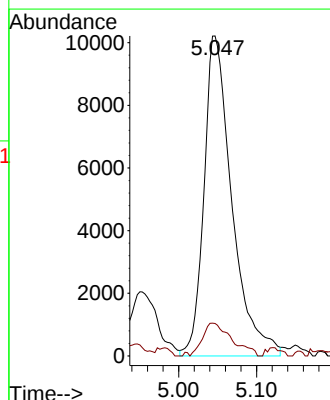
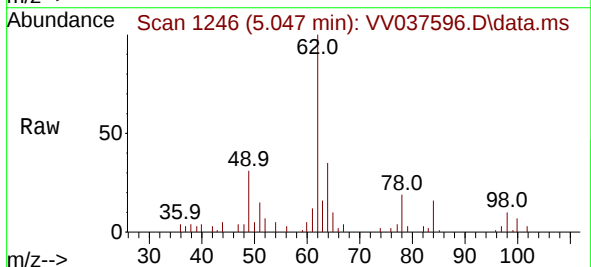
Instrument :
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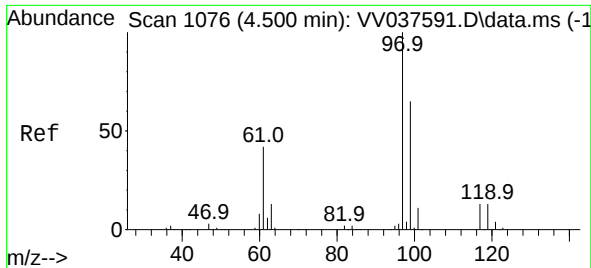
Tgt Ion: 96 Resp: 6962211
 Ion Ratio Lower Upper
 96 100
 61 121.3 85.0 157.8
 98 65.0 44.2 82.0



#27
 1,2-Dichloroethane
 Concen: 4.158 ug/L
 RT: 5.047 min Scan# 1246
 Delta R.T. 0.016 min
 Lab File: VV037596.D
 Acq: 27 Sep 2024 11:16

Tgt Ion: 62 Resp: 25435
 Ion Ratio Lower Upper
 62 100
 98 10.2 8.4 12.6





#30

1,1,1-Trichloroethane

Concen: 468.730 ug/L

RT: 4.503 min Scan# 1076

Delta R.T. 0.003 min

Lab File: VV037596.D

Acq: 27 Sep 2024 11:16

Instrument :

MSVOA_V

ClientSampleId :

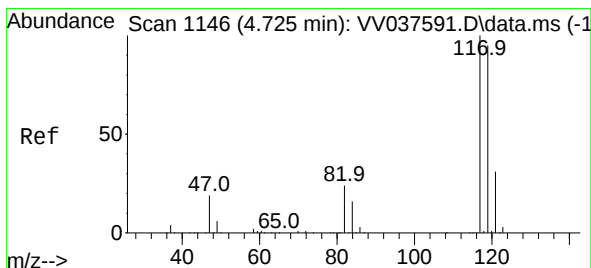
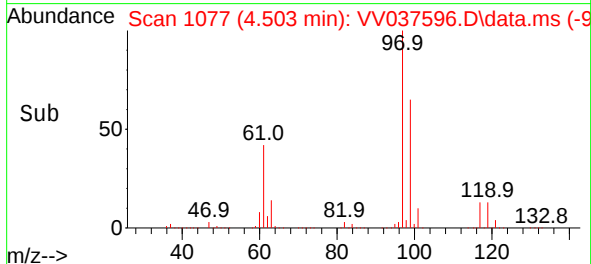
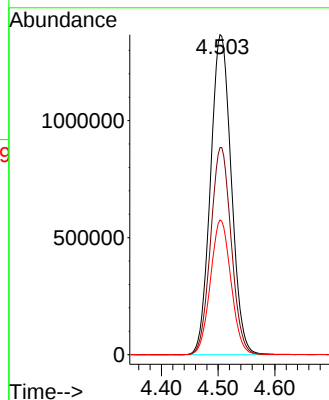
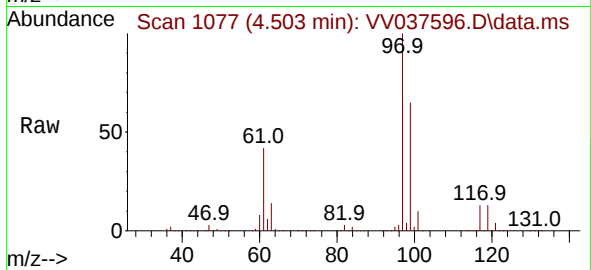
Tgt Ion: 97 Resp: 3481752

Ion Ratio Lower Upper

97 100

99 64.3 51.8 77.6

61 41.6 33.6 50.4



#31

Carbon tetrachloride

Concen: 70.341 ug/L

RT: 4.503 min Scan# 1077

Delta R.T. -0.222 min

Lab File: VV037596.D

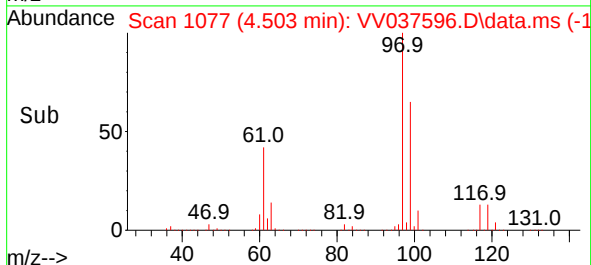
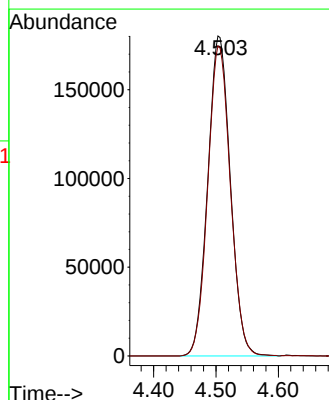
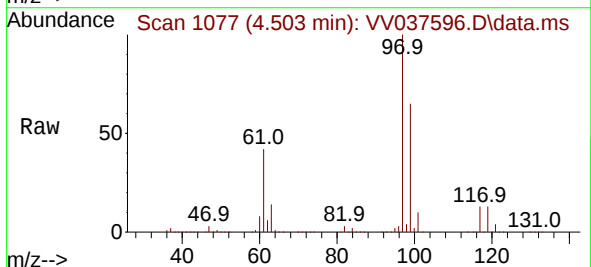
Acq: 27 Sep 2024 11:16

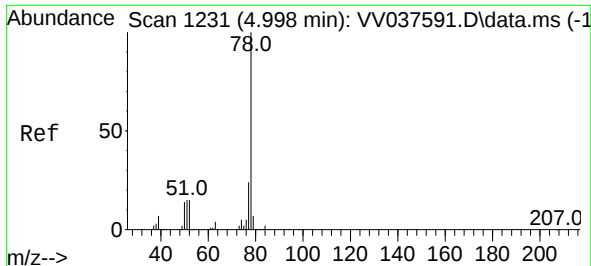
Tgt Ion:117 Resp: 454266

Ion Ratio Lower Upper

117 100

119 97.1 76.9 115.3

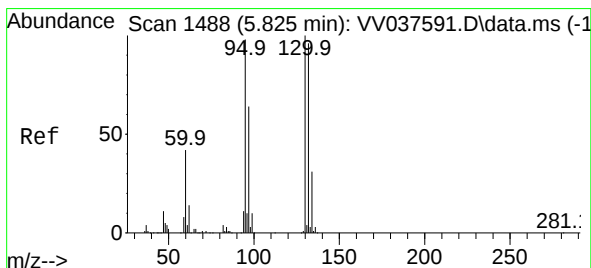
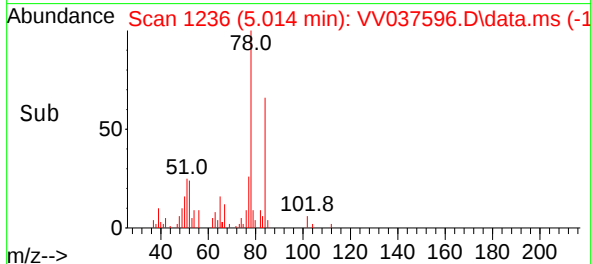
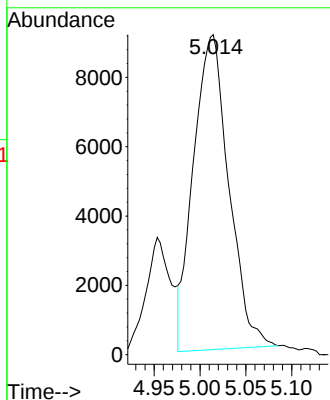
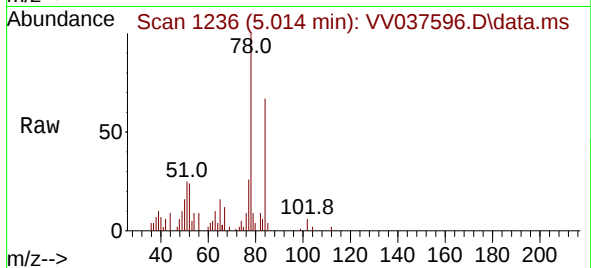




#33
Benzene
Concen: 1.339 ug/L
RT: 5.014 min Scan# 1490
Delta R.T. 0.016 min
Lab File: VV037596.D
Acq: 27 Sep 2024 11:16

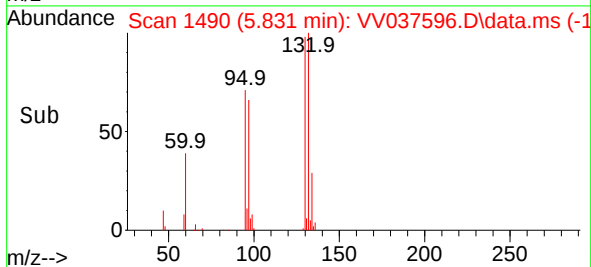
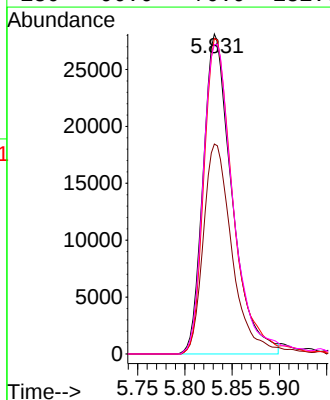
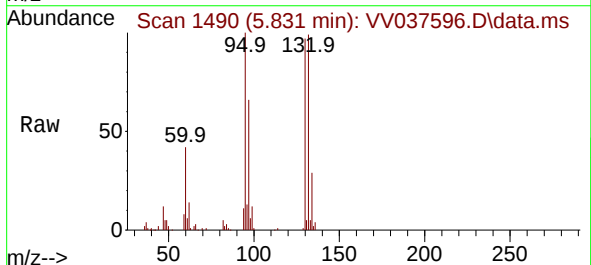
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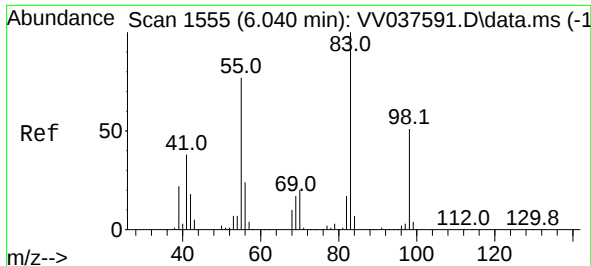
Tgt Ion: 78 Resp: 24361



#34
Trichloroethene
Concen: 12.317 ug/L
RT: 5.831 min Scan# 1490
Delta R.T. 0.007 min
Lab File: VV037596.D
Acq: 27 Sep 2024 11:16

Tgt Ion: 95 Resp: 59663
Ion Ratio Lower Upper
95 100
97 65.6 46.3 85.9
132 98.6 68.6 127.4
130 96.6 70.9 131.7





#35

Methylcyclohexane

Concen: 8.649 ug/L

RT: 5.985 min Scan# 1538

Delta R.T. -0.055 min

Lab File: VV037596.D

Acq: 27 Sep 2024 11:16

Instrument :

MSVOA_V

ClientSampleId :

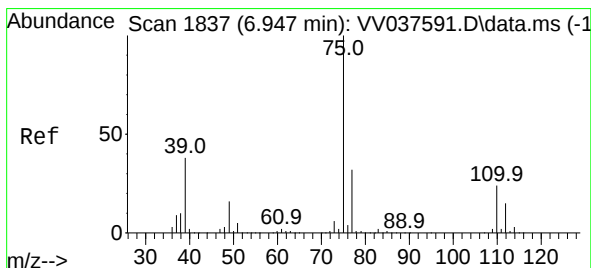
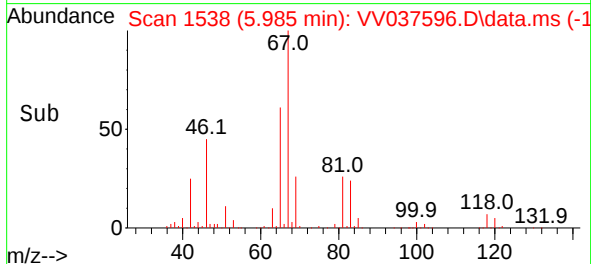
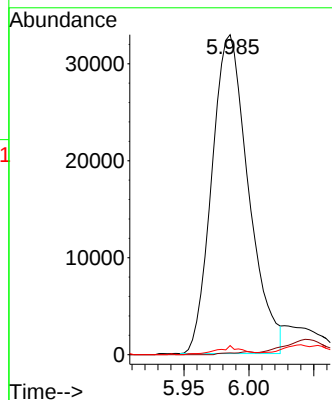
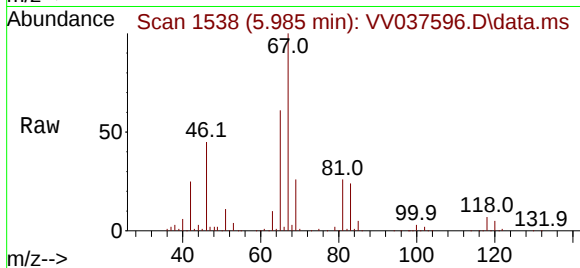
Tgt Ion: 83 Resp: 64450

Ion Ratio Lower Upper

83 100

55 0.2 57.9 86.9#

98 0.2 39.3 58.9#



#39

cis-1,3-Dichloropropene

Concen: 1.020 ug/L

RT: 6.908 min Scan# 1825

Delta R.T. -0.038 min

Lab File: VV037596.D

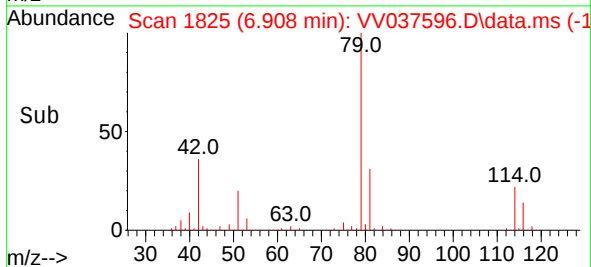
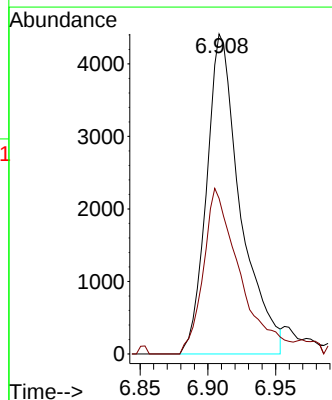
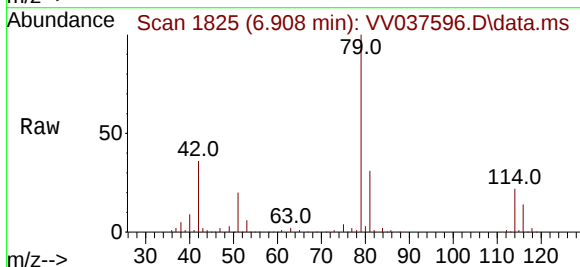
Acq: 27 Sep 2024 11:16

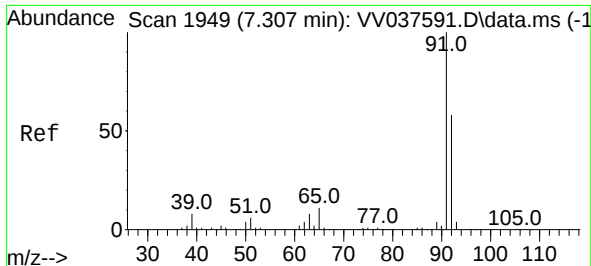
Tgt Ion: 75 Resp: 7651

Ion Ratio Lower Upper

75 100

77 48.6 21.8 40.4#





#42

Toluene

Concen: 13.874 ug/L

RT: 7.313 min Scan# 1951

Delta R.T. 0.007 min

Lab File: VV037596.D

Acq: 27 Sep 2024 11:16

Instrument :

MSVOA_V

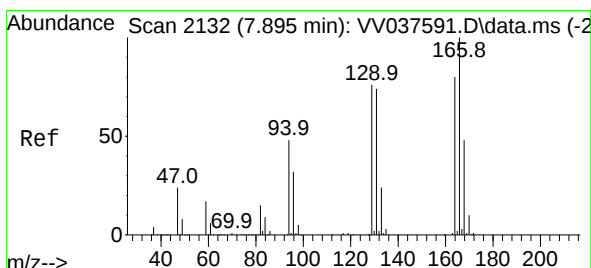
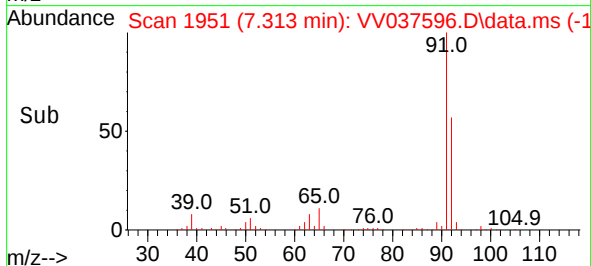
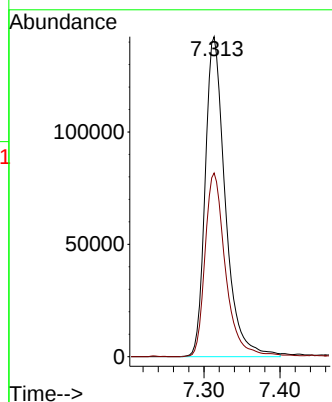
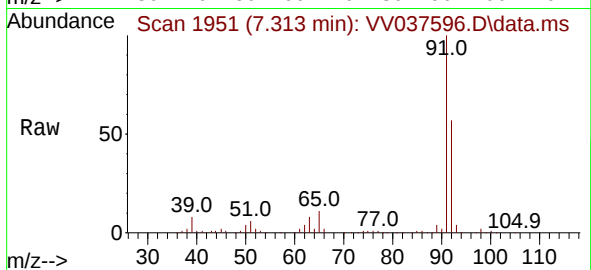
ClientSampleId :

Tgt Ion: 91 Resp: 261621

Ion Ratio Lower Upper

91 100

92 57.4 41.1 76.3



#46

Tetrachloroethene

Concen: 13.848 ug/L

RT: 7.902 min Scan# 2134

Delta R.T. 0.007 min

Lab File: VV037596.D

Acq: 27 Sep 2024 11:16

Tgt Ion:164 Resp: 51286

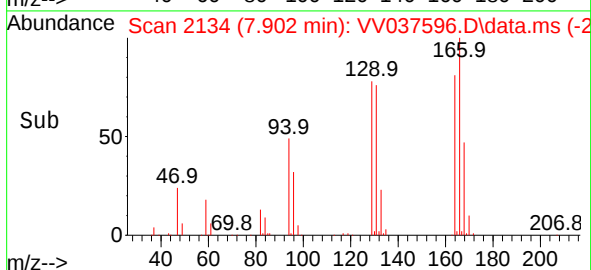
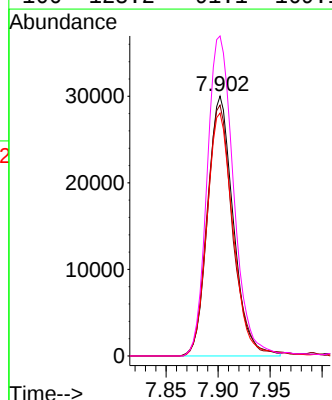
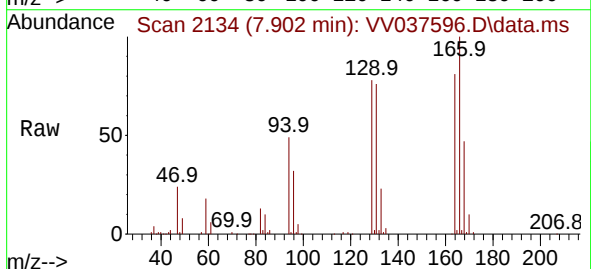
Ion Ratio Lower Upper

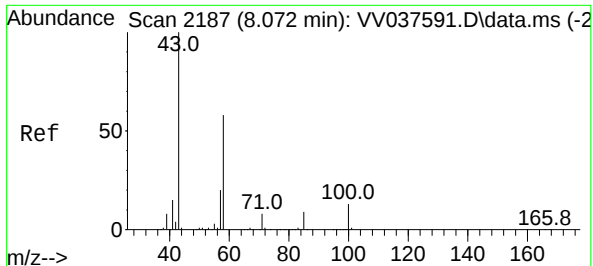
164 100

129 96.6 68.2 126.6

131 93.5 66.1 122.8

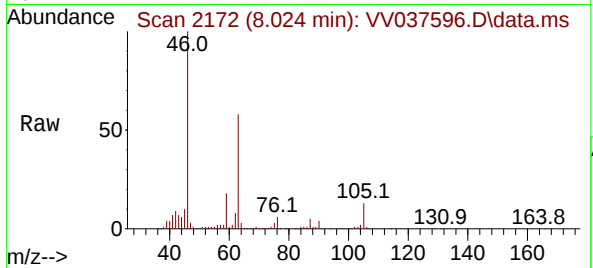
166 123.2 91.1 169.1



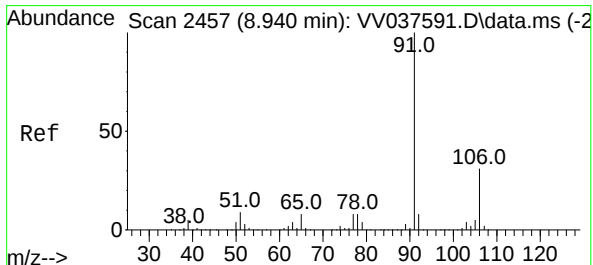
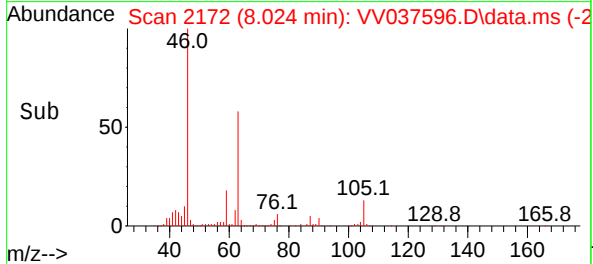
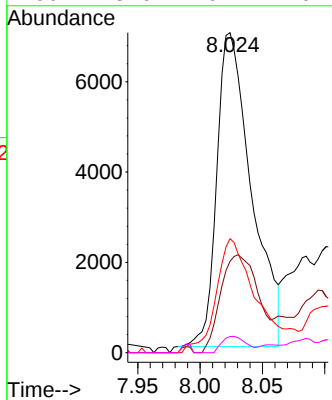


#48
2-Hexanone
Concen: 4.543 ug/L
RT: 8.024 min Scan# 2187
Delta R.T. -0.048 min
Lab File: VV037596.D
Acq: 27 Sep 2024 11:16

Instrument :
MSVOA_V
ClientSampleId :

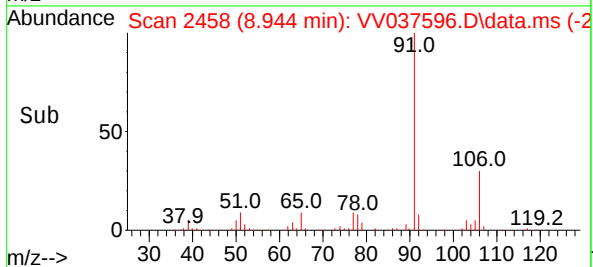
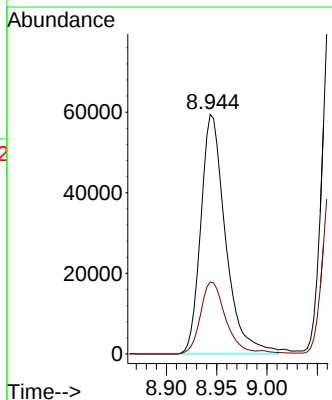
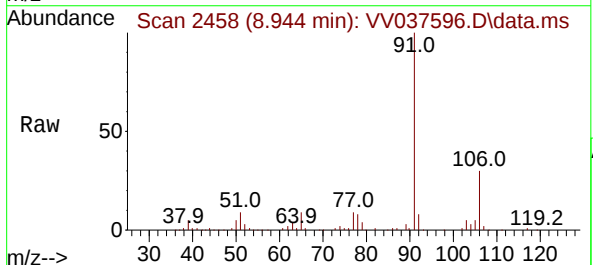


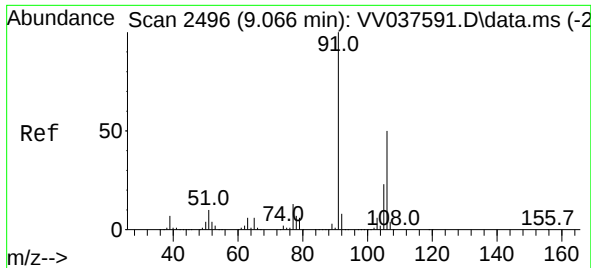
Tgt Ion: 43 Resp: 13510
Ion Ratio Lower Upper
43 100
58 33.4 46.5 69.7#
57 41.1 15.1 22.7#
100 3.6 10.7 16.1#



#52
Ethylbenzene
Concen: 4.796 ug/L
RT: 8.944 min Scan# 2458
Delta R.T. 0.003 min
Lab File: VV037596.D
Acq: 27 Sep 2024 11:16

Tgt Ion: 91 Resp: 101805
Ion Ratio Lower Upper
91 100
106 30.0 21.9 40.7





#53

m,p-Xylene

Concen: 12.133 ug/L

RT: 9.069 min Scan# 2496

Delta R.T. 0.003 min

Lab File: VV037596.D

Acq: 27 Sep 2024 11:16

Instrument :

MSVOA_V

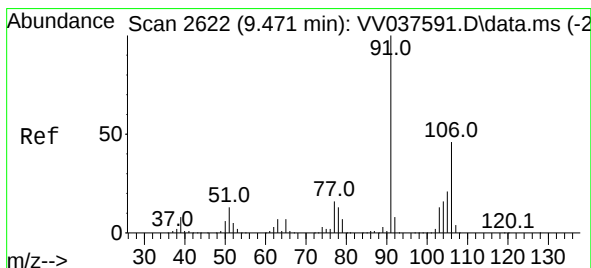
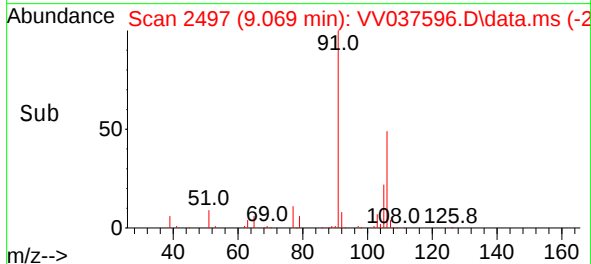
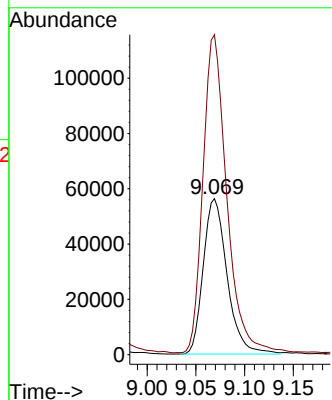
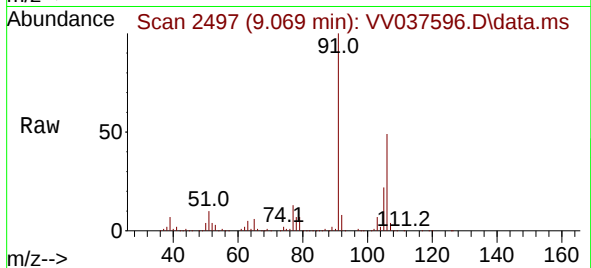
ClientSampleId :

Tgt Ion:106 Resp: 95848

Ion Ratio Lower Upper

106 100

91 205.0 142.0 263.6



#54

o-Xylene

Concen: 16.165 ug/L

RT: 9.474 min Scan# 2623

Delta R.T. 0.003 min

Lab File: VV037596.D

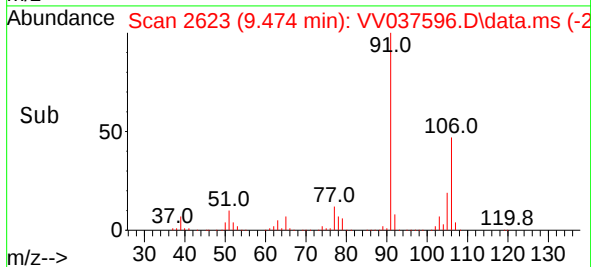
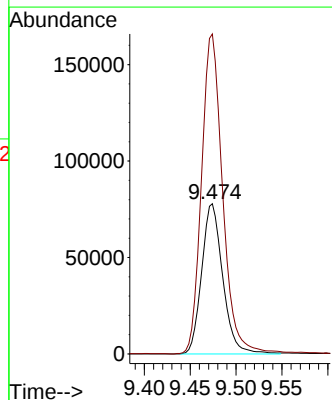
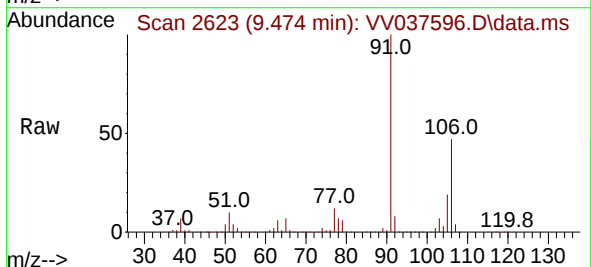
Acq: 27 Sep 2024 11:16

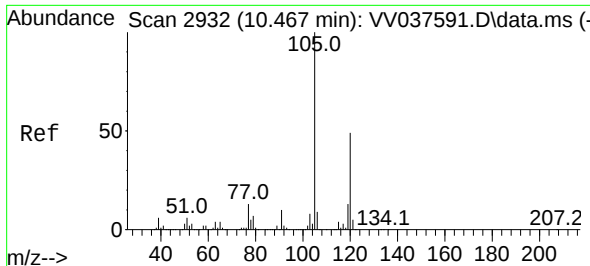
Tgt Ion:106 Resp: 124665

Ion Ratio Lower Upper

106 100

91 213.0 153.9 285.9





#62

1,3,5-Trimethylbenzene

Concen: 8.121 ug/L

RT: 10.471 min Scan# 20

Delta R.T. 0.003 min

Lab File: VV037596.D

Acq: 27 Sep 2024 11:16

Instrument :

MSVOA_V

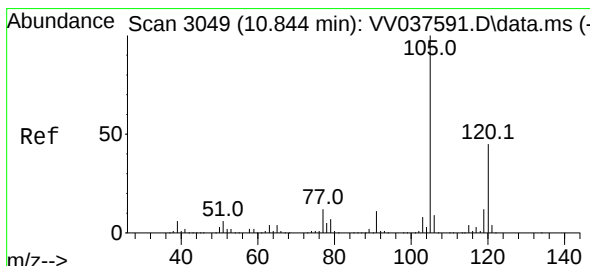
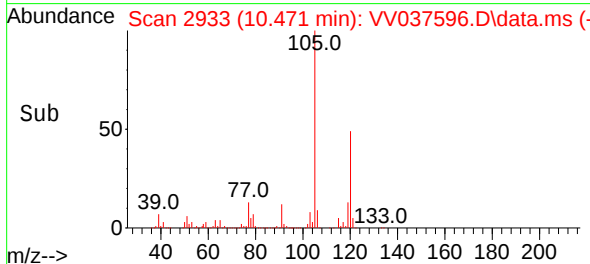
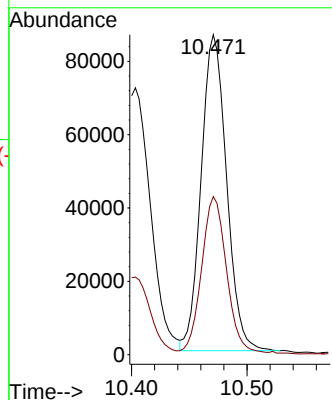
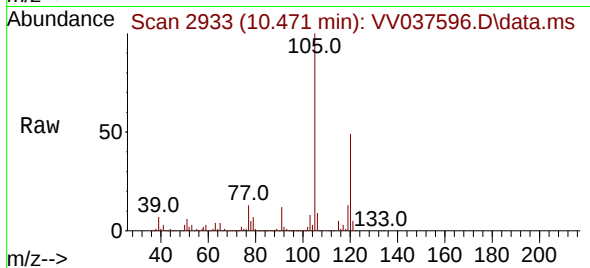
ClientSampleId :

Tgt Ion:105 Resp: 131697

Ion Ratio Lower Upper

105 100

120 48.0 39.3 58.9



#63

1,2,4-Trimethylbenzene

Concen: 21.045 ug/L

RT: 10.847 min Scan# 3050

Delta R.T. 0.003 min

Lab File: VV037596.D

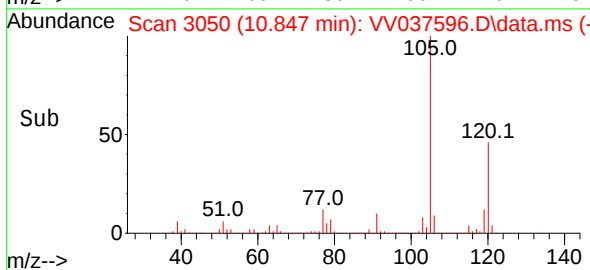
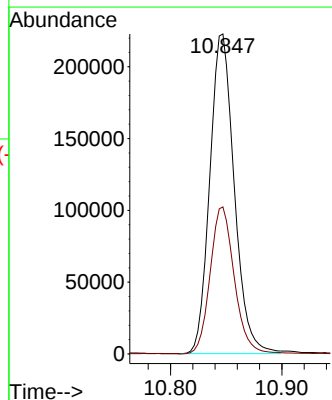
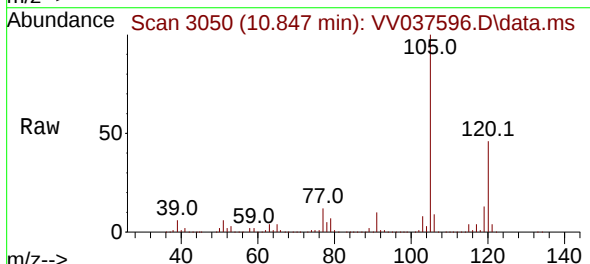
Acq: 27 Sep 2024 11:16

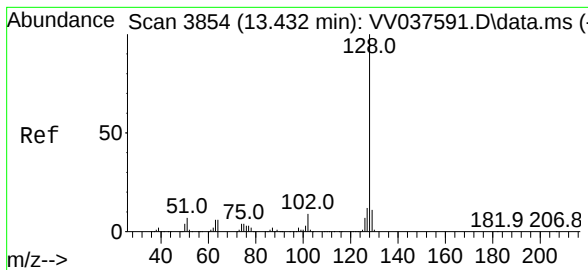
Tgt Ion:105 Resp: 339580

Ion Ratio Lower Upper

105 100

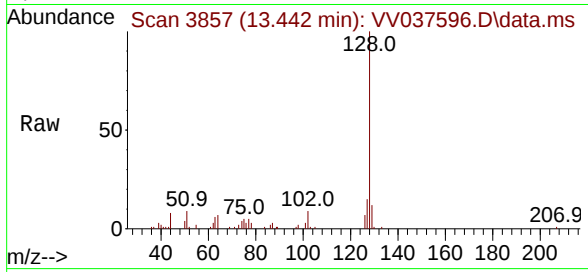
120 45.7 36.2 54.2





#71
 Naphthalene
 Concen: 1.568 ug/L
 RT: 13.442 min Scan# 3857
 Delta R.T. 0.010 min
 Lab File: VV037596.D
 Acq: 27 Sep 2024 11:16

Instrument :
 MSVOA_V
 ClientSampleId :



Tgt Ion:128 Resp: 25805
 Ion Ratio Lower Upper
 128 100
 127 14.9 10.2 15.4
 129 13.1 8.5 12.7#

