

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092624\
 Data File : VV037562.D
 Acq On : 26 Sep 2024 20:26
 Operator : SY/MD
 Sample : P4184-14
 Misc : 5mL/MSVOA_V/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Sep 27 00:55:58 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM092624WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Sep 27 00:49:09 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.529	114	690045	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.779	117	667757	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.178	152	362213	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.278	65	273502	45.151	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery =	90.300%		
7) Chloroethane-d5	1.532	69	205416	43.688	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	87.380%		
11) 1,1-Dichloroethene-d2	2.059	65	110726	43.752	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	87.500%		
21) 2-Butanone-d5	3.809	46	223708	103.685	ug/L	0.02
Spiked Amount 100.000	Range 40 - 130		Recovery =	103.690%		
24) Chloroform-d	4.243	84	448498	41.616	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	83.240%		
26) 1,2-Dichloroethane-d4	4.937	65	270130	42.823	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	85.640%		
32) Benzene-d6	4.953	84	913460	43.716	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	87.440%		
36) 1,2-Dichloropropane-d6	5.982	67	290364	43.639	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery =	87.280%		
41) Toluene-d8	7.239	98	830485	43.831	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	87.660%		
43) trans-1,3-Dichloroprop...	7.548	79	133134	43.073	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	86.140%		
47) 2-Hexanone-d5	8.024	63	136566	97.200	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery =	97.200%		
56) 1,1,2,2-Tetrachloroeth...	10.146	84	346832	44.862	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery =	89.720%		
66) 1,2-Dichlorobenzene-d4	11.554	152	341111	44.692	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	89.380%		
Target Compounds						Qvalue
5) Vinyl chloride	1.285	62	1517628	248.215	ug/L	99
8) Chloroethane	1.548	64	661438	175.517	ug/L	98
10) 1,1,2-Trichloro-1,2,2-...	2.059	101	4384	0.891	ug/L #	29
12) 1,1-Dichloroethene	2.069	96	435885	94.882	ug/L #	72
16) Methylene chloride	2.445	84	19611	3.770	ug/L	98
17) trans-1,2-Dichloroethene	2.690	96	244878	50.386	ug/L	99
22) 2-Butanone	3.902	43	18976	8.106	ug/L	81
27) 1,2-Dichloroethane	5.037	62	154783	22.742	ug/L	100
30) 1,1,1-Trichloroethane	4.506	97	13027516	1584.028	ug/L	99
33) Benzene	5.008	78	167718	8.328	ug/L	100
34) Trichloroethene	5.828	95	270965	50.523	ug/L	99
35) Methylcyclohexane	6.043	83	25139	3.047	ug/L	95
40) 4-Methyl-2-pentanone	7.172	43	18410	4.348	ug/L	95
42) Toluene	7.307	91	2882122	138.048	ug/L	100
45) 1,1,2-Trichloroethane	7.773	97	13035	2.610	ug/L	94
46) Tetrachloroethene	7.902	164	92066	22.452	ug/L	98
48) 2-Hexanone	8.024	43	16621	5.048	ug/L #	73
52) Ethylbenzene	8.940	91	1738222	73.964	ug/L	99
53) m,p-Xylene	9.066	106	1663994	190.250	ug/L	100

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Quant Title : VOC Analysis
QLast Update : Fri Sep 27 00:49:09 2024
Response via : Initial Calibration

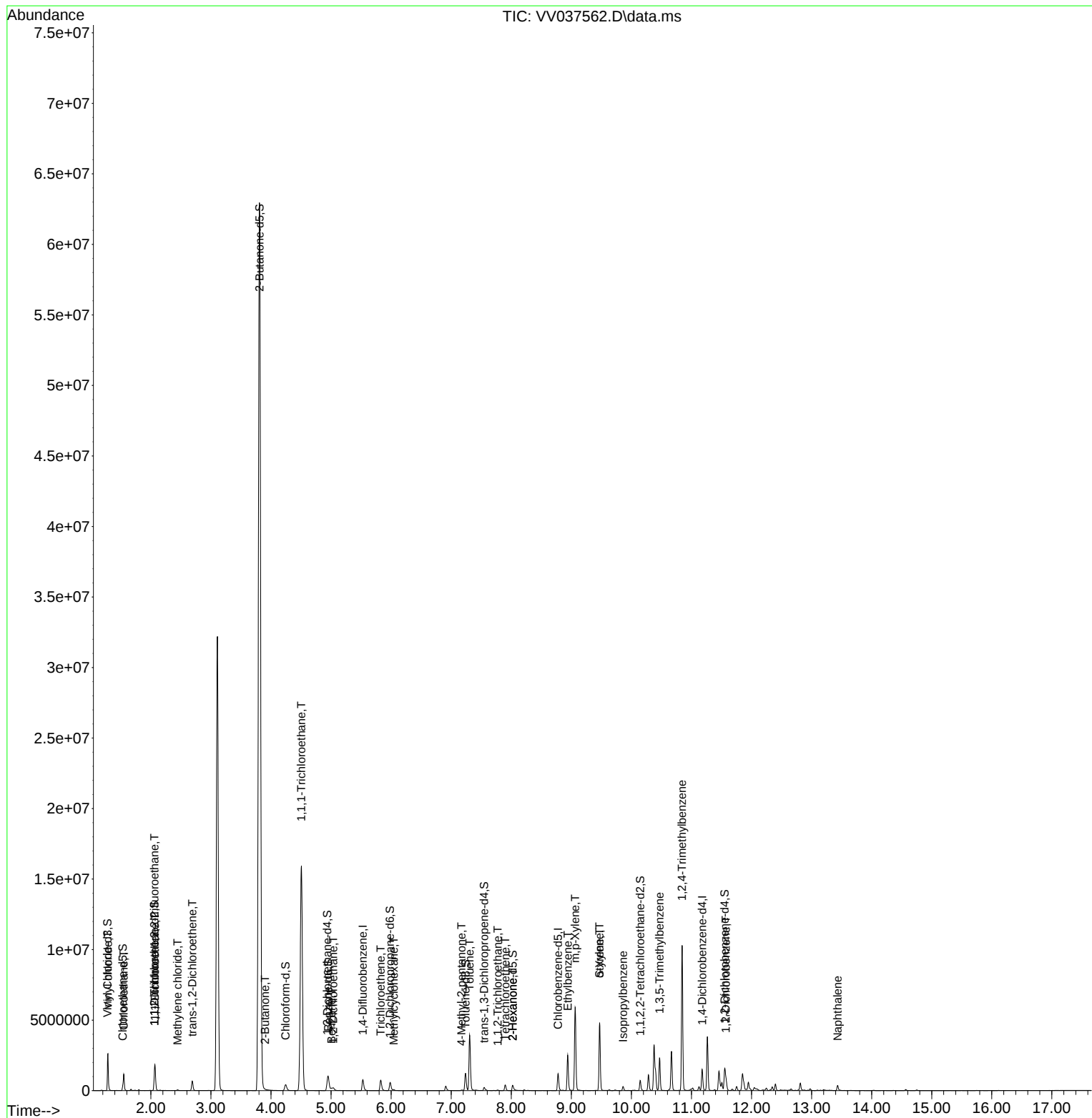
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	9.471	106	1224287	143.376	ug/L	97
55) Styrene	9.471	104	62703	4.218	ug/L #	1
60) Isopropylbenzene	9.863	105	188159	7.990	ug/L	99
62) 1,3,5-Trimethylbenzene	10.471	105	1219228	65.487	ug/L	99
63) 1,2,4-Trimethylbenzene	10.844	105	5366536	289.703	ug/L	99
67) 1,2-Dichlorobenzene	11.574	146	16281	1.453	ug/L	96
71) Naphthalene	13.432	128	304988	16.141	ug/L	99

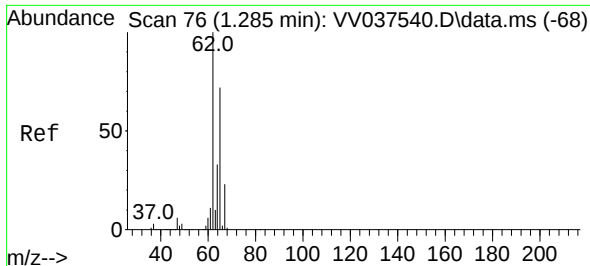
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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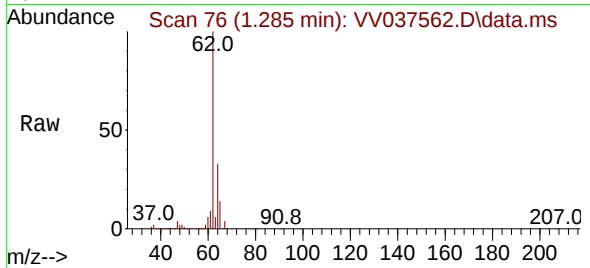
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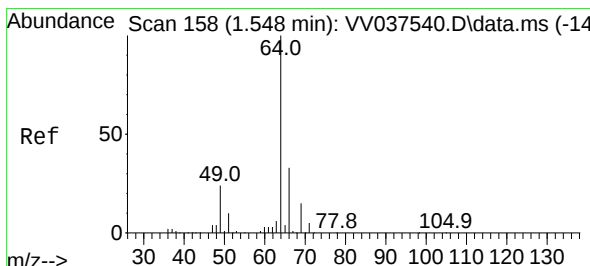
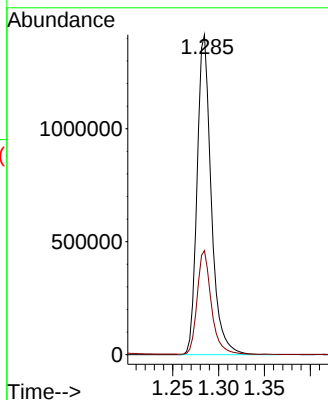
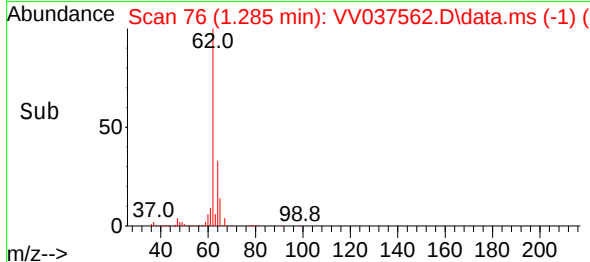


#5
 Vinyl chloride
 Concen: 248.215 ug/L
 RT: 1.285 min Scan# 76
 Delta R.T. -0.000 min
 Lab File: VV037562.D
 Acq: 26 Sep 2024 20:26

Instrument :
 MSVOA_V
 ClientSampleId :

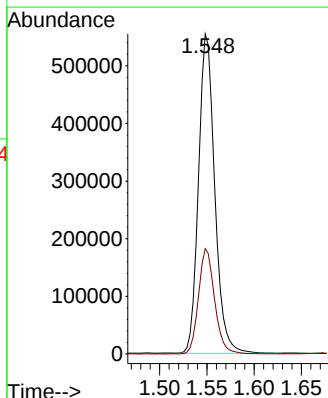
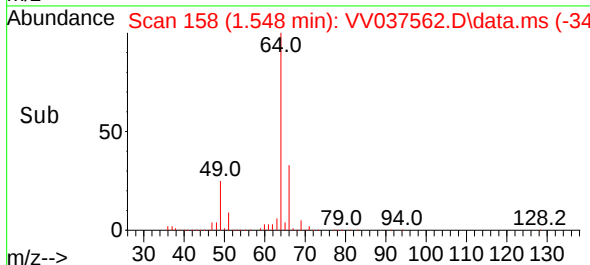
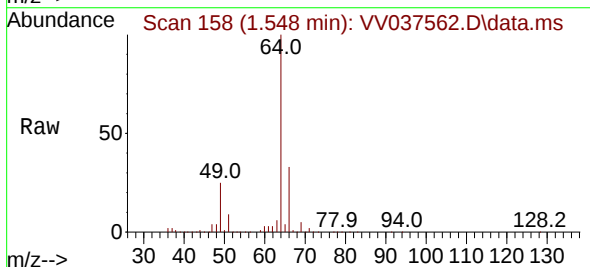


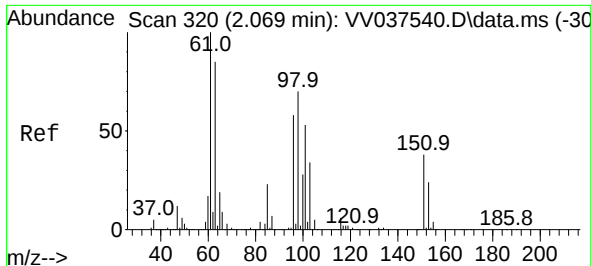
Tgt Ion: 62 Resp: 1517628
 Ion Ratio Lower Upper
 62 100
 64 32.6 23.2 43.0



#8
 Chloroethane
 Concen: 175.517 ug/L
 RT: 1.548 min Scan# 158
 Delta R.T. -0.000 min
 Lab File: VV037562.D
 Acq: 26 Sep 2024 20:26

Tgt Ion: 64 Resp: 661438
 Ion Ratio Lower Upper
 64 100
 66 32.9 22.2 41.2





#10

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

Concen: 0.891 ug/L

RT: 2.059 min Scan# 317

Delta R.T. -0.010 min

Lab File: VV037562.D

Acq: 26 Sep 2024 20:26

Instrument :

MSVOA_V

ClientSampleId :

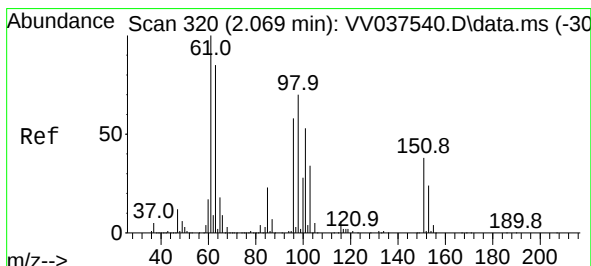
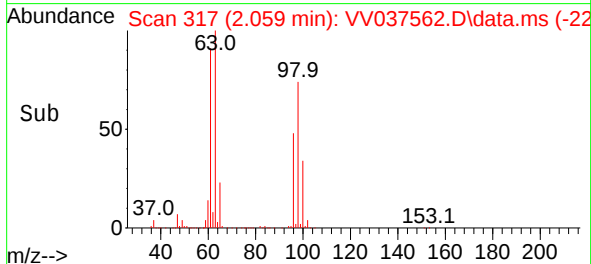
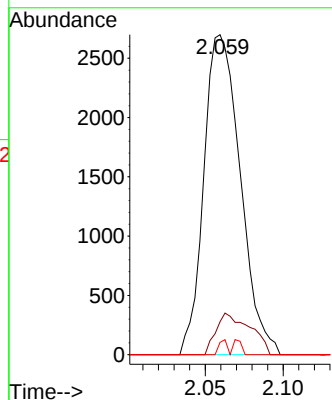
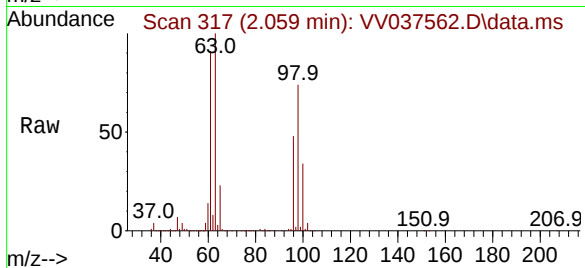
Tgt Ion:101 Resp: 4384

Ion Ratio Lower Upper

101 100

85 12.2 34.6 52.0#

151 1.0 57.5 86.3#



#12

1,1-Dichloroethene

Concen: 94.882 ug/L

RT: 2.069 min Scan# 320

Delta R.T. -0.000 min

Lab File: VV037562.D

Acq: 26 Sep 2024 20:26

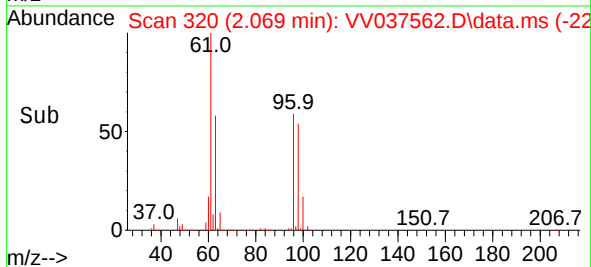
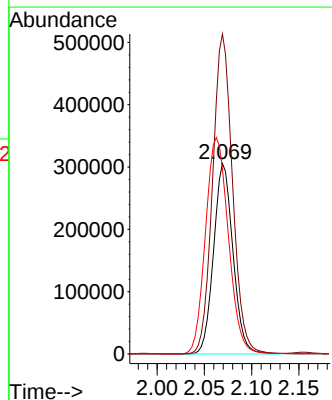
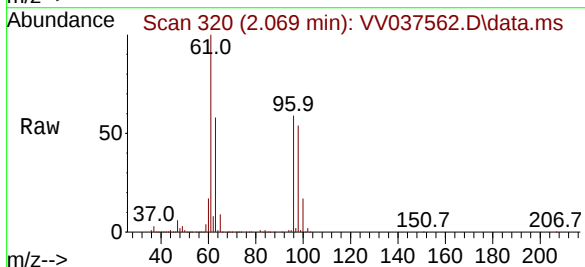
Tgt Ion: 96 Resp: 435885

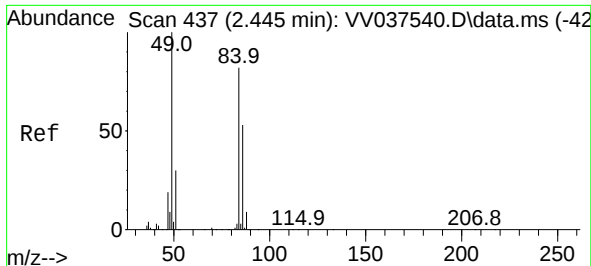
Ion Ratio Lower Upper

96 100

61 168.1 122.6 227.6

63 97.3 118.0 219.2#





#16

Methylene chloride

Concen: 3.770 ug/L

RT: 2.445 min Scan# 437

Delta R.T. -0.000 min

Lab File: VV037562.D

Acq: 26 Sep 2024 20:26

Instrument :

MSVOA_V

ClientSampleId :

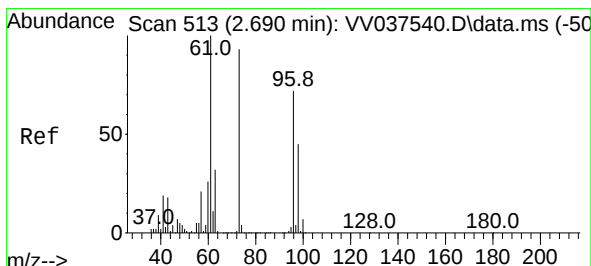
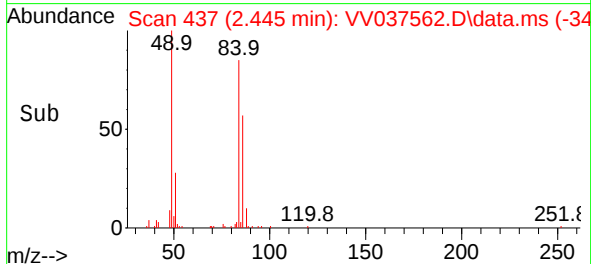
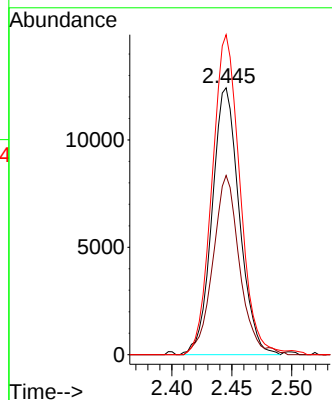
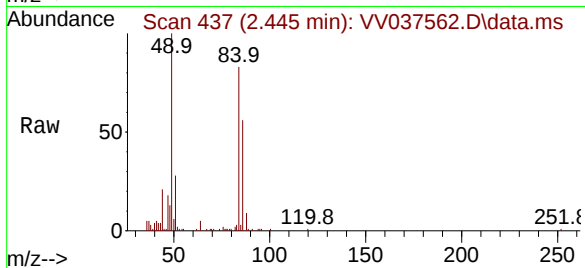
Tgt Ion: 84 Resp: 19611

Ion Ratio Lower Upper

84 100

86 67.1 46.4 86.2

49 119.9 85.9 159.5



#17

trans-1,2-Dichloroethene

Concen: 50.386 ug/L

RT: 2.690 min Scan# 513

Delta R.T. -0.000 min

Lab File: VV037562.D

Acq: 26 Sep 2024 20:26

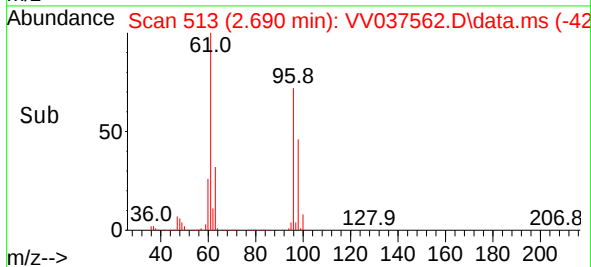
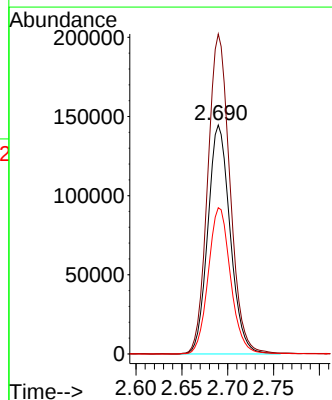
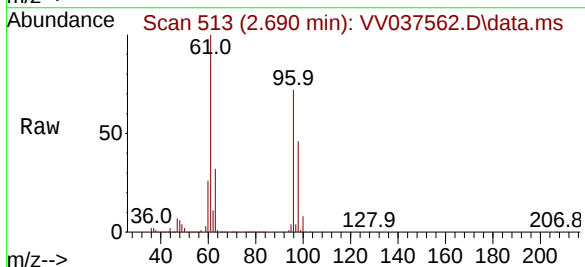
Tgt Ion: 96 Resp: 244878

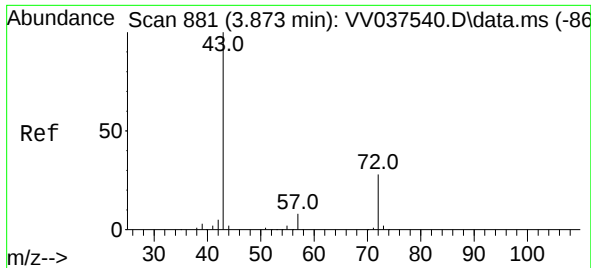
Ion Ratio Lower Upper

96 100

61 139.8 97.3 180.7

98 63.9 43.9 81.5





#22

2-Butanone

Concen: 8.106 ug/L

RT: 3.902 min Scan# 881

Delta R.T. 0.029 min

Lab File: VV037562.D

Acq: 26 Sep 2024 20:26

Instrument :

MSVOA_V

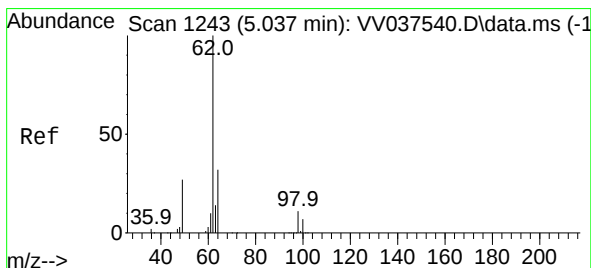
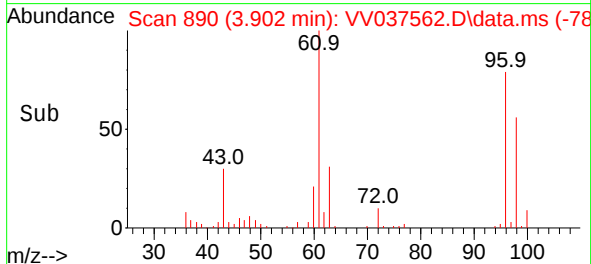
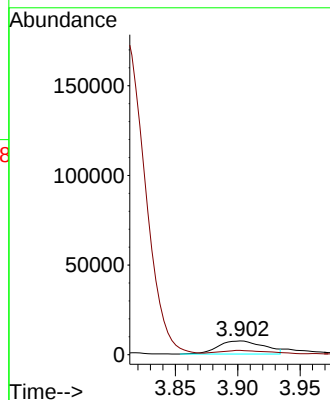
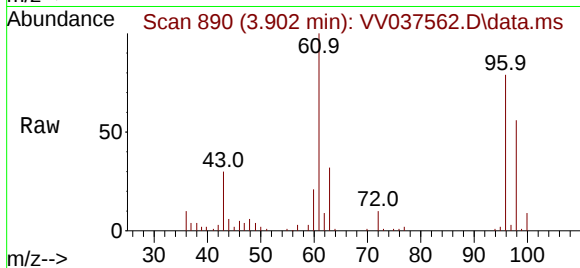
ClientSampleId :

Tgt Ion: 43 Resp: 18976

Ion Ratio Lower Upper

43 100

72 38.8 14.3 42.9



#27

1,2-Dichloroethane

Concen: 22.742 ug/L

RT: 5.037 min Scan# 1243

Delta R.T. -0.000 min

Lab File: VV037562.D

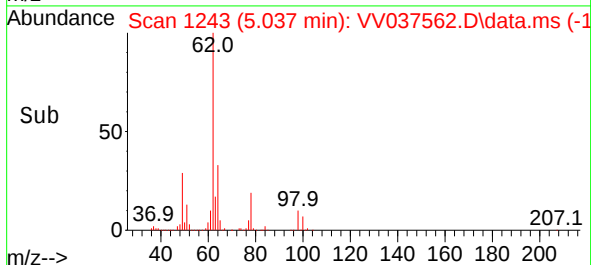
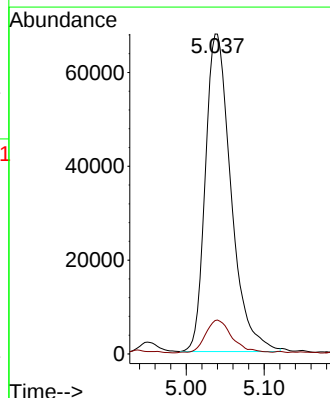
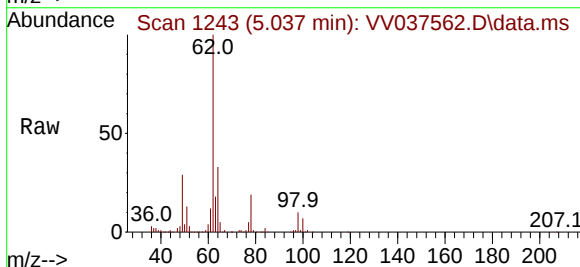
Acq: 26 Sep 2024 20:26

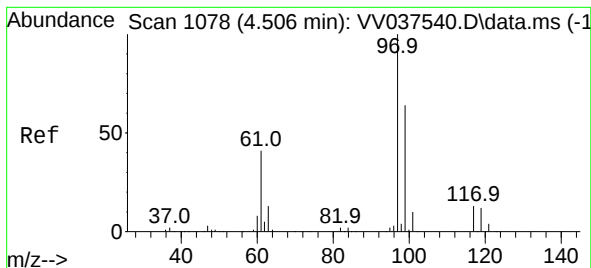
Tgt Ion: 62 Resp: 154783

Ion Ratio Lower Upper

62 100

98 10.5 8.4 12.6





#30

1,1,1-Trichloroethane

Concen: 1584.028 ug/L

RT: 4.506 min Scan# 1

Delta R.T. -0.000 min

Lab File: VV037562.D

Acq: 26 Sep 2024 20:26

Instrument :

MSVOA_V

ClientSampleId :

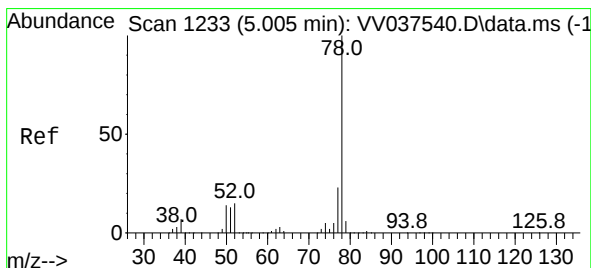
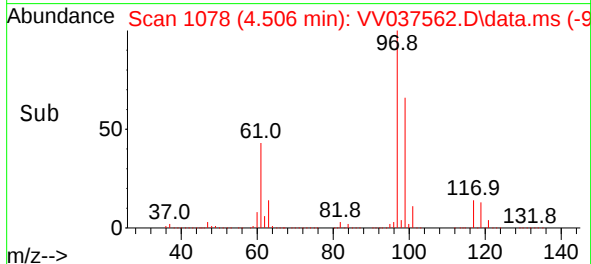
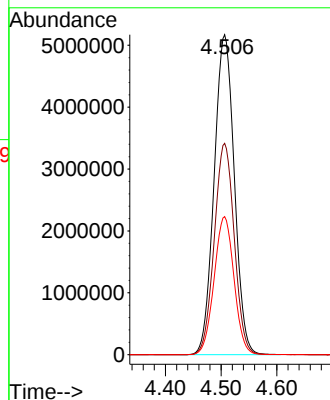
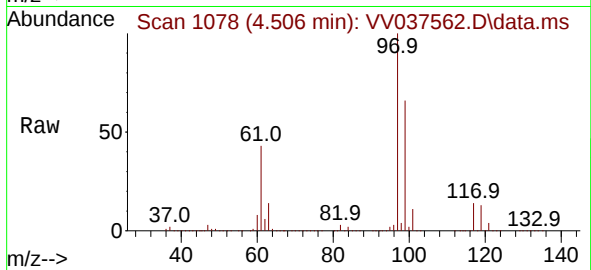
Tgt Ion: 97 Resp:13027516

Ion Ratio Lower Upper

97 100

99 65.5 51.8 77.6

61 42.5 33.6 50.4



#33

Benzene

Concen: 8.328 ug/L

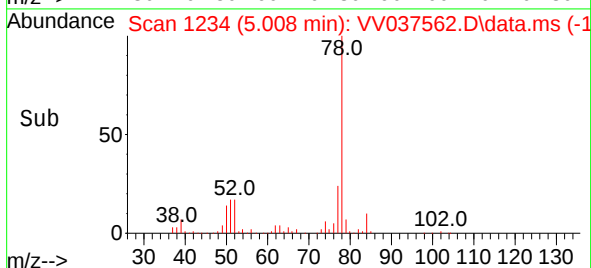
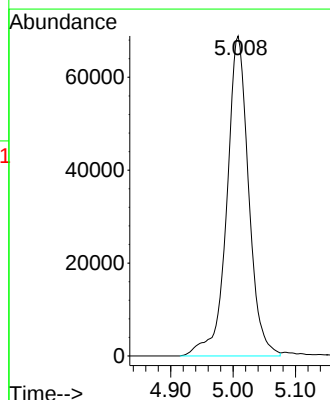
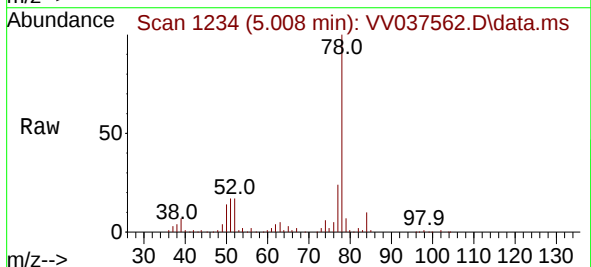
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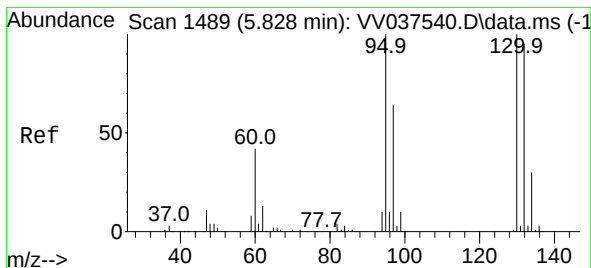
Delta R.T. 0.003 min

Lab File: VV037562.D

Acq: 26 Sep 2024 20:26

Tgt Ion: 78 Resp: 167718





#34

Trichloroethene

Concen: 50.523 ug/L

RT: 5.828 min Scan# 1489

Delta R.T. -0.000 min

Lab File: VV037562.D

Acq: 26 Sep 2024 20:26

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 95 Resp: 270965

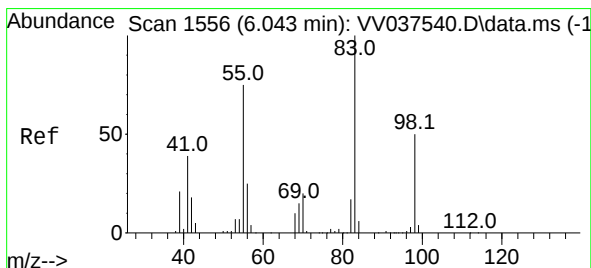
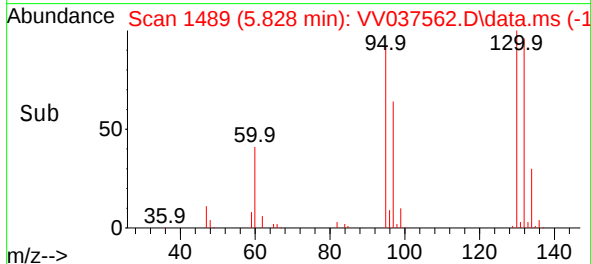
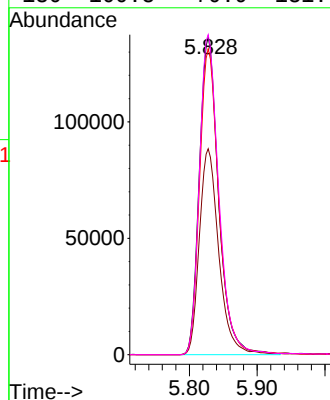
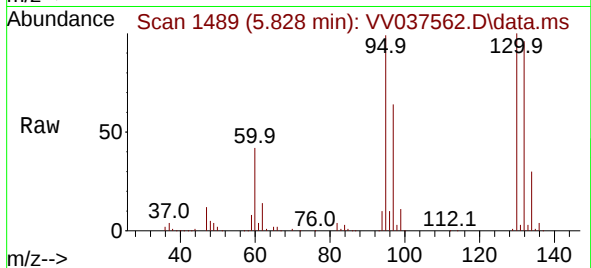
Ion Ratio Lower Upper

95 100

97 64.9 46.3 85.9

132 96.4 68.6 127.4

130 100.8 70.9 131.7



#35

Methylcyclohexane

Concen: 3.047 ug/L

RT: 6.043 min Scan# 1556

Delta R.T. -0.000 min

Lab File: VV037562.D

Acq: 26 Sep 2024 20:26

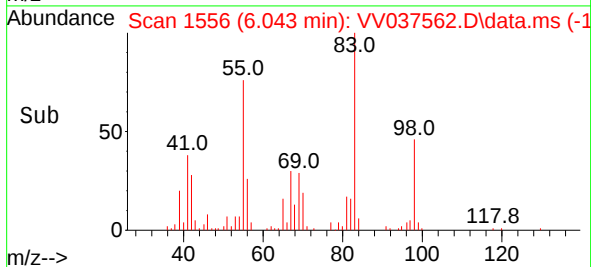
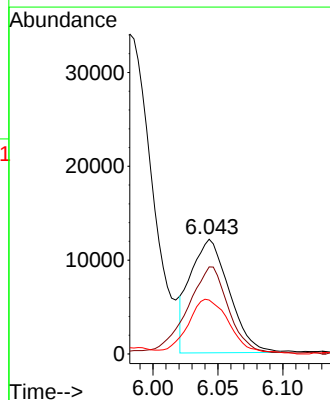
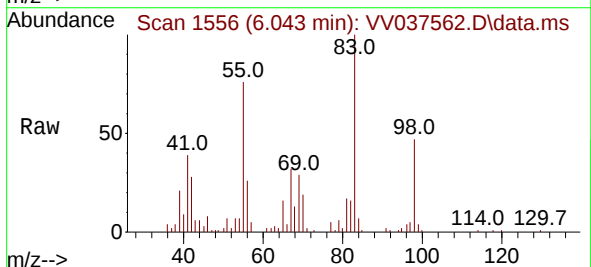
Tgt Ion: 83 Resp: 25139

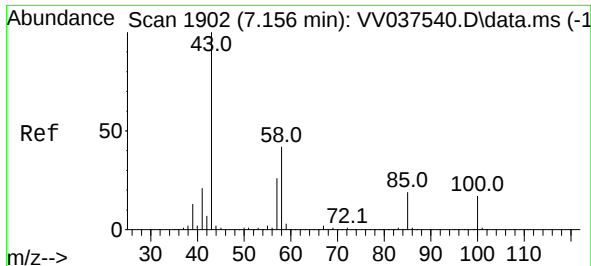
Ion Ratio Lower Upper

83 100

55 78.2 57.9 86.9

98 46.8 39.3 58.9





#40

4-Methyl-2-pentanone

Concen: 4.348 ug/L

RT: 7.172 min Scan# 1907

Delta R.T. 0.016 min

Lab File: VV037562.D

Acq: 26 Sep 2024 20:26

Instrument :

MSVOA_V

ClientSampleId :

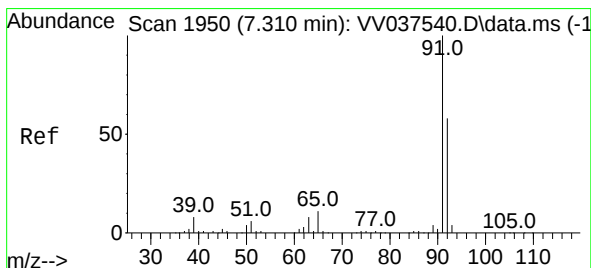
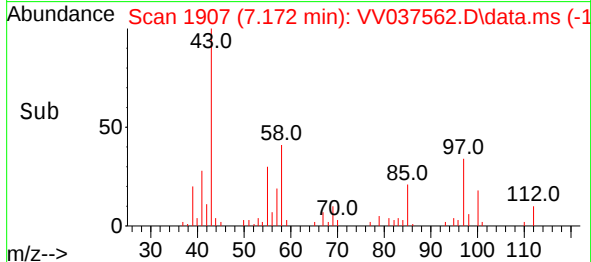
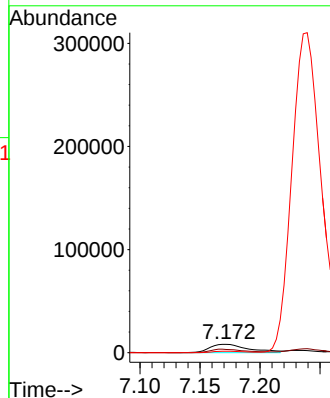
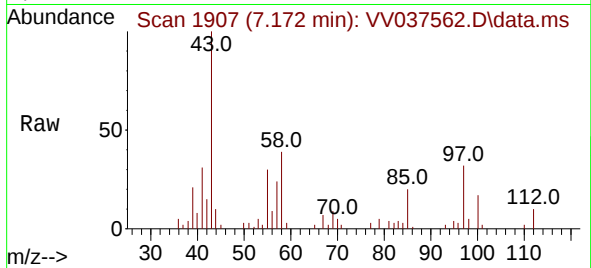
Tgt Ion: 43 Resp: 18410

Ion Ratio Lower Upper

43 100

58 38.5 33.0 49.4

100 14.6 13.7 20.5



#42

Toluene

Concen: 138.048 ug/L

RT: 7.307 min Scan# 1949

Delta R.T. -0.003 min

Lab File: VV037562.D

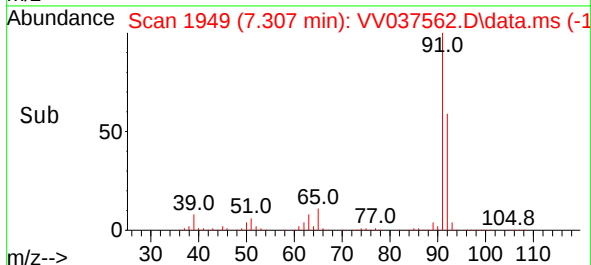
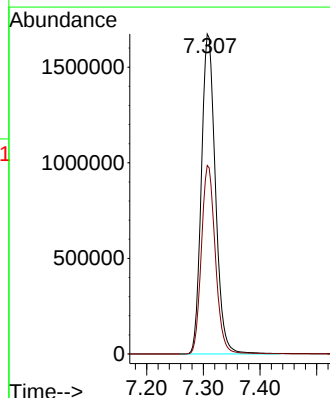
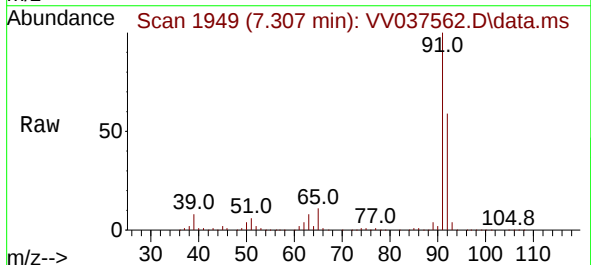
Acq: 26 Sep 2024 20:26

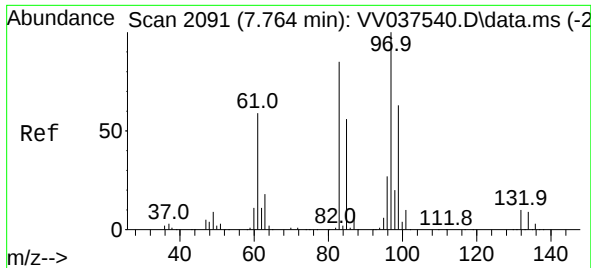
Tgt Ion: 91 Resp: 2882122

Ion Ratio Lower Upper

91 100

92 58.9 41.1 76.3

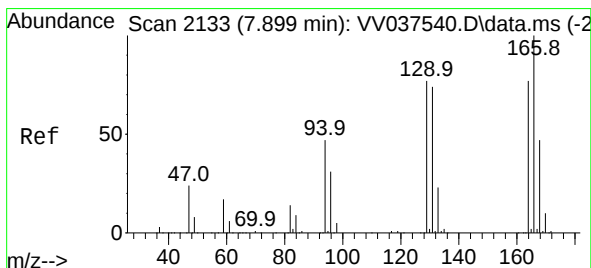
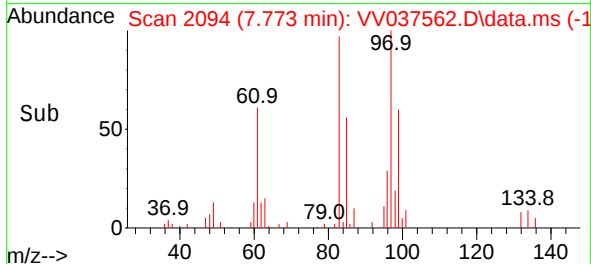
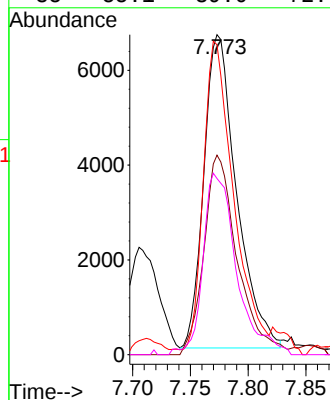
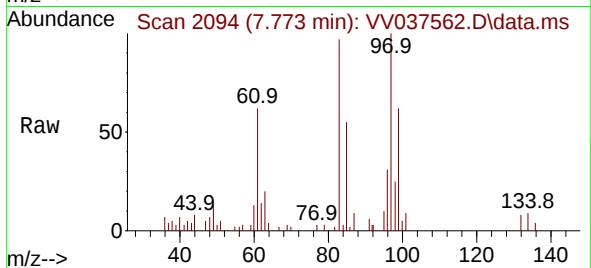




#45
1,1,2-Trichloroethane
Concen: 2.610 ug/L
RT: 7.773 min Scan# 2091
Delta R.T. 0.009 min
Lab File: VV037562.D
Acq: 26 Sep 2024 20:26

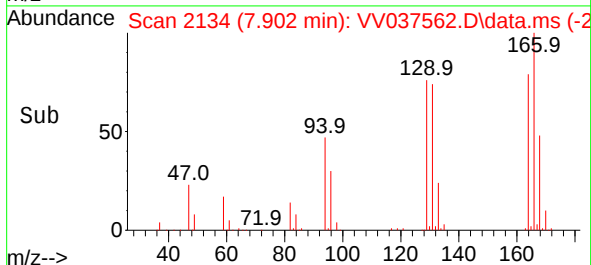
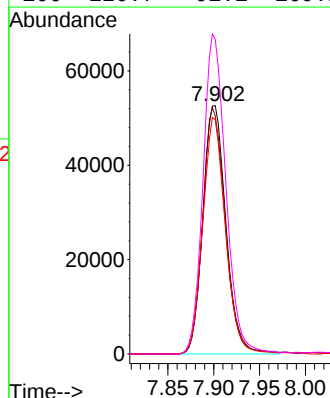
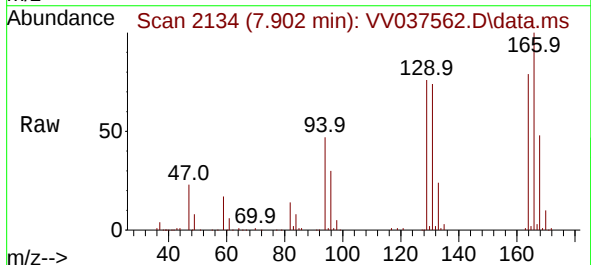
Instrument :
MSVOA_V
ClientSampleId :

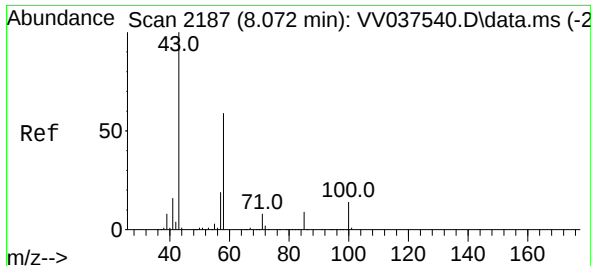
Tgt Ion:	97	Resp:	13035
Ion	Ratio	Lower	Upper
97	100		
99	62.4	44.1	81.9
83	96.8	59.3	110.1
85	55.1	39.0	72.4



#46
Tetrachloroethene
Concen: 22.452 ug/L
RT: 7.902 min Scan# 2134
Delta R.T. 0.003 min
Lab File: VV037562.D
Acq: 26 Sep 2024 20:26

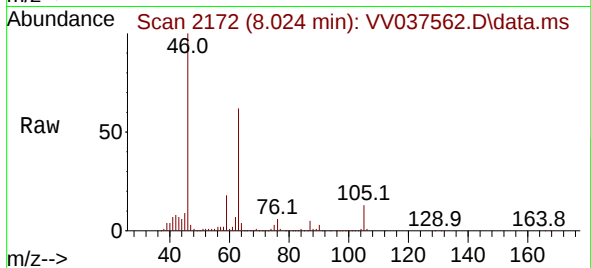
Tgt Ion:	164	Resp:	92066
Ion	Ratio	Lower	Upper
164	100		
129	95.9	68.2	126.6
131	94.3	66.1	122.8
166	126.7	91.1	169.1



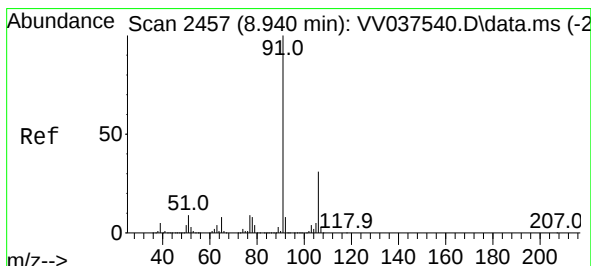
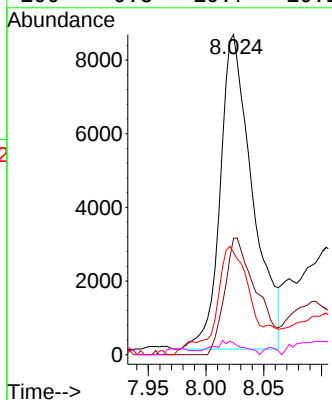
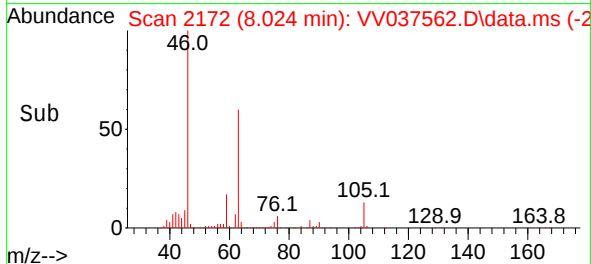


#48
2-Hexanone
Concen: 5.048 ug/L
RT: 8.024 min Scan# 2187
Delta R.T. -0.048 min
Lab File: VV037562.D
Acq: 26 Sep 2024 20:26

Instrument :
MSVOA_V
ClientSampleId :

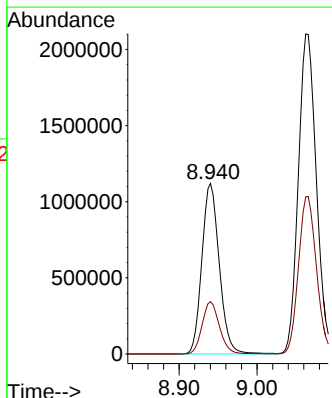
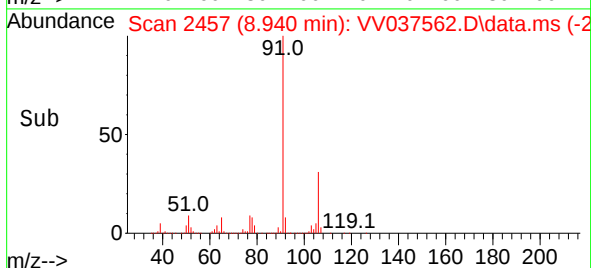
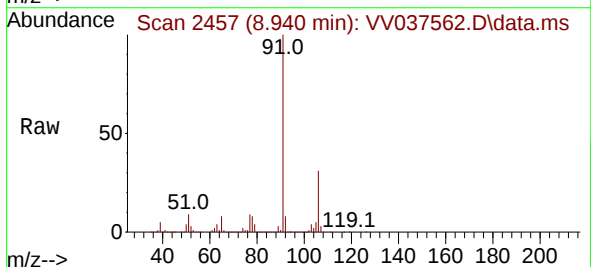


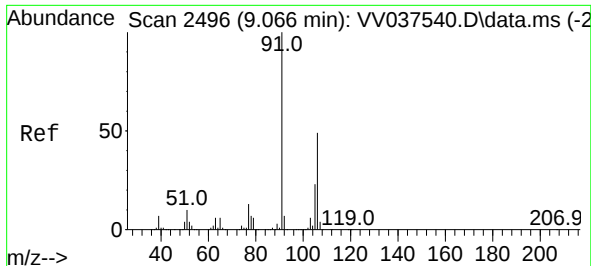
Tgt Ion: 43 Resp: 16621
Ion Ratio Lower Upper
43 100
58 37.1 46.5 69.7#
57 26.6 15.1 22.7#
100 0.3 10.7 16.1#



#52
Ethylbenzene
Concen: 73.964 ug/L
RT: 8.940 min Scan# 2457
Delta R.T. -0.000 min
Lab File: VV037562.D
Acq: 26 Sep 2024 20:26

Tgt Ion: 91 Resp: 1738222
Ion Ratio Lower Upper
91 100
106 30.7 21.9 40.7

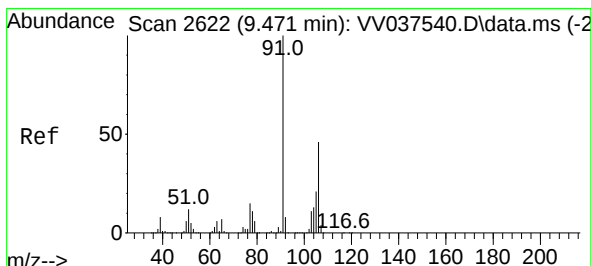
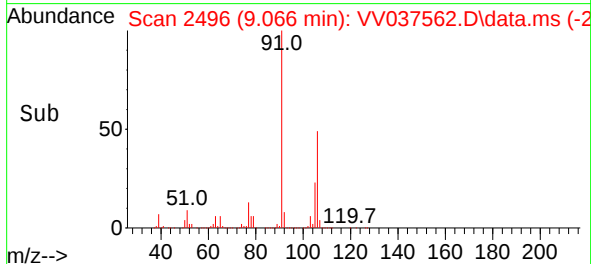
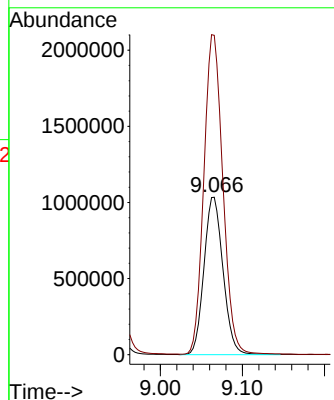
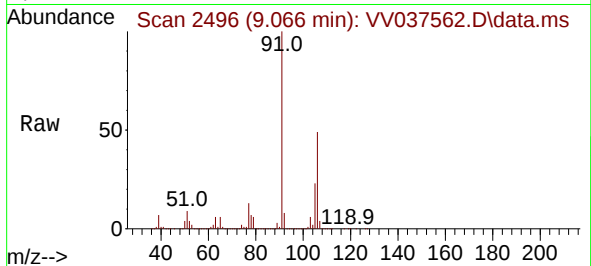




#53
m,p-Xylene
Concen: 190.250 ug/L
RT: 9.066 min Scan# 2496
Delta R.T. -0.000 min
Lab File: VV037562.D
Acq: 26 Sep 2024 20:26

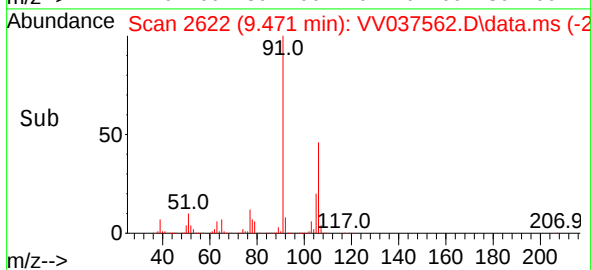
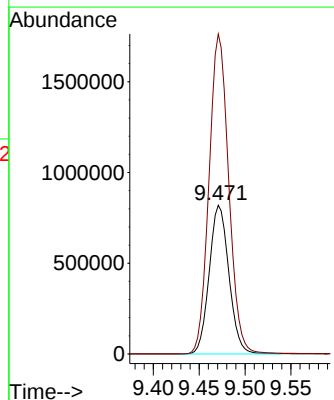
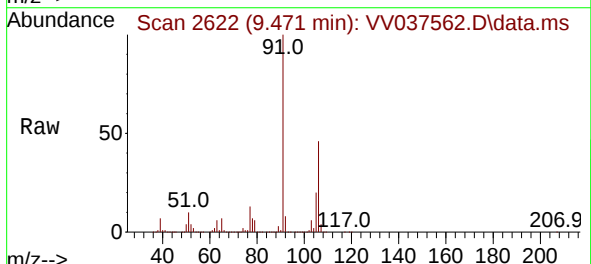
Instrument :
MSVOA_V
ClientSampleId :

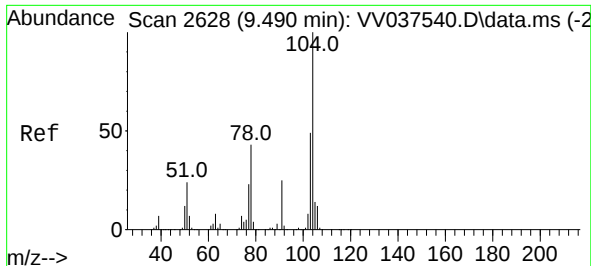
Tgt Ion:106 Resp: 1663994
Ion Ratio Lower Upper
106 100
91 202.9 142.0 263.6



#54
o-Xylene
Concen: 143.376 ug/L
RT: 9.471 min Scan# 2622
Delta R.T. -0.000 min
Lab File: VV037562.D
Acq: 26 Sep 2024 20:26

Tgt Ion:106 Resp: 1224287
Ion Ratio Lower Upper
106 100
91 215.1 153.9 285.9





#55

Styrene

Concen: 4.218 ug/L

RT: 9.471 min Scan# 2

Delta R.T. -0.019 min

Lab File: VV037562.D

Acq: 26 Sep 2024 20:26

Instrument :

MSVOA_V

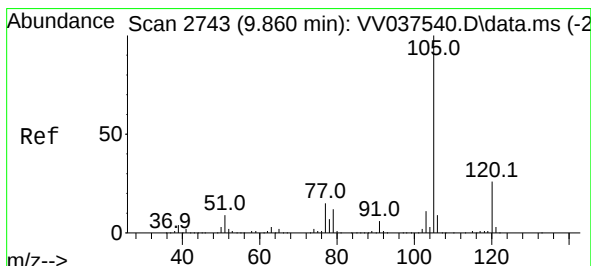
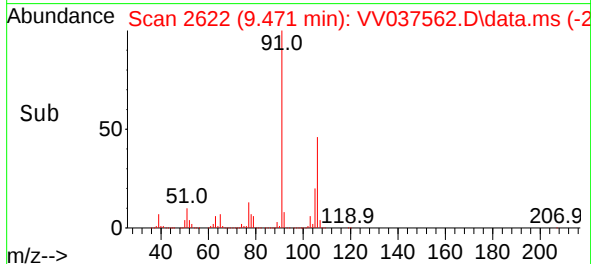
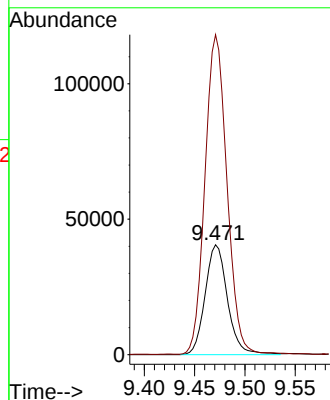
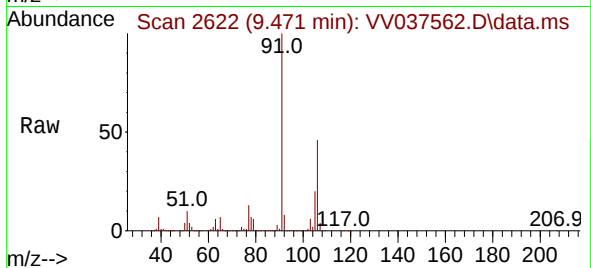
ClientSampleId :

Tgt Ion:104 Resp: 62703

Ion Ratio Lower Upper

104 100

78 291.1 30.0 55.6#



#60

Isopropylbenzene

Concen: 7.990 ug/L

RT: 9.863 min Scan# 2744

Delta R.T. 0.003 min

Lab File: VV037562.D

Acq: 26 Sep 2024 20:26

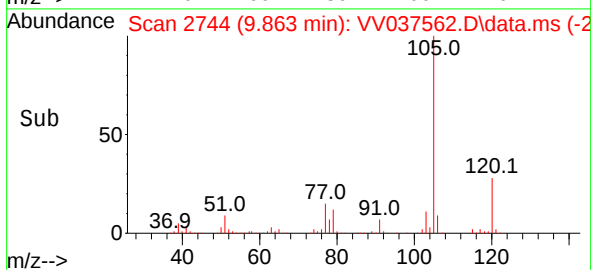
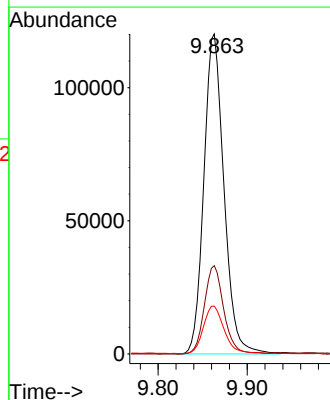
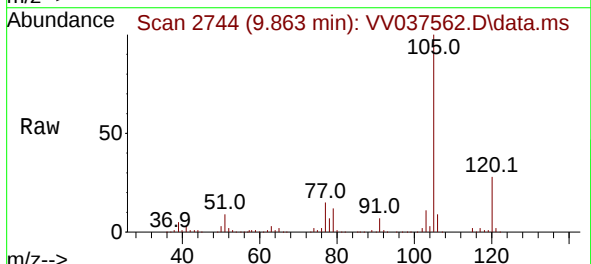
Tgt Ion:105 Resp: 188159

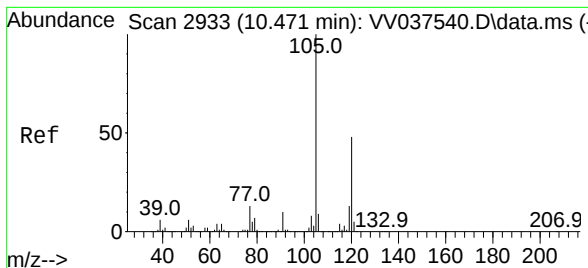
Ion Ratio Lower Upper

105 100

120 26.4 20.7 31.1

77 15.2 12.2 18.2

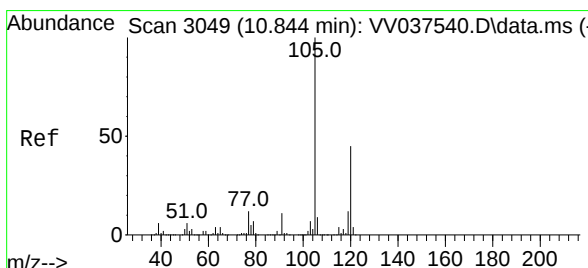
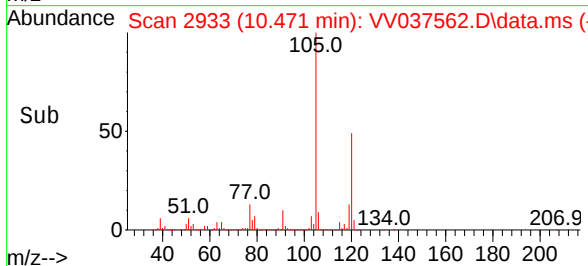
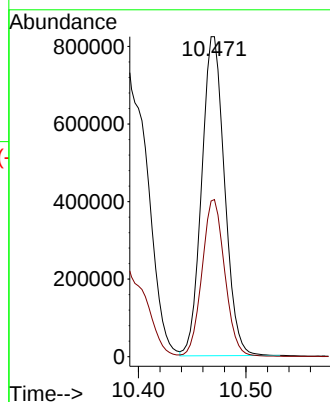
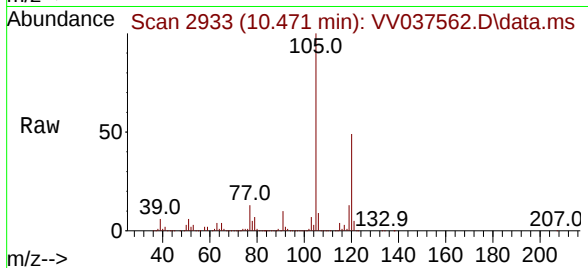




#62
 1,3,5-Trimethylbenzene
 Concen: 65.487 ug/L
 RT: 10.471 min Scan# 2933
 Delta R.T. -0.000 min
 Lab File: VV037562.D
 Acq: 26 Sep 2024 20:26

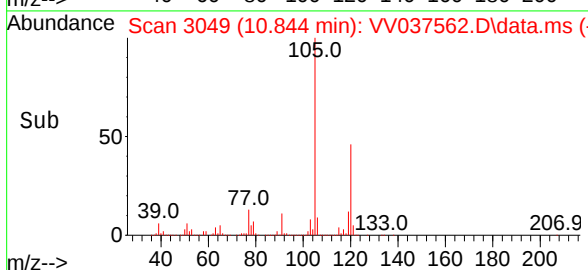
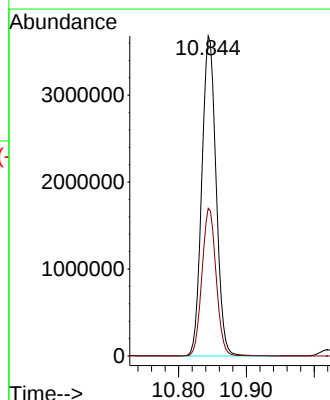
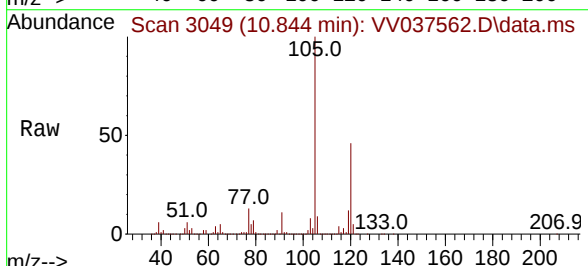
Instrument :
 MSVOA_V
 ClientSampleId :

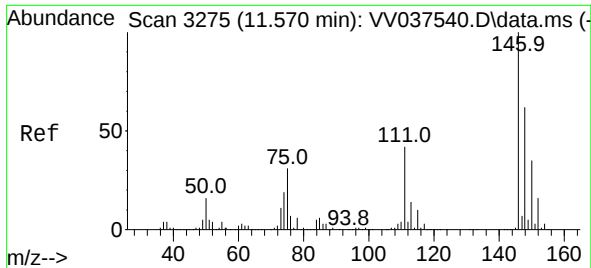
Tgt Ion:105 Resp: 1219228
 Ion Ratio Lower Upper
 105 100
 120 48.8 39.3 58.9



#63
 1,2,4-Trimethylbenzene
 Concen: 289.703 ug/L
 RT: 10.844 min Scan# 3049
 Delta R.T. -0.000 min
 Lab File: VV037562.D
 Acq: 26 Sep 2024 20:26

Tgt Ion:105 Resp: 5366536
 Ion Ratio Lower Upper
 105 100
 120 45.8 36.2 54.2





#67

1,2-Dichlorobenzene

Concen: 1.453 ug/L

RT: 11.574 min Scan# 31

Delta R.T. 0.003 min

Lab File: VV037562.D

Acq: 26 Sep 2024 20:26

Instrument :

MSVOA_V

ClientSampleId :

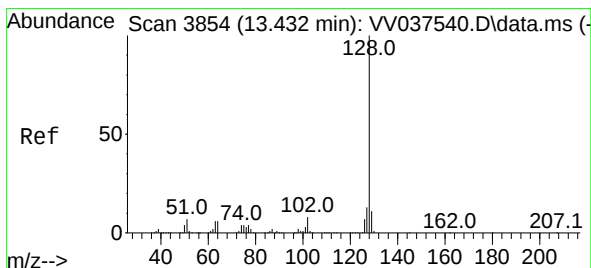
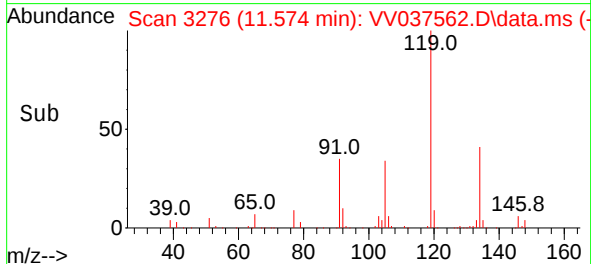
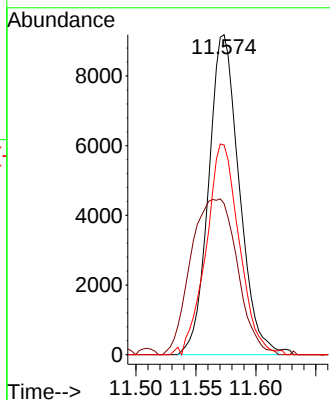
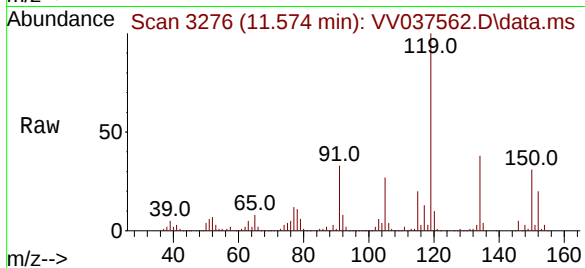
Tgt Ion:146 Resp: 16281

Ion Ratio Lower Upper

146 100

111 47.2 34.2 51.2

148 65.5 50.9 76.3



#71

Naphthalene

Concen: 16.141 ug/L

RT: 13.432 min Scan# 3854

Delta R.T. -0.000 min

Lab File: VV037562.D

Acq: 26 Sep 2024 20:26

Tgt Ion:128 Resp: 304988

Ion Ratio Lower Upper

128 100

127 12.6 10.2 15.4

129 10.8 8.5 12.7

