

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092624\
 Data File : VV037555.D
 Acq On : 26 Sep 2024 17:55
 Operator : SY/MD
 Sample : P4184-04
 Misc : 5mL/MSVOA_V/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Sep 27 00:53:49 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	703962	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.780	117	665844	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.178	152	335801	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.278	65	278810	45.117	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	90.240%
7) Chloroethane-d5	1.532	69	216649	45.166	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	90.340%
11) 1,1-Dichloroethene-d2	2.060	65	117150	45.375	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	90.760%
21) 2-Butanone-d5	3.789	46	218470	99.256	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	99.260%
24) Chloroform-d	4.243	84	473917	43.105	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.220%
26) 1,2-Dichloroethane-d4	4.937	65	282182	43.849	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.700%
32) Benzene-d6	4.953	84	951848	45.684	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.360%
36) 1,2-Dichloropropane-d6	5.985	67	298822	45.039	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	90.080%
41) Toluene-d8	7.236	98	846900	44.826	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	89.660%
43) trans-1,3-Dichloroprop...	7.548	79	133591	43.345	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	86.680%
47) 2-Hexanone-d5	8.024	63	134751	96.184	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	96.180%
56) 1,1,2,2-Tetrachloroeth...	10.146	84	346728	44.977	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	89.960%
66) 1,2-Dichlorobenzene-d4	11.554	152	327107	46.228	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.460%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.285	62	248174	39.788	ug/L	98
8) Chloroethane	1.548	64	402017	104.569	ug/L	98
12) 1,1-Dichloroethene	2.069	96	47705	10.179	ug/L #	1
17) trans-1,2-Dichloroethene	2.690	96	37636	7.591	ug/L	97
19) 1,1-Dichloroethane	3.105	63	4183739	440.422	ug/L	100
20) cis-1,2-Dichloroethene	3.805	96	2553845	460.296	ug/L	99
27) 1,2-Dichloroethane	5.053	62	12507	1.801	ug/L	99
30) 1,1,1-Trichloroethane	4.503	97	2452502	299.059	ug/L	100
34) Trichloroethene	5.838	95	21732	4.064	ug/L	92
35) Methylcyclohexane	5.985	83	71600	8.703	ug/L #	21
39) cis-1,3-Dichloropropene	6.911	75	8520	1.029	ug/L #	60
42) Toluene	7.317	91	87401	4.198	ug/L	98
46) Tetrachloroethene	7.902	164	51958	12.707	ug/L	98
48) 2-Hexanone	8.024	43	16469	5.016	ug/L #	40
52) Ethylbenzene	8.947	91	83603	3.568	ug/L	99
53) m,p-Xylene	9.072	106	32417	3.717	ug/L	91
54) o-Xylene	9.477	106	30380	3.568	ug/L	94
63) 1,2,4-Trimethylbenzene	10.847	105	156502	9.113	ug/L	98
67) 1,2-Dichlorobenzene	11.570	146	15798	1.521	ug/L #	92

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

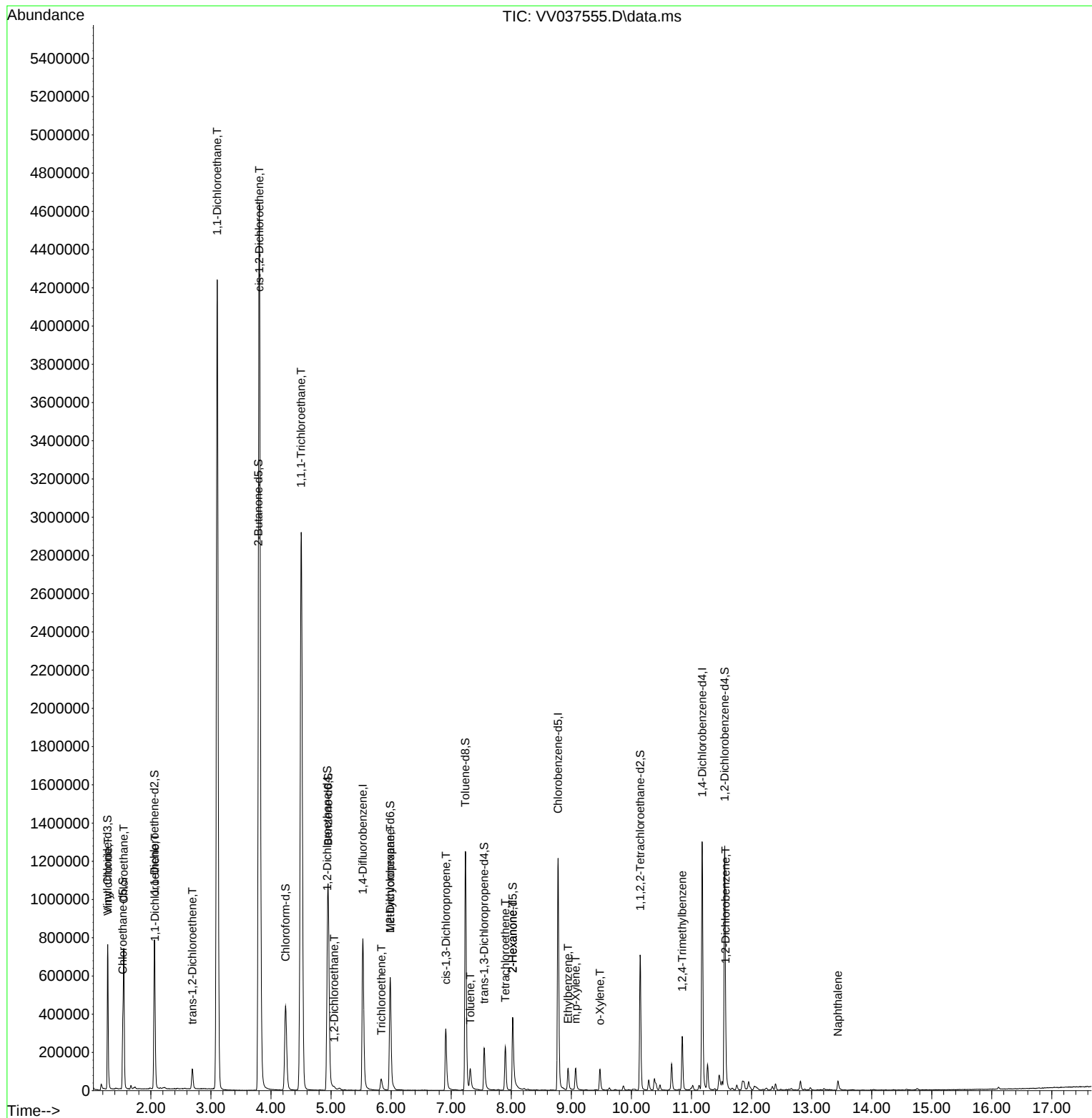
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71) Naphthalene	13.439	128	43599	2.489	ug/L	97

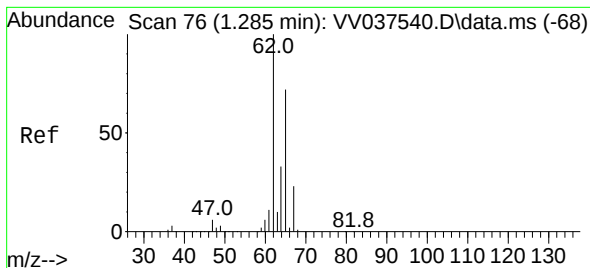
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#5

Vinyl chloride

Concen: 39.788 ug/L

RT: 1.285 min Scan# 76

Delta R.T. -0.000 min

Lab File: VV037555.D

Acq: 26 Sep 2024 17:55

Instrument :

MSVOA_V

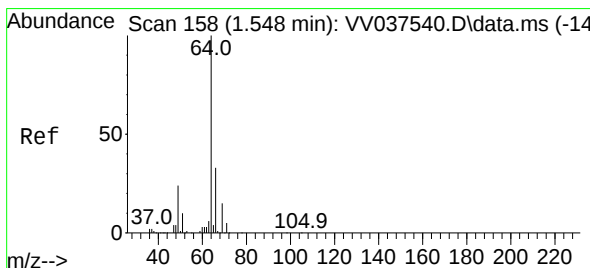
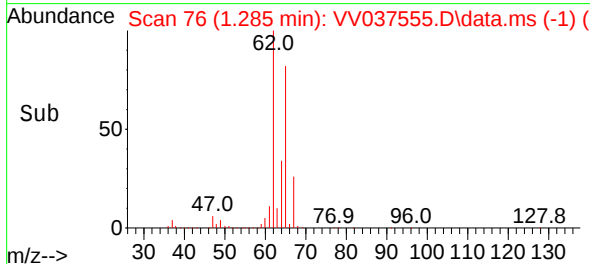
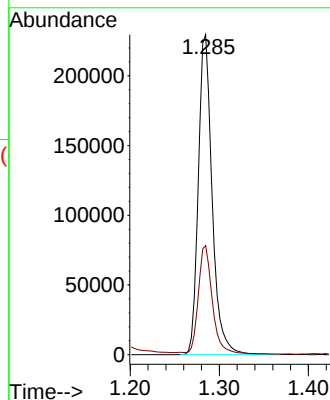
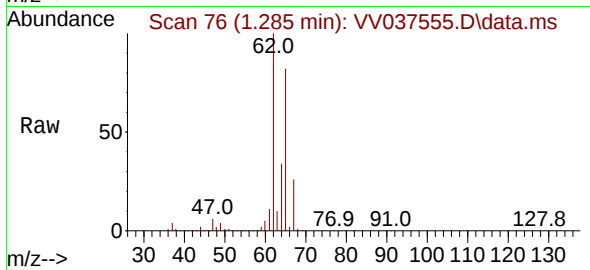
ClientSampleId :

Tgt Ion: 62 Resp: 248174

Ion Ratio Lower Upper

62 100

64 34.1 23.2 43.0



#8

Chloroethane

Concen: 104.569 ug/L

RT: 1.548 min Scan# 158

Delta R.T. -0.000 min

Lab File: VV037555.D

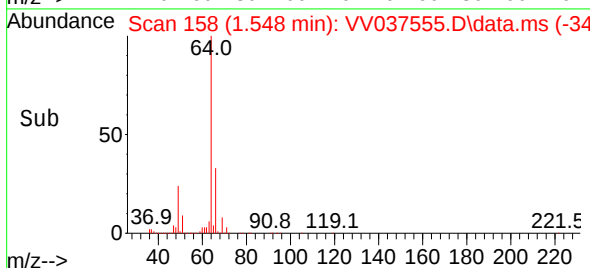
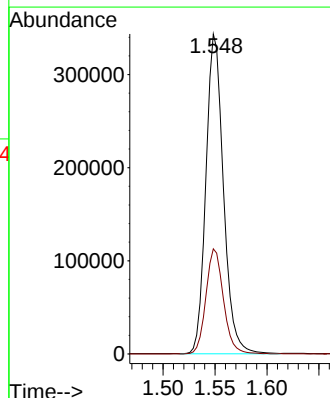
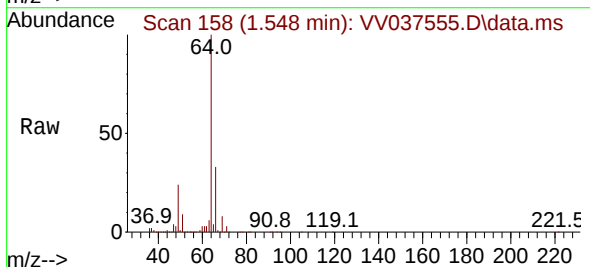
Acq: 26 Sep 2024 17:55

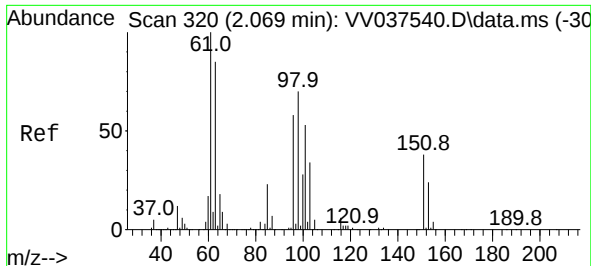
Tgt Ion: 64 Resp: 402017

Ion Ratio Lower Upper

64 100

66 32.9 22.2 41.2





#12

1,1-Dichloroethene

Concen: 10.179 ug/L

RT: 2.069 min Scan# 31

Delta R.T. -0.000 min

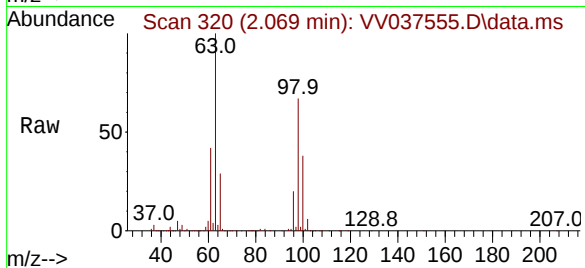
Lab File: VV037555.D

Acq: 26 Sep 2024 17:55

Instrument :

MSVOA_V

ClientSampleId :



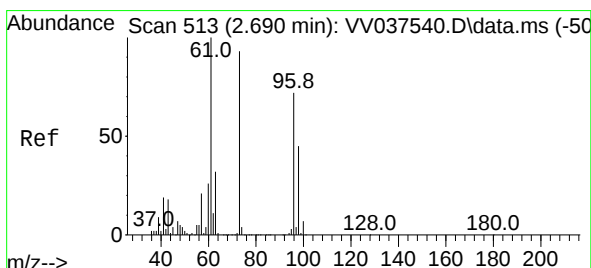
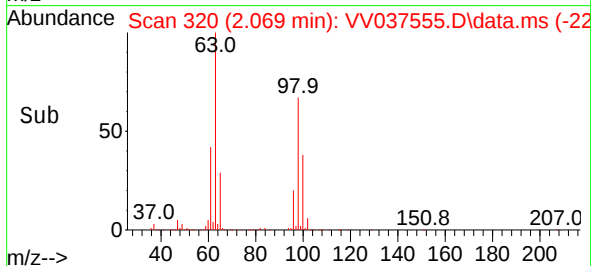
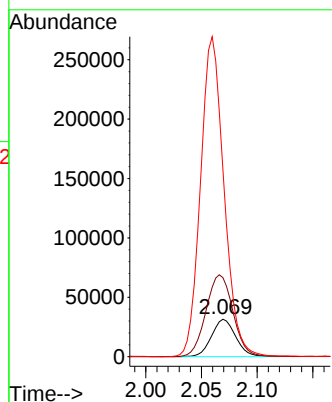
Tgt Ion: 96 Resp: 47705

Ion Ratio Lower Upper

96 100

61 211.1 122.6 227.6

63 499.2 118.0 219.2#



#17

trans-1,2-Dichloroethene

Concen: 7.591 ug/L

RT: 2.690 min Scan# 513

Delta R.T. -0.000 min

Lab File: VV037555.D

Acq: 26 Sep 2024 17:55

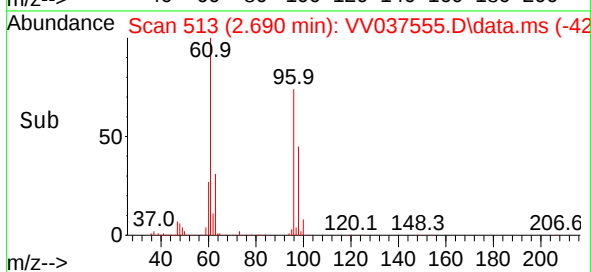
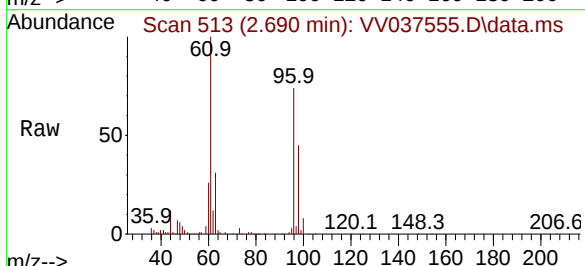
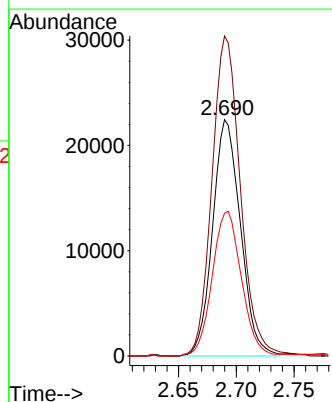
Tgt Ion: 96 Resp: 37636

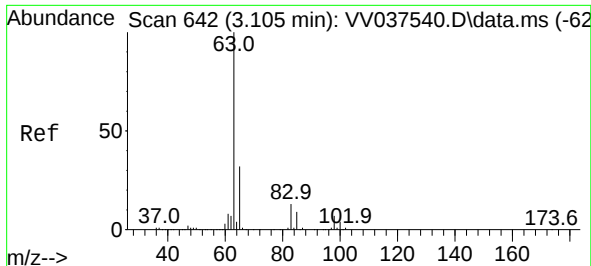
Ion Ratio Lower Upper

96 100

61 135.4 97.3 180.7

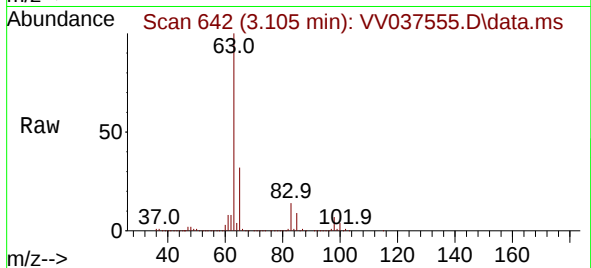
98 60.4 43.9 81.5



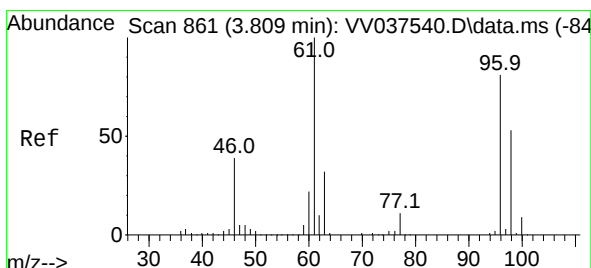
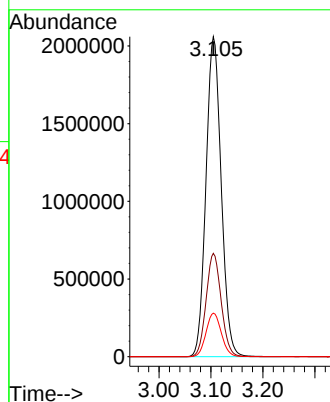
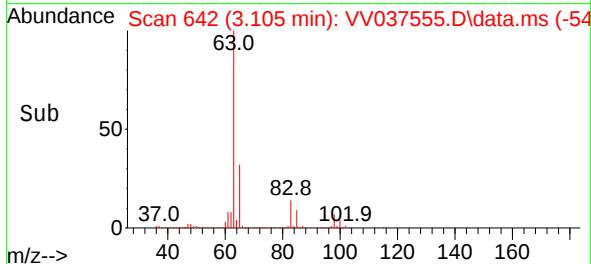


#19
1,1-Dichloroethane
Concen: 440.422 ug/L
RT: 3.105 min Scan# 64
Delta R.T. -0.000 min
Lab File: VV037555.D
Acq: 26 Sep 2024 17:55

Instrument :
MSVOA_V
ClientSampleId :

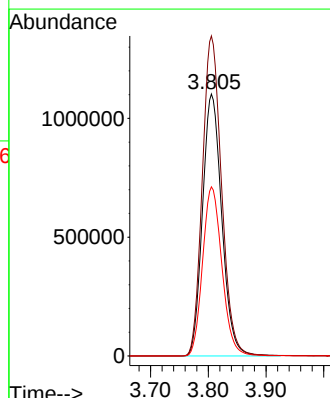
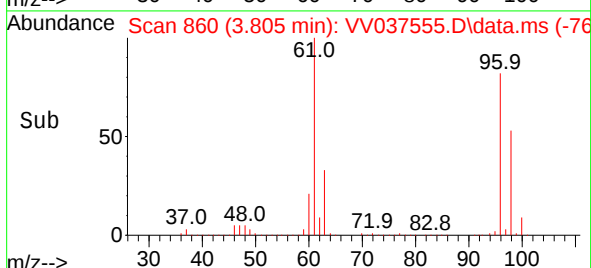
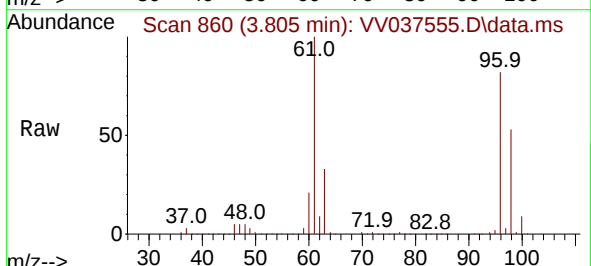


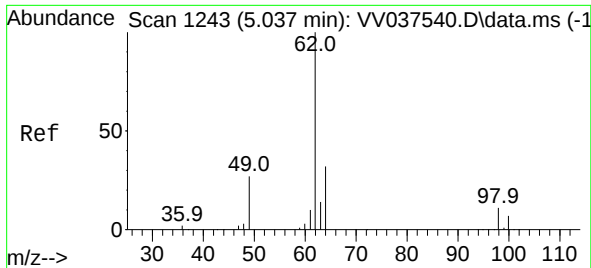
Tgt Ion: 63 Resp: 4183739
Ion Ratio Lower Upper
63 100
65 32.3 22.4 41.6
83 13.6 9.5 17.7



#20
cis-1,2-Dichloroethene
Concen: 460.296 ug/L
RT: 3.805 min Scan# 860
Delta R.T. -0.003 min
Lab File: VV037555.D
Acq: 26 Sep 2024 17:55

Tgt Ion: 96 Resp: 2553845
Ion Ratio Lower Upper
96 100
61 122.2 85.0 157.8
98 64.6 44.2 82.0

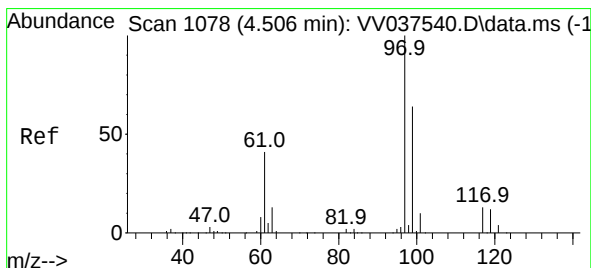
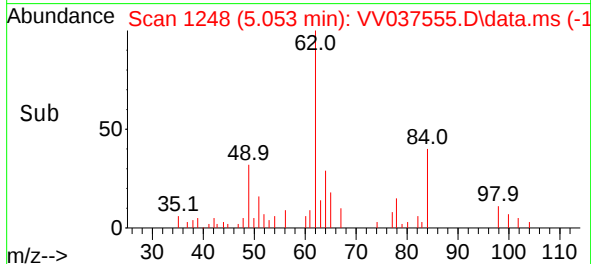
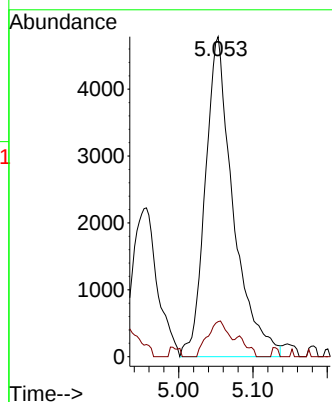
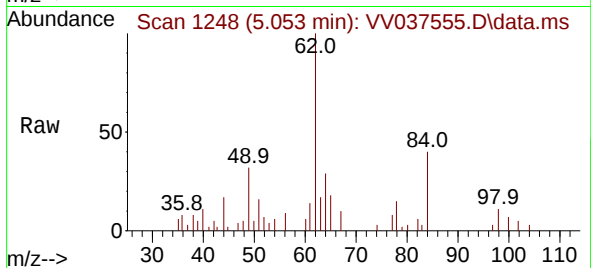




#27
1,2-Dichloroethane
Concen: 1.801 ug/L
RT: 5.053 min Scan# 1243
Delta R.T. 0.016 min
Lab File: VV037555.D
Acq: 26 Sep 2024 17:55

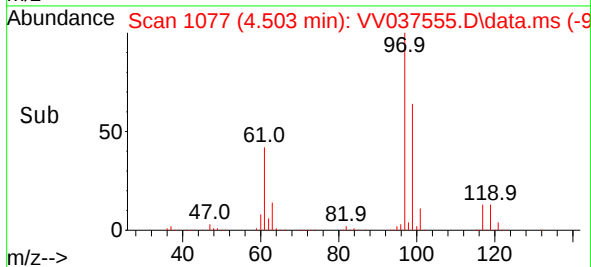
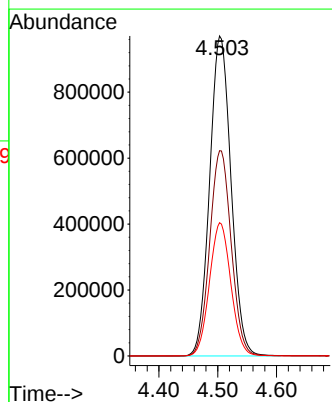
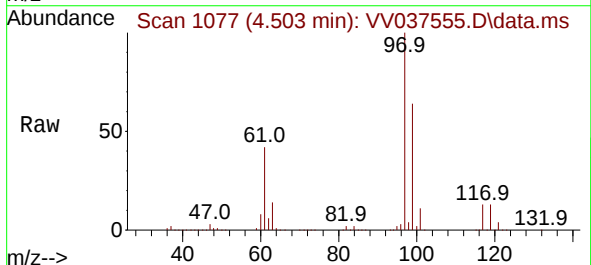
Instrument :
MSVOA_V
ClientSampleId :

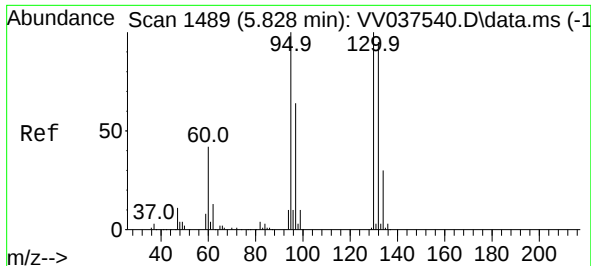
Tgt Ion: 62 Resp: 12507
Ion Ratio Lower Upper
62 100
98 10.9 8.4 12.6



#30
1,1,1-Trichloroethane
Concen: 299.059 ug/L
RT: 4.503 min Scan# 1077
Delta R.T. -0.003 min
Lab File: VV037555.D
Acq: 26 Sep 2024 17:55

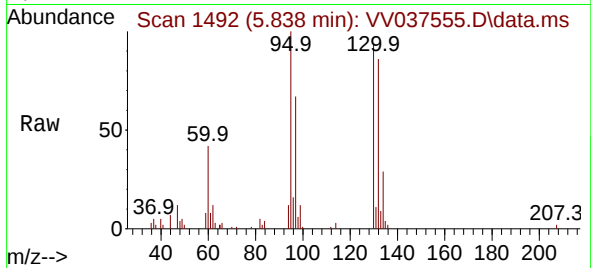
Tgt Ion: 97 Resp: 2452502
Ion Ratio Lower Upper
97 100
99 64.5 51.8 77.6
61 41.6 33.6 50.4



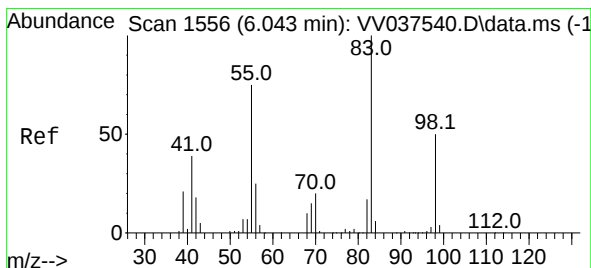
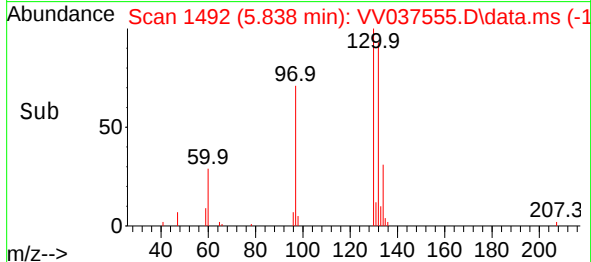
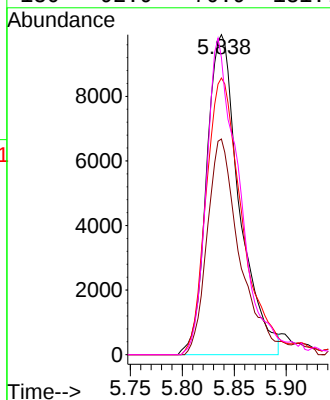


#34
Trichloroethene
Concen: 4.064 ug/L
RT: 5.838 min Scan# 1489
Delta R.T. 0.010 min
Lab File: VV037555.D
Acq: 26 Sep 2024 17:55

Instrument :
MSVOA_V
ClientSampleId :

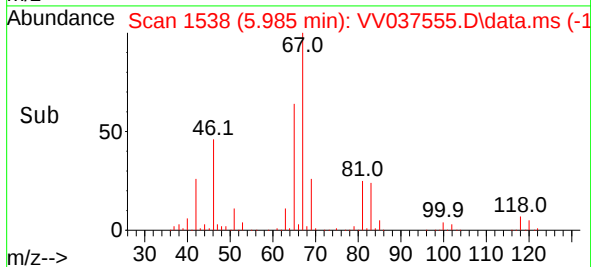
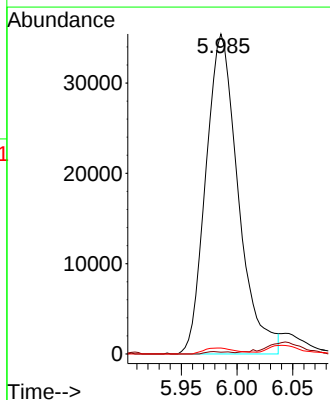
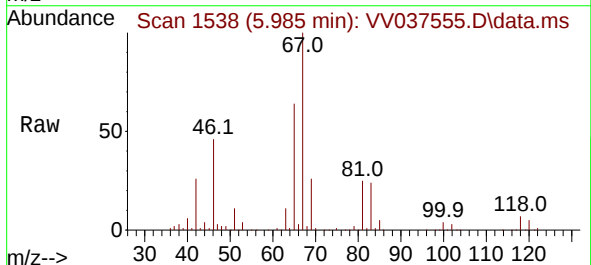


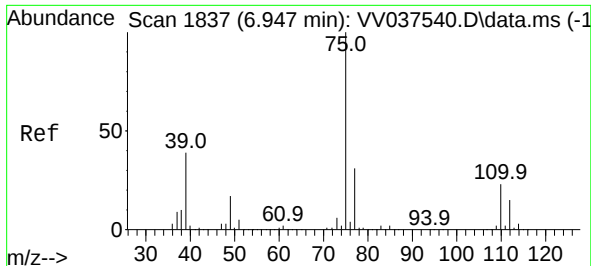
Tgt Ion:	95	Resp:	21732
Ion	Ratio	Lower	Upper
95	100		
97	67.4	46.3	85.9
132	86.5	68.6	127.4
130	92.9	70.9	131.7



#35
Methylcyclohexane
Concen: 8.703 ug/L
RT: 5.985 min Scan# 1538
Delta R.T. -0.058 min
Lab File: VV037555.D
Acq: 26 Sep 2024 17:55

Tgt Ion:	83	Resp:	71600
Ion	Ratio	Lower	Upper
83	100		
55	0.2	57.9	86.9#
98	1.9	39.3	58.9#





#39

cis-1,3-Dichloropropene

Concen: 1.029 ug/L

RT: 6.911 min Scan# 11

Delta R.T. -0.035 min

Lab File: VV037555.D

Acq: 26 Sep 2024 17:55

Instrument :

MSVOA_V

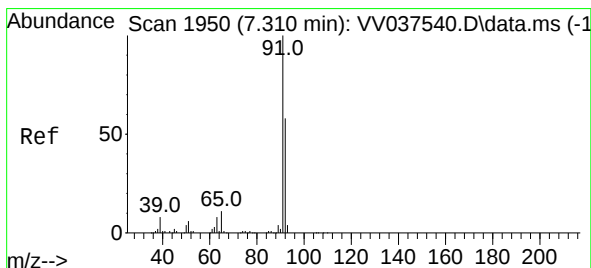
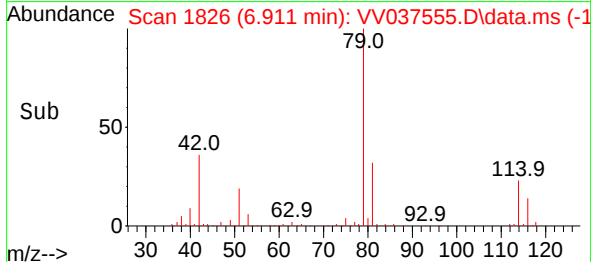
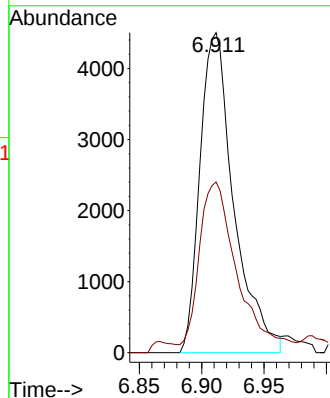
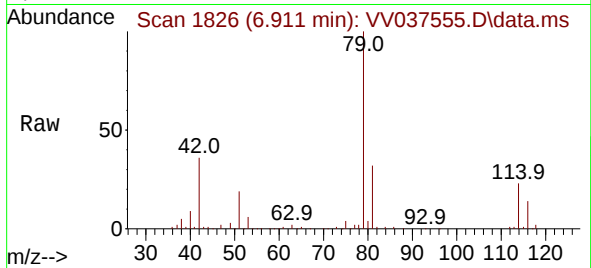
ClientSampleId :

Tgt Ion: 75 Resp: 8520

Ion Ratio Lower Upper

75 100

77 53.4 21.8 40.4#



#42

Toluene

Concen: 4.198 ug/L

RT: 7.317 min Scan# 1952

Delta R.T. 0.006 min

Lab File: VV037555.D

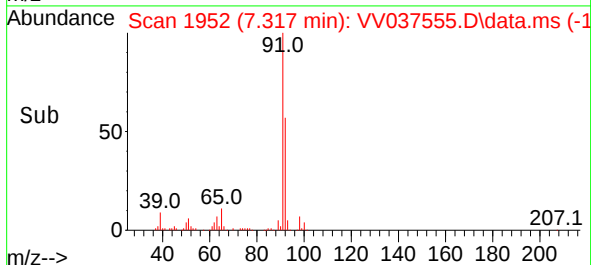
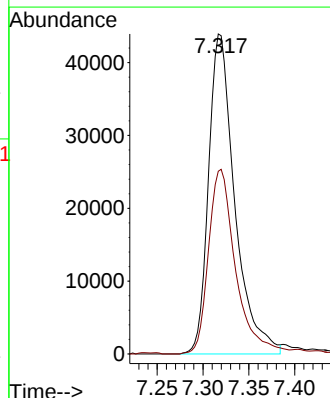
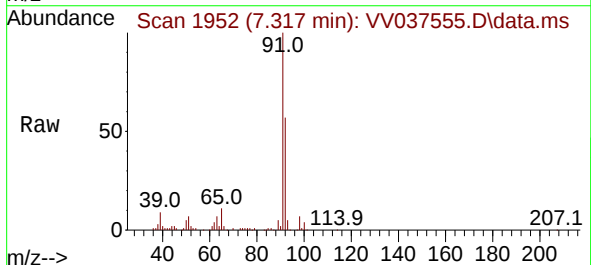
Acq: 26 Sep 2024 17:55

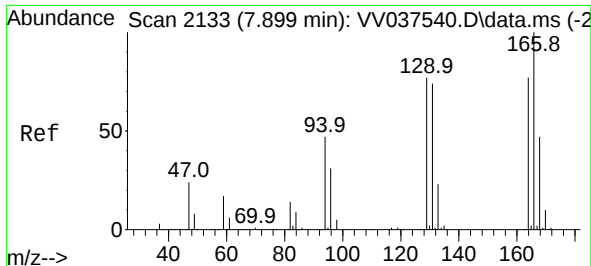
Tgt Ion: 91 Resp: 87401

Ion Ratio Lower Upper

91 100

92 57.1 41.1 76.3





#46

Tetrachloroethene

Concen: 12.707 ug/L

RT: 7.902 min Scan# 2134

Delta R.T. 0.003 min

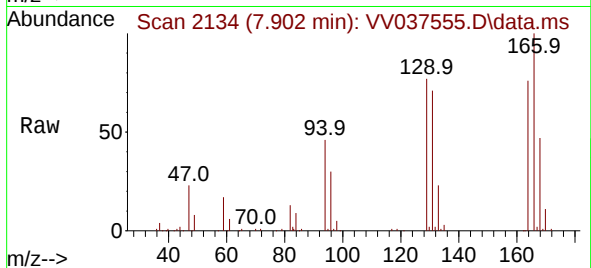
Lab File: VV037555.D

Acq: 26 Sep 2024 17:55

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion:164 Resp: 51958

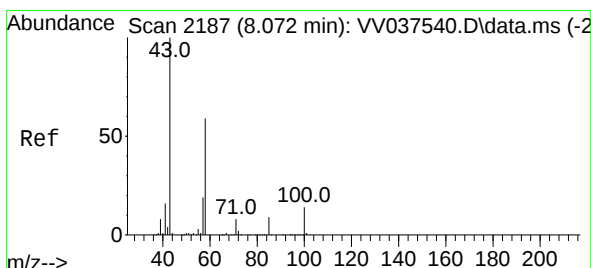
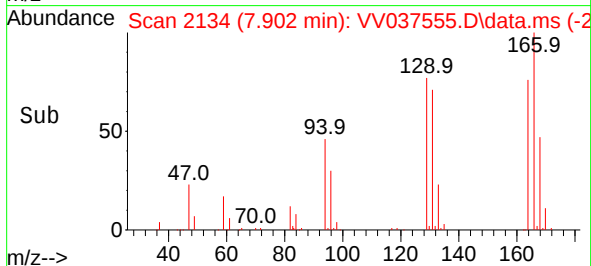
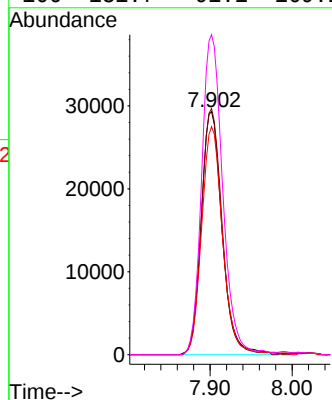
Ion Ratio Lower Upper

164 100

129 101.2 68.2 126.6

131 93.8 66.1 122.8

166 131.7 91.1 169.1



#48

2-Hexanone

Concen: 5.016 ug/L

RT: 8.024 min Scan# 2172

Delta R.T. -0.048 min

Lab File: VV037555.D

Acq: 26 Sep 2024 17:55

Tgt Ion: 43 Resp: 16469

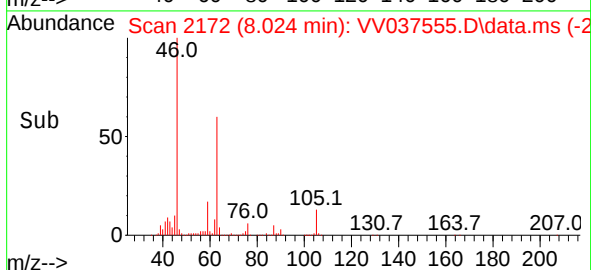
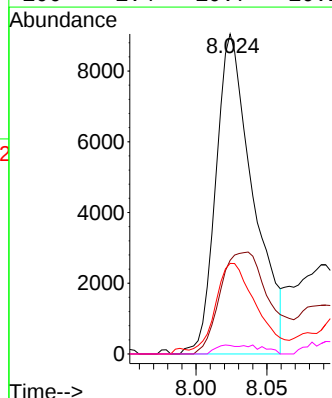
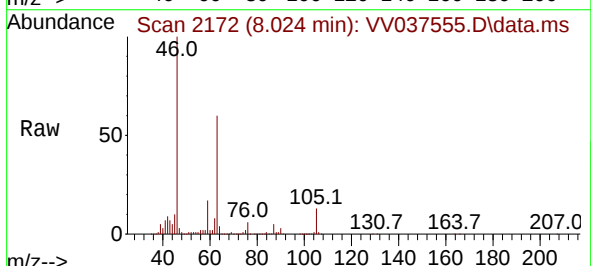
Ion Ratio Lower Upper

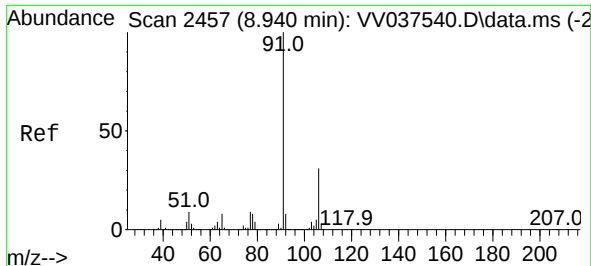
43 100

58 0.0 46.5 69.7#

57 29.7 15.1 22.7#

100 1.4 10.7 16.1#





#52

Ethylbenzene

Concen: 3.568 ug/L

RT: 8.947 min Scan# 2457

Delta R.T. 0.006 min

Lab File: VV037555.D

Acq: 26 Sep 2024 17:55

Instrument :

MSVOA_V

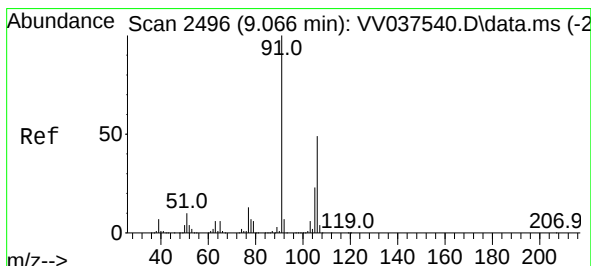
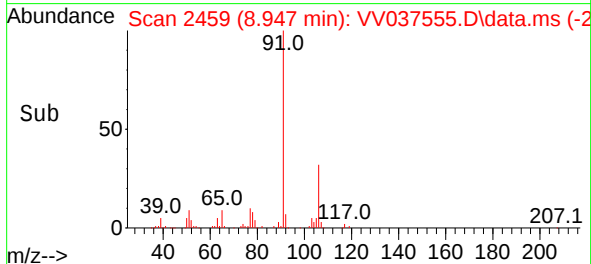
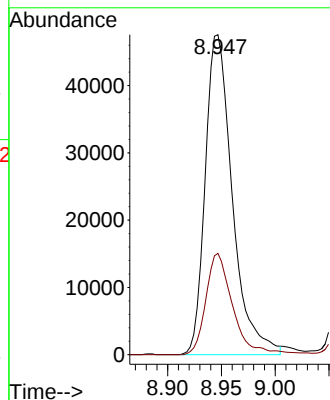
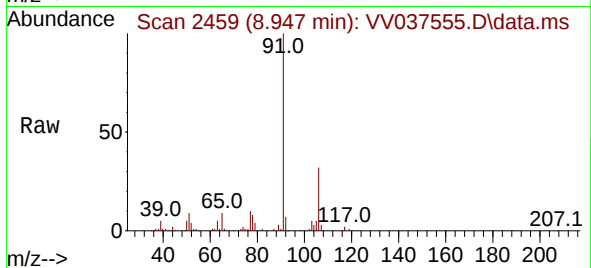
ClientSampleId :

Tgt Ion: 91 Resp: 83603

Ion Ratio Lower Upper

91 100

106 31.7 21.9 40.7



#53

m,p-Xylene

Concen: 3.717 ug/L

RT: 9.072 min Scan# 2498

Delta R.T. 0.006 min

Lab File: VV037555.D

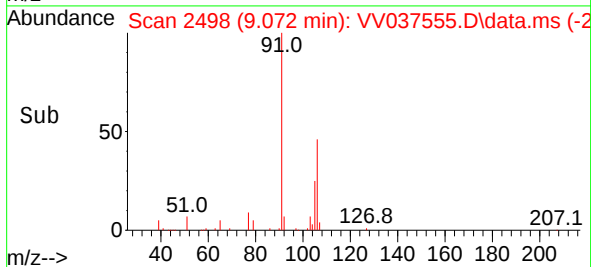
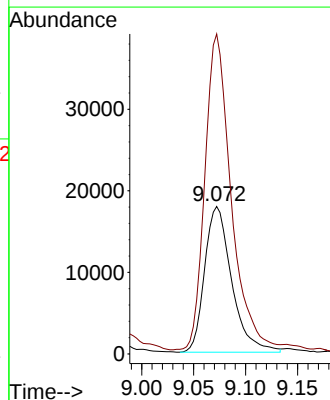
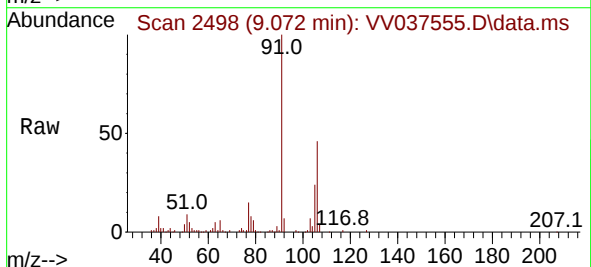
Acq: 26 Sep 2024 17:55

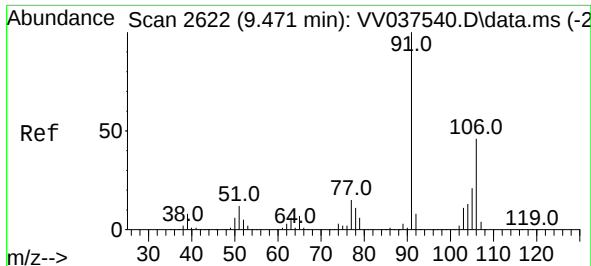
Tgt Ion:106 Resp: 32417

Ion Ratio Lower Upper

106 100

91 216.9 142.0 263.6

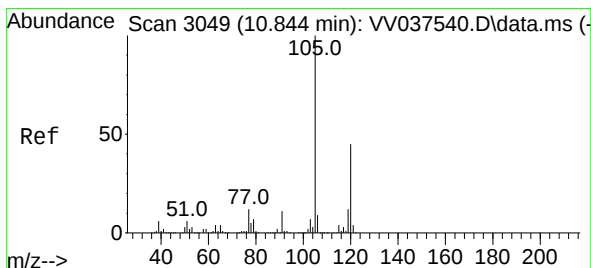
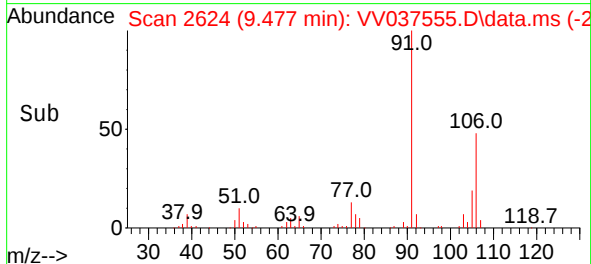
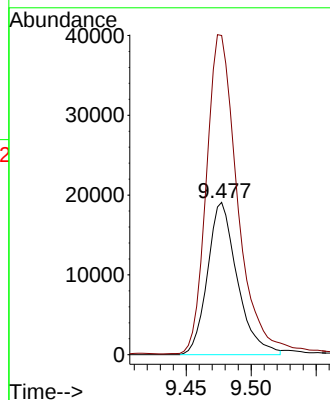
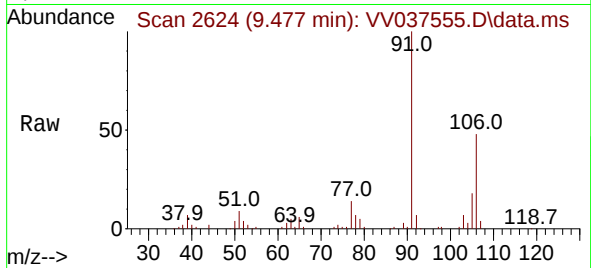




#54
o-Xylene
Concen: 3.568 ug/L
RT: 9.477 min Scan# 20
Delta R.T. 0.006 min
Lab File: VV037555.D
Acq: 26 Sep 2024 17:55

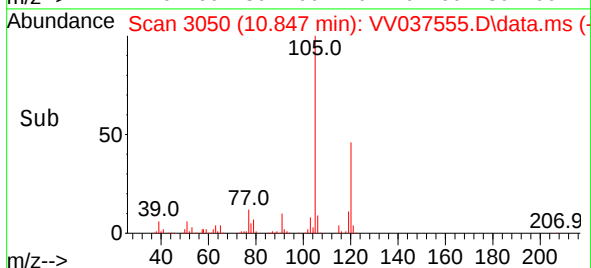
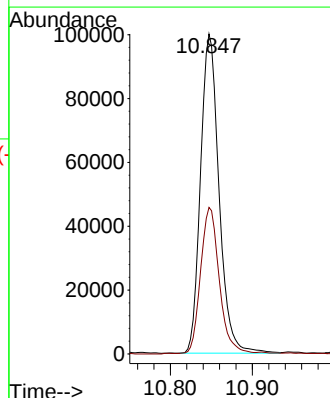
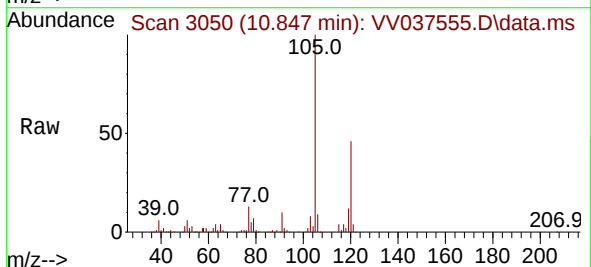
Instrument :
MSVOA_V
ClientSampleId :

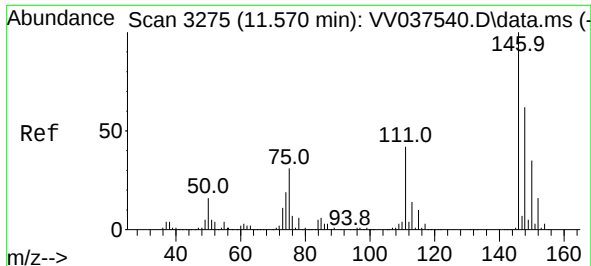
Tgt Ion:106 Resp: 30380
Ion Ratio Lower Upper
106 100
91 209.6 153.9 285.9



#63
1,2,4-Trimethylbenzene
Concen: 9.113 ug/L
RT: 10.847 min Scan# 3050
Delta R.T. 0.003 min
Lab File: VV037555.D
Acq: 26 Sep 2024 17:55

Tgt Ion:105 Resp: 156502
Ion Ratio Lower Upper
105 100
120 46.2 36.2 54.2





#67

1,2-Dichlorobenzene

Concen: 1.521 ug/L

RT: 11.570 min Scan# 31

Delta R.T. -0.000 min

Lab File: VV037555.D

Acq: 26 Sep 2024 17:55

Instrument :

MSVOA_V

ClientSampleId :

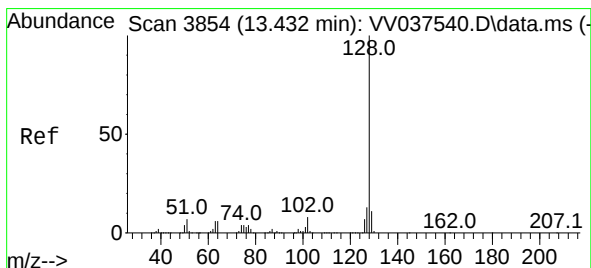
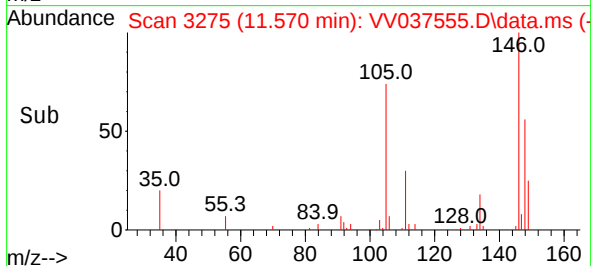
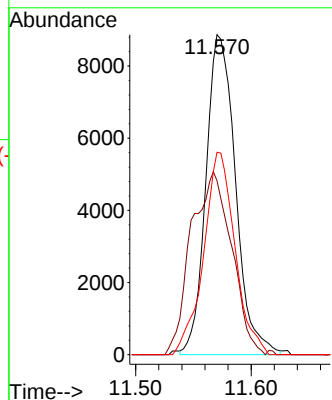
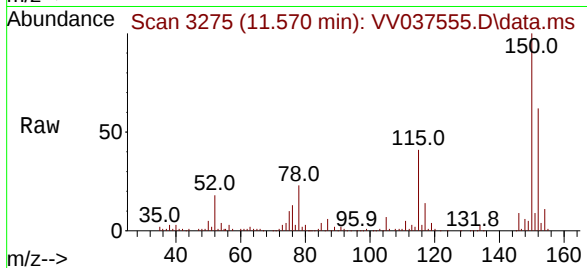
Tgt Ion:146 Resp: 15798

Ion Ratio Lower Upper

146 100

111 54.4 34.2 51.2#

148 63.3 50.9 76.3



#71

Naphthalene

Concen: 2.489 ug/L

RT: 13.439 min Scan# 3856

Delta R.T. 0.006 min

Lab File: VV037555.D

Acq: 26 Sep 2024 17:55

Tgt Ion:128 Resp: 43599

Ion Ratio Lower Upper

128 100

127 13.5 10.2 15.4

129 12.1 8.5 12.7

