

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092624\
 Data File : VV037556.D
 Acq On : 26 Sep 2024 18:16
 Operator : SY/MD
 Sample : P4184-05
 Misc : 5mL/MSVOA_V/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Sep 27 00:54:11 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	687328	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.779	117	657396	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.178	152	329316	50.000	ug/L	0.00

System Monitoring Compounds						
4) Vinyl Chloride-d3	1.278	65	261256	43.300	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	86.600%
7) Chloroethane-d5	1.532	69	201203	42.961	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	85.920%
11) 1,1-Dichloroethene-d2	2.059	65	109787	43.553	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	87.100%
21) 2-Butanone-d5	3.789	46	203931	94.893	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	94.890%
24) Chloroform-d	4.243	84	447752	41.711	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	83.420%
26) 1,2-Dichloroethane-d4	4.937	65	265495	42.255	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	84.500%
32) Benzene-d6	4.953	84	895352	43.525	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.040%
36) 1,2-Dichloropropane-d6	5.985	67	285346	43.561	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	87.120%
41) Toluene-d8	7.239	98	794560	42.596	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	85.200%
43) trans-1,3-Dichloroprop...	7.551	79	127334	41.845	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	83.700%
47) 2-Hexanone-d5	8.024	63	119402	86.323	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	86.320%
56) 1,1,2,2-Tetrachloroeth...	10.146	84	321078	42.185	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	84.380%
66) 1,2-Dichlorobenzene-d4	11.554	152	307672	44.337	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	88.680%

Target Compounds						Qvalue
5) Vinyl chloride	1.285	62	259828	42.664	ug/L	99
8) Chloroethane	1.548	64	394101	104.991	ug/L	98
10) 1,1,2-Trichloro-1,2,2-...	2.059	101	3437	0.702	ug/L #	23
17) trans-1,2-Dichloroethene	2.693	96	39417	8.143	ug/L	98
19) 1,1-Dichloroethane	3.104	63	4288885	462.418	ug/L	99
20) cis-1,2-Dichloroethene	3.805	96	2610673	481.926	ug/L	99
27) 1,2-Dichloroethane	5.053	62	11705	1.727	ug/L	95
30) 1,1,1-Trichloroethane	4.503	97	2599046	321.001	ug/L	99
31) Carbon tetrachloride	4.506	117	333300	47.348	ug/L	99
34) Trichloroethene	5.837	95	21467	4.066	ug/L	97
42) Toluene	7.317	91	85146	4.143	ug/L	97
46) Tetrachloroethene	7.902	164	54014	13.380	ug/L	99
52) Ethylbenzene	8.947	91	76693	3.315	ug/L	99
53) m,p-Xylene	9.072	106	28942	3.361	ug/L	99
54) o-Xylene	9.477	106	28370	3.375	ug/L	96
60) Isopropylbenzene	10.670	105	75665	3.534	ug/L	91
63) 1,2,4-Trimethylbenzene	10.847	105	132362	7.859	ug/L	100
67) 1,2-Dichlorobenzene	11.570	146	14921	1.465	ug/L	96
71) Naphthalene	13.445	128	23277	1.355	ug/L	98

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

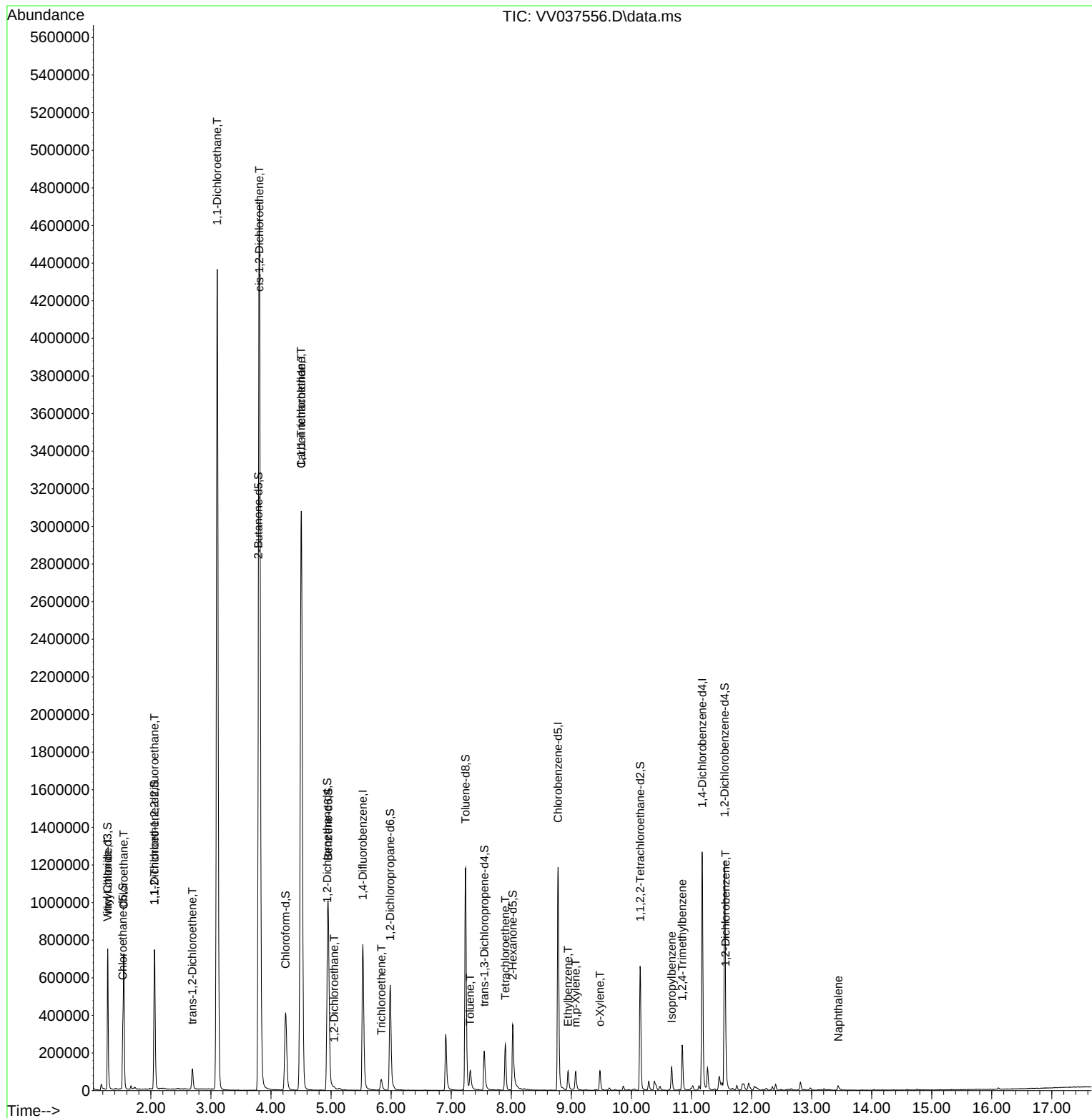
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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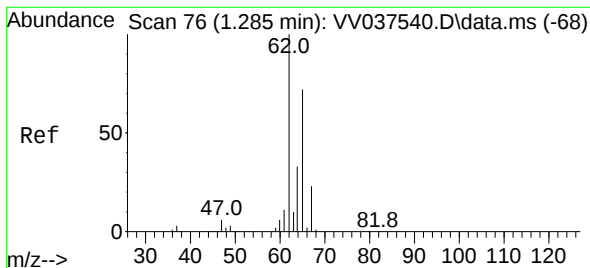
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 42.664 ug/L

RT: 1.285 min Scan# 76

Delta R.T. -0.000 min

Lab File: VV037556.D

Acq: 26 Sep 2024 18:16

Instrument :

MSVOA_V

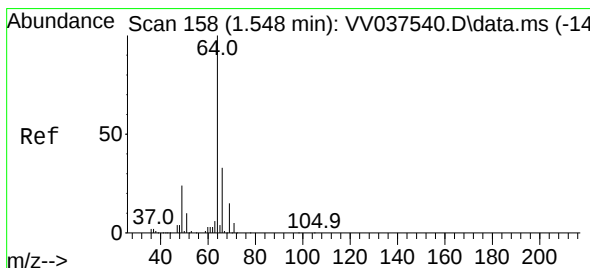
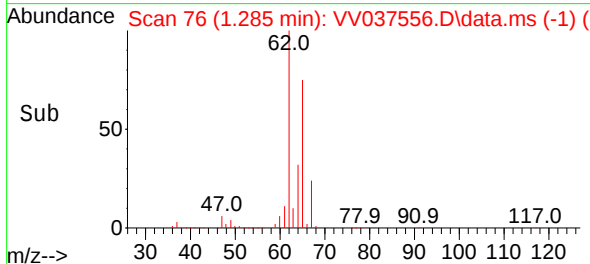
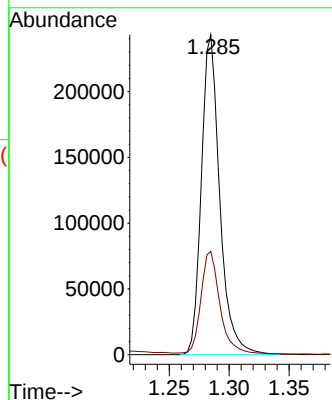
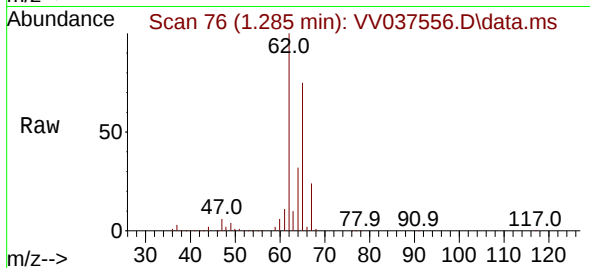
ClientSampleId :

Tgt Ion: 62 Resp: 259828

Ion Ratio Lower Upper

62 100

64 32.3 23.2 43.0



#8

Chloroethane

Concen: 104.991 ug/L

RT: 1.548 min Scan# 158

Delta R.T. -0.000 min

Lab File: VV037556.D

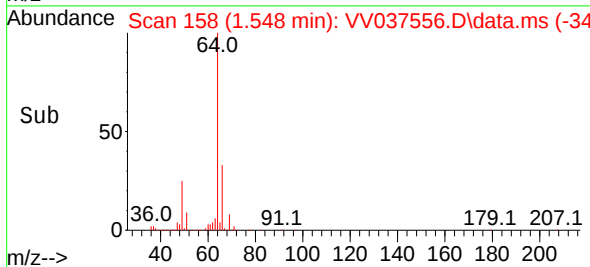
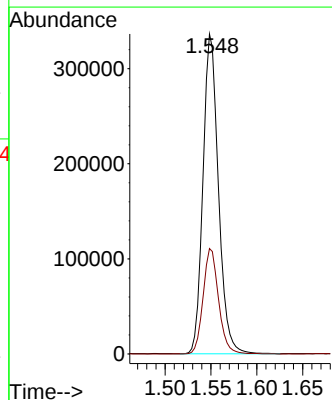
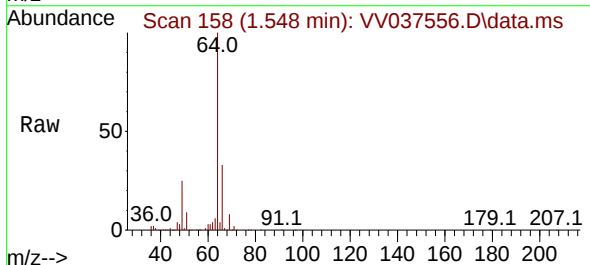
Acq: 26 Sep 2024 18:16

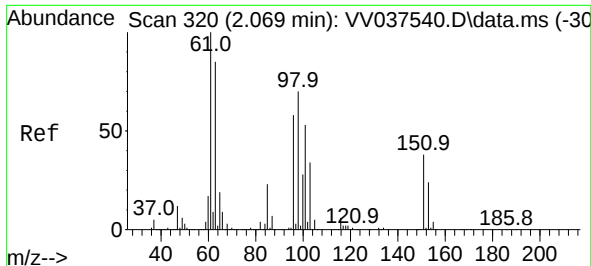
Tgt Ion: 64 Resp: 394101

Ion Ratio Lower Upper

64 100

66 32.9 22.2 41.2

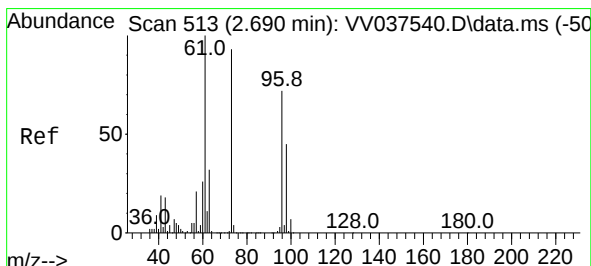
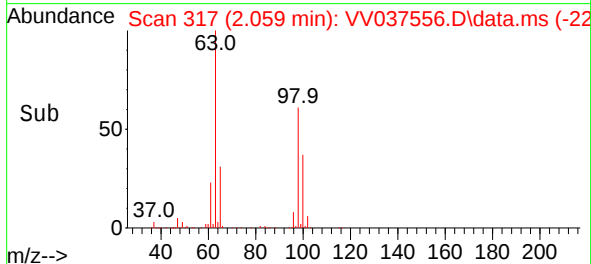
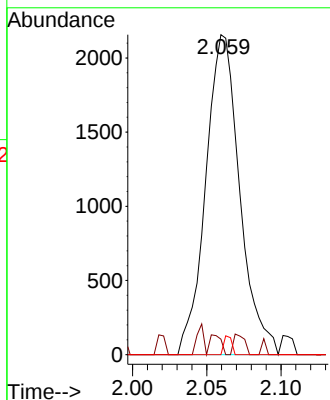
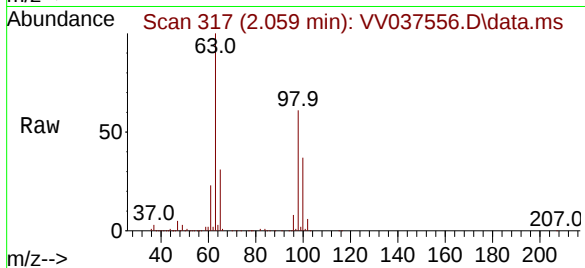




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.702 ug/L
RT: 2.059 min Scan# 317
Delta R.T. -0.010 min
Lab File: VV037556.D
Acq: 26 Sep 2024 18:16

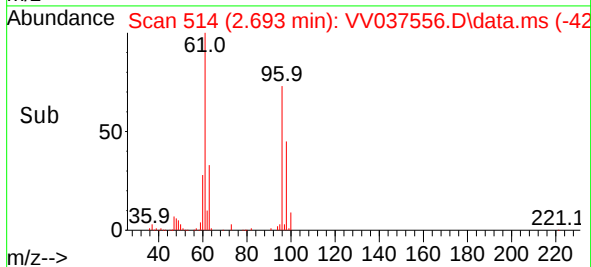
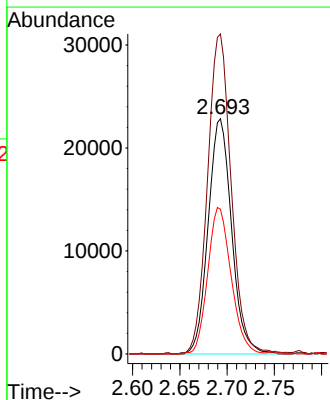
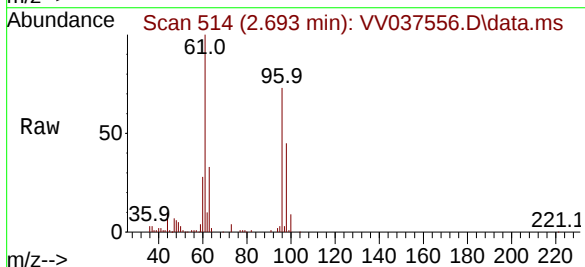
Instrument :
MSVOA_V
ClientSampleId :

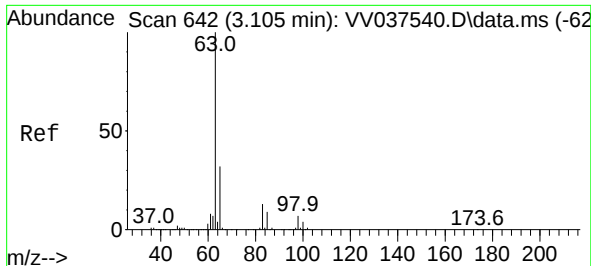
Tgt Ion:101 Resp: 3437
Ion Ratio Lower Upper
101 100
85 2.1 34.6 52.0#
151 1.4 57.5 86.3#



#17
trans-1,2-Dichloroethene
Concen: 8.143 ug/L
RT: 2.693 min Scan# 514
Delta R.T. 0.003 min
Lab File: VV037556.D
Acq: 26 Sep 2024 18:16

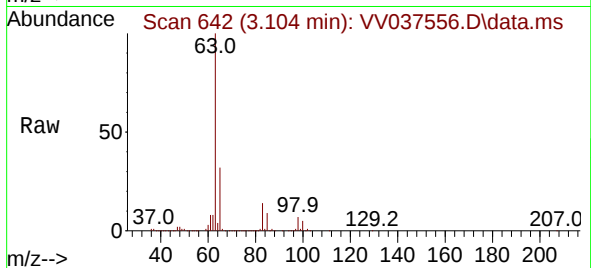
Tgt Ion: 96 Resp: 39417
Ion Ratio Lower Upper
96 100
61 136.1 97.3 180.7
98 61.6 43.9 81.5





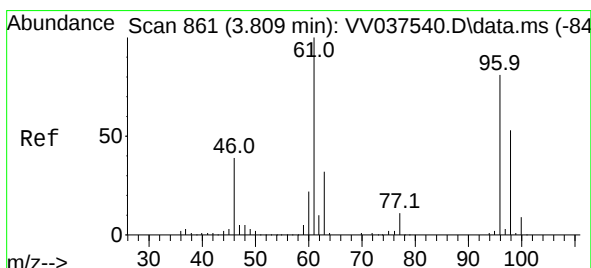
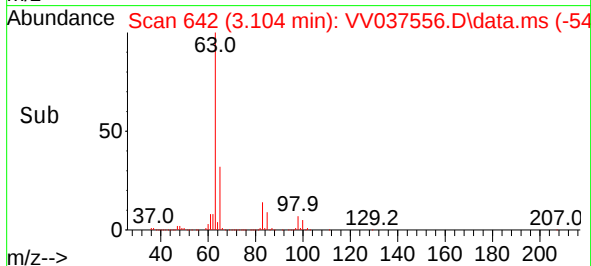
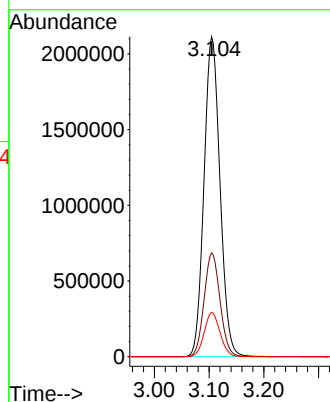
#19
1,1-Dichloroethane
Concen: 462.418 ug/L
RT: 3.104 min Scan# 64
Delta R.T. -0.000 min
Lab File: VV037556.D
Acq: 26 Sep 2024 18:16

Instrument :
MSVOA_V
ClientSampleId :



Tgt Ion: 63 Resp: 4288885

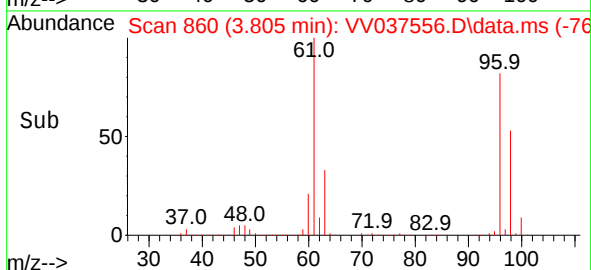
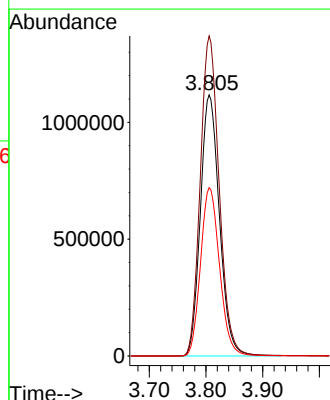
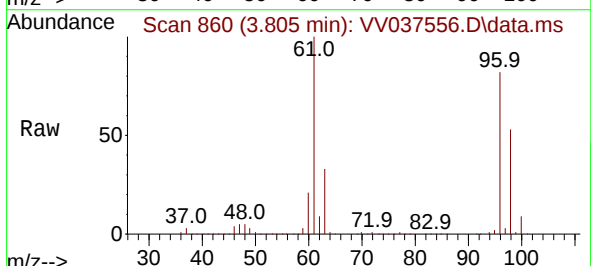
Ion	Ratio	Lower	Upper
63	100		
65	32.5	22.4	41.6
83	13.8	9.5	17.7

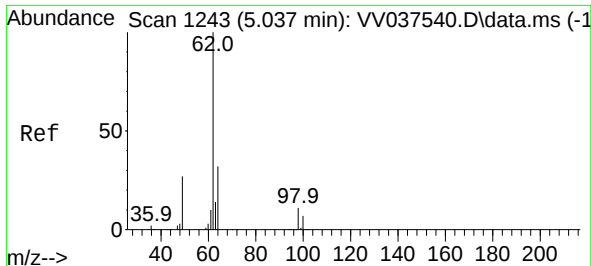


#20
cis-1,2-Dichloroethene
Concen: 481.926 ug/L
RT: 3.805 min Scan# 860
Delta R.T. -0.003 min
Lab File: VV037556.D
Acq: 26 Sep 2024 18:16

Tgt Ion: 96 Resp: 2610673

Ion	Ratio	Lower	Upper
96	100		
61	122.5	85.0	157.8
98	64.5	44.2	82.0

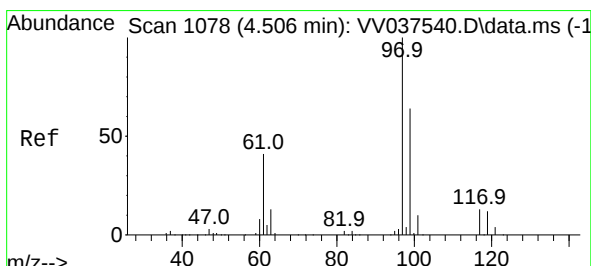
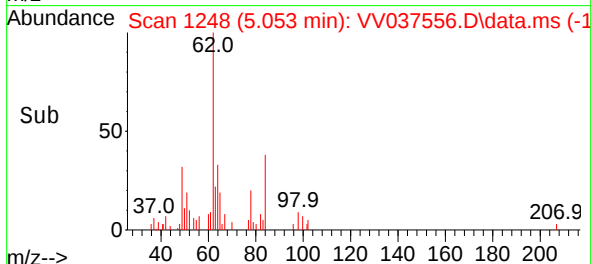
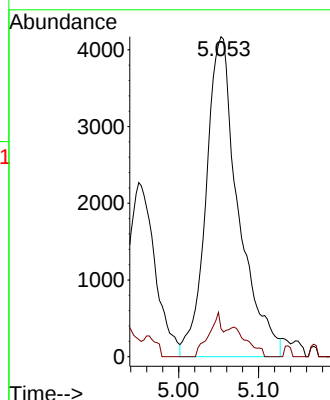
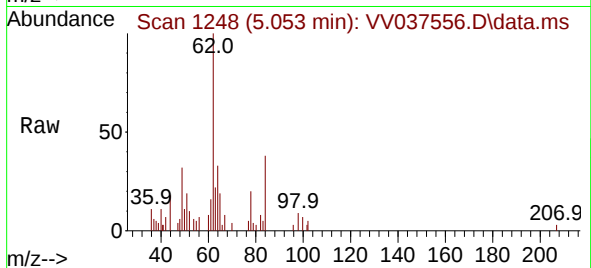




#27
1,2-Dichloroethane
Concen: 1.727 ug/L
RT: 5.053 min Scan# 11
Delta R.T. 0.016 min
Lab File: VV037556.D
Acq: 26 Sep 2024 18:16

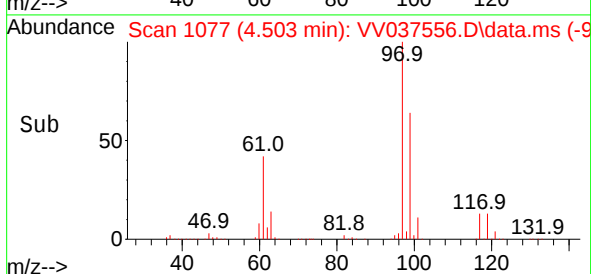
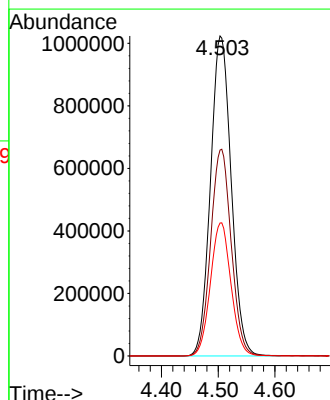
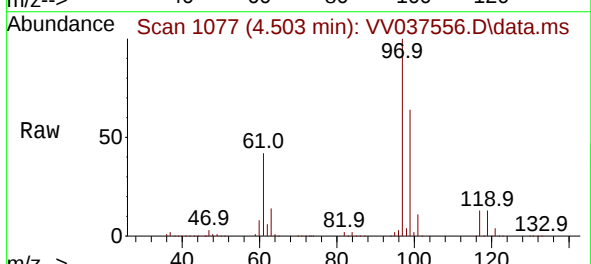
Instrument :
MSVOA_V
ClientSampleId :

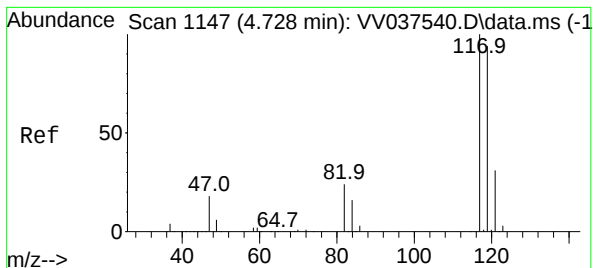
Tgt Ion: 62 Resp: 11705
Ion Ratio Lower Upper
62 100
98 8.8 8.4 12.6



#30
1,1,1-Trichloroethane
Concen: 321.001 ug/L
RT: 4.503 min Scan# 1077
Delta R.T. -0.003 min
Lab File: VV037556.D
Acq: 26 Sep 2024 18:16

Tgt Ion: 97 Resp: 2599046
Ion Ratio Lower Upper
97 100
99 64.3 51.8 77.6
61 41.2 33.6 50.4





#31

Carbon tetrachloride

Concen: 47.348 ug/L

RT: 4.506 min Scan# 1

Delta R.T. -0.222 min

Lab File: VV037556.D

Acq: 26 Sep 2024 18:16

Instrument :

MSVOA_V

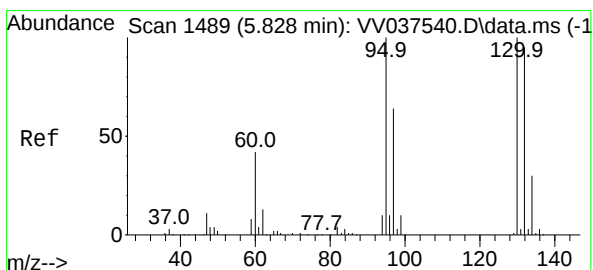
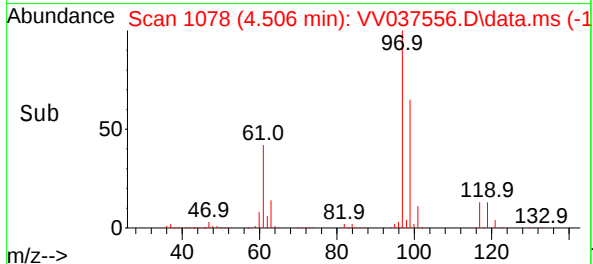
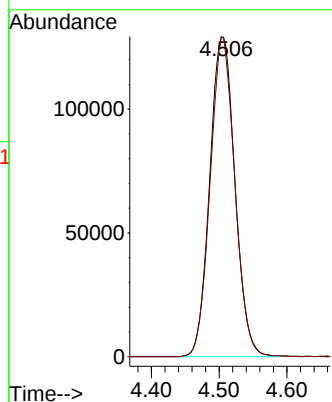
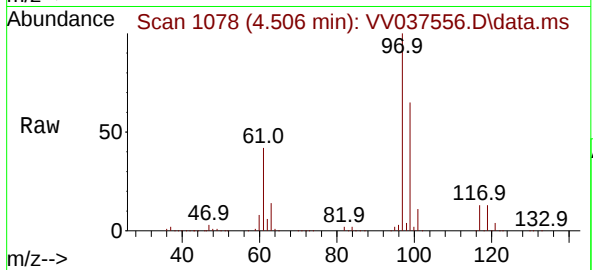
ClientSampleId :

Tgt Ion:117 Resp: 333300

Ion Ratio Lower Upper

117 100

119 97.5 76.9 115.3



#34

Trichloroethene

Concen: 4.066 ug/L

RT: 5.837 min Scan# 1492

Delta R.T. 0.010 min

Lab File: VV037556.D

Acq: 26 Sep 2024 18:16

Tgt Ion: 95 Resp: 21467

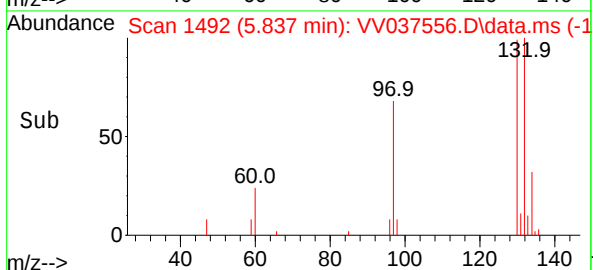
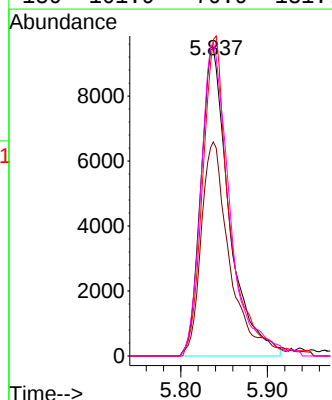
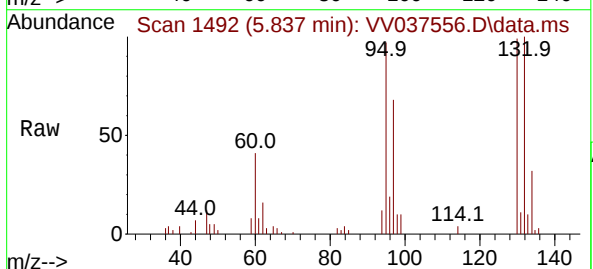
Ion Ratio Lower Upper

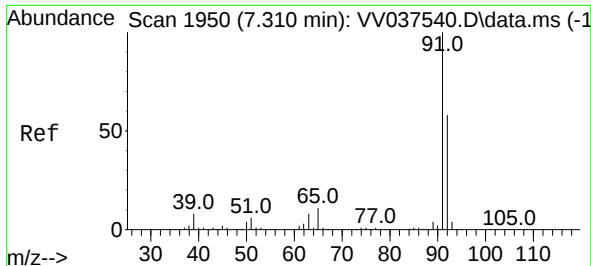
95 100

97 69.6 46.3 85.9

132 102.8 68.6 127.4

130 101.9 70.9 131.7





#42

Toluene

Concen: 4.143 ug/L

RT: 7.317 min Scan# 1950

Delta R.T. 0.006 min

Lab File: VV037556.D

Acq: 26 Sep 2024 18:16

Instrument :

MSVOA_V

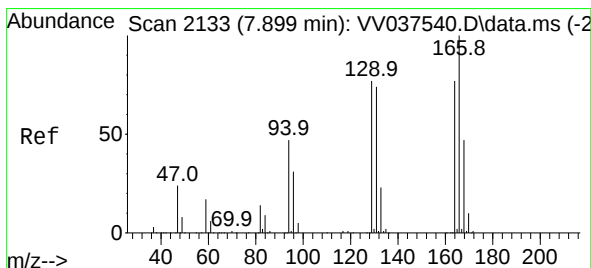
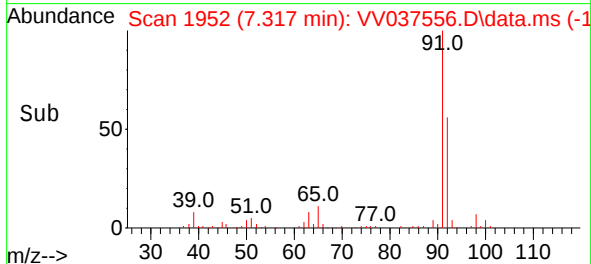
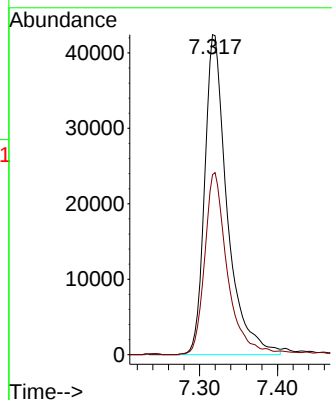
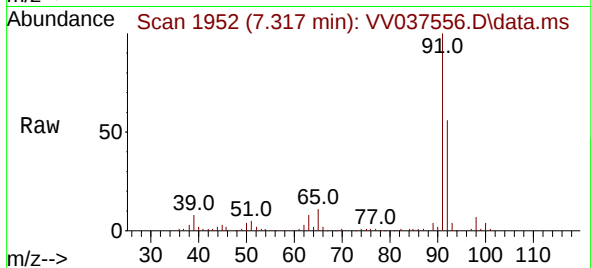
ClientSampleId :

Tgt Ion: 91 Resp: 85146

Ion Ratio Lower Upper

91 100

92 56.2 41.1 76.3



#46

Tetrachloroethene

Concen: 13.380 ug/L

RT: 7.902 min Scan# 2134

Delta R.T. 0.003 min

Lab File: VV037556.D

Acq: 26 Sep 2024 18:16

Tgt Ion: 164 Resp: 54014

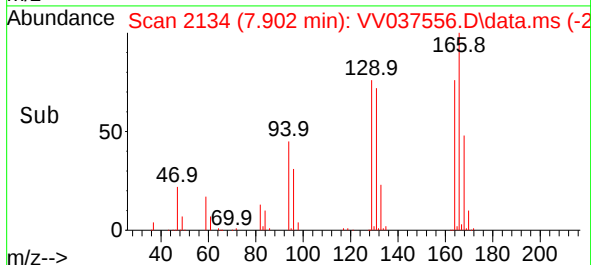
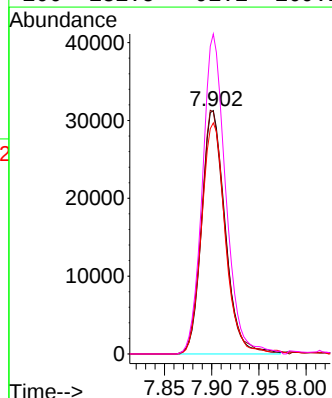
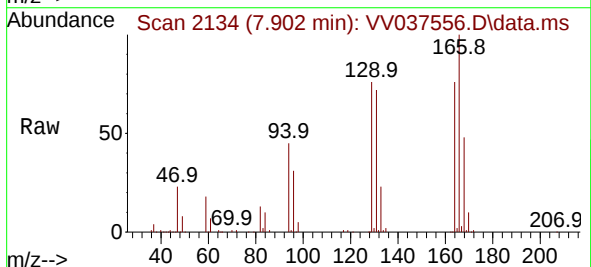
Ion Ratio Lower Upper

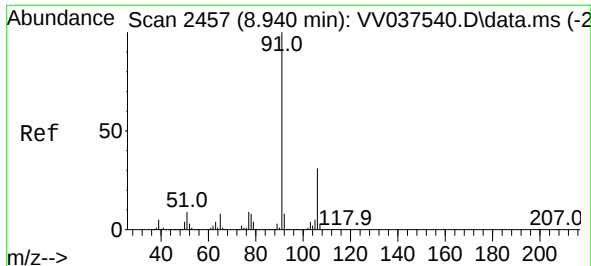
164 100

129 99.5 68.2 126.6

131 94.9 66.1 122.8

166 131.5 91.1 169.1





#52

Ethylbenzene

Concen: 3.315 ug/L

RT: 8.947 min Scan# 2457

Delta R.T. 0.006 min

Lab File: VV037556.D

Acq: 26 Sep 2024 18:16

Instrument :

MSVOA_V

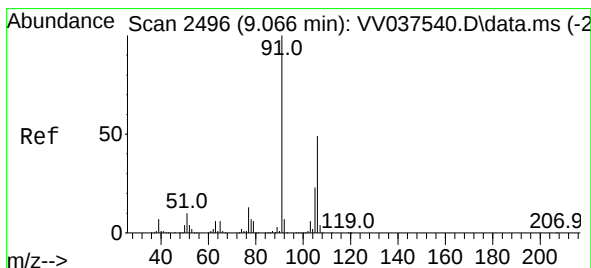
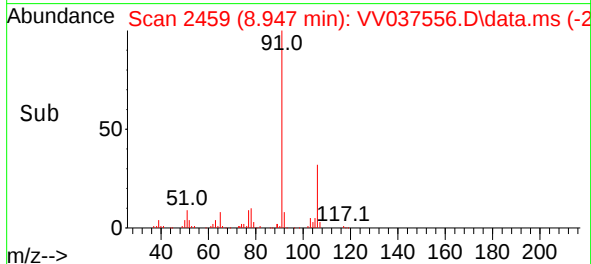
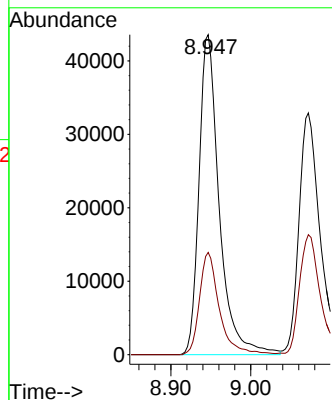
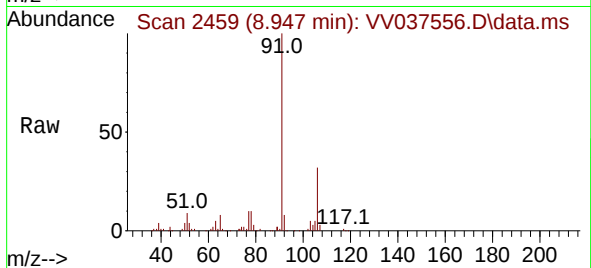
ClientSampleId :

Tgt Ion: 91 Resp: 76693

Ion Ratio Lower Upper

91 100

106 32.0 21.9 40.7



#53

m,p-Xylene

Concen: 3.361 ug/L

RT: 9.072 min Scan# 2498

Delta R.T. 0.006 min

Lab File: VV037556.D

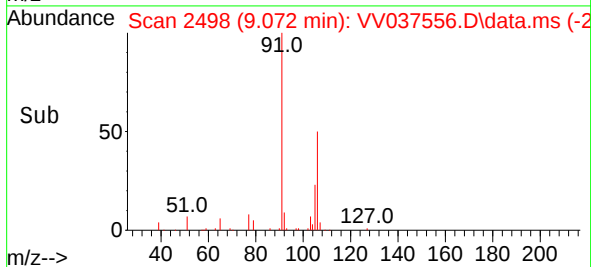
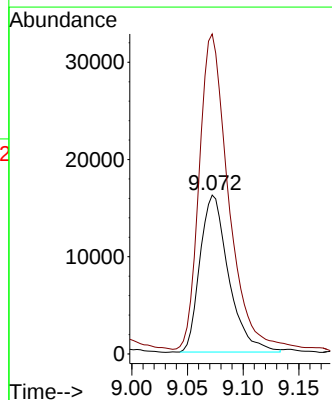
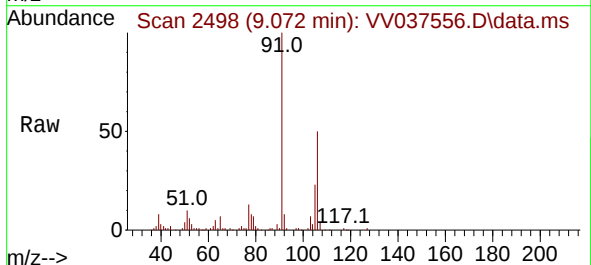
Acq: 26 Sep 2024 18:16

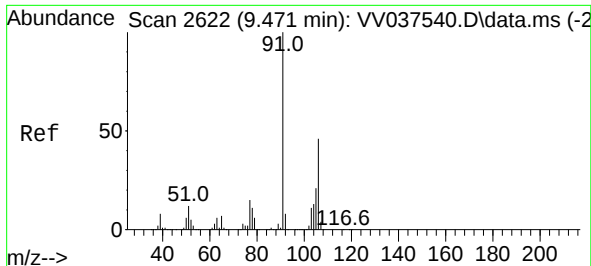
Tgt Ion: 106 Resp: 28942

Ion Ratio Lower Upper

106 100

91 201.3 142.0 263.6

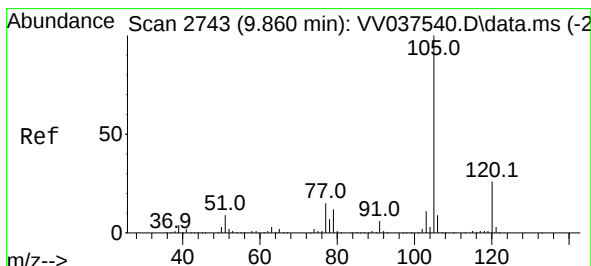
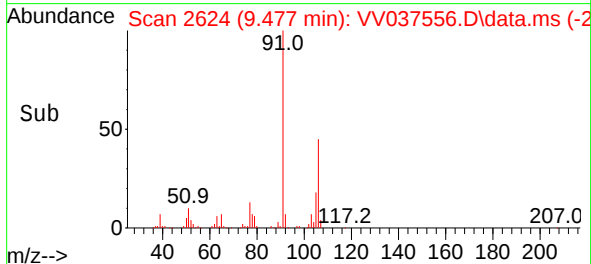
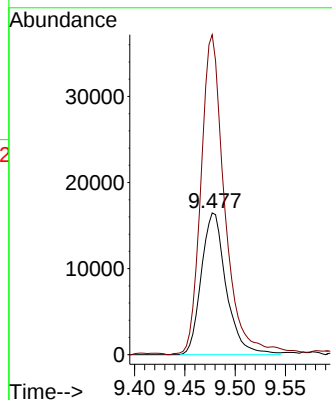
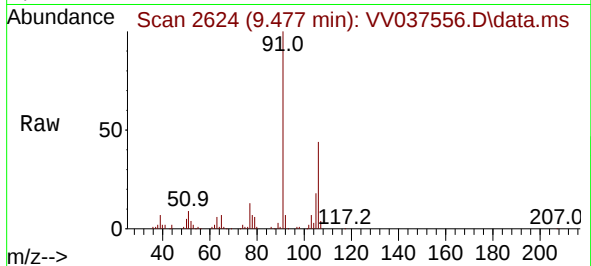




#54
o-Xylene
Concen: 3.375 ug/L
RT: 9.477 min Scan# 2095
Delta R.T. 0.006 min
Lab File: VV037556.D
Acq: 26 Sep 2024 18:16

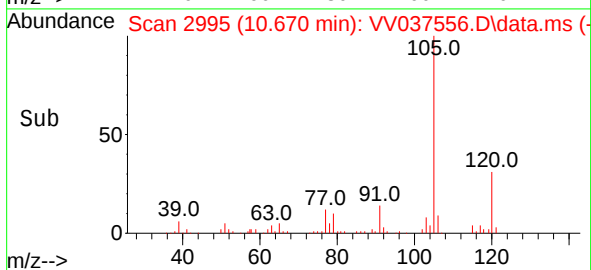
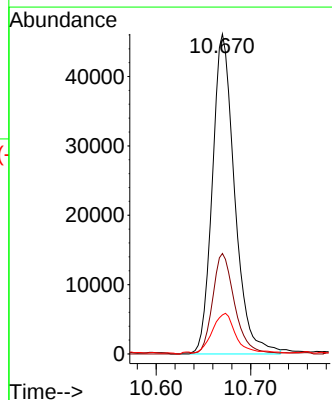
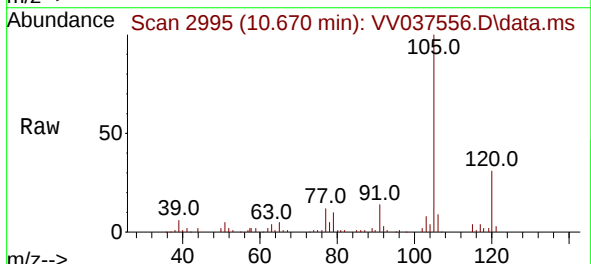
Instrument :
MSVOA_V
ClientSampleId :

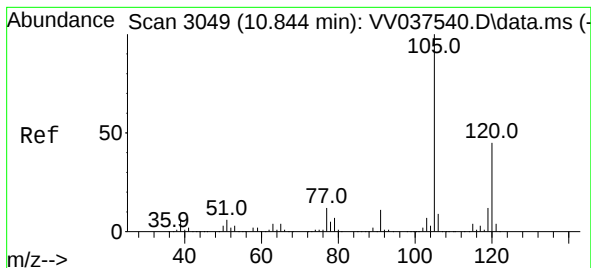
Tgt Ion:106 Resp: 28370
Ion Ratio Lower Upper
106 100
91 225.8 153.9 285.9



#60
Isopropylbenzene
Concen: 3.534 ug/L
RT: 10.670 min Scan# 2995
Delta R.T. 0.810 min
Lab File: VV037556.D
Acq: 26 Sep 2024 18:16

Tgt Ion:105 Resp: 75665
Ion Ratio Lower Upper
105 100
120 31.0 20.7 31.1
77 12.6 12.2 18.2





#63

1,2,4-Trimethylbenzene

Concen: 7.859 ug/L

RT: 10.847 min Scan# 3049

Delta R.T. 0.003 min

Lab File: VV037556.D

Acq: 26 Sep 2024 18:16

Instrument :

MSVOA_V

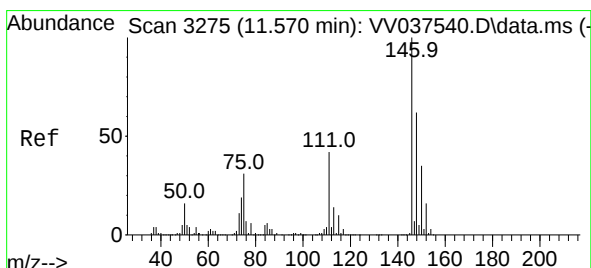
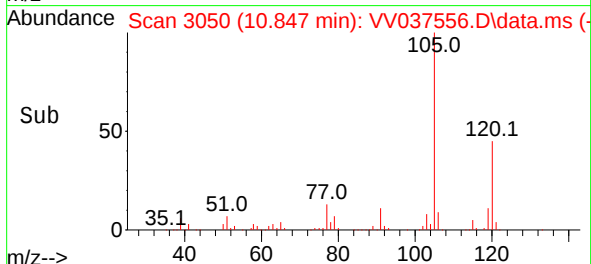
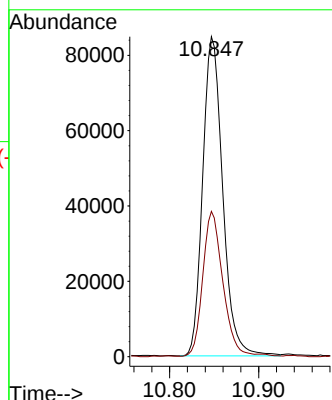
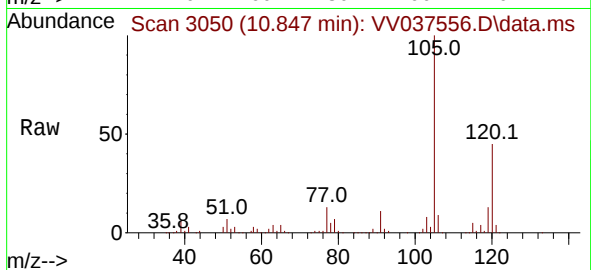
ClientSampleId :

Tgt Ion:105 Resp: 132362

Ion Ratio Lower Upper

105 100

120 45.0 36.2 54.2



#67

1,2-Dichlorobenzene

Concen: 1.465 ug/L

RT: 11.570 min Scan# 3275

Delta R.T. -0.000 min

Lab File: VV037556.D

Acq: 26 Sep 2024 18:16

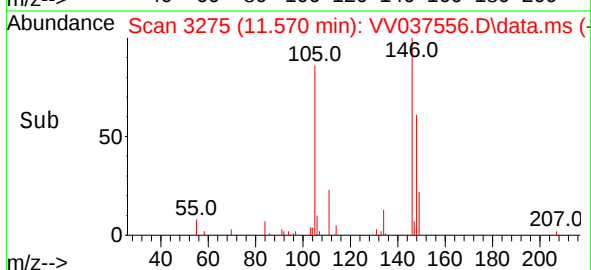
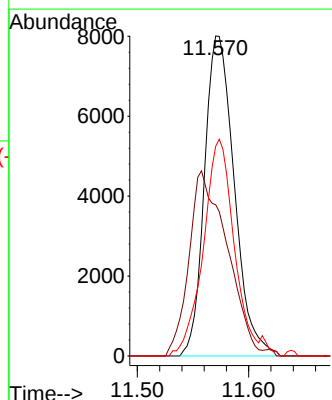
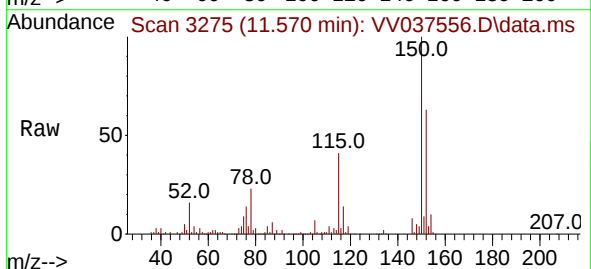
Tgt Ion:146 Resp: 14921

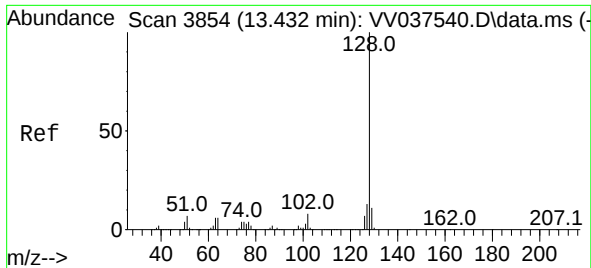
Ion Ratio Lower Upper

146 100

111 47.2 34.2 51.2

148 65.6 50.9 76.3





#71
Naphthalene
Concen: 1.355 ug/L
RT: 13.445 min Scan# 31
Delta R.T. 0.013 min
Lab File: VV037556.D
Acq: 26 Sep 2024 18:16

Instrument :
MSVOA_V
ClientSampleId :

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.6	10.2	15.4
129	11.1	8.5	12.7

