

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW062724\
 Data File : VW036309.D
 Acq On : 27 Jun 2024 15:23
 Operator : SY/MD
 Sample : VIBLK
 Misc : 5.00g/10.0mL/MSVOA_V/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Jun 28 02:30:04 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM062724SMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Jun 28 00:39:40 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.567	114	36	25.000	ug/L	# 0.04
28) Chlorobenzene-d5	8.808	117	1605	25.000	ug/L	# 0.03
58) 1,4-Dichlorobenzene-d4	11.197	152	2175	25.000	ug/L	0.02
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.224	65	387	632.982	ug/L	-0.05
Spiked Amount	25.000	Range	30 - 150	Recovery	= 2531.920%#	
7) Chloroethane-d5	1.523	69	142	290.782	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	= 1163.120%#	
11) 1,1-Dichloroethene-d2	2.037	65	42	146.130	ug/L	-0.01
Spiked Amount	25.000	Range	45 - 110	Recovery	= 584.520%#	
21) 2-Butanone-d5	3.867	46	195	1374.232	ug/L	0.03
Spiked Amount	50.000	Range	20 - 135	Recovery	= 2748.460%#	
24) Chloroform-d	0.000	84	0	0.000	ug/L	
Spiked Amount	25.000	Range	40 - 150	Recovery	= 0.000%#	
26) 1,2-Dichloroethane-d4	0.000	65	0	0.000	ug/L	
Spiked Amount	25.000	Range	70 - 130	Recovery	= 0.000%#	
32) Benzene-d6	4.976	84	188	2.075	ug/L	0.02
Spiked Amount	25.000	Range	20 - 135	Recovery	= 8.280%#	
36) 1,2-Dichloropropane-d6	6.034	67	41	1.504	ug/L	0.05
Spiked Amount	25.000	Range	70 - 120	Recovery	= 6.000%#	
41) Toluene-d8	7.268	98	288	3.526	ug/L	0.03
Spiked Amount	25.000	Range	30 - 130	Recovery	= 14.120%#	
43) trans-1,3-Dichloroprop...	0.000	79	0	0.000	ug/L	
Spiked Amount	25.000	Range	30 - 135	Recovery	= 0.000%#	
47) 2-Hexanone-d5	0.000	63	0	0.000	ug/L	
Spiked Amount	50.000	Range	20 - 135	Recovery	= 0.000%#	
56) 1,1,2,2-Tetrachloroeth...	10.156	84	186	8.326	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	= 33.320%#	
66) 1,2-Dichlorobenzene-d4	11.574	152	1645	20.754	ug/L	0.02
Spiked Amount	25.000	Range	75 - 120	Recovery	= 83.000%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.101	85	72	105.264	ug/L #	42
3) Chloromethane	1.211	50	744	1201.660	ug/L #	71
5) Vinyl chloride	1.333	62	43	60.144	ug/L #	41
6) Bromomethane	1.481	94	871	1811.373	ug/L	77
8) Chloroethane	1.539	64	65	147.513	ug/L #	1
12) 1,1-Dichloroethene	2.066	96	154	271.579	ug/L #	12
13) Acetone	2.143	43	364	1898.732	ug/L #	5
14) Carbon disulfide	2.233	76	374	209.046	ug/L #	29
15) Methyl Acetate	2.384	43	134	543.187	ug/L #	45
16) Methylene chloride	2.442	84	26952	38028.331	ug/L	96
22) 2-Butanone	3.905	43	123	760.922	ug/L #	49
25) Chloroform	4.272	83	152	142.362	ug/L #	18
40) 4-Methyl-2-pentanone	7.034	43	64	4.674	ug/L #	1
45) 1,1,2-Trichloroethane	7.866	97	93	4.334	ug/L #	15
48) 2-Hexanone	8.181	43	41	3.807	ug/L #	1
52) Ethylbenzene	9.124	91	43	0.401	ug/L #	44
60) Isopropylbenzene	9.870	105	373	1.419	ug/L #	30
61) 1,2,3-Trichloropropane	10.323	75	121	2.465	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.857	105	1134	6.027	ug/L	90

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Instrument :
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ClientSampleId :

Quant Time: Jun 28 02:30:04 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM062724SMA.M
Quant Title : VOC Analysis
QLast Update : Fri Jun 28 00:39:40 2024
Response via : Initial Calibration

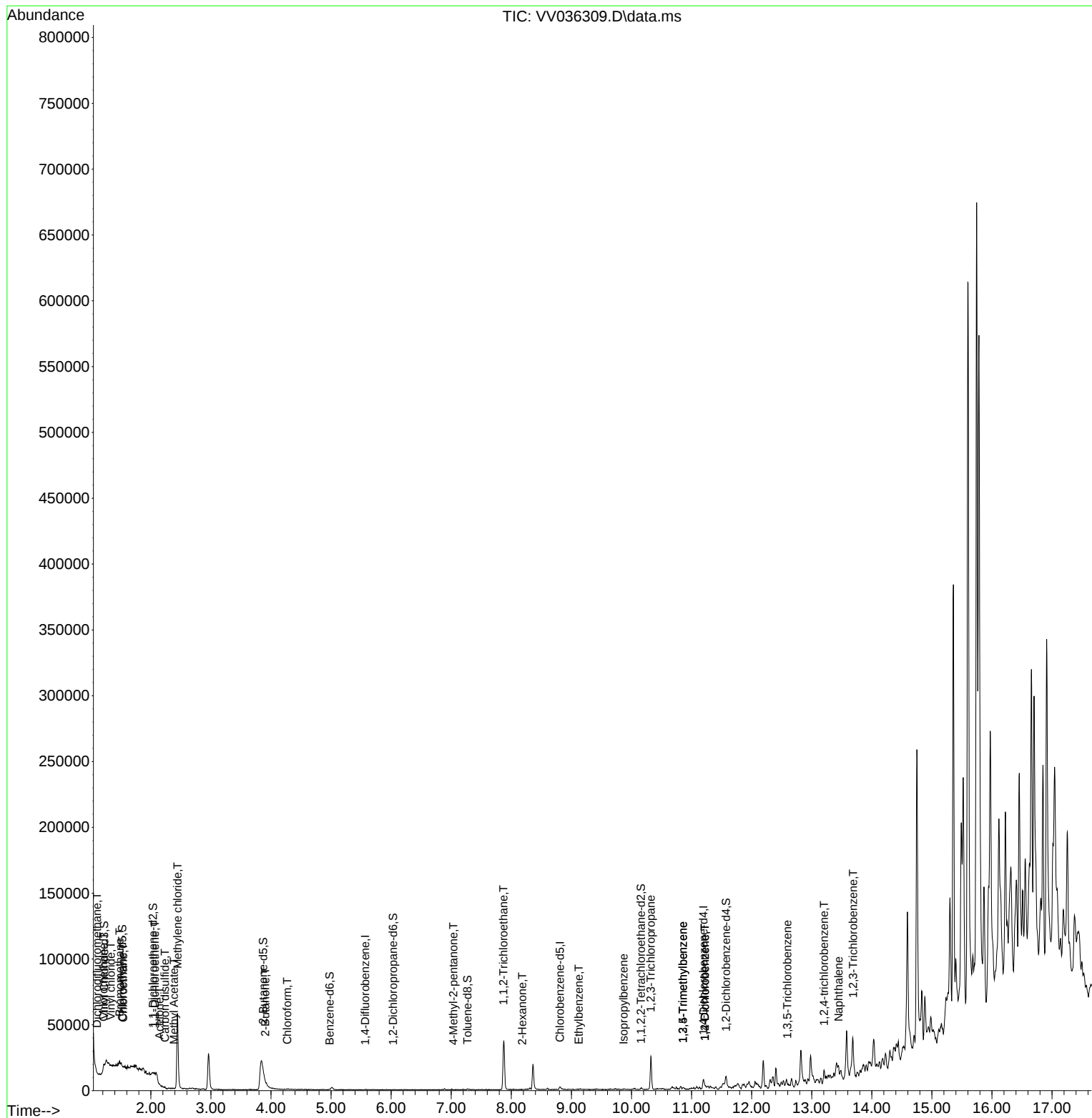
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
63) 1,2,4-Trimethylbenzene	10.857	105	1134	5.546	ug/L	95
65) 1,4-Dichlorobenzene	11.220	146	213	1.450	ug/L #	50
67) 1,2-Dichlorobenzene	11.220	146	213	1.629	ug/L #	53
69) 1,3,5-Trichlorobenzene	12.593	180	203	1.968	ug/L #	72
70) 1,2,4-trichlorobenzene	13.204	180	153	1.860	ug/L #	1
71) Naphthalene	13.448	128	5121	34.914	ug/L	98
72) 1,2,3-Trichlorobenzene	13.689	180	478	6.179	ug/L #	86

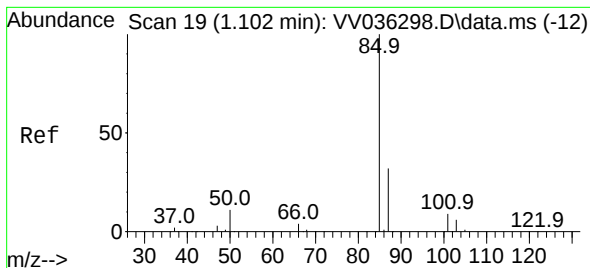
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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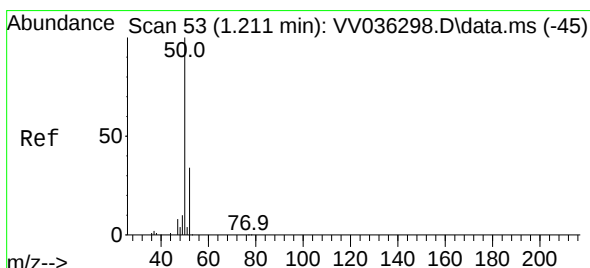
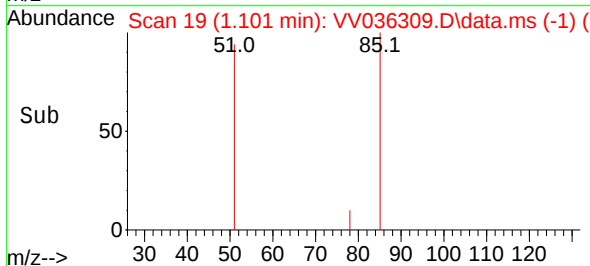
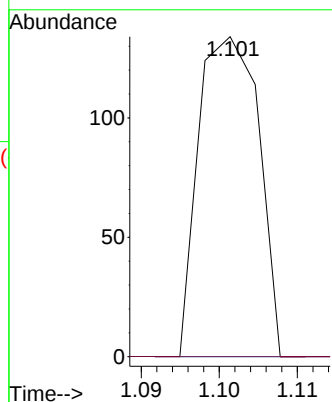
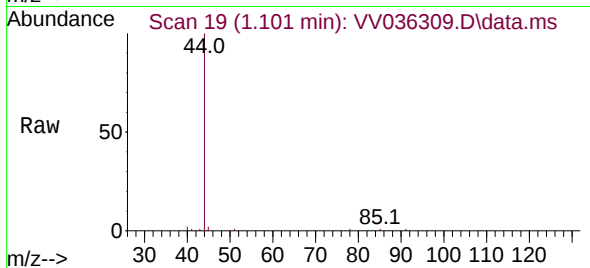




#2
 Dichlorodifluoromethane
 Concen: 105.264 ug/L
 RT: 1.101 min Scan# 19
 Delta R.T. -0.000 min
 Lab File: VV036309.D
 Acq: 27 Jun 2024 15:23

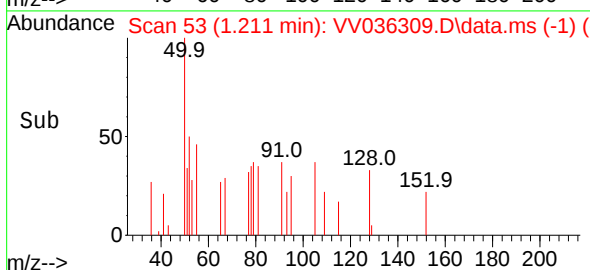
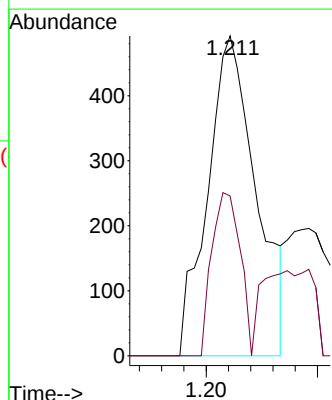
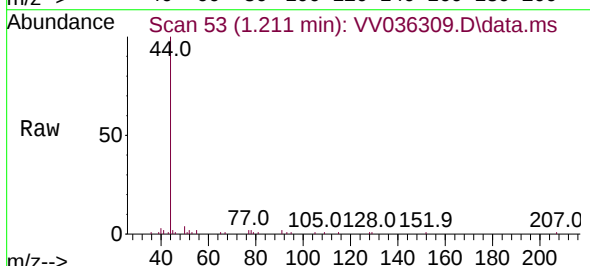
Instrument :
 MSVOA_V
 ClientSampleId :

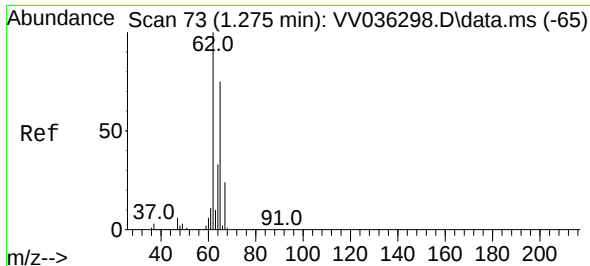
Tgt Ion: 85 Resp: 72
 Ion Ratio Lower Upper
 85 100
 87 0.0 25.9 38.9#



#3
 Chloromethane
 Concen: 1201.660 ug/L
 RT: 1.211 min Scan# 53
 Delta R.T. -0.000 min
 Lab File: VV036309.D
 Acq: 27 Jun 2024 15:23

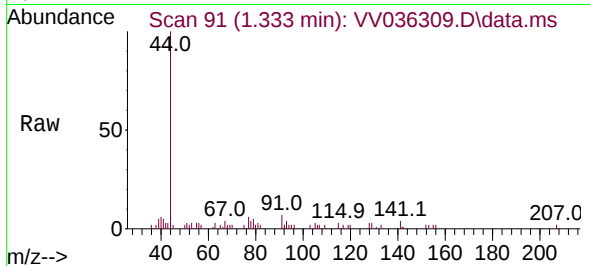
Tgt Ion: 50 Resp: 744
 Ion Ratio Lower Upper
 50 100
 52 50.0 23.5 43.7#



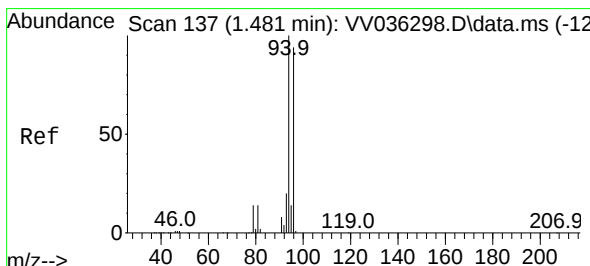
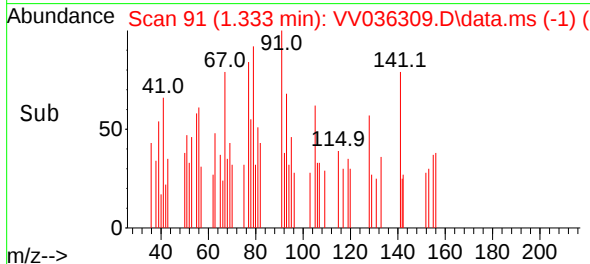
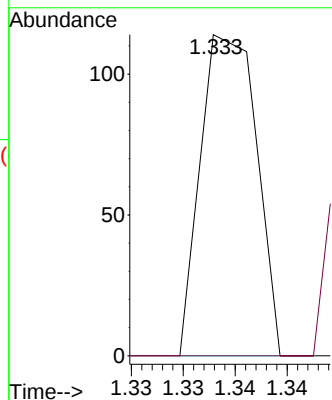


#5
 Vinyl chloride
 Concen: 60.144 ug/L
 RT: 1.333 min Scan# 91
 Delta R.T. 0.058 min
 Lab File: VV036309.D
 Acq: 27 Jun 2024 15:23

Instrument :
 MSVOA_V
 ClientSampleId :

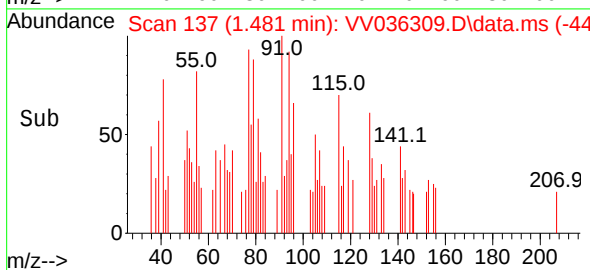
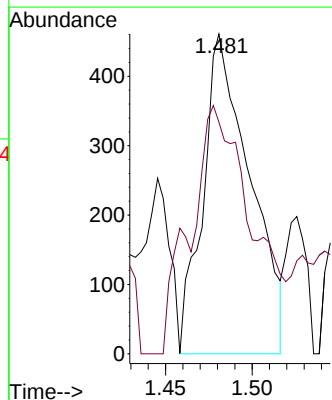
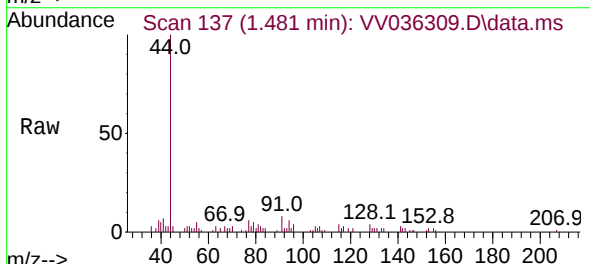


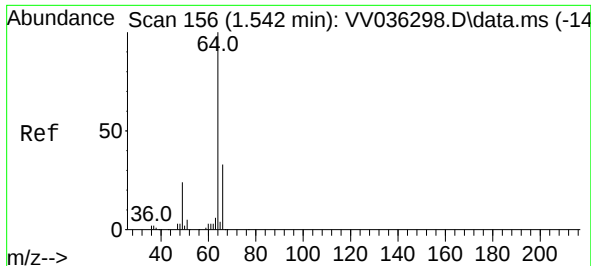
Tgt Ion: 62 Resp: 43
 Ion Ratio Lower Upper
 62 100
 64 0.0 23.4 43.4#



#6
 Bromomethane
 Concen: 1811.373 ug/L
 RT: 1.481 min Scan# 137
 Delta R.T. -0.000 min
 Lab File: VV036309.D
 Acq: 27 Jun 2024 15:23

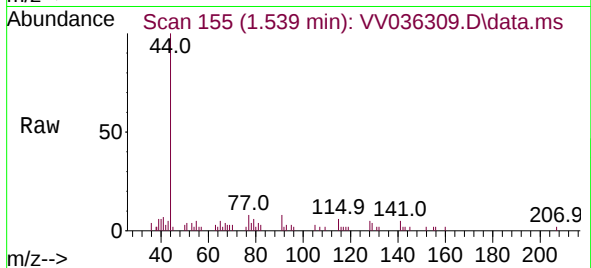
Tgt Ion: 94 Resp: 871
 Ion Ratio Lower Upper
 94 100
 96 72.5 66.1 122.7



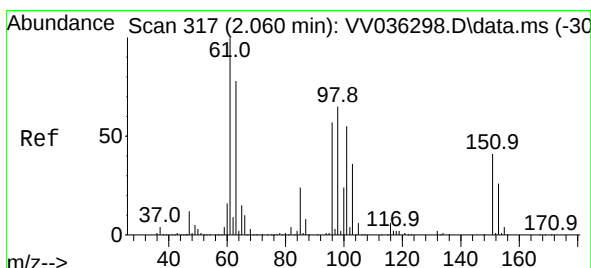
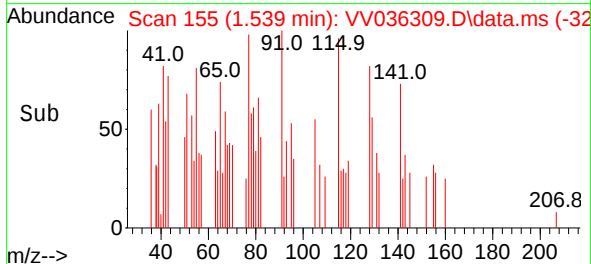
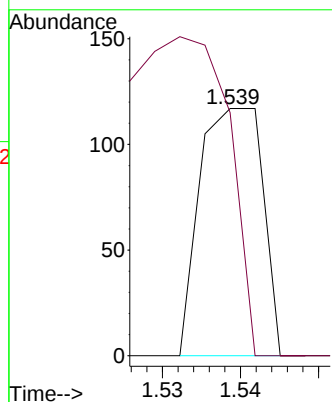


#8
Chloroethane
Concen: 147.513 ug/L
RT: 1.539 min Scan# 11
Delta R.T. -0.003 min
Lab File: VV036309.D
Acq: 27 Jun 2024 15:23

Instrument :
MSVOA_V
ClientSampleId :

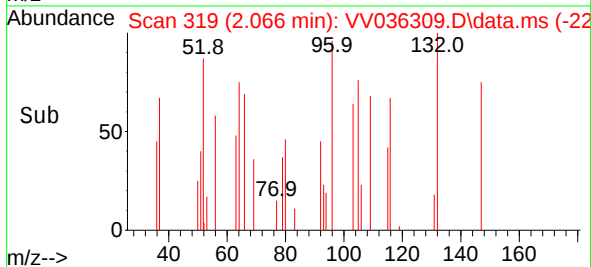
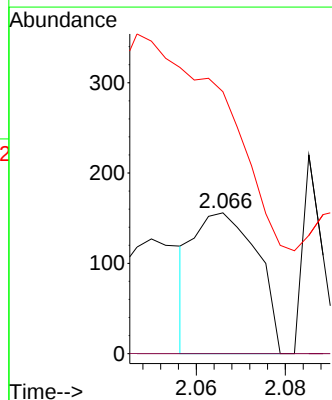
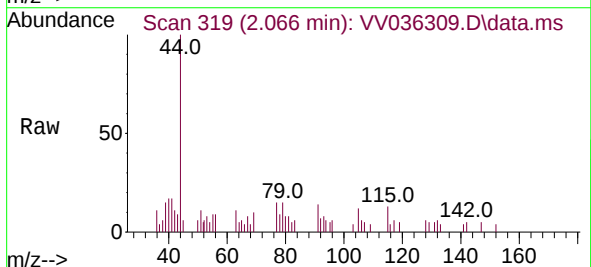


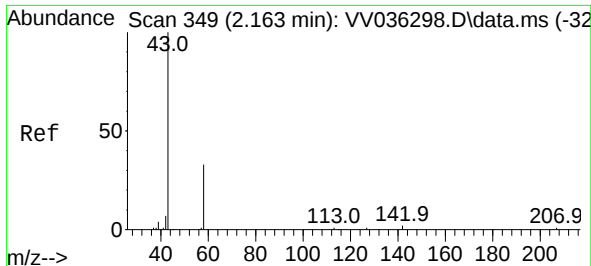
Tgt Ion: 64 Resp: 65
Ion Ratio Lower Upper
64 100
66 98.3 23.0 42.6#



#12
1,1-Dichloroethene
Concen: 271.579 ug/L
RT: 2.066 min Scan# 319
Delta R.T. 0.006 min
Lab File: VV036309.D
Acq: 27 Jun 2024 15:23

Tgt Ion: 96 Resp: 154
Ion Ratio Lower Upper
96 100
61 0.0 122.6 227.8#
63 185.9 96.1 178.5#

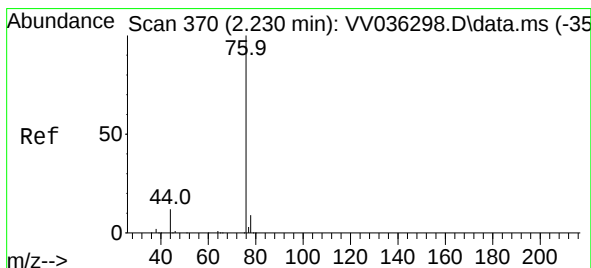
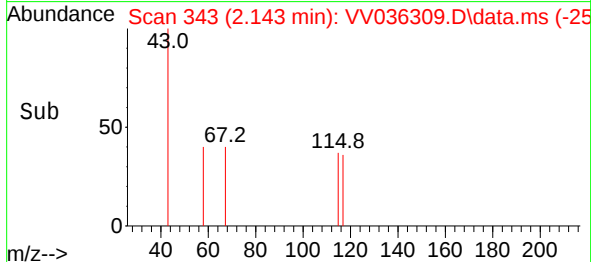
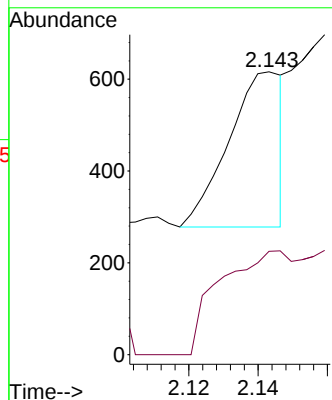
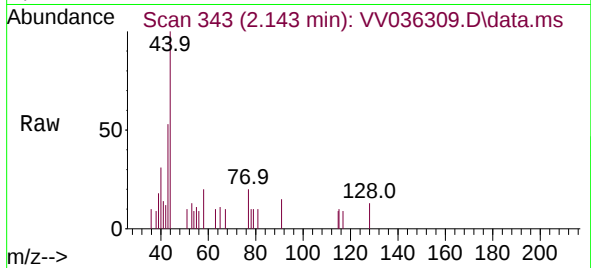




#13
Acetone
Concen: 1898.732 ug/L
RT: 2.143 min Scan# 349
Delta R.T. -0.019 min
Lab File: VV036309.D
Acq: 27 Jun 2024 15:23

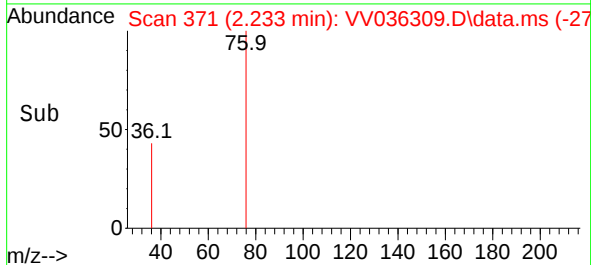
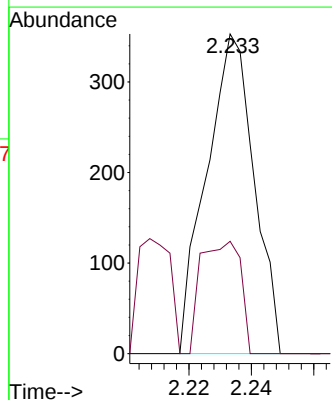
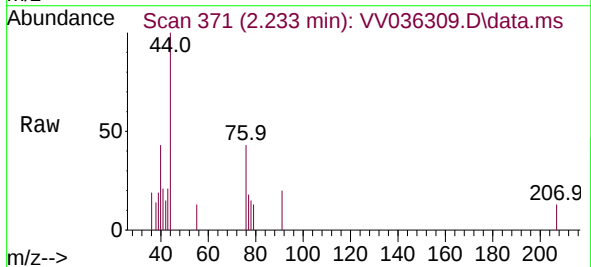
Instrument :
MSVOA_V
ClientSampleId :

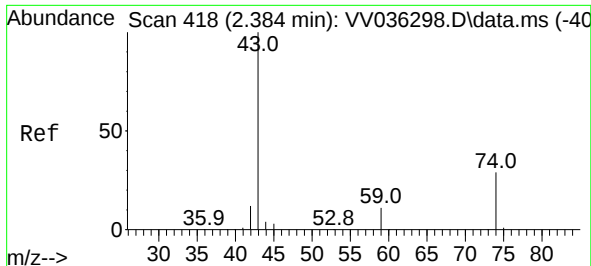
Tgt Ion: 43 Resp: 364
Ion Ratio Lower Upper
43 100
58 88.7 0.0 0.6#



#14
Carbon disulfide
Concen: 209.046 ug/L
RT: 2.233 min Scan# 371
Delta R.T. 0.003 min
Lab File: VV036309.D
Acq: 27 Jun 2024 15:23

Tgt Ion: 76 Resp: 374
Ion Ratio Lower Upper
76 100
78 35.1 7.4 11.2#





#15

Methyl Acetate

Concen: 543.187 ug/L

RT: 2.384 min Scan# 418

Delta R.T. -0.000 min

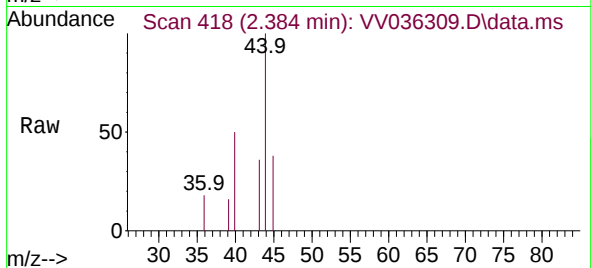
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Acq: 27 Jun 2024 15:23

Instrument :

MSVOA_V

ClientSampleId :

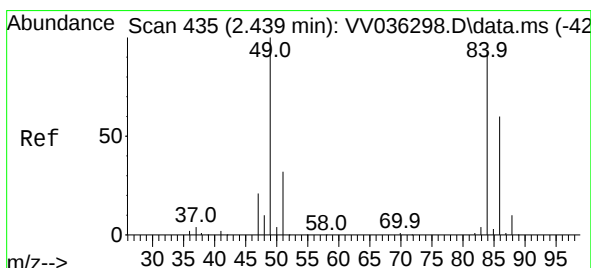
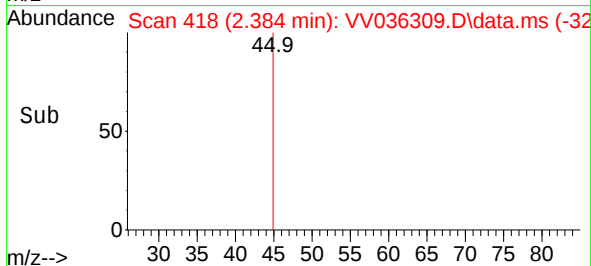
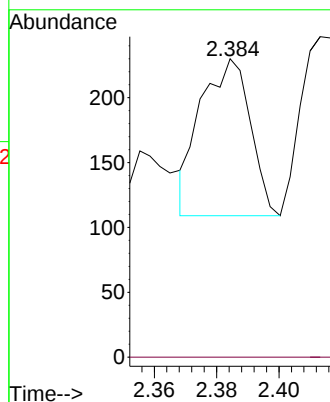


Tgt Ion: 43 Resp: 134

Ion Ratio Lower Upper

43 100

74 0.0 23.8 35.6#



#16

Methylene chloride

Concen: 38028.331 ug/L

RT: 2.442 min Scan# 436

Delta R.T. 0.003 min

Lab File: VV036309.D

Acq: 27 Jun 2024 15:23

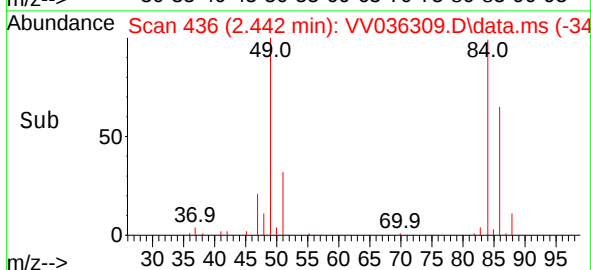
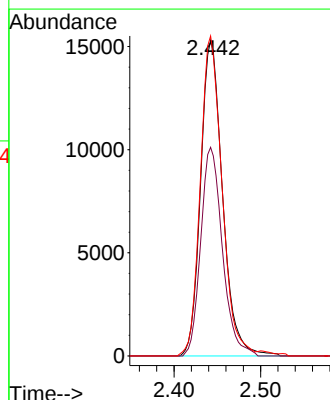
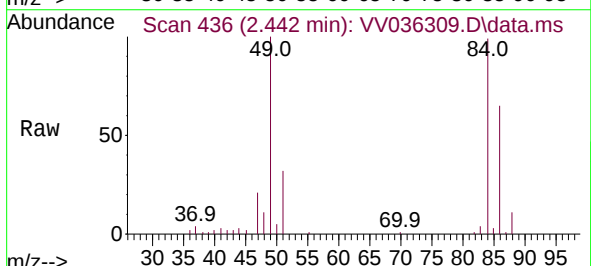
Tgt Ion: 84 Resp: 26952

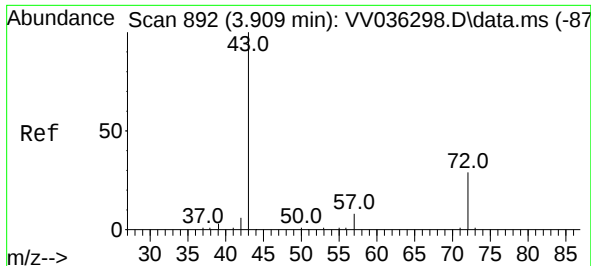
Ion Ratio Lower Upper

84 100

86 66.1 45.6 84.8

49 101.4 75.7 140.5





#22

2-Butanone

Concen: 760.922 ug/L

RT: 3.905 min Scan# 891

Delta R.T. -0.003 min

Lab File: VV036309.D

Acq: 27 Jun 2024 15:23

Instrument :

MSVOA_V

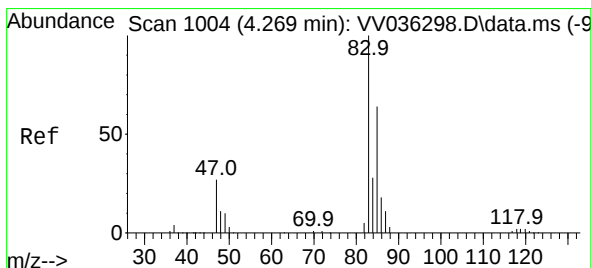
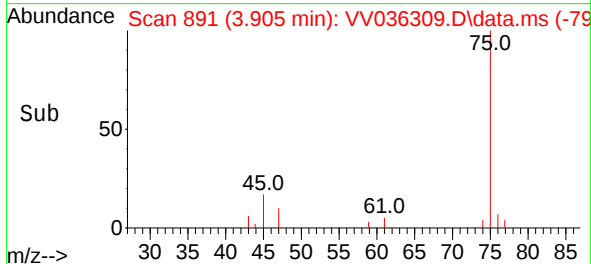
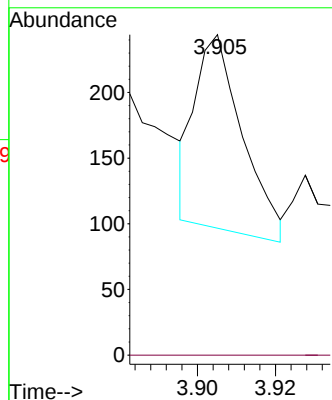
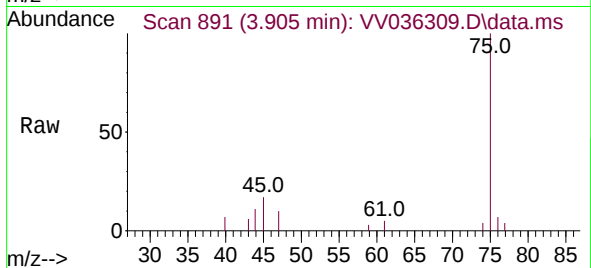
ClientSampleId :

Tgt Ion: 43 Resp: 123

Ion Ratio Lower Upper

43 100

72 0.0 12.9 38.7#



#25

Chloroform

Concen: 142.362 ug/L

RT: 4.272 min Scan# 1005

Delta R.T. 0.003 min

Lab File: VV036309.D

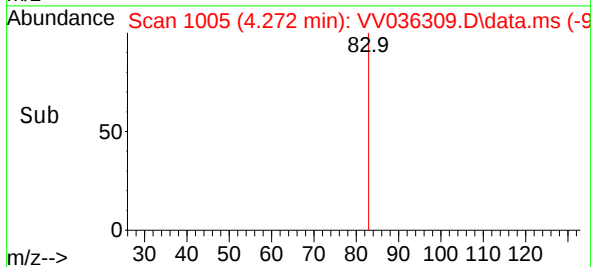
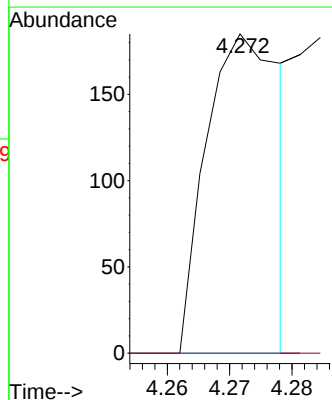
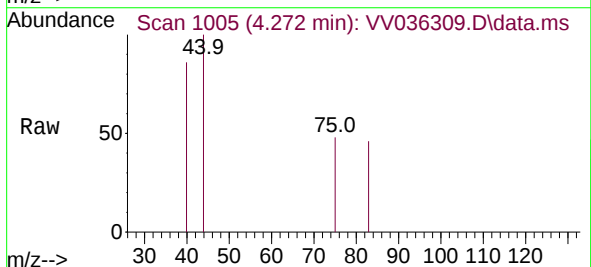
Acq: 27 Jun 2024 15:23

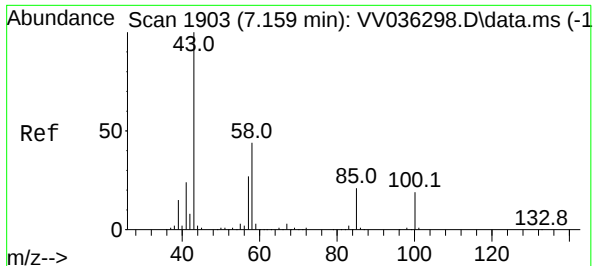
Tgt Ion: 83 Resp: 152

Ion Ratio Lower Upper

83 100

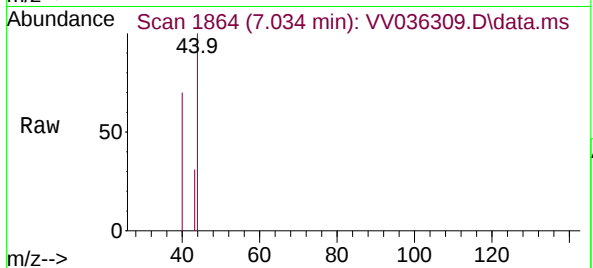
85 0.0 45.0 83.6#



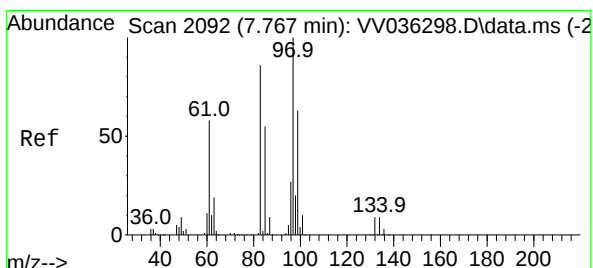
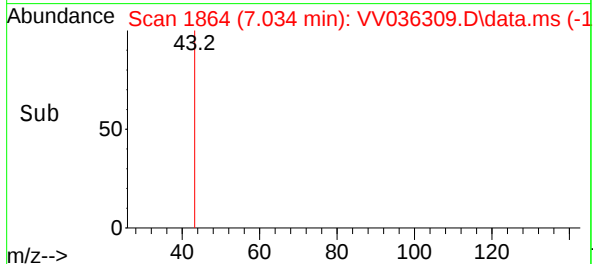
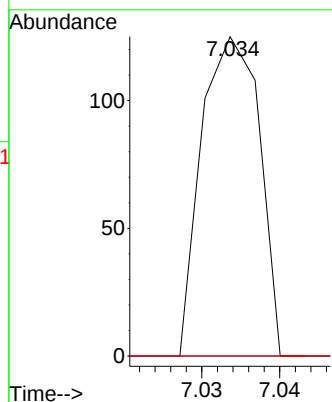


#40
4-Methyl-2-pentanone
Concen: 4.674 ug/L
RT: 7.034 min Scan# 11
Delta R.T. -0.126 min
Lab File: VV036309.D
Acq: 27 Jun 2024 15:23

Instrument :
MSVOA_V
ClientSampleId :

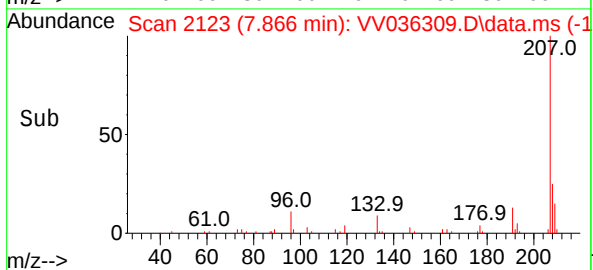
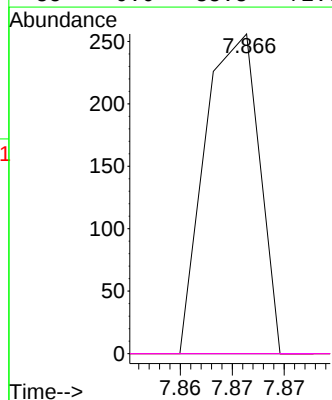
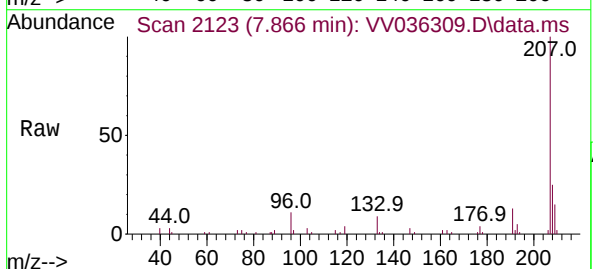


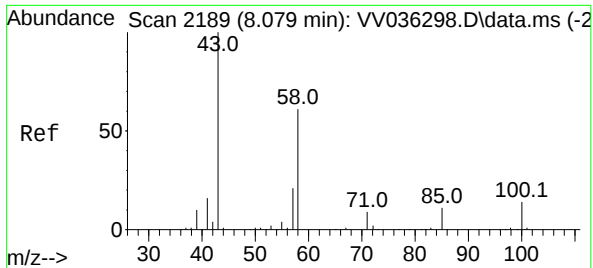
Tgt Ion: 43 Resp: 64
Ion Ratio Lower Upper
43 100
58 0.0 34.8 52.2#
100 584.4 14.6 21.8#



#45
1,1,2-Trichloroethane
Concen: 4.334 ug/L
RT: 7.866 min Scan# 2123
Delta R.T. 0.099 min
Lab File: VV036309.D
Acq: 27 Jun 2024 15:23

Tgt Ion: 97 Resp: 93
Ion Ratio Lower Upper
97 100
99 0.0 43.8 81.3#
83 0.0 60.6 112.6#
85 0.0 38.8 72.0#

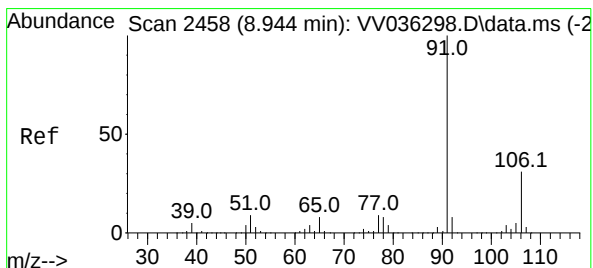
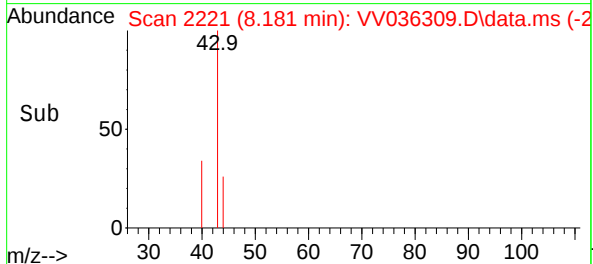
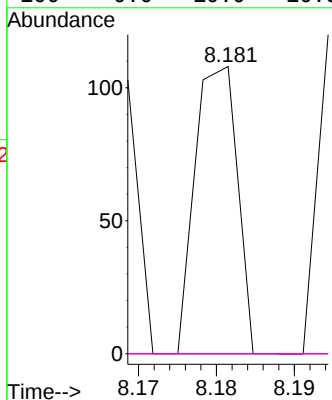
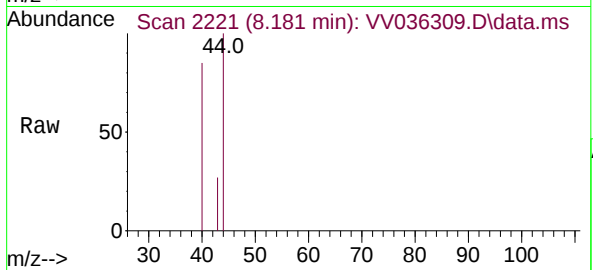




#48
2-Hexanone
Concen: 3.807 ug/L
RT: 8.181 min Scan# 2189
Delta R.T. 0.103 min
Lab File: VV036309.D
Acq: 27 Jun 2024 15:23

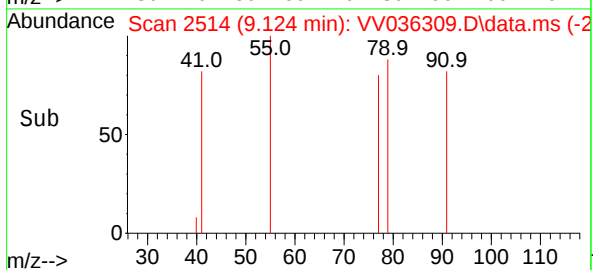
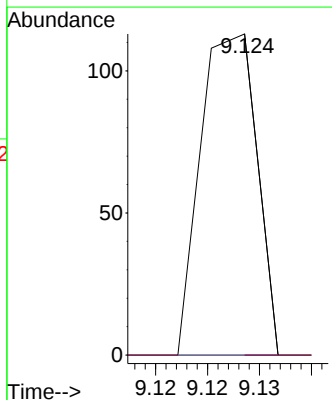
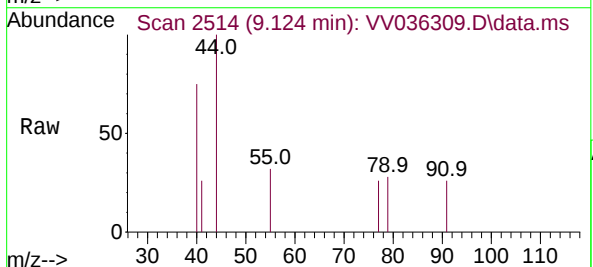
Instrument :
MSVOA_V
ClientSampleId :

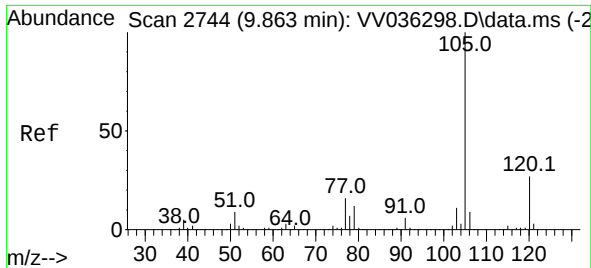
Tgt Ion: 43	Resp: 41
Ion Ratio	Lower Upper
43 100	
58 0.0	48.5 72.7#
57 180.5	15.8 23.6#
100 0.0	10.9 16.3#



#52
Ethylbenzene
Concen: 0.401 ug/L
RT: 9.124 min Scan# 2514
Delta R.T. 0.180 min
Lab File: VV036309.D
Acq: 27 Jun 2024 15:23

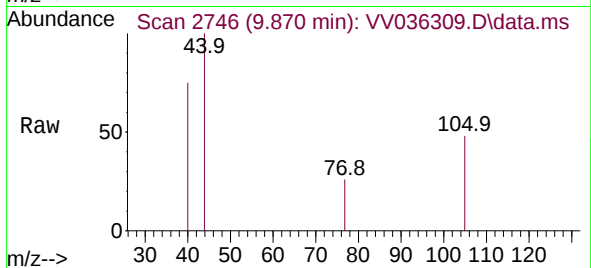
Tgt Ion: 91	Resp:	43	
Ion Ratio	Lower	Upper	
91 100			
106 0.0	21.8	40.4#	



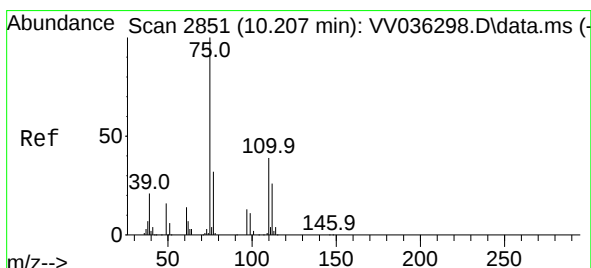
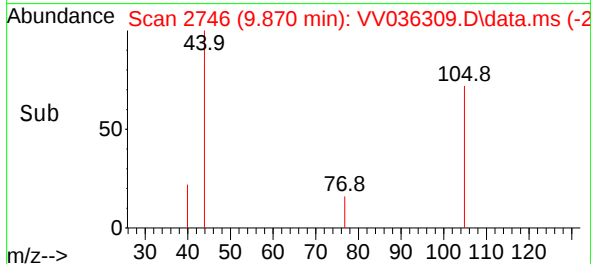
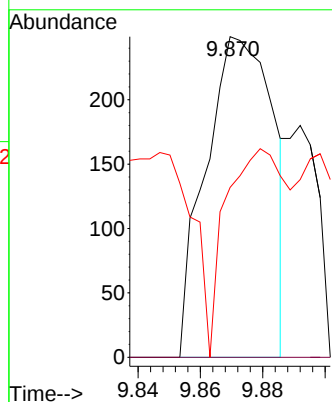


#60
Isopropylbenzene
Concen: 1.419 ug/L
RT: 9.870 min Scan# 21
Delta R.T. 0.006 min
Lab File: VV036309.D
Acq: 27 Jun 2024 15:23

Instrument :
MSVOA_V
ClientSampleId :

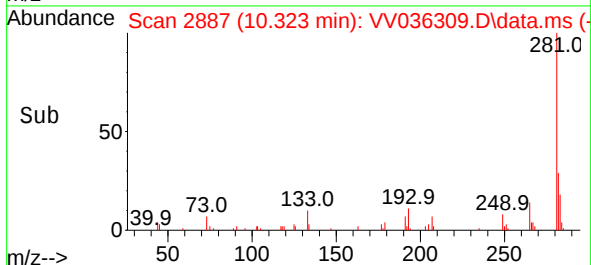
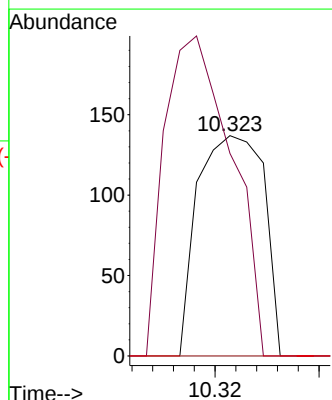
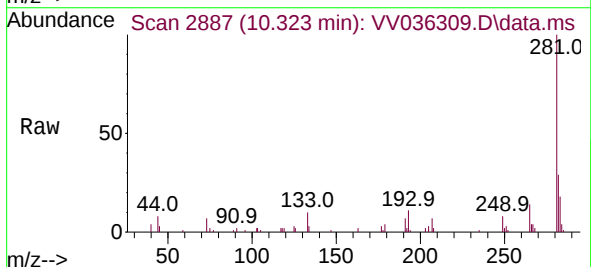


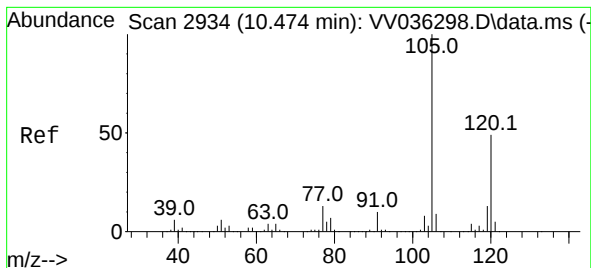
Tgt Ion:105 Resp: 373
Ion Ratio Lower Upper
105 100
120 0.0 21.2 31.8#
77 58.4 12.5 18.7#



#61
1,2,3-Trichloropropane
Concen: 2.465 ug/L
RT: 10.323 min Scan# 2887
Delta R.T. 0.116 min
Lab File: VV036309.D
Acq: 27 Jun 2024 15:23

Tgt Ion: 75 Resp: 121
Ion Ratio Lower Upper
75 100
77 147.1 25.2 37.8#
110 0.0 31.7 47.5#





#62

1,3,5-Trimethylbenzene

Concen: 6.027 ug/L

RT: 10.857 min Scan# 3053

Delta R.T. 0.382 min

Lab File: VV036309.D

Acq: 27 Jun 2024 15:23

Instrument :

MSVOA_V

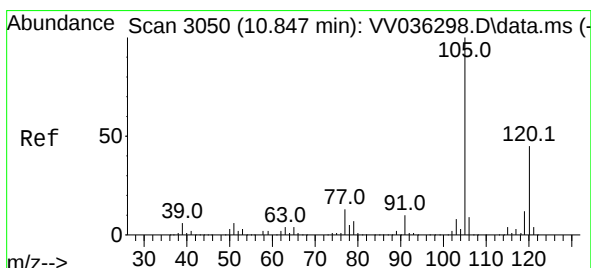
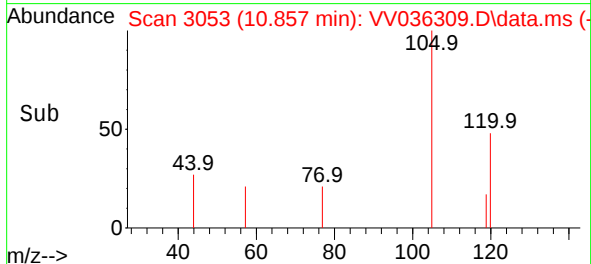
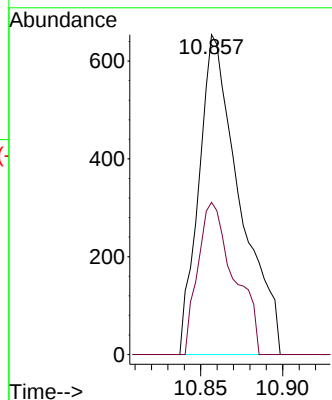
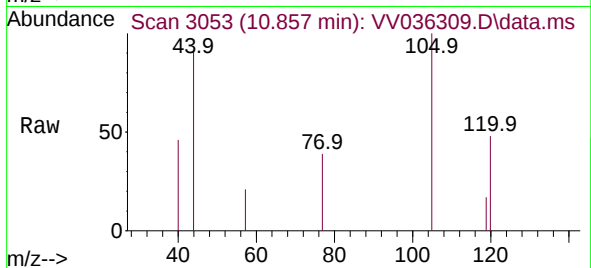
ClientSampleId :

Tgt Ion:105 Resp: 1134

Ion Ratio Lower Upper

105 100

120 42.1 39.1 58.7



#63

1,2,4-Trimethylbenzene

Concen: 5.546 ug/L

RT: 10.857 min Scan# 3053

Delta R.T. 0.009 min

Lab File: VV036309.D

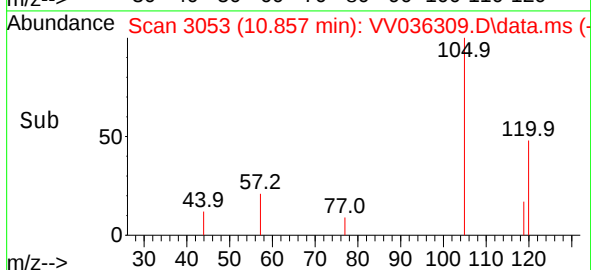
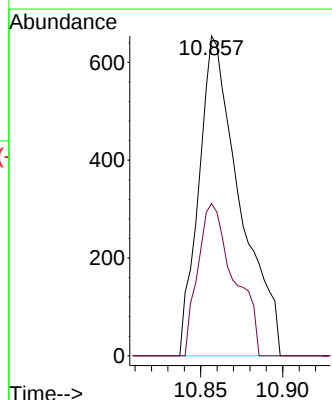
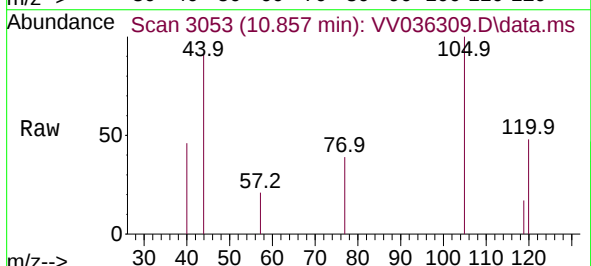
Acq: 27 Jun 2024 15:23

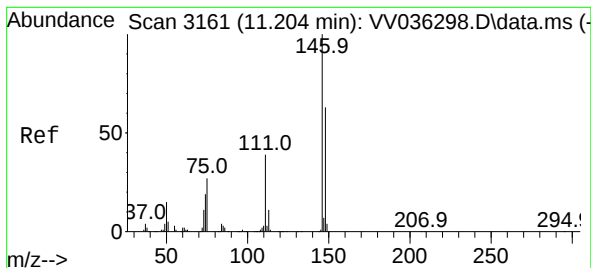
Tgt Ion:105 Resp: 1134

Ion Ratio Lower Upper

105 100

120 42.1 36.2 54.4





#65

1,4-Dichlorobenzene

Concen: 1.450 ug/L

RT: 11.220 min Scan# 3166

Delta R.T. 0.016 min

Lab File: VV036309.D

Acq: 27 Jun 2024 15:23

Instrument :

MSVOA_V

ClientSampleId :

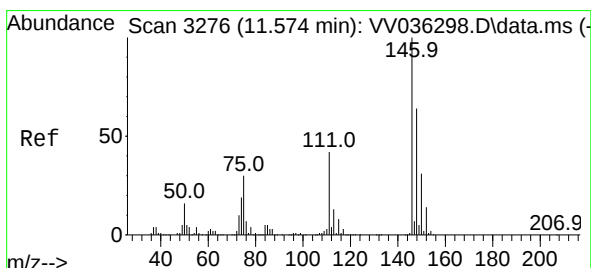
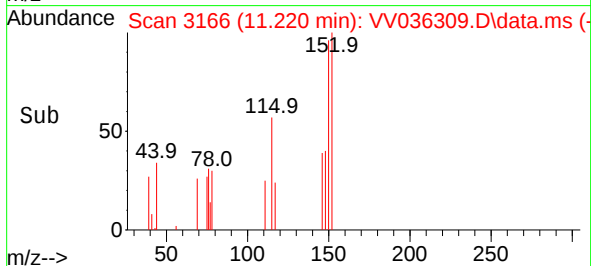
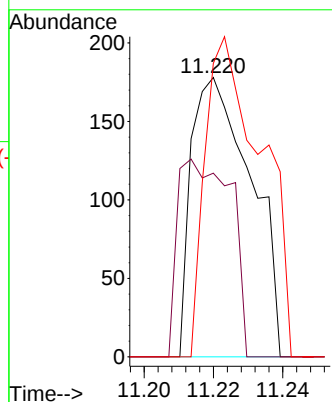
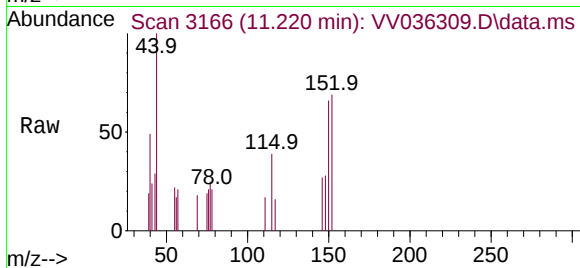
Tgt Ion:146 Resp: 213

Ion Ratio Lower Upper

146 100

111 65.7 27.5 51.1#

148 105.1 44.0 81.8#



#67

1,2-Dichlorobenzene

Concen: 1.629 ug/L

RT: 11.220 min Scan# 3166

Delta R.T. -0.354 min

Lab File: VV036309.D

Acq: 27 Jun 2024 15:23

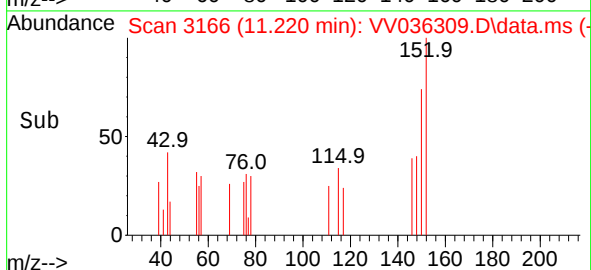
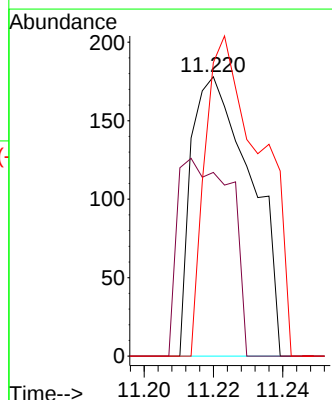
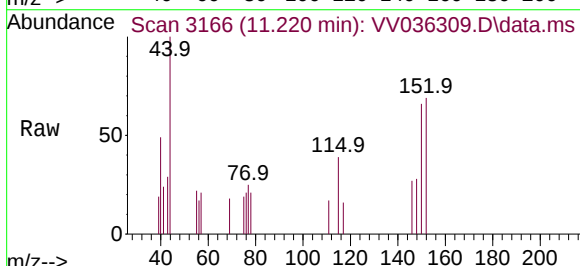
Tgt Ion:146 Resp: 213

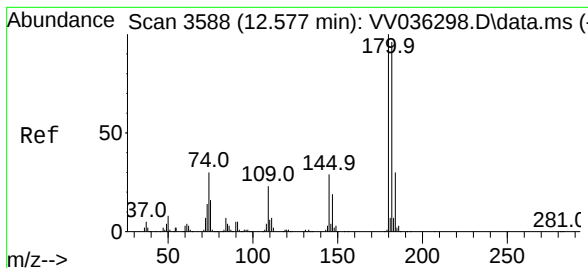
Ion Ratio Lower Upper

146 100

111 65.7 33.3 49.9#

148 105.1 51.1 76.7#





#69

1,3,5-Trichlorobenzene

Concen: 1.968 ug/L

RT: 12.593 min Scan# 3593

Delta R.T. 0.016 min

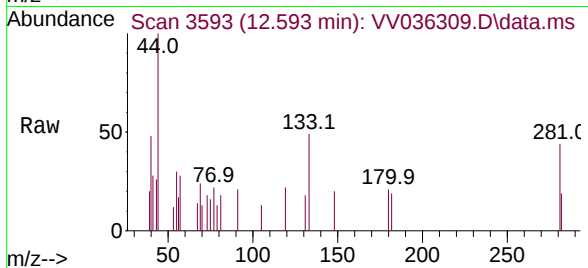
Lab File: VV036309.D

Acq: 27 Jun 2024 15:23

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion:180 Resp: 203

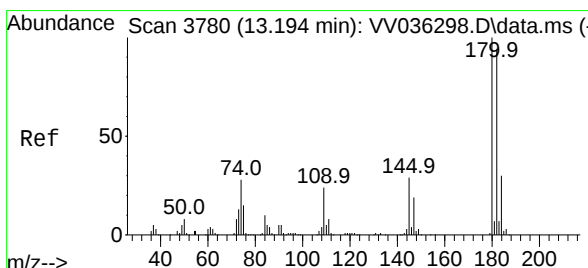
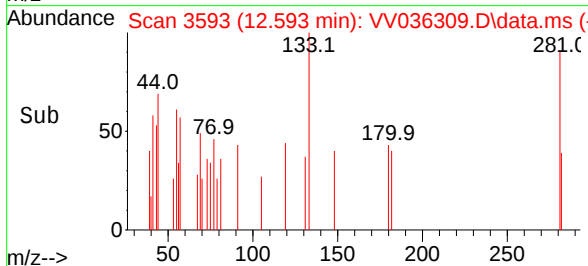
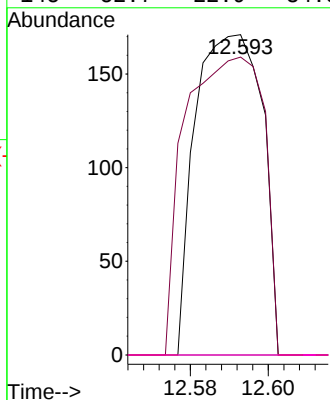
Ion Ratio Lower Upper

180 100

182 109.4 76.2 114.4

184 0.0 23.3 34.9#

145 52.7 22.9 34.3#



#70

1,2,4-trichlorobenzene

Concen: 1.860 ug/L

RT: 13.204 min Scan# 3783

Delta R.T. 0.009 min

Lab File: VV036309.D

Acq: 27 Jun 2024 15:23

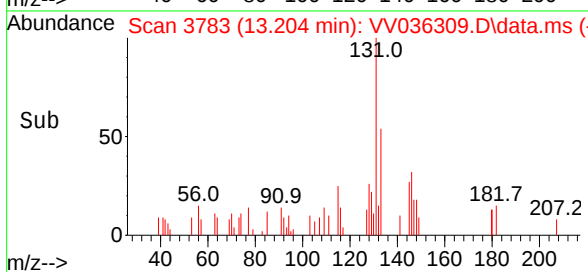
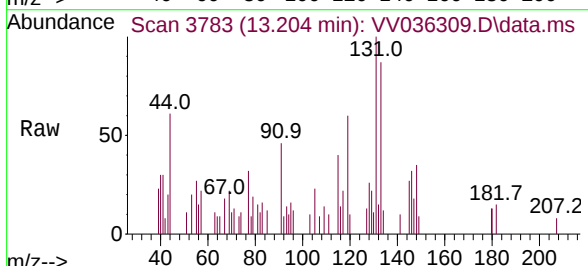
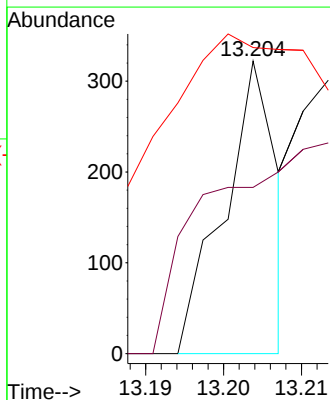
Tgt Ion:180 Resp: 153

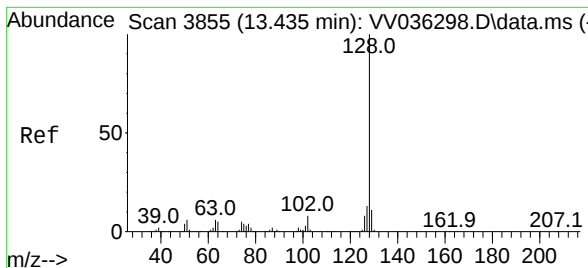
Ion Ratio Lower Upper

180 100

182 0.0 76.1 114.1#

145 270.6 23.8 35.8#





#71

Naphthalene

Concen: 34.914 ug/L

RT: 13.448 min Scan# 3855

Delta R.T. 0.013 min

Lab File: VV036309.D

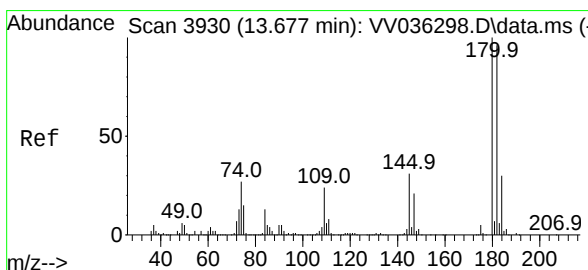
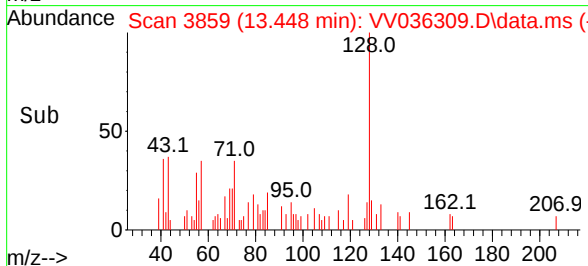
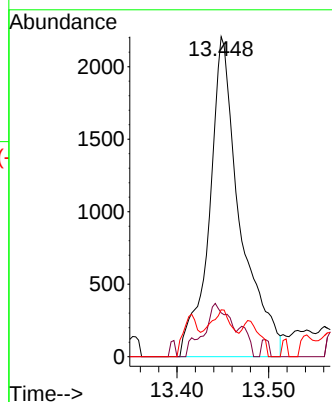
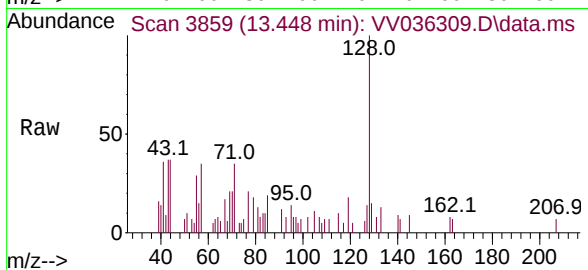
Acq: 27 Jun 2024 15:23

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion:	128	Resp:	5121
Ion Ratio	Lower	Upper	
128	100		
127	12.8	10.8	16.2
129	11.5	8.6	13.0



#72

1,2,3-Trichlorobenzene

Concen: 6.179 ug/L

RT: 13.689 min Scan# 3934

Delta R.T. 0.013 min

Lab File: VV036309.D

Acq: 27 Jun 2024 15:23

Tgt Ion:	180	Resp:	478
Ion Ratio	Lower	Upper	
180	100		
182	82.0	76.7	115.1
145	24.3	25.0	37.4

