

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW062024\
 Data File : VW029267.D
 Acq On : 20 Jun 2024 18:54
 Operator : SY/MD
 Sample : P2964-22DL 2X
 Misc : 5.00g/10mL/MSVOA_W/SOIL
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Jun 21 01:34:58 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM061824SMA.M
 Quant Title : SFAM01.0
 QLast Update : Fri Jun 21 01:26:21 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.837	114	304159	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.629	117	277897	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.556	152	133881	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.363	65	74657	17.734	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	70.920%
7) Chloroethane-d5	2.893	69	59934	16.858	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	67.440%
11) 1,1-Dichloroethene-d2	4.021	65	37890	18.641	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	74.560%
21) 2-Butanone-d5	7.075	46	61571	48.884	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	97.760%
24) Chloroform-d	7.648	84	182835	20.151	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	80.600%
26) 1,2-Dichloroethane-d4	8.301	65	107538	20.643	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	82.560%
32) Benzene-d6	8.270	84	358706	21.251	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	85.000%
36) 1,2-Dichloropropane-d6	9.270	67	115470	21.520	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	86.080%
41) Toluene-d8	10.319	98	331589	22.204	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	88.800%
43) trans-1,3-Dichloroprop...	10.575	79	46183	21.359	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	85.440%
47) 2-Hexanone-d5	10.922	63	43504	51.721	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	103.440%
56) 1,1,2,2-Tetrachloroeth...	12.690	84	97312	22.787	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	91.160%
66) 1,2-Dichlorobenzene-d4	13.849	152	110074	23.686	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	94.760%
Target Compounds						
					Qvalue	
12) 1,1-Dichloroethene	4.045	96	73309	20.801	ug/L	81
13) Acetone	4.119	43	51157	47.793	ug/L	95
16) Methylene chloride	4.923	84	69126	12.925	ug/L	93
17) trans-1,2-Dichloroethene	5.423	96	168222	42.981	ug/L	97
18) Methyl tert-butyl Ether	5.423	73	277493	44.315	ug/L	97
19) 1,1-Dichloroethane	6.210	63	106025	12.543	ug/L	95
20) cis-1,2-Dichloroethene	7.173	96	102351	23.714	ug/L	99
22) 2-Butanone	7.167	43	153814	104.828	ug/L	100
25) Chloroform	7.673	83	120986	14.657	ug/L	99
27) 1,2-Dichloroethane	8.398	62	187590	30.814	ug/L	100
33) Benzene	8.319	78	719652	43.099	ug/L	100
34) Trichloroethene	9.093	95	215336	48.338	ug/L	92
37) 1,2-Dichloropropane	9.368	63	216064	46.050	ug/L	98
39) cis-1,3-Dichloropropene	10.069	75	162828	24.550	ug/L	96
40) 4-Methyl-2-pentanone	10.209	43	132459	45.549	ug/L	97
44) trans-1,3-Dichloropropene	10.599	75	114447	20.436	ug/L	96
46) Tetrachloroethene	10.861	164	38020	12.209	ug/L	98
49) Dibromochloromethane	11.129	129	70562	20.657	ug/L	97
50) 1,2-Dibromoethane	11.233	107	117610	40.094	ug/L	97

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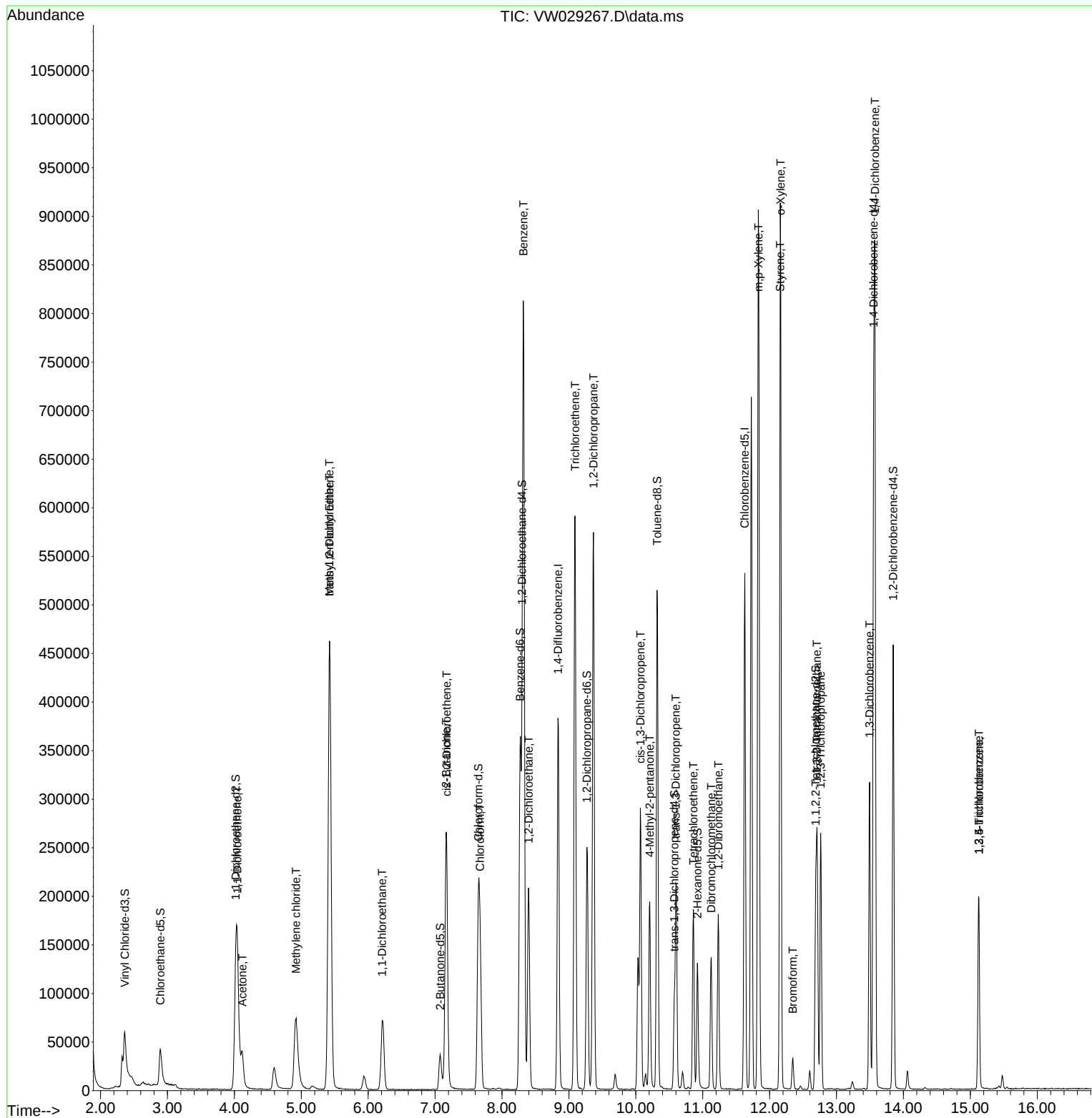
53) m,p-Xylene	11.837	106	268266	37.692	ug/L	97
54) o-Xylene	12.166	106	227719	34.235	ug/L	97
55) Styrene	12.160	104	12013	1.036	ug/L #	1
57) 1,1,2,2-Tetrachloroethane	12.708	83	118528	29.323	ug/L	97
59) Bromoform	12.349	173	13934	7.594	ug/L	99
61) 1,2,3-Trichloropropane	12.763	75	106790	36.570	ug/L	99
64) 1,3-Dichlorobenzene	13.495	146	117146	15.174	ug/L	96
65) 1,4-Dichlorobenzene	13.574	146	275441	33.534	ug/L	95
69) 1,3,5-Trichlorobenzene	15.129	180	56932	10.927	ug/L	93
70) 1,2,4-trichlorobenzene	15.129	180	56932	13.480	ug/L	97

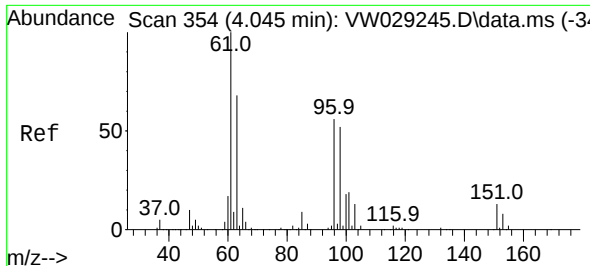
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#12

1,1-Dichloroethene

Concen: 20.801 ug/L

RT: 4.045 min Scan# 354

Delta R.T. -0.000 min

Lab File: VW029267.D

Acq: 20 Jun 2024 18:54

Instrument :

MSVOA_W

ClientSampleId :

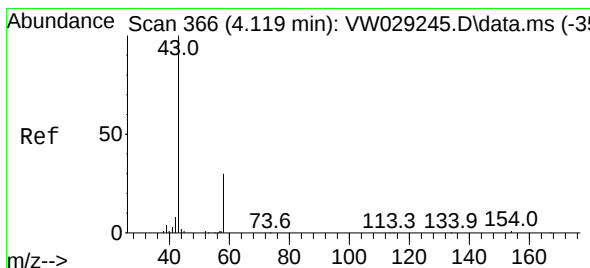
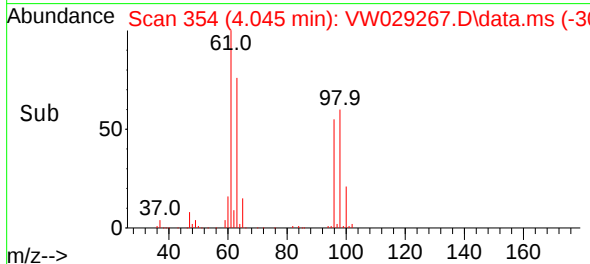
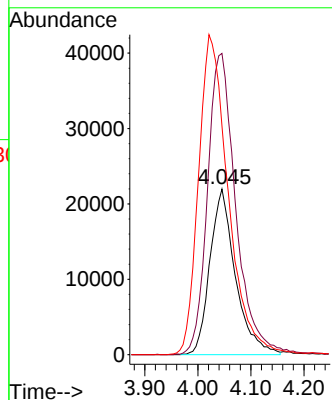
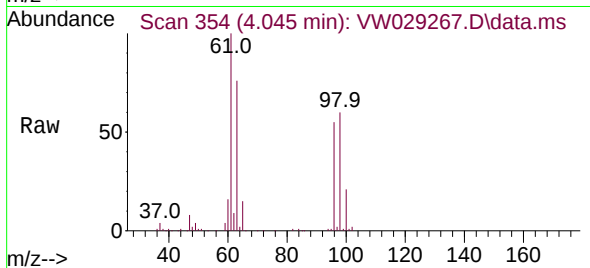
Tgt Ion: 96 Resp: 73309

Ion Ratio Lower Upper

96 100

61 181.8 140.1 260.3

63 138.1 122.0 226.6



#13

Acetone

Concen: 47.793 ug/L

RT: 4.119 min Scan# 366

Delta R.T. -0.000 min

Lab File: VW029267.D

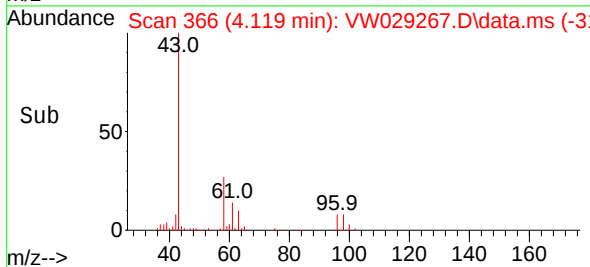
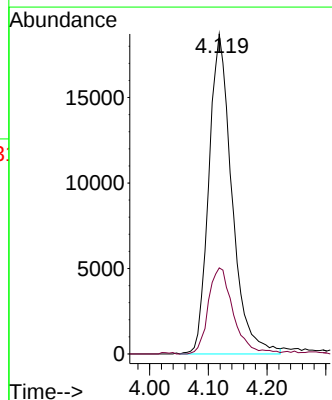
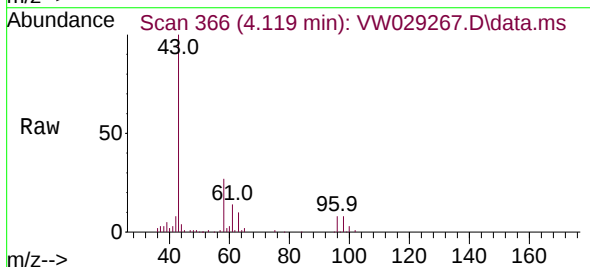
Acq: 20 Jun 2024 18:54

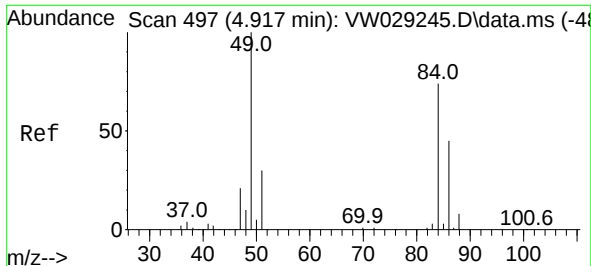
Tgt Ion: 43 Resp: 51157

Ion Ratio Lower Upper

43 100

58 28.2 0.0 61.4

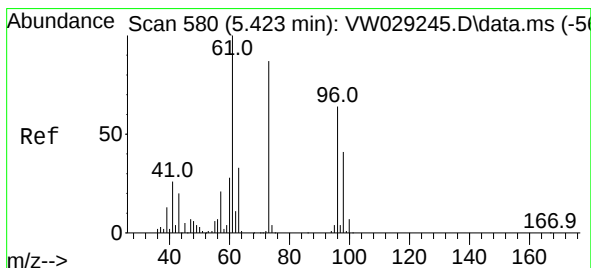
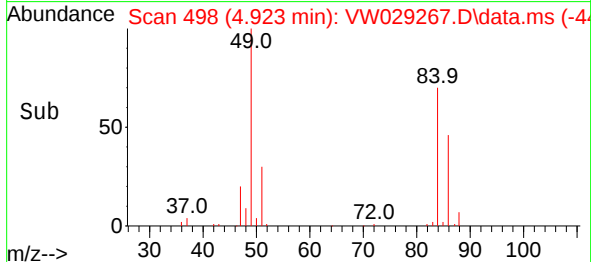
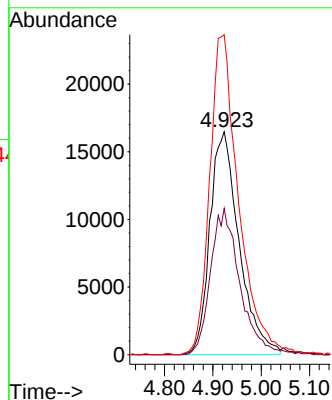
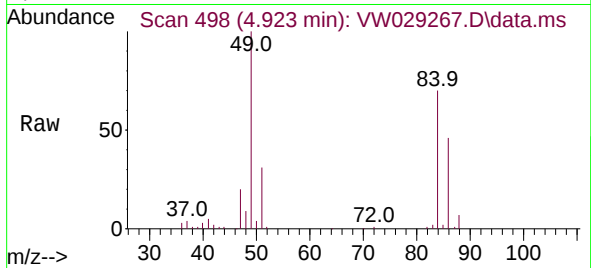




#16
Methylene chloride
Concen: 12.925 ug/L
RT: 4.923 min Scan# 497
Delta R.T. 0.006 min
Lab File: VW029267.D
Acq: 20 Jun 2024 18:54

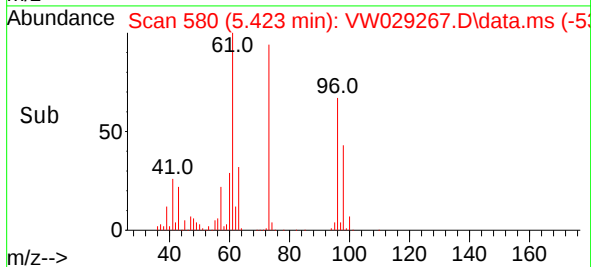
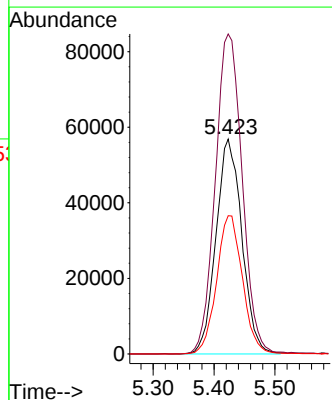
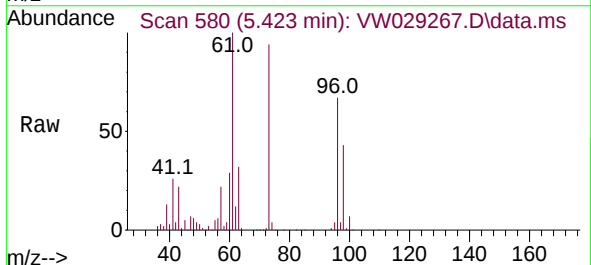
Instrument :
MSVOA_W
ClientSampleId :

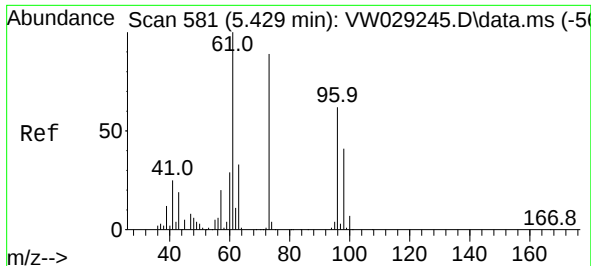
Tgt Ion: 84 Resp: 69126
Ion Ratio Lower Upper
84 100
86 65.7 41.4 77.0
49 143.6 95.7 177.7



#17
trans-1,2-Dichloroethene
Concen: 42.981 ug/L
RT: 5.423 min Scan# 580
Delta R.T. -0.000 min
Lab File: VW029267.D
Acq: 20 Jun 2024 18:54

Tgt Ion: 96 Resp: 168222
Ion Ratio Lower Upper
96 100
61 148.9 101.5 188.5
98 64.4 43.3 80.3





#18

Methyl tert-butyl Ether

Concen: 44.315 ug/L

RT: 5.423 min Scan# 51

Delta R.T. -0.006 min

Lab File: VW029267.D

Acq: 20 Jun 2024 18:54

Instrument :

MSVOA_W

ClientSampleId :

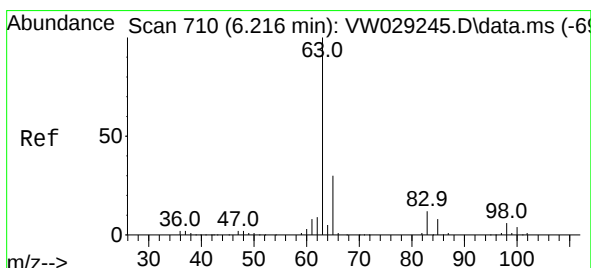
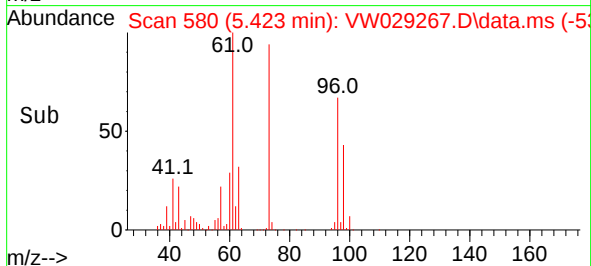
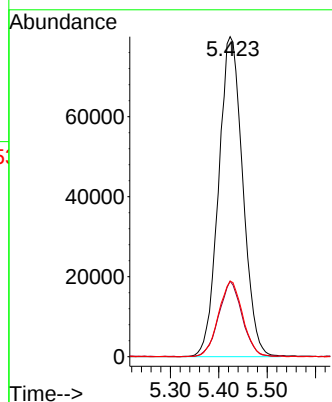
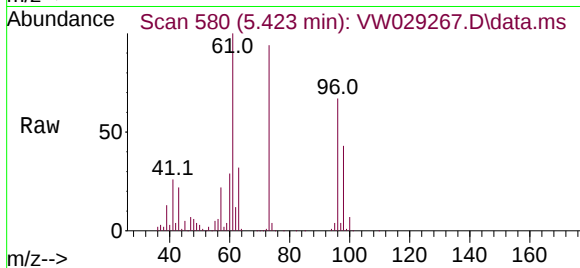
Tgt Ion: 73 Resp: 277493

Ion Ratio Lower Upper

73 100

43 22.6 19.5 29.3

57 23.7 18.4 27.6



#19

1,1-Dichloroethane

Concen: 12.543 ug/L

RT: 6.210 min Scan# 709

Delta R.T. -0.006 min

Lab File: VW029267.D

Acq: 20 Jun 2024 18:54

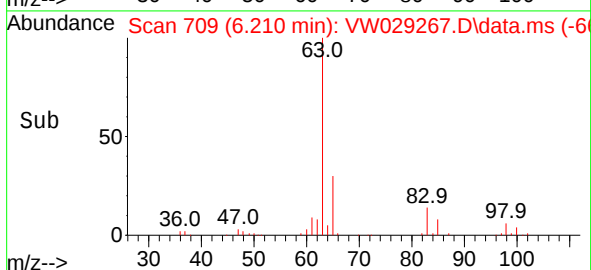
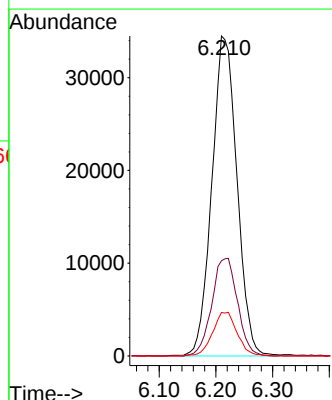
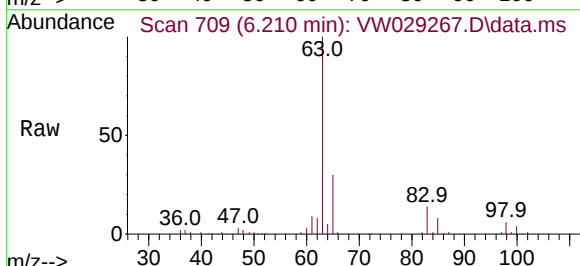
Tgt Ion: 63 Resp: 106025

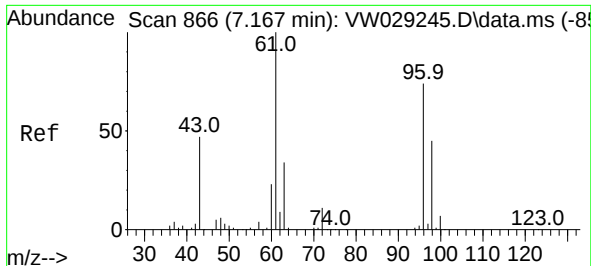
Ion Ratio Lower Upper

63 100

65 29.8 23.4 43.4

83 13.6 8.9 16.5

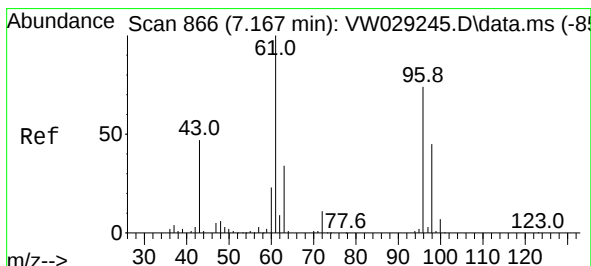
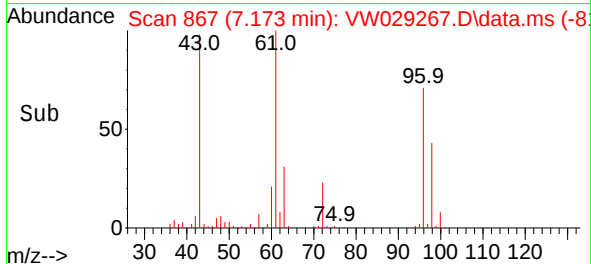
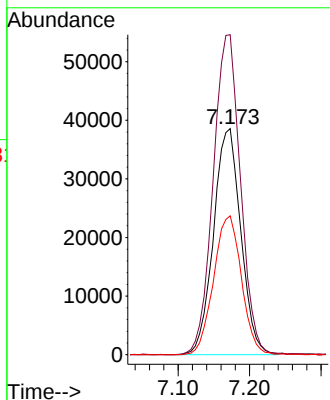
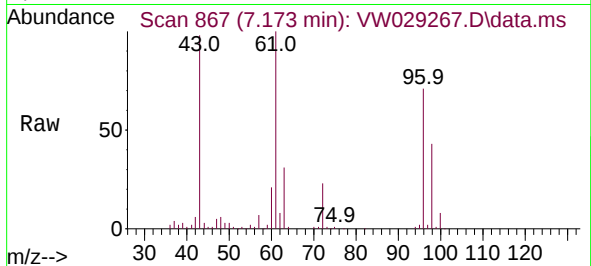




#20
 cis-1,2-Dichloroethene
 Concen: 23.714 ug/L
 RT: 7.173 min Scan# 867
 Delta R.T. 0.006 min
 Lab File: VW029267.D
 Acq: 20 Jun 2024 18:54

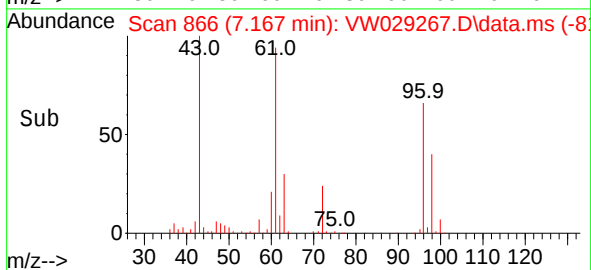
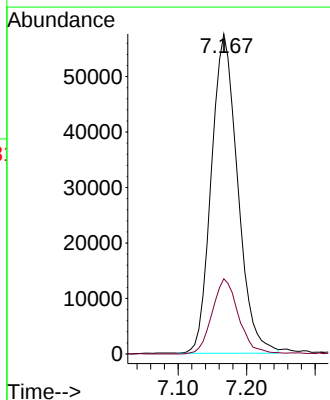
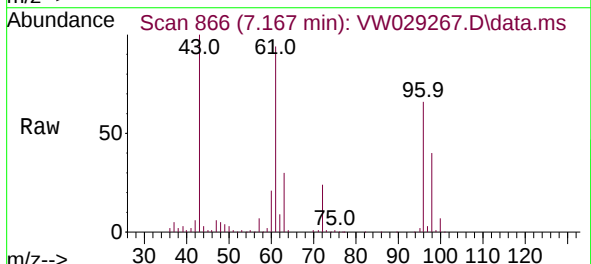
Instrument :
 MSVOA_W
 ClientSampleId :

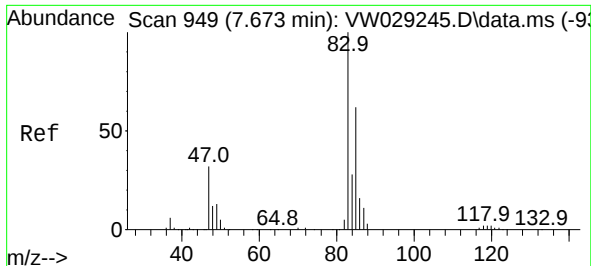
Tgt Ion: 96 Resp: 102351
 Ion Ratio Lower Upper
 96 100
 61 141.6 97.8 181.6
 98 61.5 43.0 79.8



#22
 2-Butanone
 Concen: 104.828 ug/L
 RT: 7.167 min Scan# 866
 Delta R.T. -0.000 min
 Lab File: VW029267.D
 Acq: 20 Jun 2024 18:54

Tgt Ion: 43 Resp: 153814
 Ion Ratio Lower Upper
 43 100
 72 23.6 11.9 35.7





#25

Chloroform

Concen: 14.657 ug/L

RT: 7.673 min Scan# 949

Delta R.T. -0.000 min

Lab File: VW029267.D

Acq: 20 Jun 2024 18:54

Instrument :

MSVOA_W

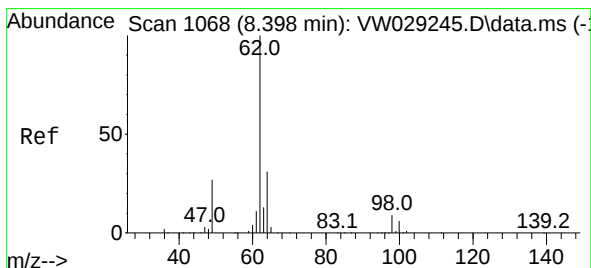
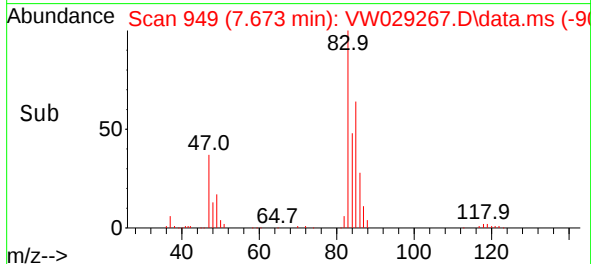
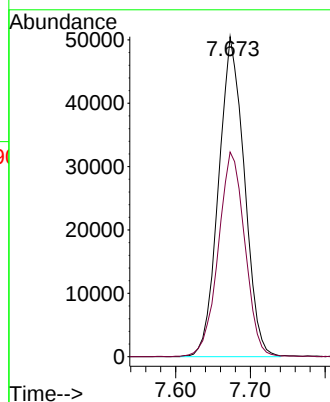
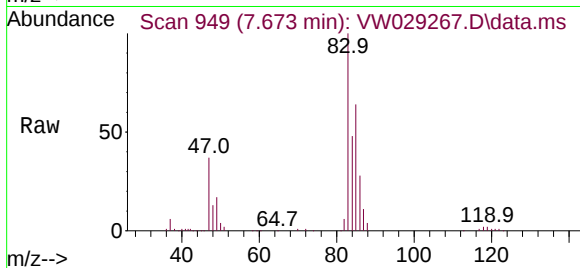
ClientSampleId :

Tgt Ion: 83 Resp: 120986

Ion Ratio Lower Upper

83 100

85 64.0 44.4 82.4



#27

1,2-Dichloroethane

Concen: 30.814 ug/L

RT: 8.398 min Scan# 1068

Delta R.T. -0.000 min

Lab File: VW029267.D

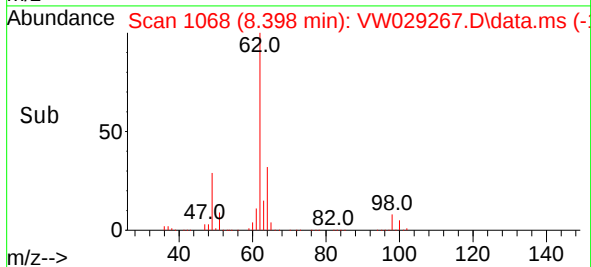
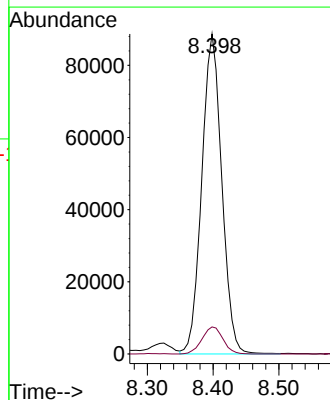
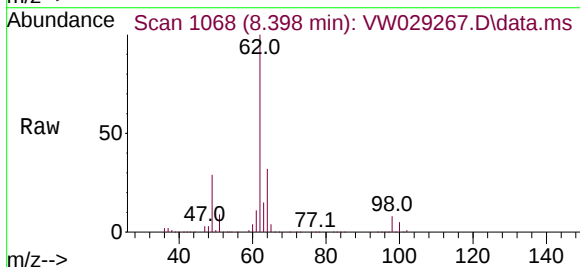
Acq: 20 Jun 2024 18:54

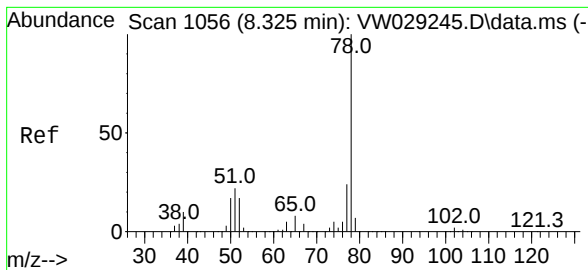
Tgt Ion: 62 Resp: 187590

Ion Ratio Lower Upper

62 100

98 8.5 6.6 10.0





#33

Benzene

Concen: 43.099 ug/L

RT: 8.319 min Scan# 1055

Delta R.T. -0.006 min

Lab File: VW029267.D

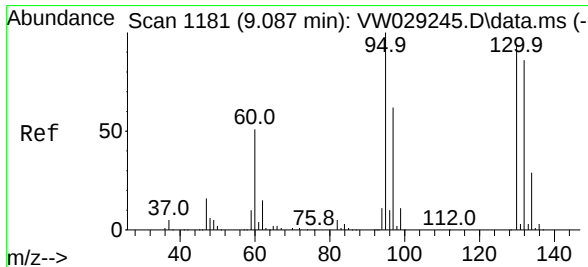
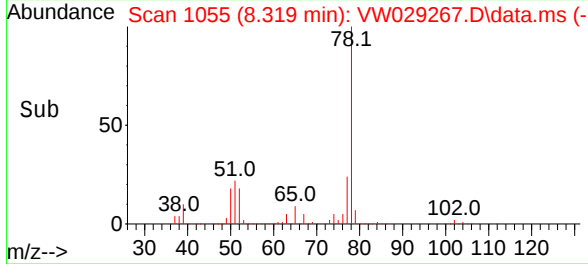
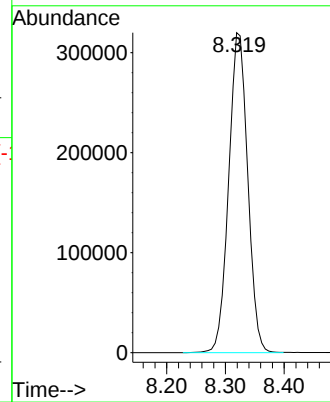
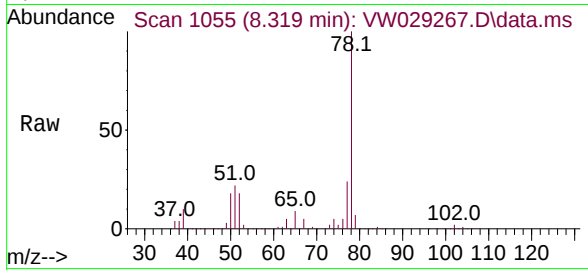
Acq: 20 Jun 2024 18:54

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion: 78 Resp: 719652



#34

Trichloroethene

Concen: 48.338 ug/L

RT: 9.093 min Scan# 1182

Delta R.T. 0.006 min

Lab File: VW029267.D

Acq: 20 Jun 2024 18:54

Tgt Ion: 95 Resp: 215336

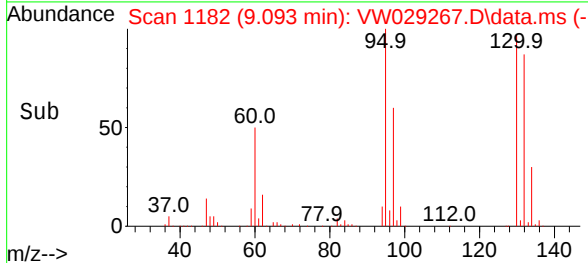
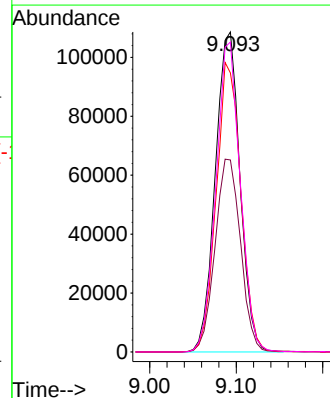
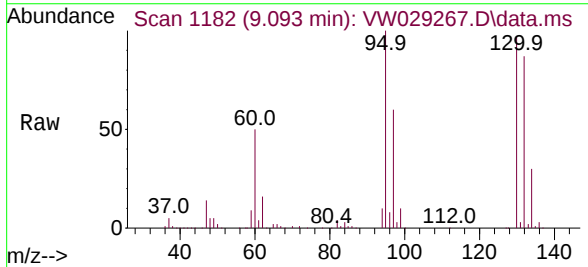
Ion Ratio Lower Upper

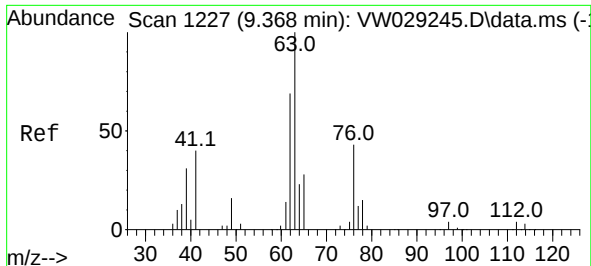
95 100

97 60.0 45.7 84.9

132 87.2 66.4 123.4

130 96.8 61.6 114.4





#37

1,2-Dichloropropane

Concen: 46.050 ug/L

RT: 9.368 min Scan# 1227

Delta R.T. -0.000 min

Lab File: VW029267.D

Acq: 20 Jun 2024 18:54

Instrument :

MSVOA_W

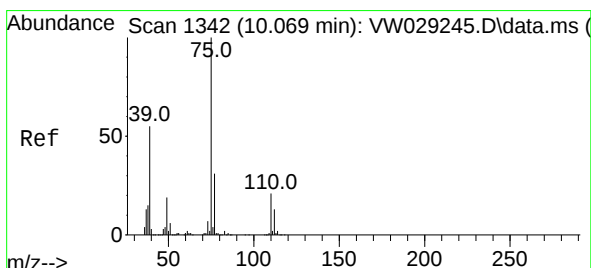
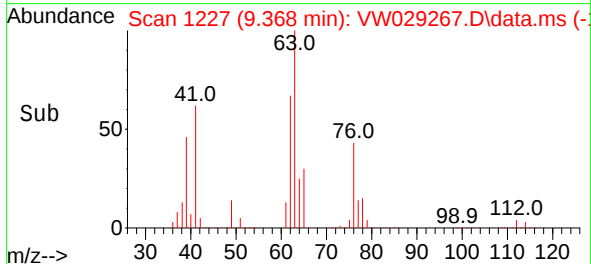
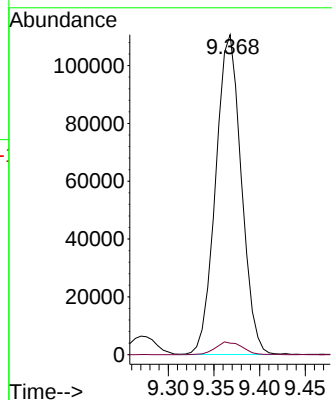
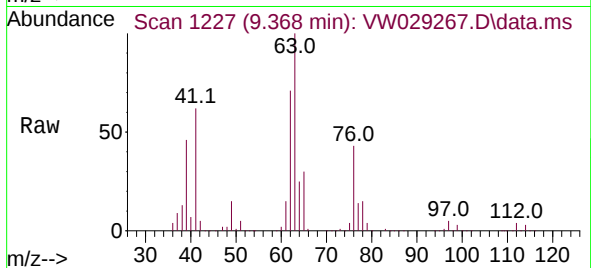
ClientSampleId :

Tgt Ion: 63 Resp: 216064

Ion Ratio Lower Upper

63 100

112 4.1 3.8 5.6



#39

cis-1,3-Dichloropropene

Concen: 24.550 ug/L

RT: 10.069 min Scan# 1342

Delta R.T. -0.000 min

Lab File: VW029267.D

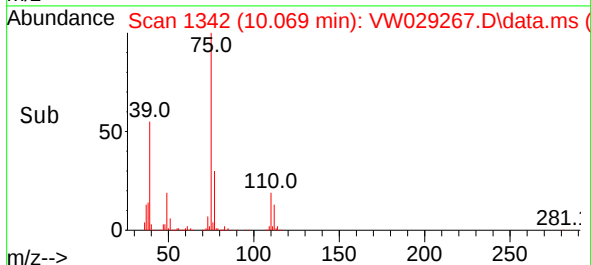
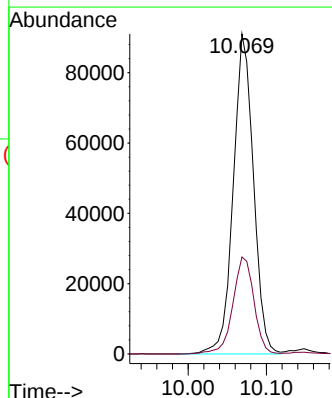
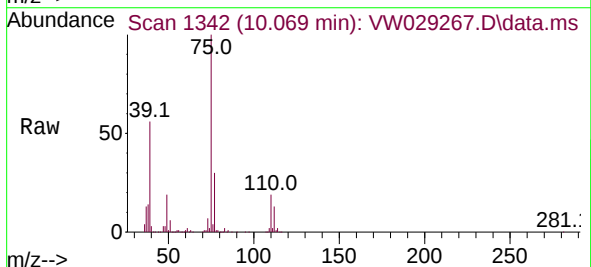
Acq: 20 Jun 2024 18:54

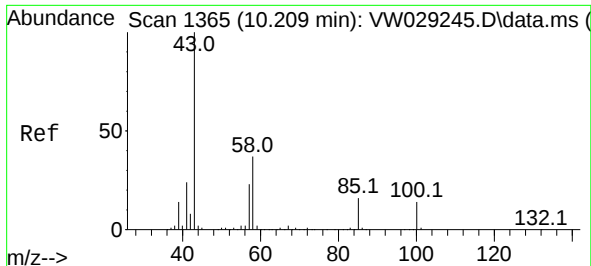
Tgt Ion: 75 Resp: 162828

Ion Ratio Lower Upper

75 100

77 30.3 22.7 42.1





#40

4-Methyl-2-pentanone

Concen: 45.549 ug/L

RT: 10.209 min Scan# 1429

Delta R.T. -0.000 min

Lab File: VW029267.D

Acq: 20 Jun 2024 18:54

Instrument :

MSVOA_W

ClientSampleId :

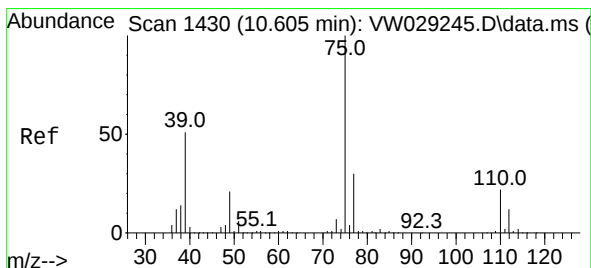
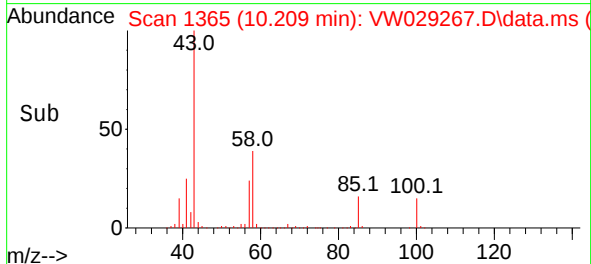
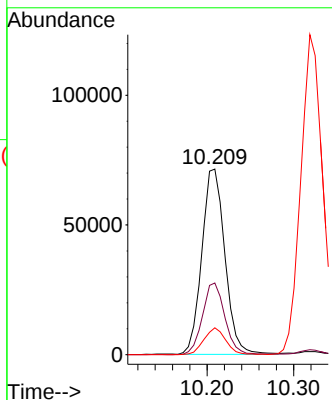
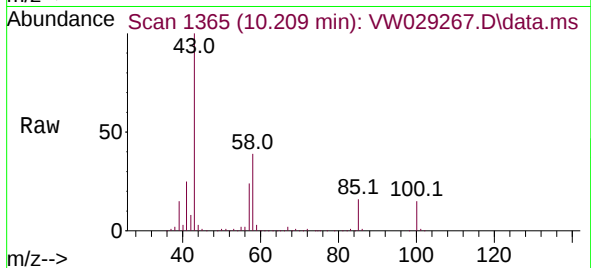
Tgt Ion: 43 Resp: 132459

Ion Ratio Lower Upper

43 100

58 37.6 28.2 42.4

100 13.8 11.0 16.4



#44

trans-1,3-Dichloropropene

Concen: 20.436 ug/L

RT: 10.599 min Scan# 1429

Delta R.T. -0.006 min

Lab File: VW029267.D

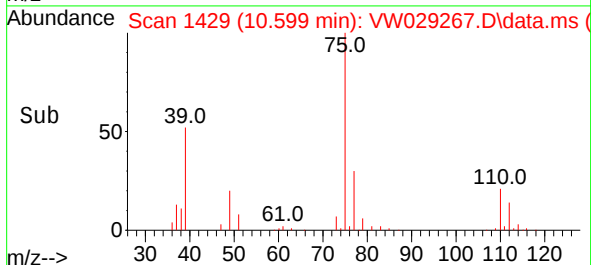
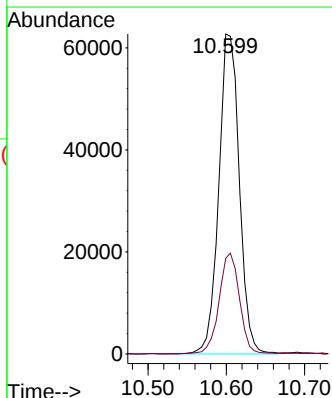
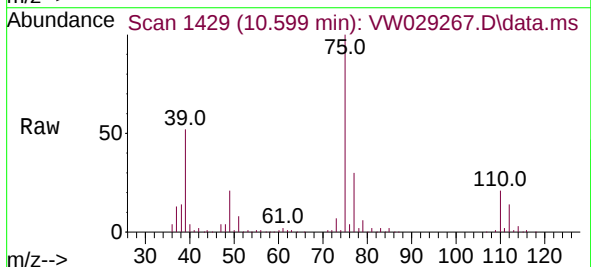
Acq: 20 Jun 2024 18:54

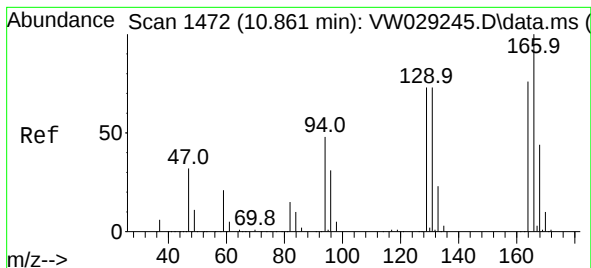
Tgt Ion: 75 Resp: 114447

Ion Ratio Lower Upper

75 100

77 29.9 22.7 42.1





#46

Tetrachloroethene

Concen: 12.209 ug/L

RT: 10.861 min Scan# 1472

Delta R.T. -0.000 min

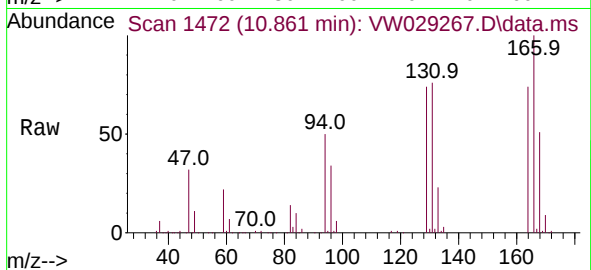
Lab File: VW029267.D

Acq: 20 Jun 2024 18:54

Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion:164 Resp: 38020

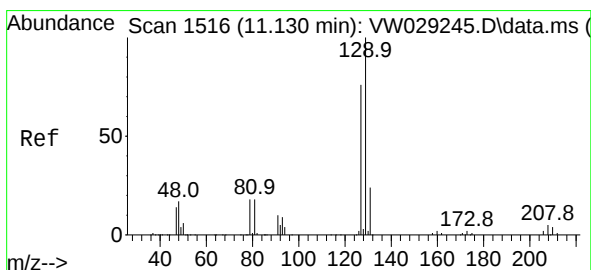
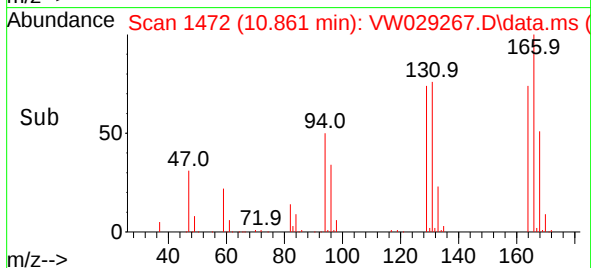
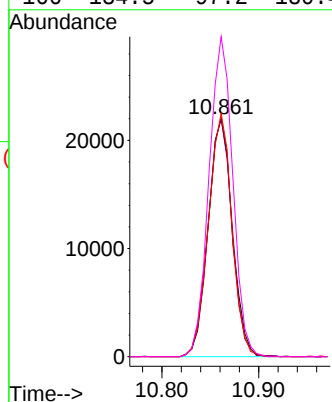
Ion Ratio Lower Upper

164 100

129 100.0 68.5 127.3

131 102.2 71.8 133.4

166 134.5 97.2 180.4



#49

Dibromochloromethane

Concen: 20.657 ug/L

RT: 11.129 min Scan# 1516

Delta R.T. -0.000 min

Lab File: VW029267.D

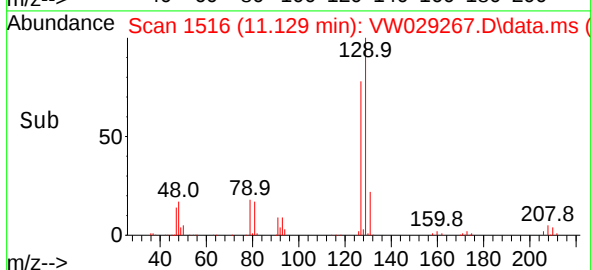
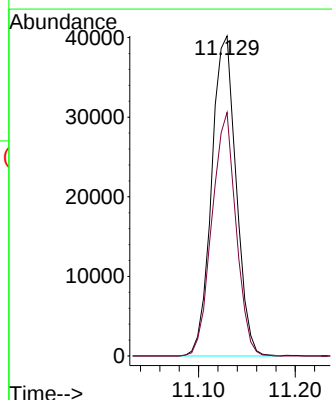
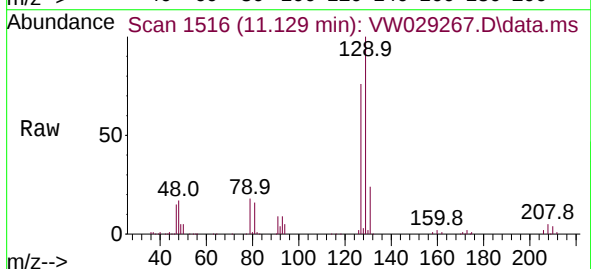
Acq: 20 Jun 2024 18:54

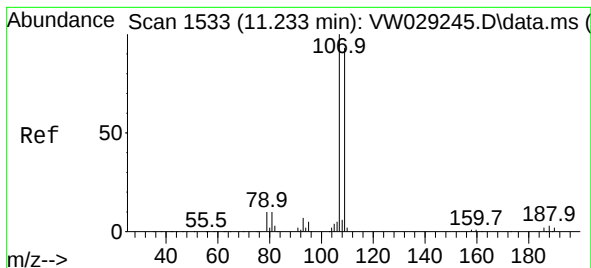
Tgt Ion:129 Resp: 70562

Ion Ratio Lower Upper

129 100

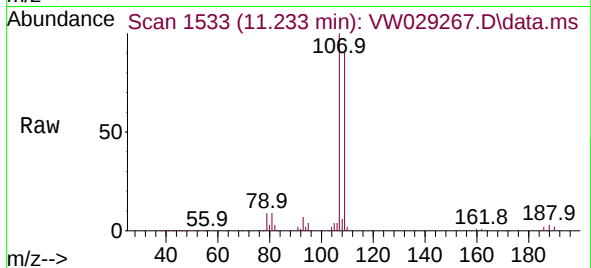
127 76.1 54.8 101.8



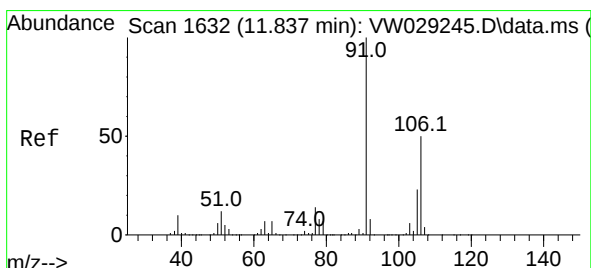
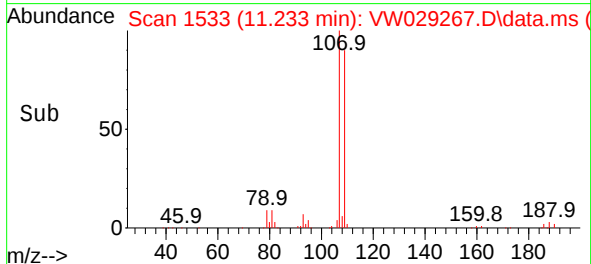
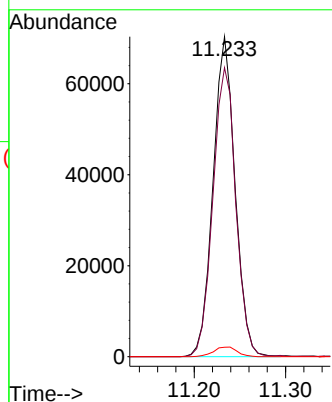


#50
1,2-Dibromoethane
Concen: 40.094 ug/L
RT: 11.233 min Scan# 1533
Delta R.T. -0.000 min
Lab File: VW029267.D
Acq: 20 Jun 2024 18:54

Instrument :
MSVOA_W
ClientSampleId :

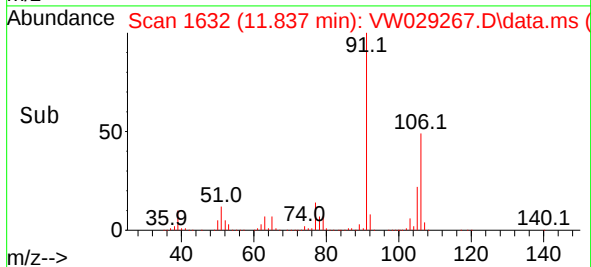
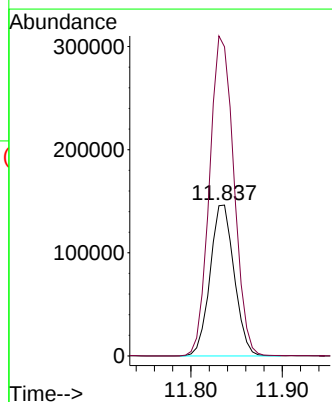
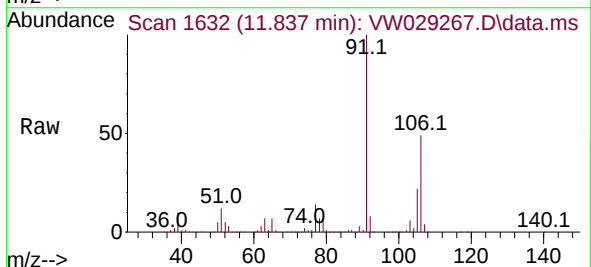


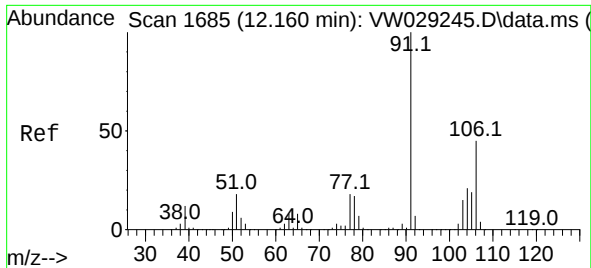
Tgt Ion:107 Resp: 117610
Ion Ratio Lower Upper
107 100
109 90.3 65.5 121.6
188 3.0 2.6 4.0



#53
m,p-Xylene
Concen: 37.692 ug/L
RT: 11.837 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW029267.D
Acq: 20 Jun 2024 18:54

Tgt Ion:106 Resp: 268266
Ion Ratio Lower Upper
106 100
91 204.9 140.5 260.9

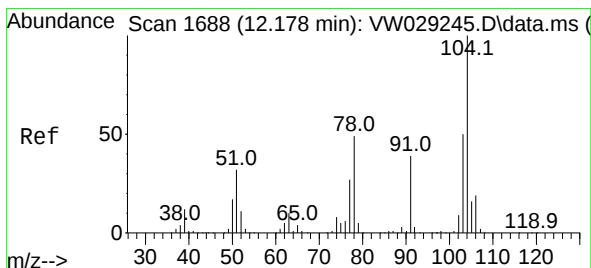
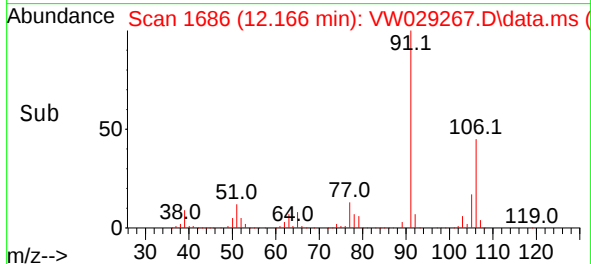
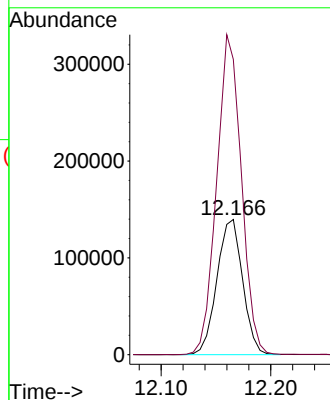
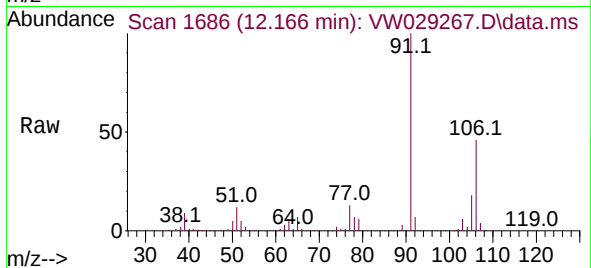




#54
o-Xylene
Concen: 34.235 ug/L
RT: 12.166 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW029267.D
Acq: 20 Jun 2024 18:54

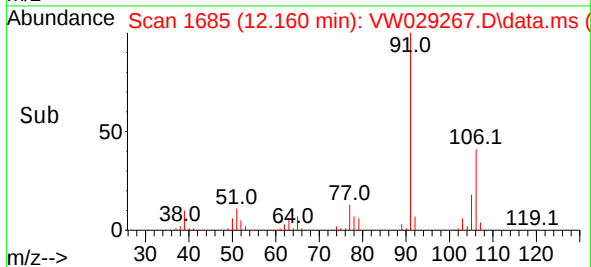
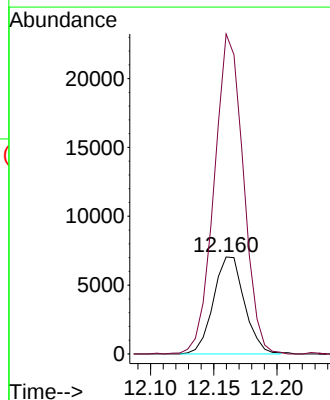
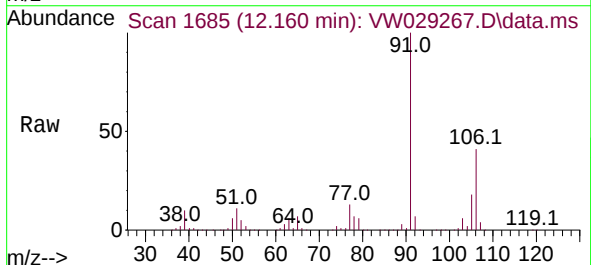
Instrument :
MSVOA_W
ClientSampleId :

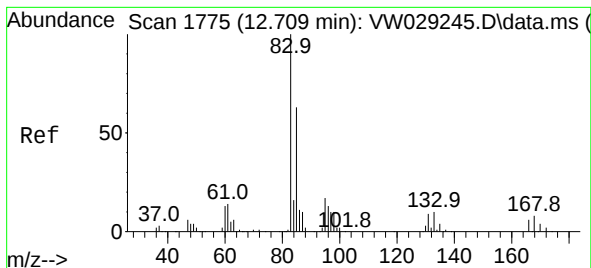
Tgt Ion:106 Resp: 227719
Ion Ratio Lower Upper
106 100
91 218.5 149.9 278.5



#55
Styrene
Concen: 1.036 ug/L
RT: 12.160 min Scan# 1685
Delta R.T. -0.018 min
Lab File: VW029267.D
Acq: 20 Jun 2024 18:54

Tgt Ion:104 Resp: 12013
Ion Ratio Lower Upper
104 100
78 330.0 35.4 65.7#





#57

1,1,2,2-Tetrachloroethane

Concen: 29.323 ug/L

RT: 12.708 min Scan# 1

Delta R.T. -0.000 min

Lab File: VW029267.D

Acq: 20 Jun 2024 18:54

Instrument :

MSVOA_W

ClientSampleId :

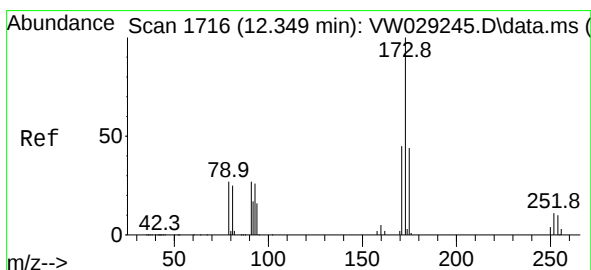
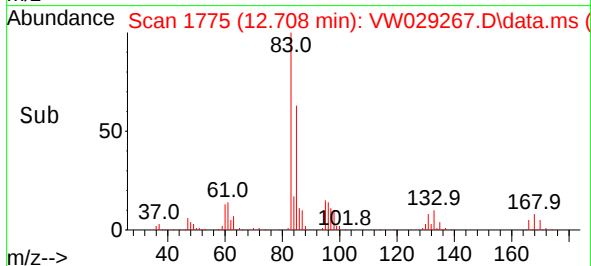
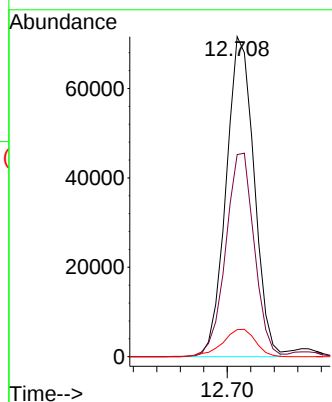
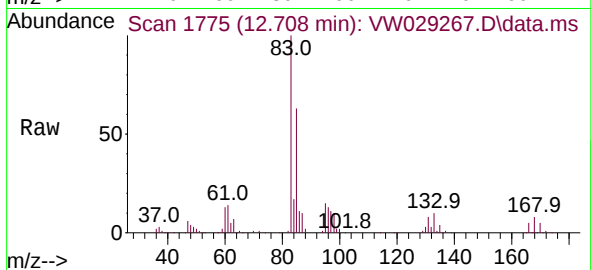
Tgt Ion: 83 Resp: 118528

Ion Ratio Lower Upper

83 100

85 63.2 45.8 85.0

131 8.4 7.8 11.6



#59

Bromoform

Concen: 7.594 ug/L

RT: 12.349 min Scan# 1716

Delta R.T. -0.000 min

Lab File: VW029267.D

Acq: 20 Jun 2024 18:54

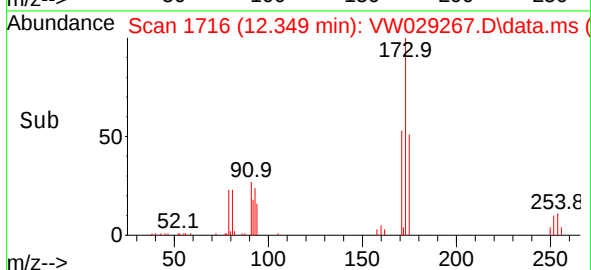
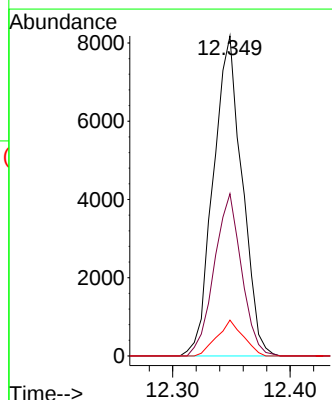
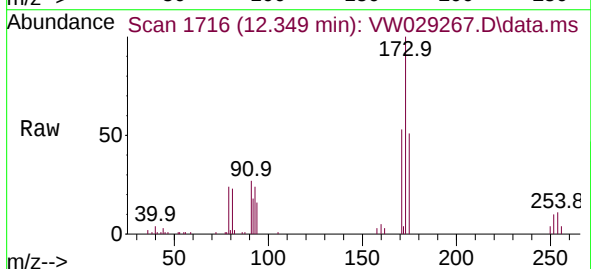
Tgt Ion:173 Resp: 13934

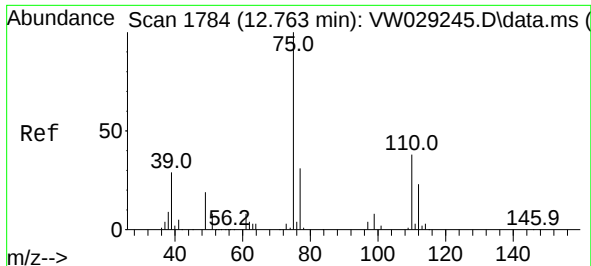
Ion Ratio Lower Upper

173 100

175 48.2 37.8 56.8

254 10.2 7.8 11.6





#61

1,2,3-Trichloropropane

Concen: 36.570 ug/L

RT: 12.763 min Scan# 1

Delta R.T. -0.000 min

Lab File: VW029267.D

Acq: 20 Jun 2024 18:54

Instrument :

MSVOA_W

ClientSampleId :

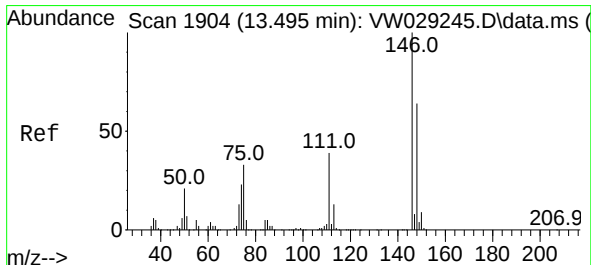
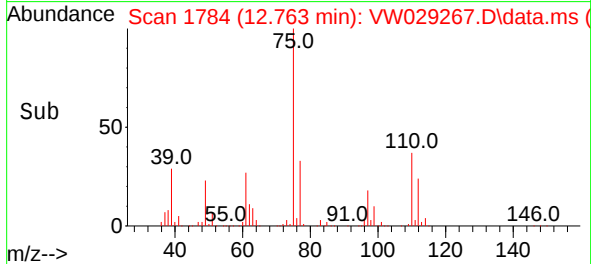
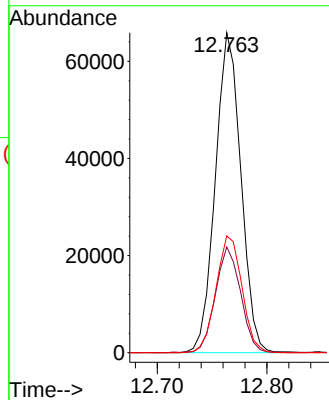
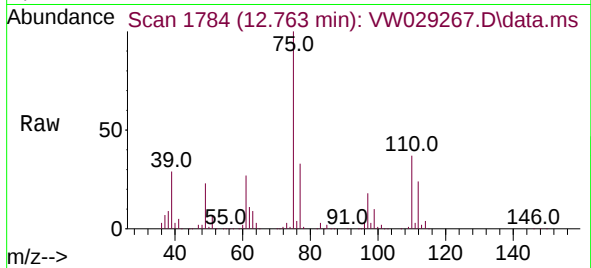
Tgt Ion: 75 Resp: 106790

Ion Ratio Lower Upper

75 100

77 32.6 26.6 39.8

110 37.0 29.5 44.3



#64

1,3-Dichlorobenzene

Concen: 15.174 ug/L

RT: 13.495 min Scan# 1904

Delta R.T. -0.000 min

Lab File: VW029267.D

Acq: 20 Jun 2024 18:54

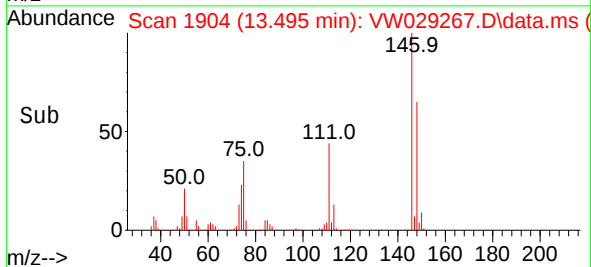
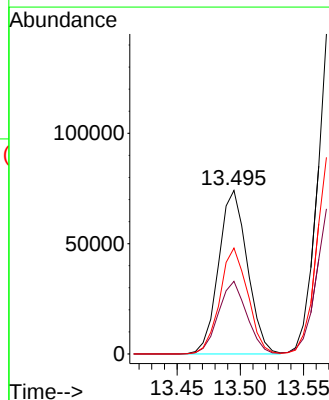
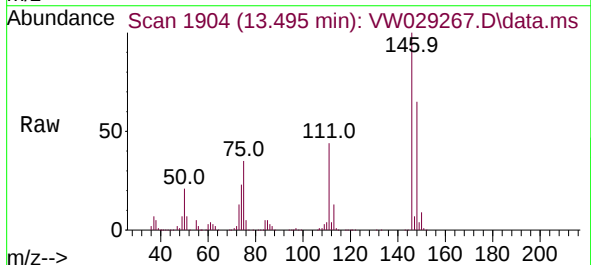
Tgt Ion:146 Resp: 117146

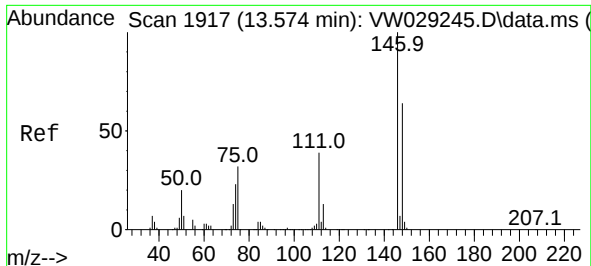
Ion Ratio Lower Upper

146 100

111 44.5 33.0 61.2

148 64.7 47.5 88.1





#65

1,4-Dichlorobenzene

Concen: 33.534 ug/L

RT: 13.574 min Scan# 1

Delta R.T. -0.000 min

Lab File: VW029267.D

Acq: 20 Jun 2024 18:54

Instrument :

MSVOA_W

ClientSampleId :

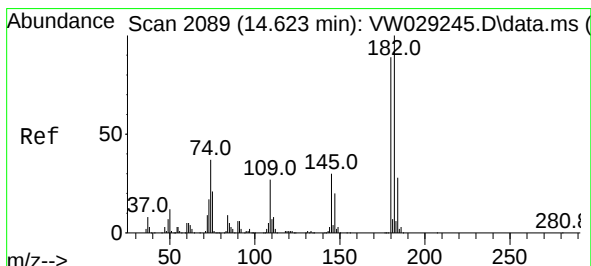
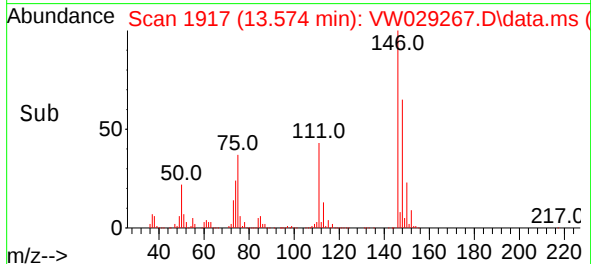
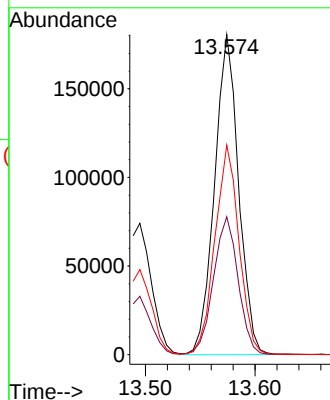
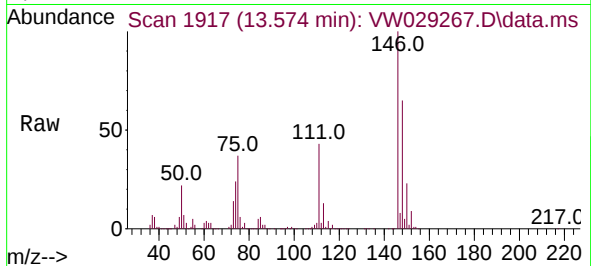
Tgt Ion:146 Resp: 275441

Ion Ratio Lower Upper

146 100

111 43.1 28.9 53.7

148 65.5 42.0 78.0



#69

1,3,5-Trichlorobenzene

Concen: 10.927 ug/L

RT: 15.129 min Scan# 2172

Delta R.T. 0.506 min

Lab File: VW029267.D

Acq: 20 Jun 2024 18:54

Tgt Ion:180 Resp: 56932

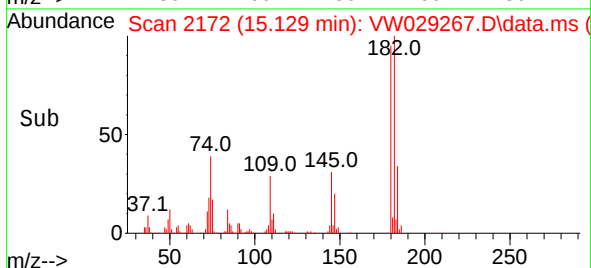
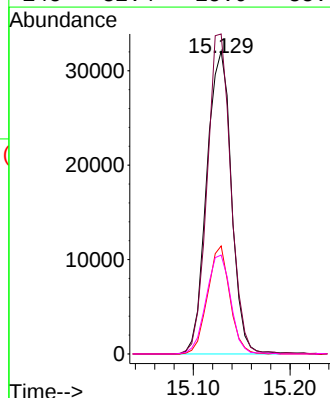
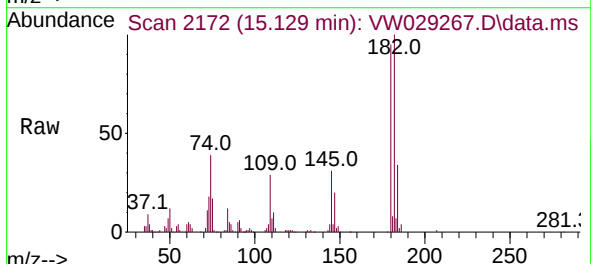
Ion Ratio Lower Upper

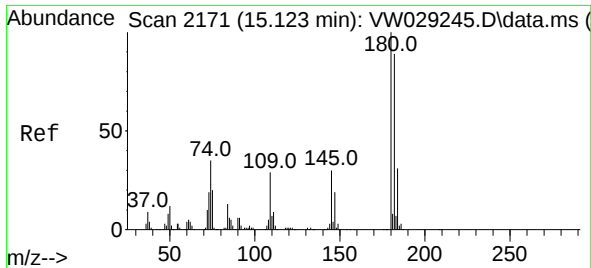
180 100

182 101.5 72.9 109.3

184 32.1 23.8 35.6

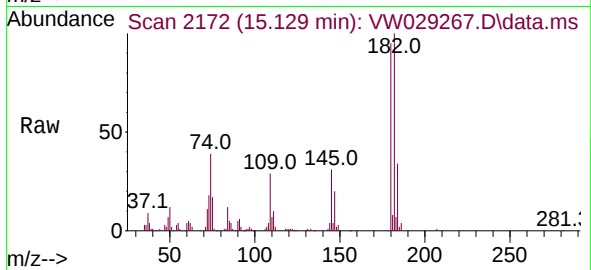
145 32.4 25.9 38.9





#70
 1,2,4-trichlorobenzene
 Concen: 13.480 ug/L
 RT: 15.129 min Scan# 2172
 Delta R.T. 0.006 min
 Lab File: VW029267.D
 Acq: 20 Jun 2024 18:54

Instrument :
 MSVOA_W
 ClientSampleId :



Tgt Ion:	180	Resp:	56932
Ion Ratio	Lower	Upper	
180	100		
182	101.5	77.7	116.5
145	32.4	25.7	38.5

