

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081624\
 Data File : VW029927.D
 Acq On : 16 Aug 2024 13:35
 Operator : SY/MD
 Sample : P3504-04
 Misc : 5.00g/10mL/MSVOA_W/SOIL/A
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 DCXX3

Quant Time: Aug 17 00:35:43 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM072424SMA.M
 Quant Title : SFAM01.0
 QLast Update : Sat Aug 17 00:33:10 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.843	114	186189	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.629	117	181227	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.556	152	83936	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.363	65	51784	19.591	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	78.360%
7) Chloroethane-d5	2.899	69	45189	23.946	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	95.800%
11) 1,1-Dichloroethene-d2	4.021	65	22820	18.913	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	75.640%
21) 2-Butanone-d5	7.075	46	32041	44.226	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	88.460%
24) Chloroform-d	7.648	84	142982	29.666	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	118.680%
26) 1,2-Dichloroethane-d4	8.307	65	69266	25.231	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	100.920%
32) Benzene-d6	8.276	84	211559	21.605	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	86.440%
36) 1,2-Dichloropropane-d6	9.270	67	66443	21.251	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	85.000%
41) Toluene-d8	10.319	98	199238	22.883	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	91.520%
43) trans-1,3-Dichloroprop...	10.575	79	29654	23.438	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	93.760%
47) 2-Hexanone-d5	10.922	63	23797	46.158	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	92.320%
56) 1,1,2,2-Tetrachloroeth...	12.690	84	64730	27.882	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	111.520%
66) 1,2-Dichlorobenzene-d4	13.848	152	61765	23.699	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	94.800%
Target Compounds						
					Qvalue	
12) 1,1-Dichloroethene	4.045	96	106442	41.847	ug/L	79
13) Acetone	4.118	43	68099	75.637	ug/L	97
16) Methylene chloride	4.917	84	274059	70.410	ug/L	88
17) trans-1,2-Dichloroethene	5.429	96	90320	32.951	ug/L	88
18) Methyl tert-butyl Ether	5.429	73	204719	45.317	ug/L	98
19) 1,1-Dichloroethane	6.222	63	492117	85.127	ug/L	98
22) 2-Butanone	7.167	43	218460	189.370	ug/L	91
25) Chloroform	7.679	83	541161	99.358	ug/L	97
31) Carbon tetrachloride	8.069	117	69097	16.709	ug/L	98
33) Benzene	8.325	78	799176	64.361	ug/L	100
34) Trichloroethene	9.093	95	312243	95.923	ug/L	97
37) 1,2-Dichloropropane	9.367	63	116650	34.281	ug/L	98
39) cis-1,3-Dichloropropene	10.069	75	307323	62.015	ug/L	95
40) 4-Methyl-2-pentanone	10.209	43	284633	131.690	ug/L	# 91
44) trans-1,3-Dichloropropene	10.605	75	304897	74.114	ug/L	98
45) 1,1,2-Trichloroethane	10.782	97	124753	54.572	ug/L	97
50) 1,2-Dibromoethane	11.233	107	109462	51.751	ug/L	96
53) m,p-Xylene	11.830	106	266305	50.647	ug/L	99
54) o-Xylene	12.160	106	331667	68.497	ug/L	97

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QLast Update : Sat Aug 17 00:33:10 2024
Response via : Initial Calibration

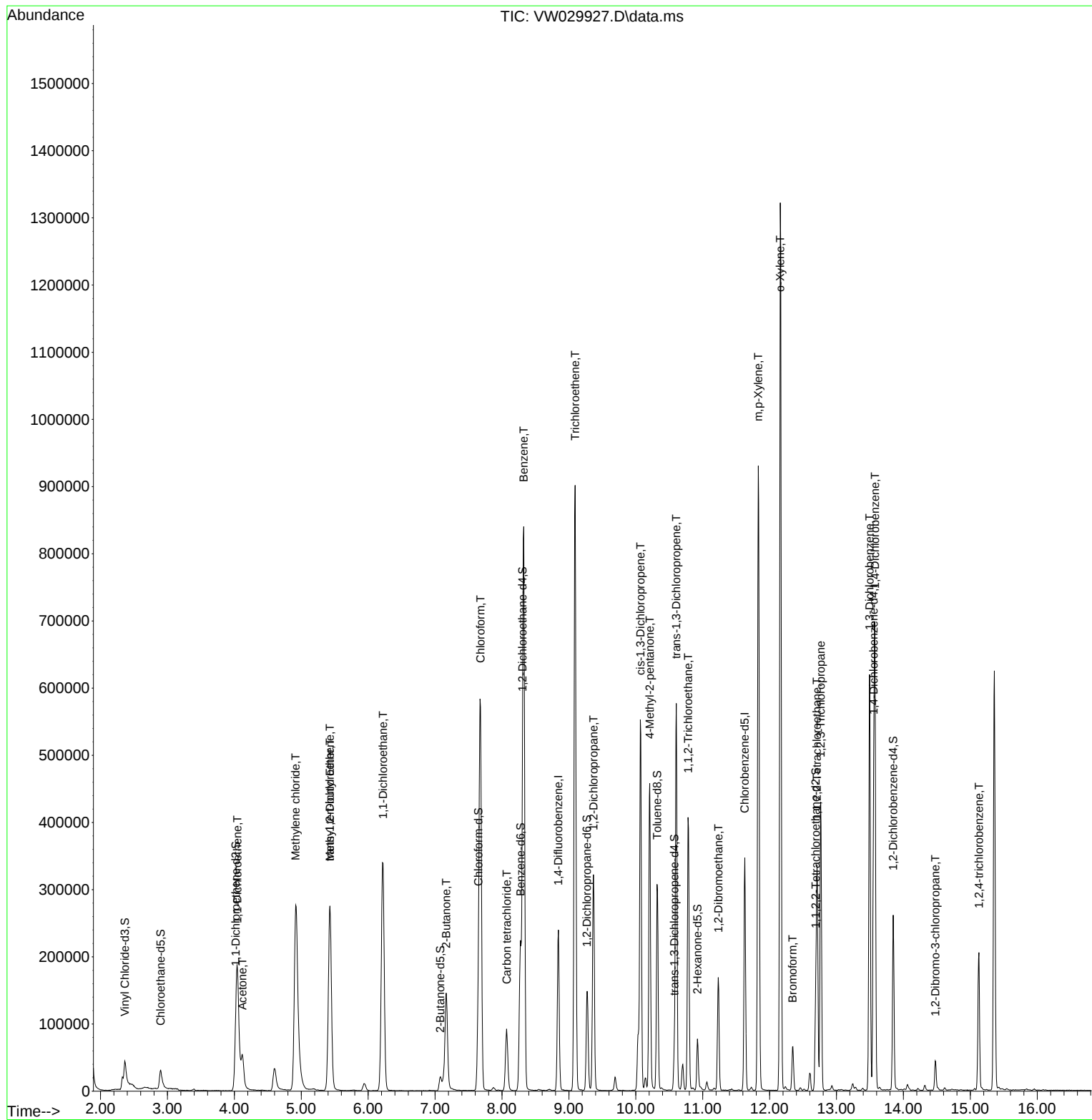
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) 1,1,2,2-Tetrachloroethane	12.708	83	150796	53.744	ug/L	97
59) Bromoform	12.343	173	27394	21.690	ug/L	95
61) 1,2,3-Trichloropropane	12.763	75	172593	84.544	ug/L	97
64) 1,3-Dichlorobenzene	13.495	146	235699	42.533	ug/L	96
65) 1,4-Dichlorobenzene	13.574	146	240810	42.305	ug/L	89
68) 1,2-Dibromo-3-chloropr...	14.476	75	11061	23.863	ug/L	84
70) 1,2,4-trichlorobenzene	15.129	180	59111	18.506	ug/L	97

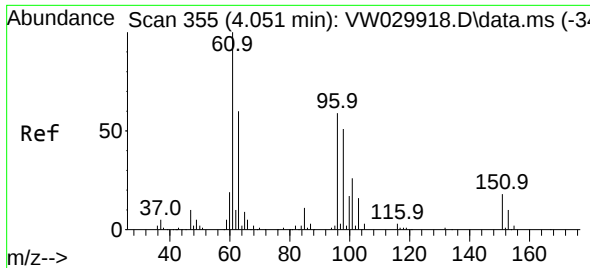
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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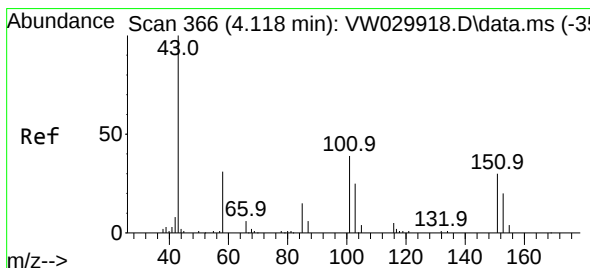
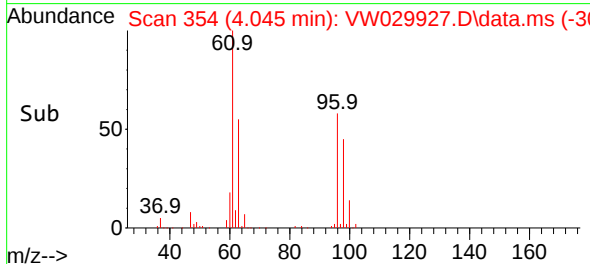
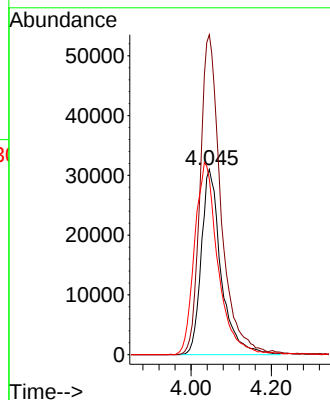
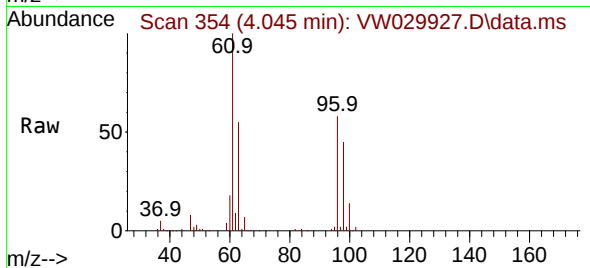




#12
1,1-Dichloroethene
Concen: 41.847 ug/L
RT: 4.045 min Scan# 355
Delta R.T. -0.006 min
Lab File: VW029927.D
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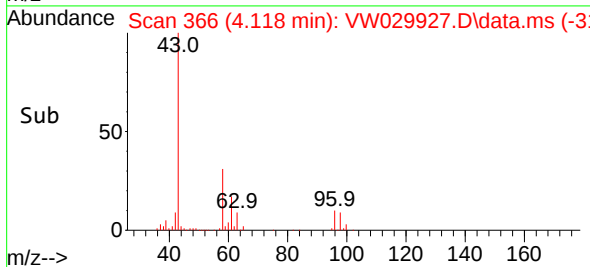
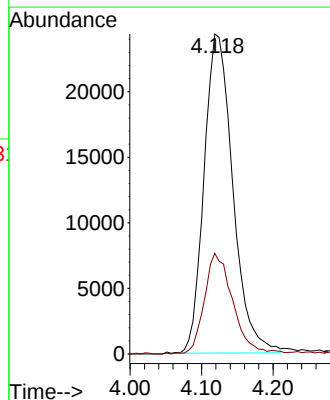
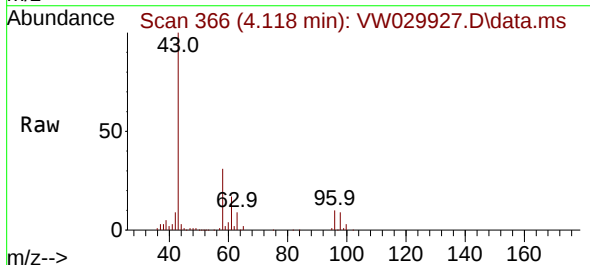
Instrument :
MSVOA_W
ClientSampleId :
DCXX3

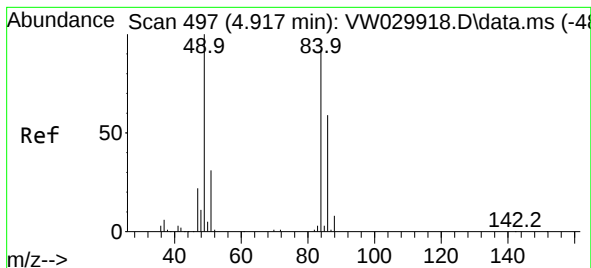
Tgt Ion: 96 Resp: 106442
Ion Ratio Lower Upper
96 100
61 172.7 138.3 256.9
63 94.8 89.0 165.4



#13
Acetone
Concen: 75.637 ug/L
RT: 4.118 min Scan# 366
Delta R.T. -0.000 min
Lab File: VW029927.D
Acq: 16 Aug 2024 13:35

Tgt Ion: 43 Resp: 68099
Ion Ratio Lower Upper
43 100
58 30.6 0.0 57.6





#16

Methylene chloride

Concen: 70.410 ug/L

RT: 4.917 min Scan# 497

Delta R.T. -0.000 min

Lab File: VW029927.D

Acq: 16 Aug 2024 13:35

Instrument :

MSVOA_W

ClientSampleId :

DCXX3

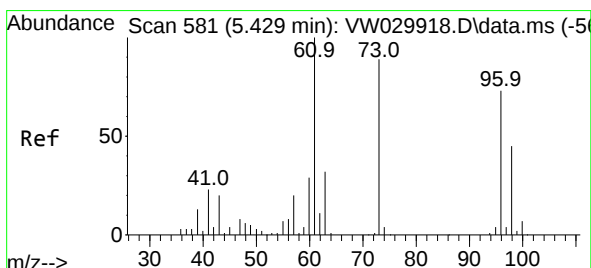
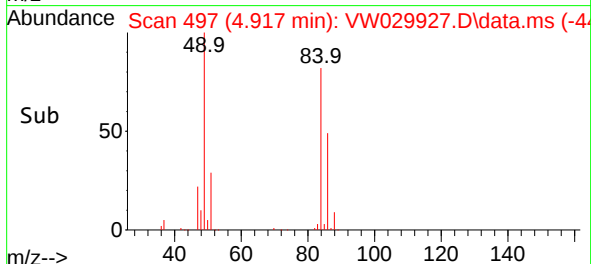
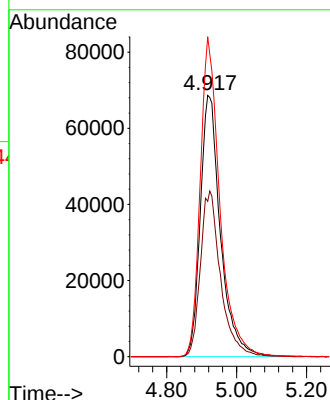
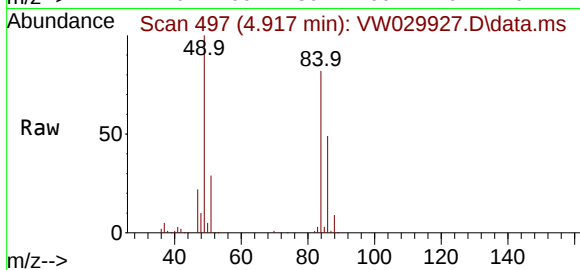
Tgt Ion: 84 Resp: 274059

Ion Ratio Lower Upper

84 100

86 59.4 44.7 82.9

49 122.5 99.0 184.0



#17

trans-1,2-Dichloroethene

Concen: 32.951 ug/L

RT: 5.429 min Scan# 581

Delta R.T. -0.000 min

Lab File: VW029927.D

Acq: 16 Aug 2024 13:35

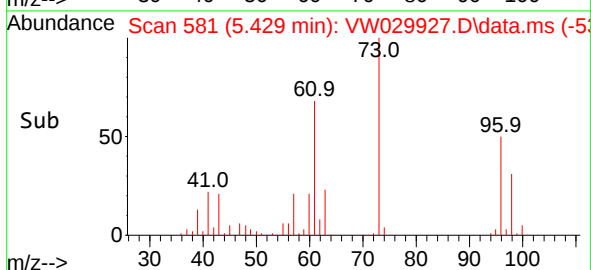
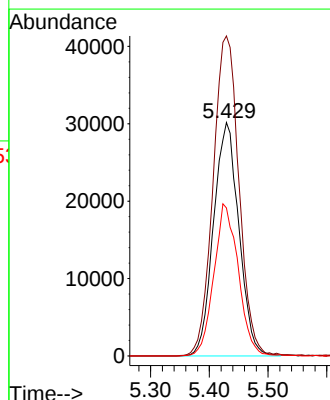
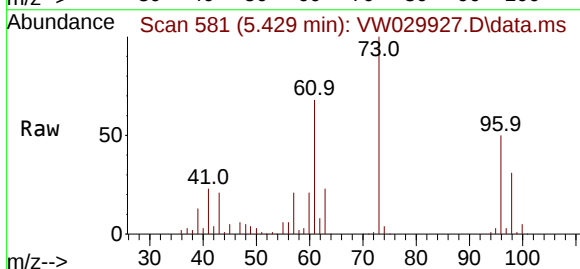
Tgt Ion: 96 Resp: 90320

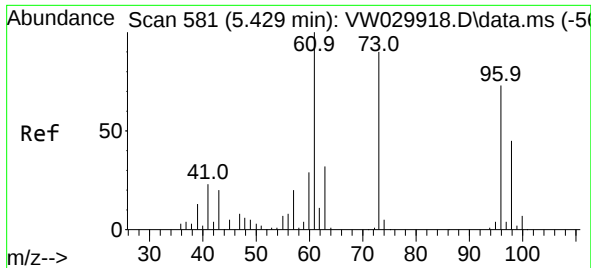
Ion Ratio Lower Upper

96 100

61 137.1 111.2 206.6

98 63.4 45.0 83.6

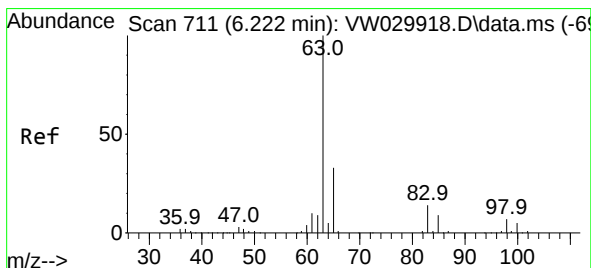
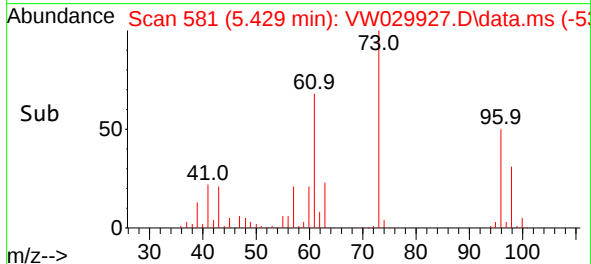
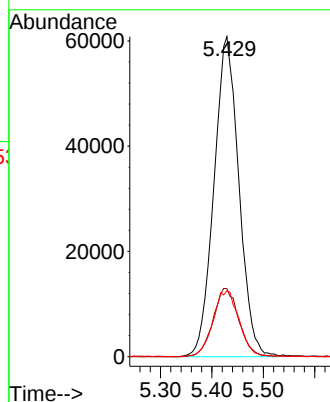
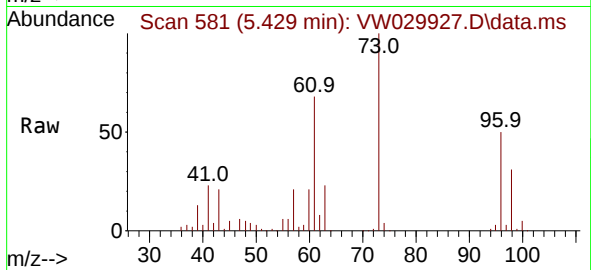




#18
Methyl tert-butyl Ether
Concen: 45.317 ug/L
RT: 5.429 min Scan# 581
Delta R.T. -0.000 min
Lab File: VW029927.D
Acq: 16 Aug 2024 13:35

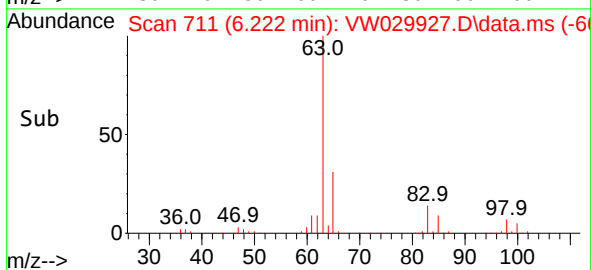
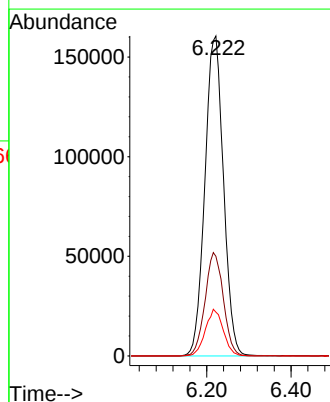
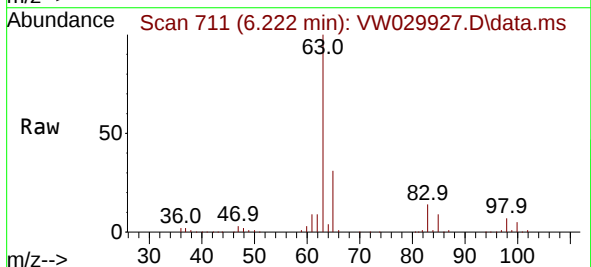
Instrument :
MSVOA_W
ClientSampleId :
DCXX3

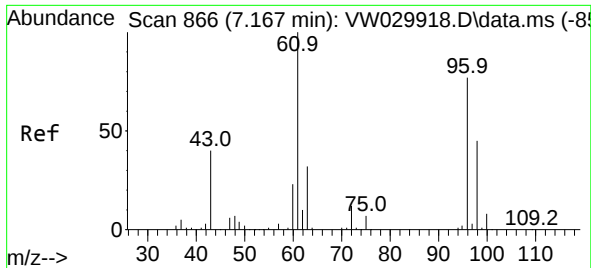
Tgt Ion: 73 Resp: 204719
Ion Ratio Lower Upper
73 100
43 22.1 18.3 27.5
57 21.6 17.9 26.9



#19
1,1-Dichloroethane
Concen: 85.127 ug/L
RT: 6.222 min Scan# 711
Delta R.T. -0.000 min
Lab File: VW029927.D
Acq: 16 Aug 2024 13:35

Tgt Ion: 63 Resp: 492117
Ion Ratio Lower Upper
63 100
65 31.1 22.3 41.3
83 13.7 8.5 15.7

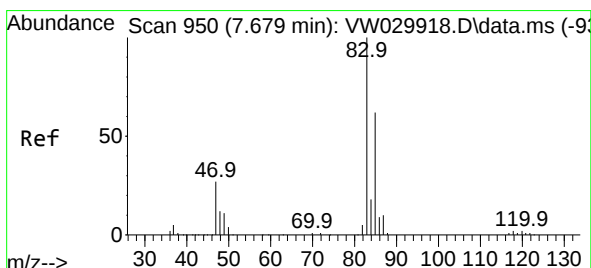
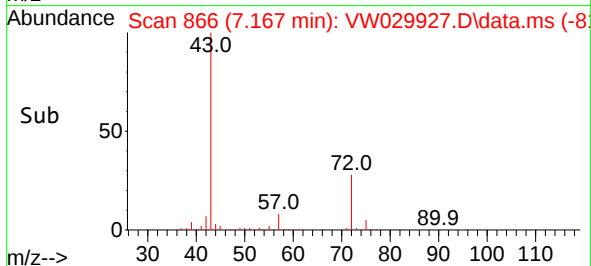
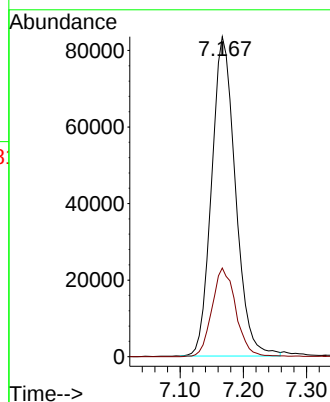
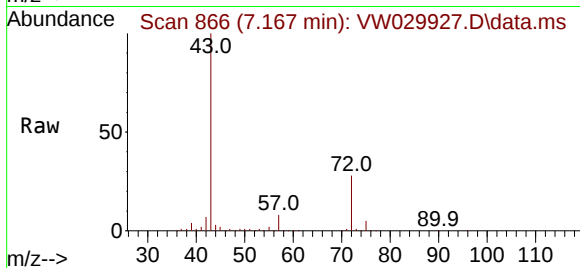




#22
2-Butanone
Concen: 189.370 ug/L
RT: 7.167 min Scan# 866
Delta R.T. -0.000 min
Lab File: VW029927.D
Acq: 16 Aug 2024 13:35

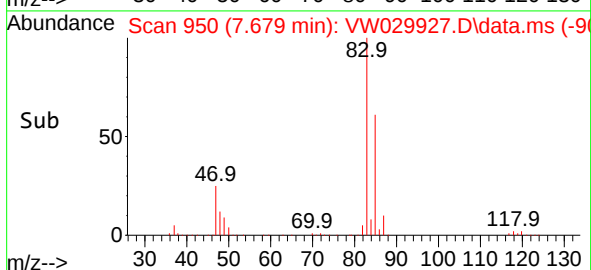
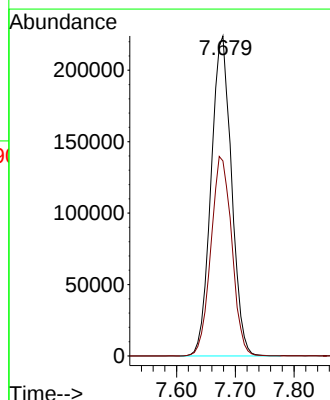
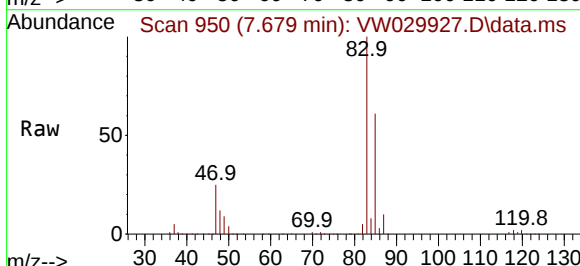
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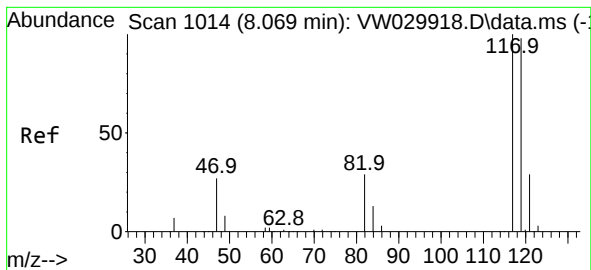
Tgt Ion: 43 Resp: 218460
Ion Ratio Lower Upper
43 100
72 27.8 11.7 35.1



#25
Chloroform
Concen: 99.358 ug/L
RT: 7.679 min Scan# 950
Delta R.T. -0.000 min
Lab File: VW029927.D
Acq: 16 Aug 2024 13:35

Tgt Ion: 83 Resp: 541161
Ion Ratio Lower Upper
83 100
85 61.0 44.4 82.4

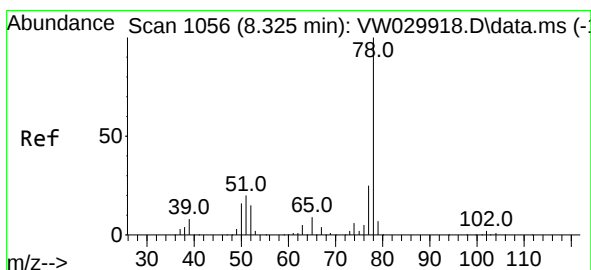
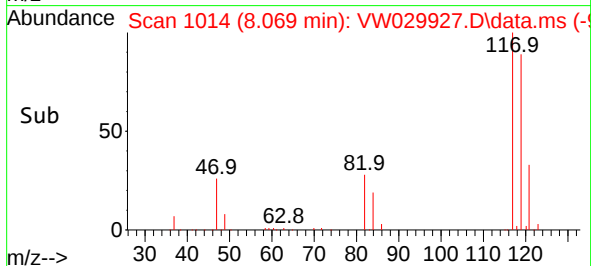
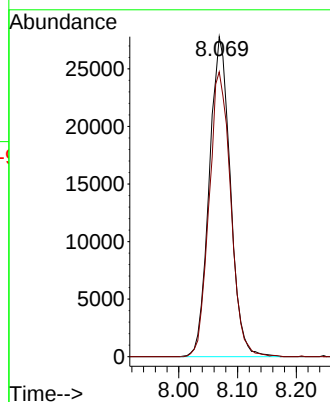
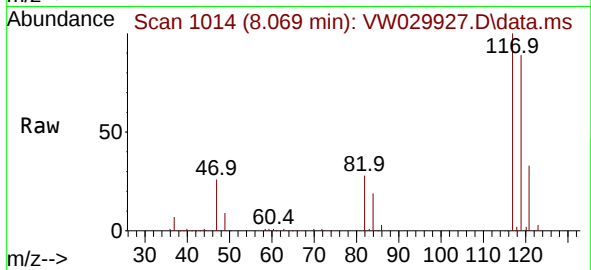




#31
Carbon tetrachloride
Concen: 16.709 ug/L
RT: 8.069 min Scan# 1014
Delta R.T. -0.000 min
Lab File: VW029927.D
Acq: 16 Aug 2024 13:35

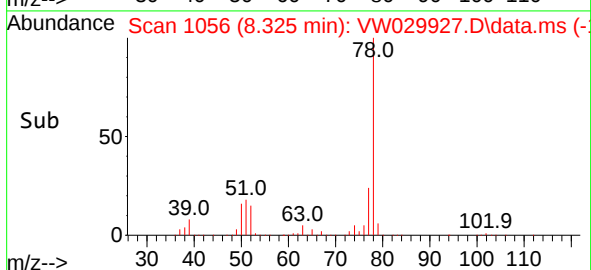
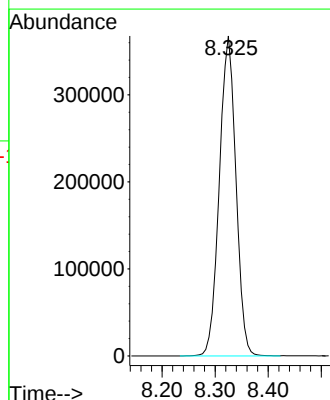
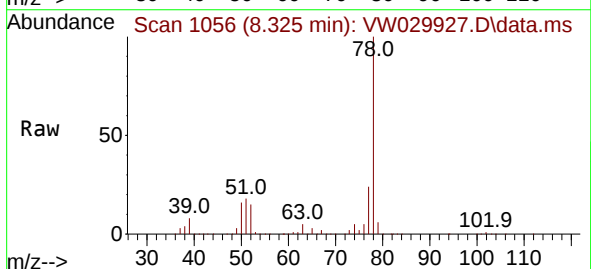
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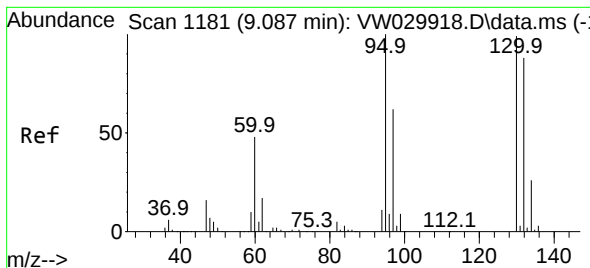
Tgt Ion:117 Resp: 69097
Ion Ratio Lower Upper
117 100
119 91.4 74.8 112.2



#33
Benzene
Concen: 64.361 ug/L
RT: 8.325 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VW029927.D
Acq: 16 Aug 2024 13:35

Tgt Ion: 78 Resp: 799176





#34

Trichloroethene

Concen: 95.923 ug/L

RT: 9.093 min Scan# 1181

Delta R.T. 0.006 min

Lab File: VW029927.D

Acq: 16 Aug 2024 13:35

Instrument :

MSVOA_W

ClientSampleId :

DCXX3

Tgt Ion: 95 Resp: 312243

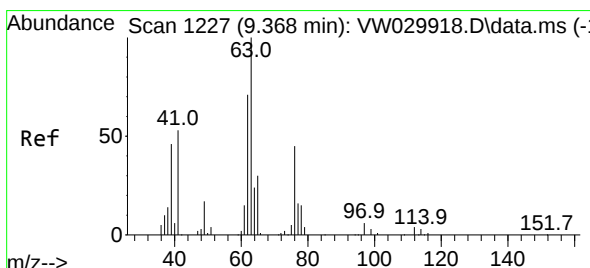
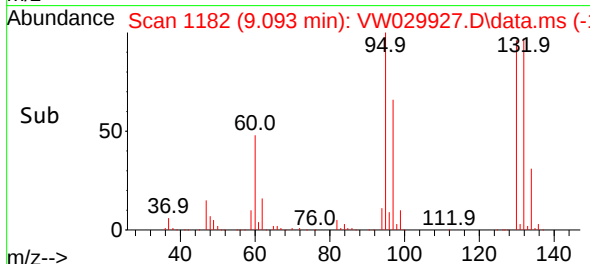
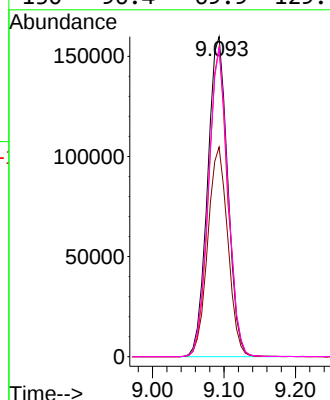
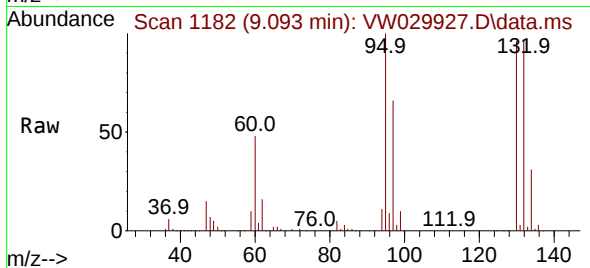
Ion Ratio Lower Upper

95 100

97 65.5 45.6 84.8

132 96.6 65.2 121.0

130 96.4 69.9 129.7



#37

1,2-Dichloropropane

Concen: 34.281 ug/L

RT: 9.367 min Scan# 1227

Delta R.T. -0.000 min

Lab File: VW029927.D

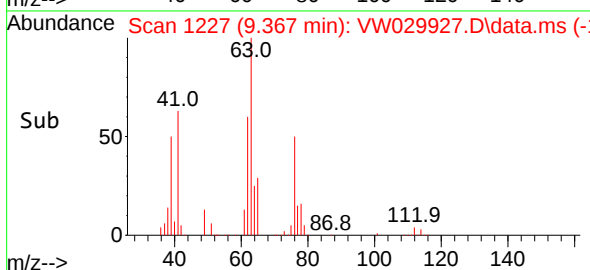
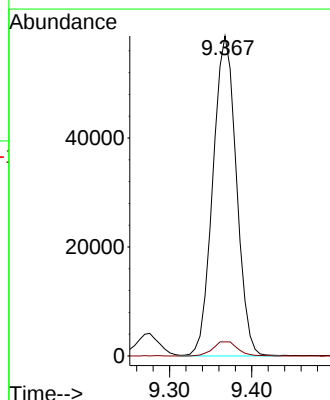
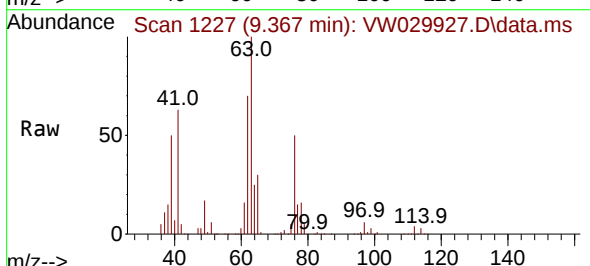
Acq: 16 Aug 2024 13:35

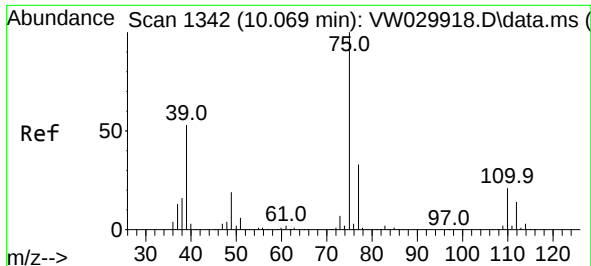
Tgt Ion: 63 Resp: 116650

Ion Ratio Lower Upper

63 100

112 4.7 3.3 4.9

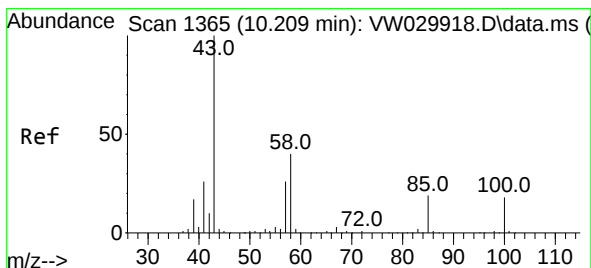
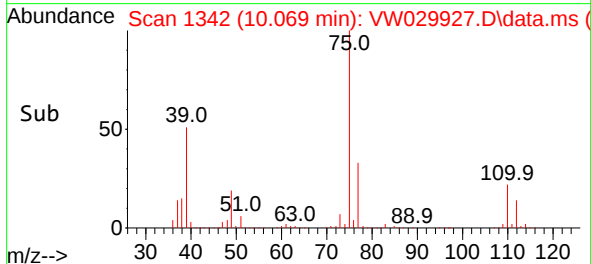
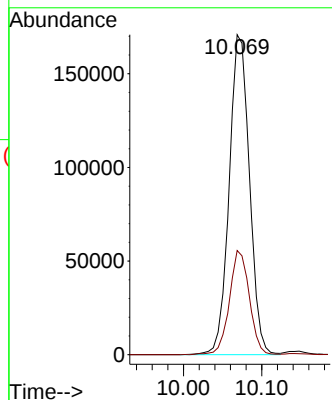
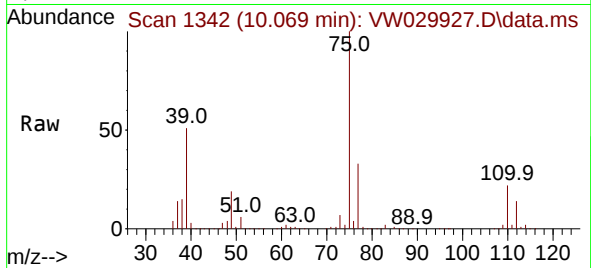




#39
cis-1,3-Dichloropropene
Concen: 62.015 ug/L
RT: 10.069 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW029927.D
Acq: 16 Aug 2024 13:35

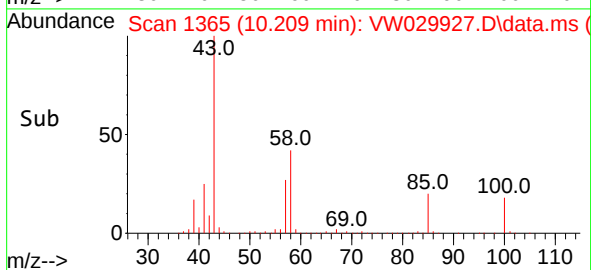
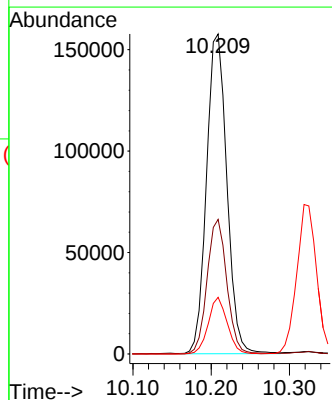
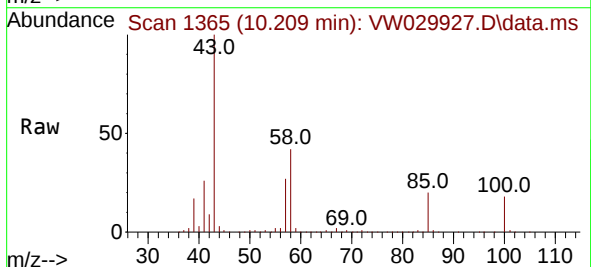
Instrument :
MSVOA_W
ClientSampleId :
DCXX3

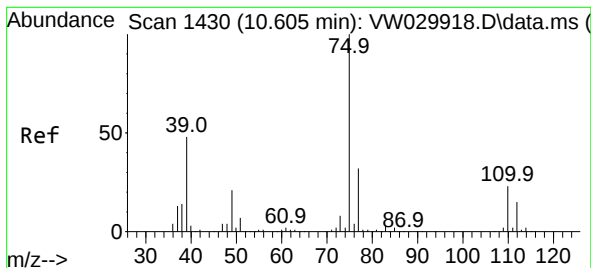
Tgt Ion: 75 Resp: 307323
Ion Ratio Lower Upper
75 100
77 32.5 20.8 38.6



#40
4-Methyl-2-pentanone
Concen: 131.690 ug/L
RT: 10.209 min Scan# 1365
Delta R.T. -0.000 min
Lab File: VW029927.D
Acq: 16 Aug 2024 13:35

Tgt Ion: 43 Resp: 284633
Ion Ratio Lower Upper
43 100
58 40.8 28.7 43.1
100 16.6 10.0 15.0#

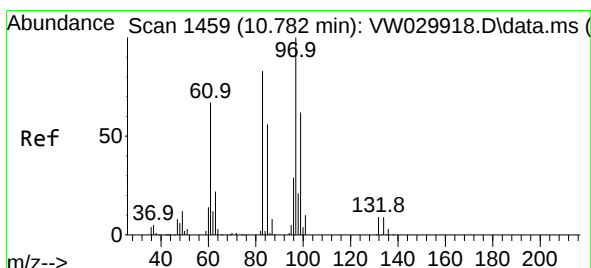
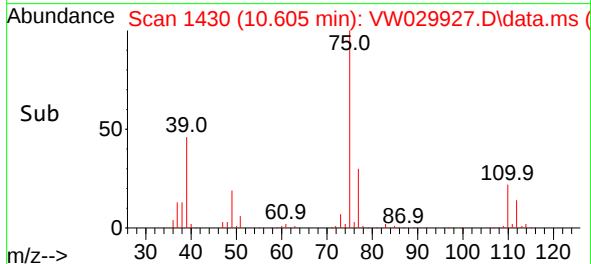
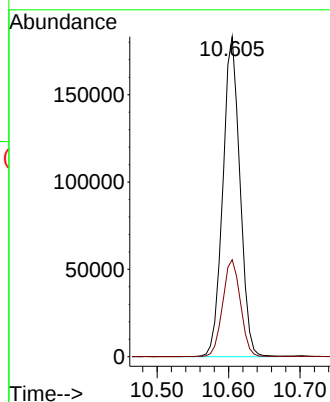
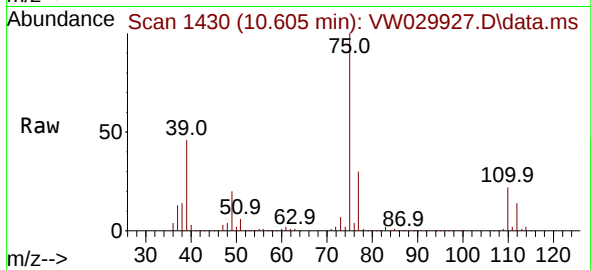




#44
trans-1,3-Dichloropropene
Concen: 74.114 ug/L
RT: 10.605 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VW029927.D
Acq: 16 Aug 2024 13:35

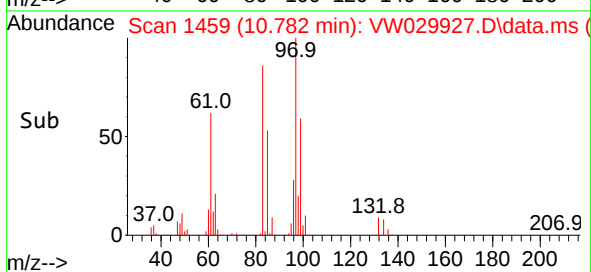
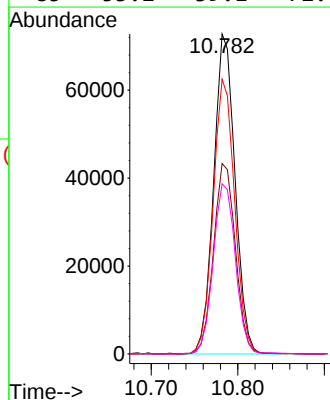
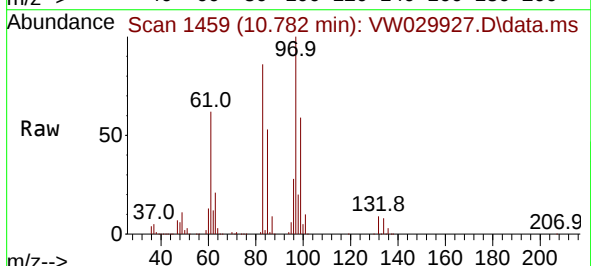
Instrument :
MSVOA_W
ClientSampleId :
DCXX3

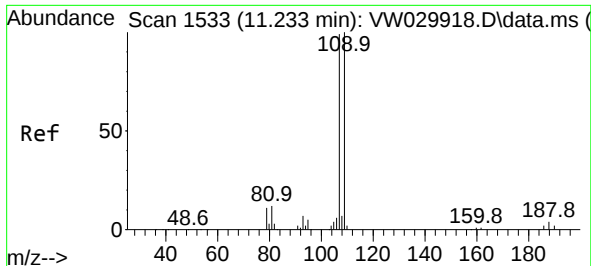
Tgt Ion: 75 Resp: 304897
Ion Ratio Lower Upper
75 100
77 30.3 22.0 41.0



#45
1,1,2-Trichloroethane
Concen: 54.572 ug/L
RT: 10.782 min Scan# 1459
Delta R.T. -0.000 min
Lab File: VW029927.D
Acq: 16 Aug 2024 13:35

Tgt Ion: 97 Resp: 124753
Ion Ratio Lower Upper
97 100
99 59.5 40.1 74.5
83 85.9 58.5 108.7
85 53.2 39.1 72.7





#50

1,2-Dibromoethane

Concen: 51.751 ug/L

RT: 11.233 min Scan# 1

Delta R.T. -0.000 min

Lab File: VW029927.D

Acq: 16 Aug 2024 13:35

Instrument :

MSVOA_W

ClientSampleId :

DCXX3

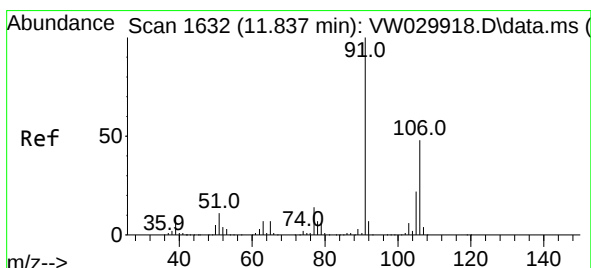
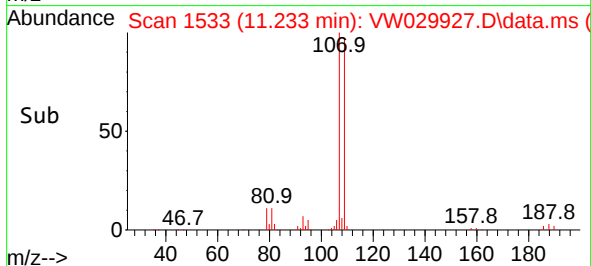
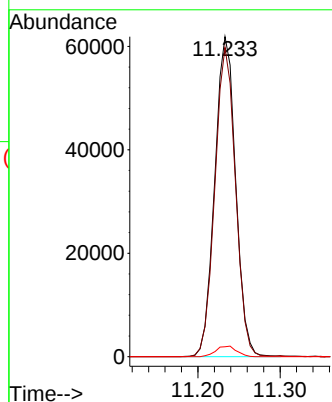
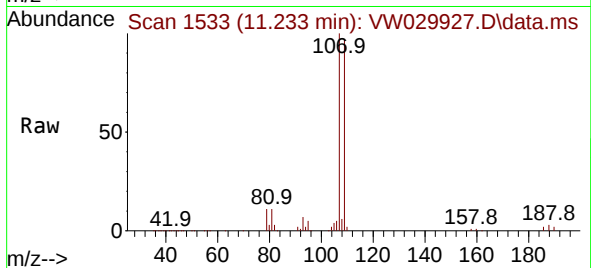
Tgt Ion:107 Resp: 109462

Ion Ratio Lower Upper

107 100

109 96.7 64.8 120.3

188 3.1 2.7 4.1



#53

m,p-Xylene

Concen: 50.647 ug/L

RT: 11.830 min Scan# 1631

Delta R.T. -0.006 min

Lab File: VW029927.D

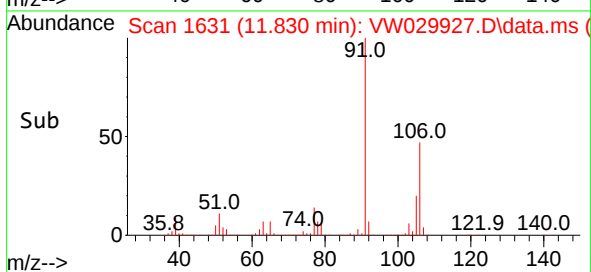
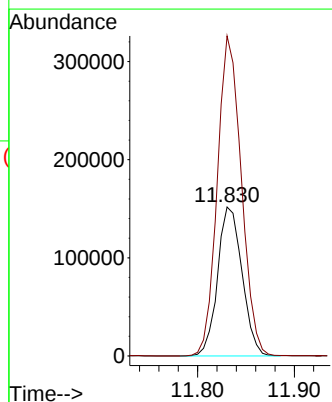
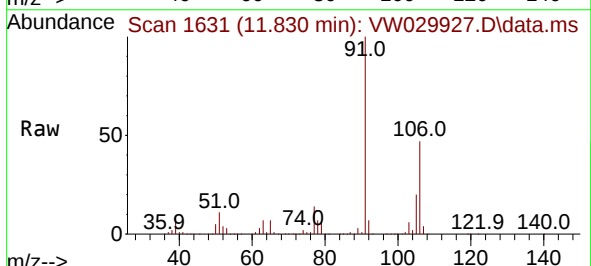
Acq: 16 Aug 2024 13:35

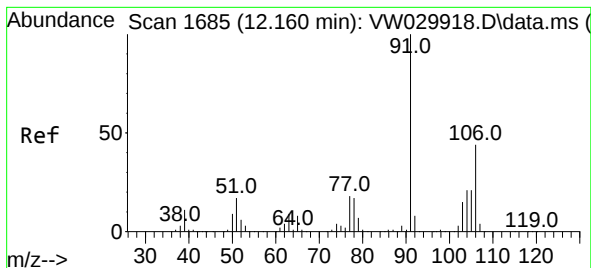
Tgt Ion:106 Resp: 266305

Ion Ratio Lower Upper

106 100

91 214.7 151.4 281.2





#54

o-Xylene

Concen: 68.497 ug/L

RT: 12.160 min Scan# 1

Delta R.T. -0.000 min

Lab File: VW029927.D

Acq: 16 Aug 2024 13:35

Instrument :

MSVOA_W

ClientSampleId :

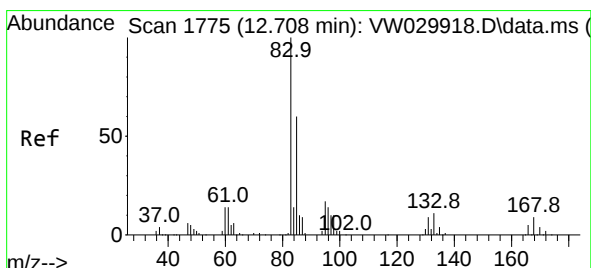
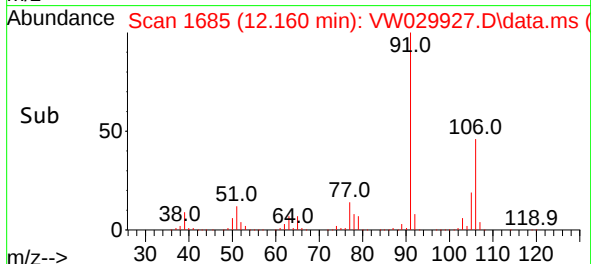
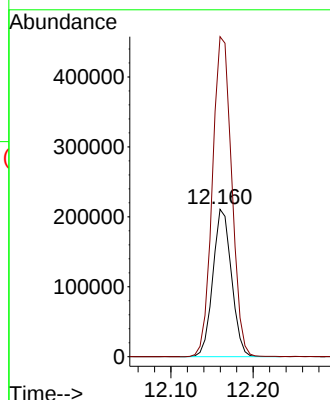
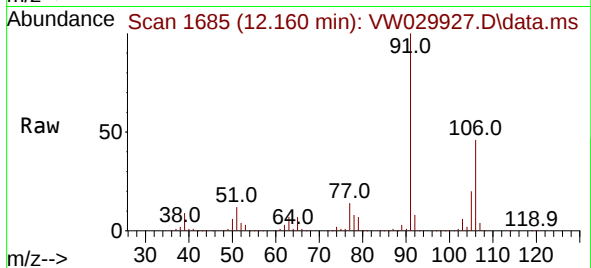
DCXX3

Tgt Ion:106 Resp: 331667

Ion Ratio Lower Upper

106 100

91 217.0 155.8 289.4



#57

1,1,2,2-Tetrachloroethane

Concen: 53.744 ug/L

RT: 12.708 min Scan# 1775

Delta R.T. -0.000 min

Lab File: VW029927.D

Acq: 16 Aug 2024 13:35

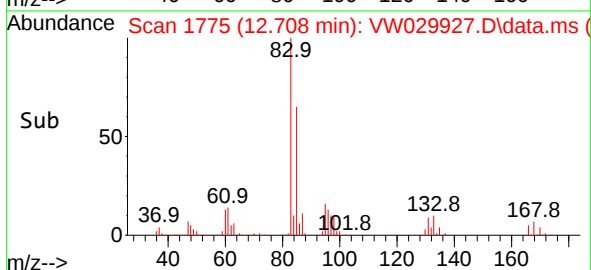
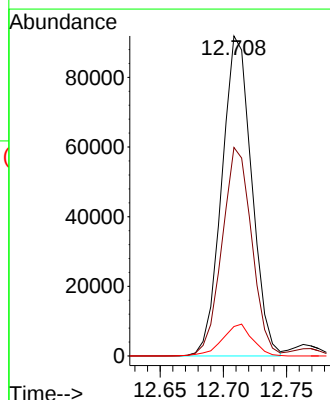
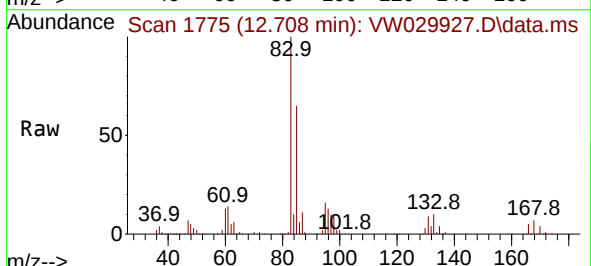
Tgt Ion: 83 Resp: 150796

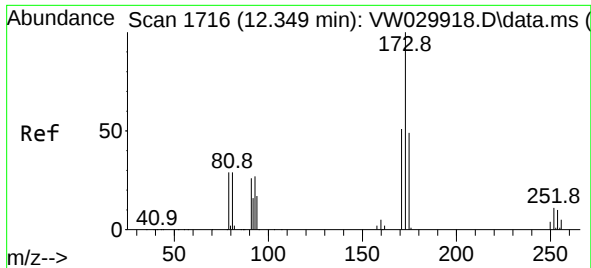
Ion Ratio Lower Upper

83 100

85 65.1 44.2 82.0

131 9.2 6.2 9.2

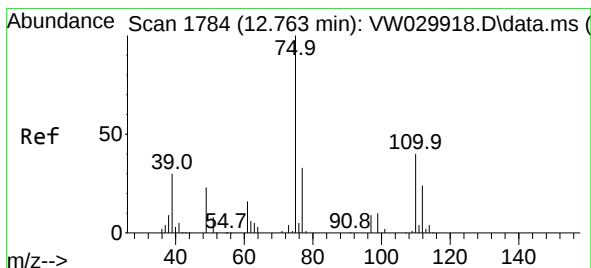
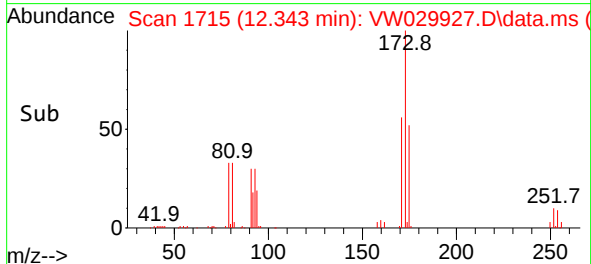
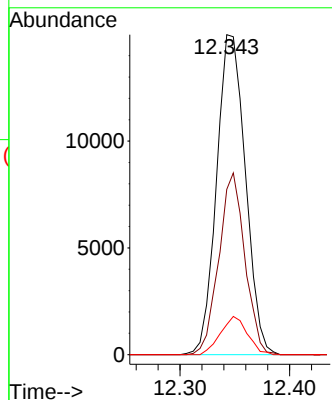
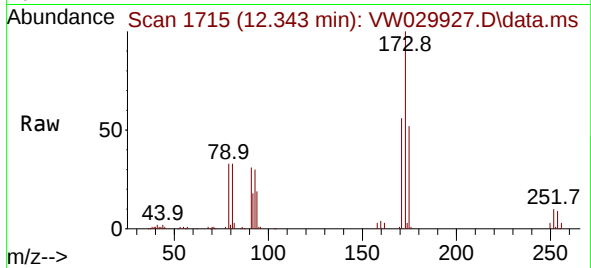




#59
Bromoform
Concen: 21.690 ug/L
RT: 12.343 min Scan# 1715
Delta R.T. -0.006 min
Lab File: VW029927.D
Acq: 16 Aug 2024 13:35

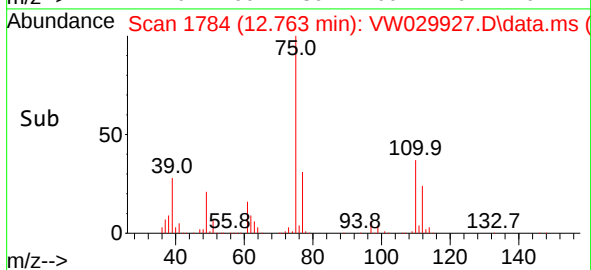
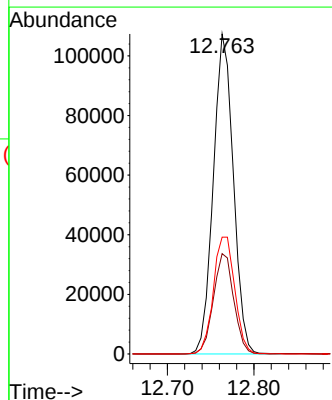
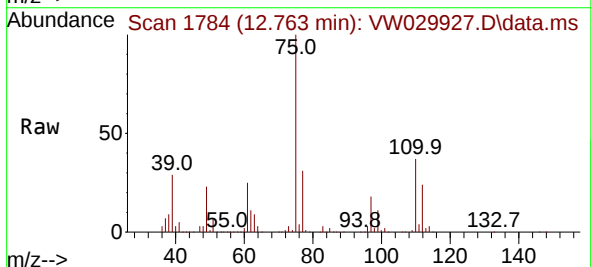
Instrument :
MSVOA_W
ClientSampleId :
DCXX3

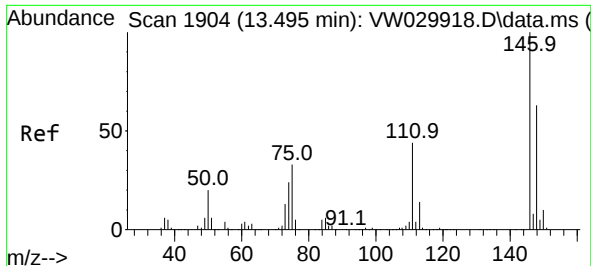
Tgt Ion:173 Resp: 27394
Ion Ratio Lower Upper
173 100
175 51.3 38.1 57.1
254 11.1 7.8 11.6



#61
1,2,3-Trichloropropane
Concen: 84.544 ug/L
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW029927.D
Acq: 16 Aug 2024 13:35

Tgt Ion: 75 Resp: 172593
Ion Ratio Lower Upper
75 100
77 31.9 25.4 38.0
110 39.0 28.6 43.0

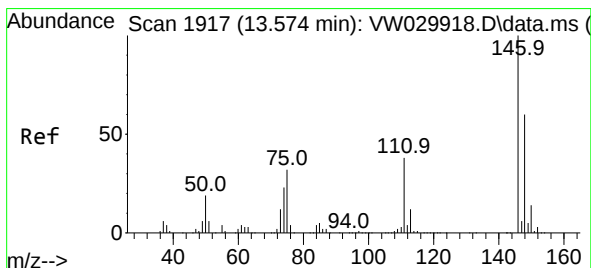
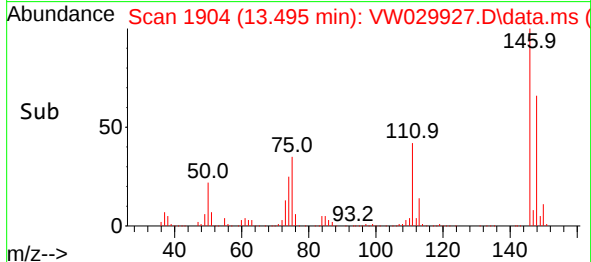
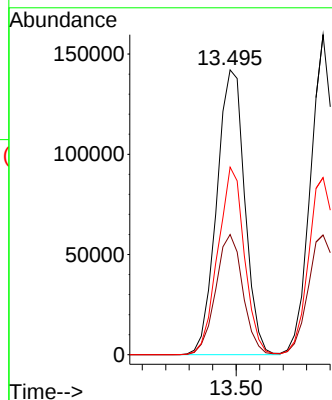
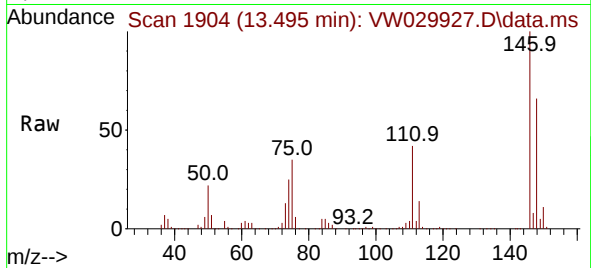




#64
1,3-Dichlorobenzene
Concen: 42.533 ug/L
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW029927.D
Acq: 16 Aug 2024 13:35

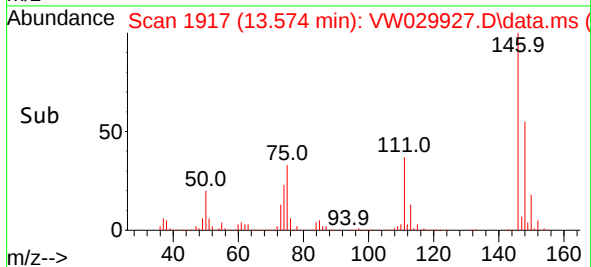
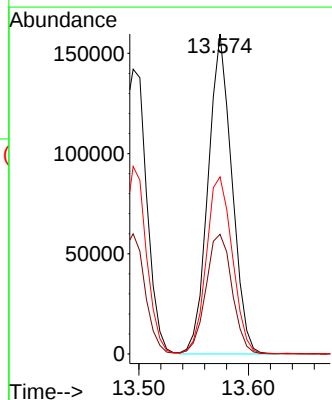
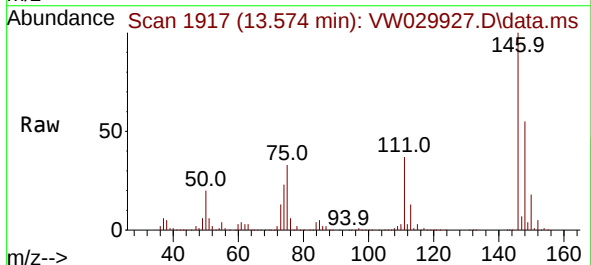
Instrument :
MSVOA_W
ClientSampleId :
DCXX3

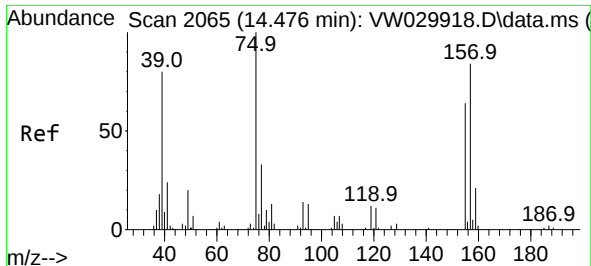
Tgt Ion:146 Resp: 235699
Ion Ratio Lower Upper
146 100
111 42.2 28.7 53.3
148 65.9 43.4 80.6



#65
1,4-Dichlorobenzene
Concen: 42.305 ug/L
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW029927.D
Acq: 16 Aug 2024 13:35

Tgt Ion:146 Resp: 240810
Ion Ratio Lower Upper
146 100
111 37.4 30.1 55.9
148 55.4 45.4 84.4





#68

1,2-Dibromo-3-chloropropane

Concen: 23.863 ug/L

RT: 14.476 min Scan# 2065

Delta R.T. -0.000 min

Lab File: VW029927.D

Acq: 16 Aug 2024 13:35

Instrument :

MSVOA_W

ClientSampleId :

DCXX3

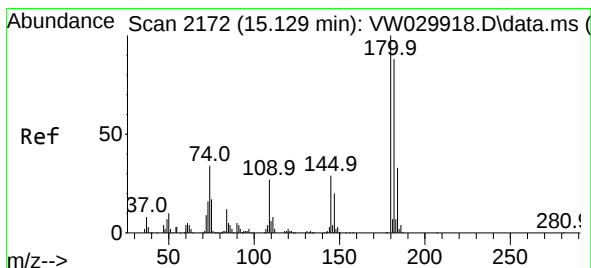
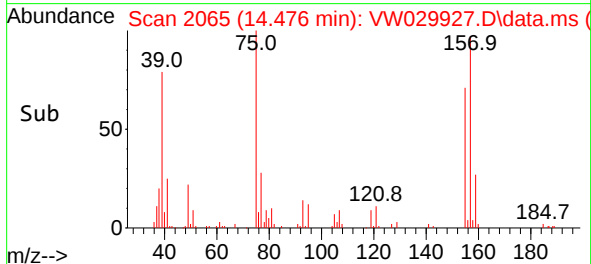
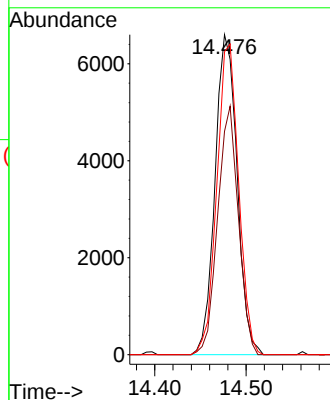
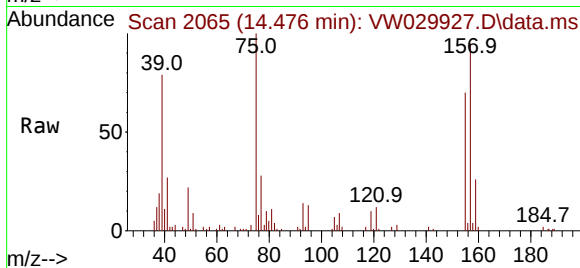
Tgt Ion: 75 Resp: 11061

Ion Ratio Lower Upper

75 100

155 69.8 47.8 71.6

157 94.7 63.7 95.5



#70

1,2,4-trichlorobenzene

Concen: 18.506 ug/L

RT: 15.129 min Scan# 2172

Delta R.T. -0.000 min

Lab File: VW029927.D

Acq: 16 Aug 2024 13:35

Tgt Ion: 180 Resp: 59111

Ion Ratio Lower Upper

180 100

182 97.7 80.2 120.4

145 34.9 26.3 39.5

