

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
 Data File : VX045540.D
 Acq On : 02 Apr 2025 12:30
 Operator : JC/MD
 Sample : Q1697-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 IW-01-55-040125

Quant Time: Apr 03 01:49:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

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

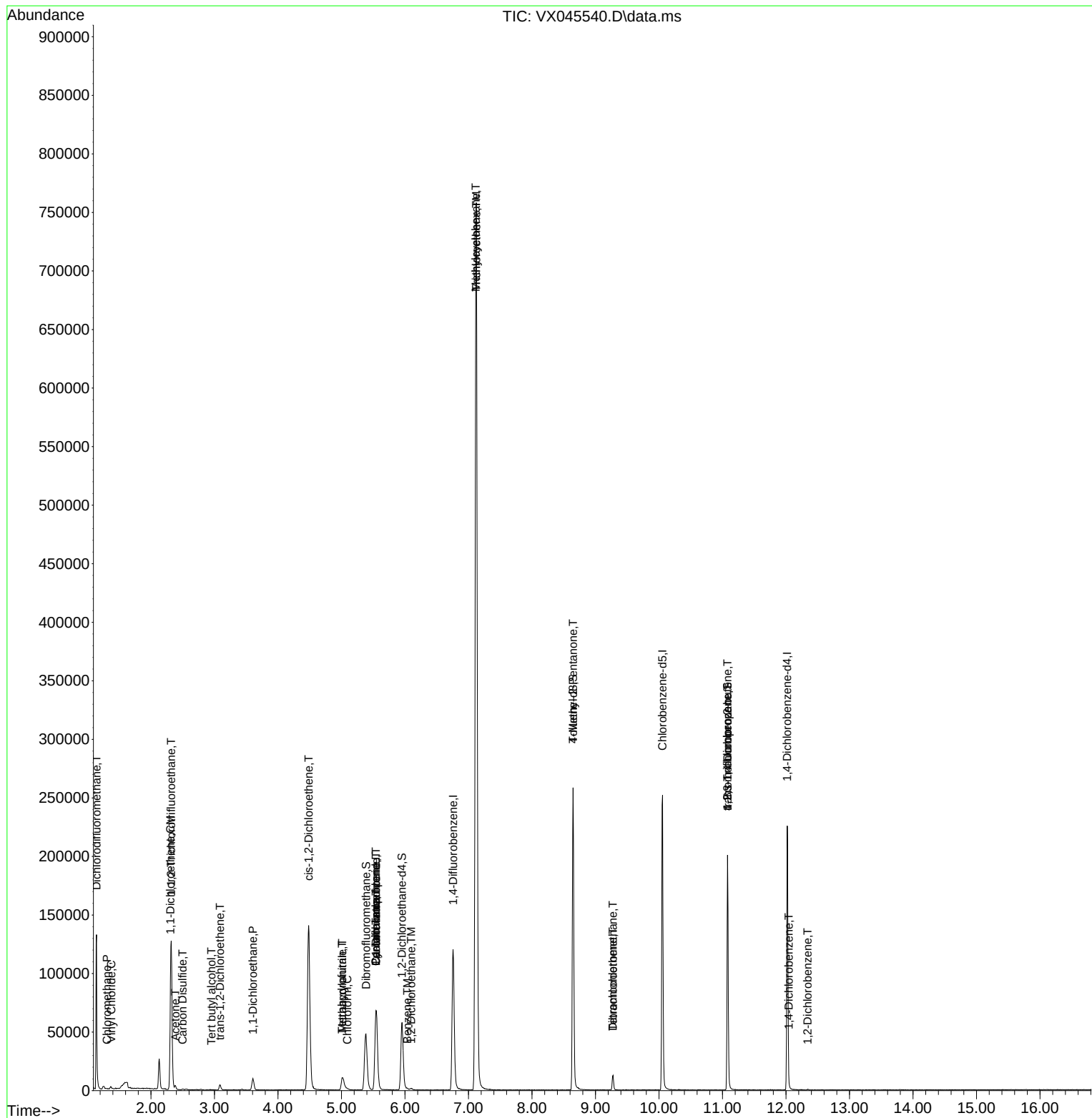
Internal Standards						
1) Pentafluorobenzene	5.544	168	60052	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	115456	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	105045	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	42637	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	56822	51.741	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 103.480%	
35) Dibromofluoromethane	5.385	113	42428	51.794	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 103.580%	
50) Toluene-d8	8.647	98	147275	51.509	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 103.020%	
62) 4-Bromofluorobenzene	11.079	95	50659	48.642	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 97.280%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.142	85	12738	14.184	ug/l	97
3) Chloromethane	1.307	50	199	0.216	ug/l #	42
4) Vinyl Chloride	1.374	62	478	0.566	ug/l	89
9) 1,1,2-Trichlorotrifluo...	2.319	101	45632	61.849	ug/l	97
11) Tert butyl alcohol	2.953	59	45	0.305	ug/l #	72
12) 1,1-Dichloroethene	2.307	96	6210	8.614	ug/l	92
16) Acetone	2.386	43	3401	7.542	ug/l #	88
17) Carbon Disulfide	2.496	76	675	0.379	ug/l #	76
21) trans-1,2-Dichloroethene	3.087	96	1914	2.599	ug/l #	72
24) 1,1-Dichloroethane	3.605	63	10925	7.169	ug/l	97
27) cis-1,2-Dichloroethene	4.483	96	84235	93.874	ug/l	90
29) Tetrahydrofuran	5.007	42	11573	27.042	ug/l	95
30) Chloroform	5.093	83	482	0.307	ug/l	98
31) Cyclohexane	5.544	56	1860	1.381	ug/l #	28
36) 1,1-Dichloropropene	5.544	75	6091	5.507	ug/l #	47
38) Carbon Tetrachloride	5.544	117	7270	6.082	ug/l #	15
39) Methylcyclohexane	7.117	83	3878	2.860	ug/l #	1
40) Benzene	6.038	78	1289	0.382	ug/l #	86
41) Methacrylonitrile	5.013	41	6890	9.369	ug/l #	51
42) 1,2-Dichloroethane	6.099	62	1320	0.946	ug/l #	78
44) Trichloroethene	7.123	130	275862	343.590	ug/l	97
51) 4-Methyl-2-Pentanone	8.647	43	765	0.546	ug/l #	1
60) Dibromochloromethane	9.275	129	2510	2.827	ug/l #	10
64) Tetrachloroethene	9.275	164	2322	3.131	ug/l	91
76) 1,2,3-Trichloropropane	11.079	75	29482	28.348	ug/l #	37
81) trans-1,4-Dichloro-2-b...	11.079	75	29482	96.208	ug/l #	1
88) 1,4-Dichlorobenzene	12.043	146	720	0.494	ug/l #	25
91) 1,2-Dichlorobenzene	12.341	146	340	0.238	ug/l	69

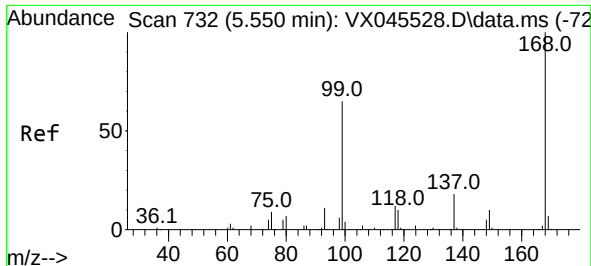
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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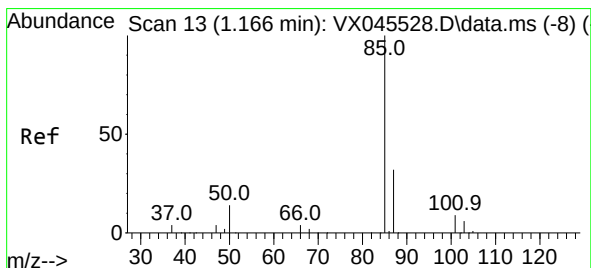
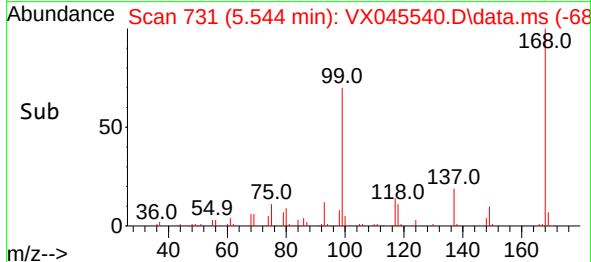
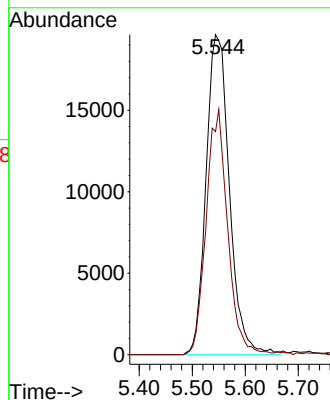
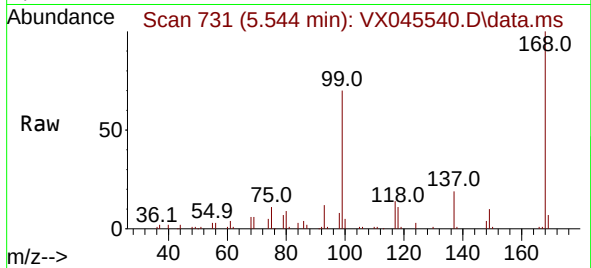




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX045540.D
Acq: 02 Apr 2025 12:30

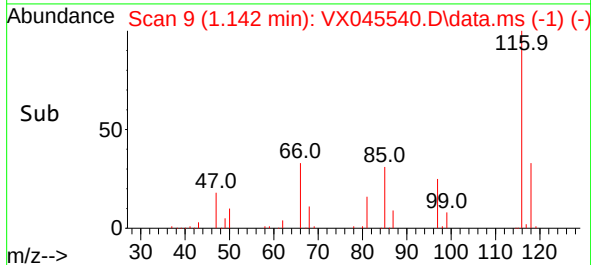
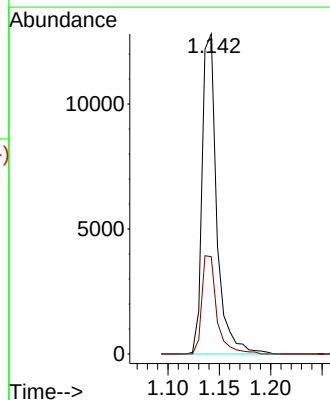
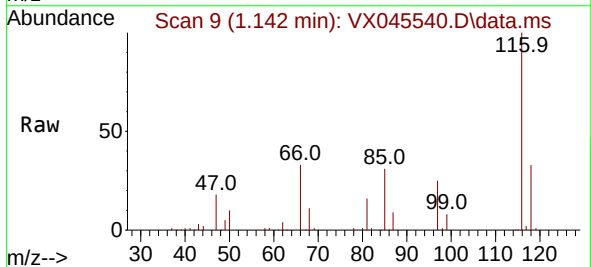
Instrument :
MSVOA_X
ClientSampleId :
IW-01-55-040125

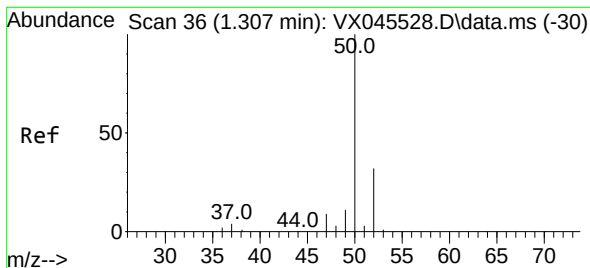
Tgt Ion:168 Resp: 60052
Ion Ratio Lower Upper
168 100
99 69.7 52.3 78.5



#2
Dichlorodifluoromethane
Concen: 14.184 ug/l
RT: 1.142 min Scan# 9
Delta R.T. -0.024 min
Lab File: VX045540.D
Acq: 02 Apr 2025 12:30

Tgt Ion: 85 Resp: 12738
Ion Ratio Lower Upper
85 100
87 30.4 16.1 48.2





#3

Chloromethane

Concen: 0.216 ug/l

RT: 1.307 min Scan# 30

Delta R.T. 0.000 min

Lab File: VX045540.D

Acq: 02 Apr 2025 12:30

Instrument :

MSVOA_X

ClientSampleId :

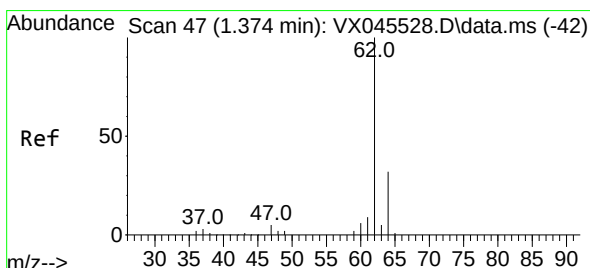
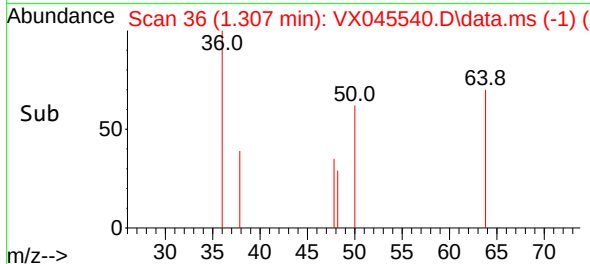
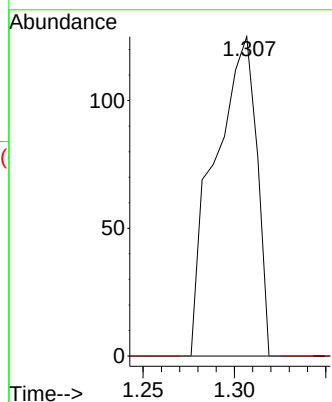
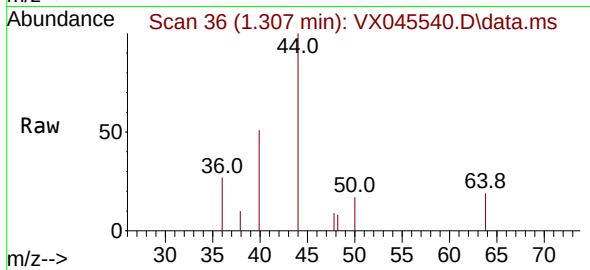
IW-01-55-040125

Tgt Ion: 50 Resp: 199

Ion Ratio Lower Upper

50 100

52 0.0 25.9 38.9#



#4

Vinyl Chloride

Concen: 0.566 ug/l

RT: 1.374 min Scan# 47

Delta R.T. 0.000 min

Lab File: VX045540.D

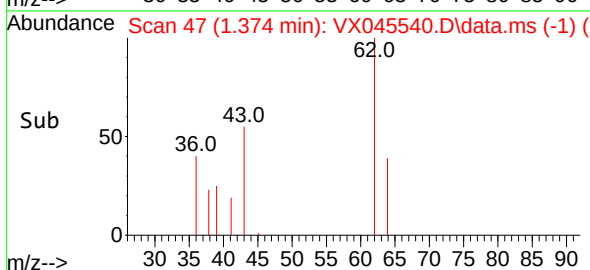
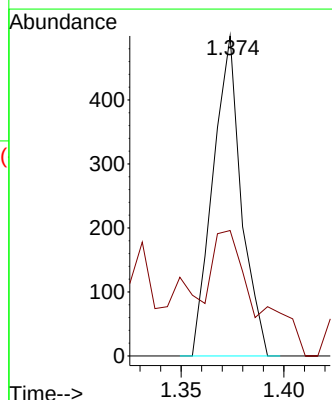
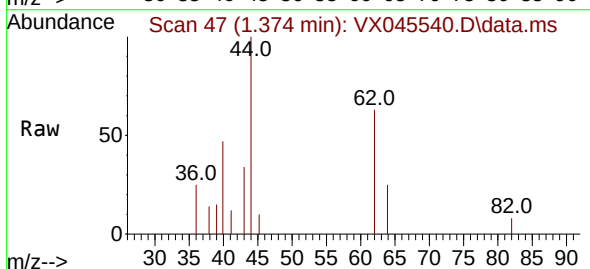
Acq: 02 Apr 2025 12:30

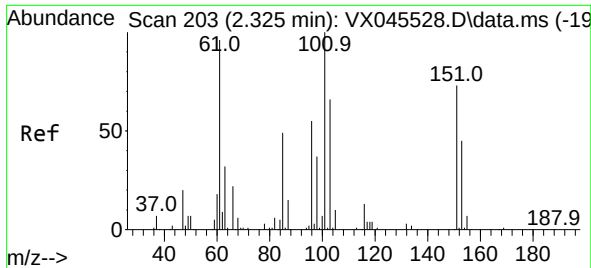
Tgt Ion: 62 Resp: 478

Ion Ratio Lower Upper

62 100

64 25.8 25.5 38.3

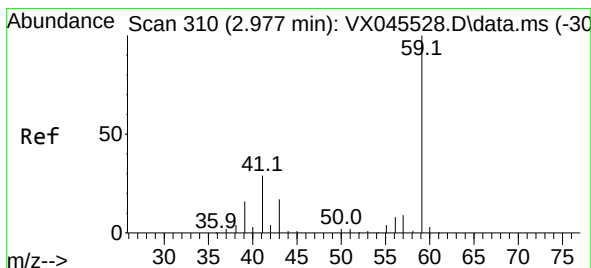
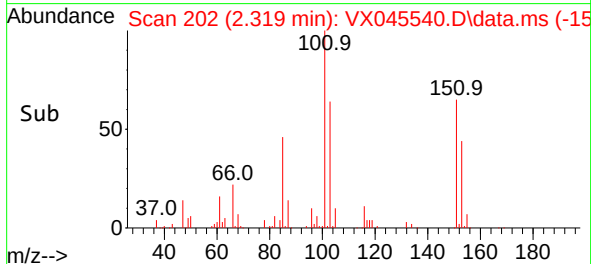
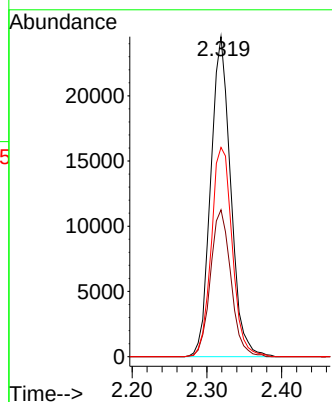
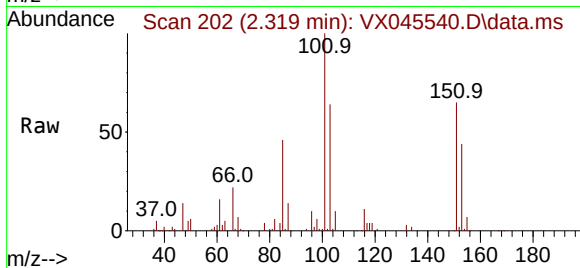




#9
1,1,2-Trichlorotrifluoroethane
Concen: 61.849 ug/l
RT: 2.319 min Scan# 20
Delta R.T. -0.006 min
Lab File: VX045540.D
Acq: 02 Apr 2025 12:30

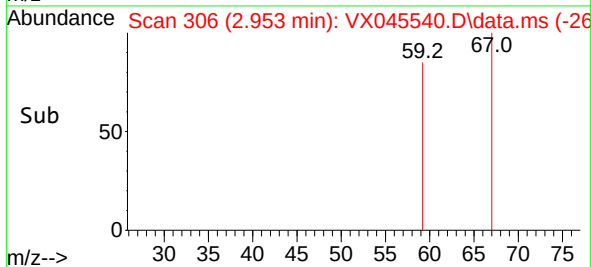
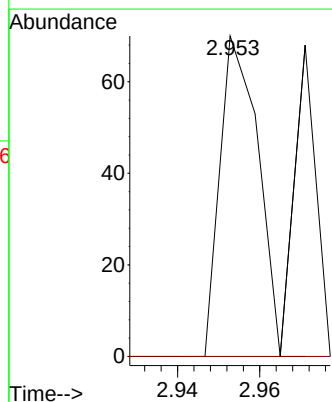
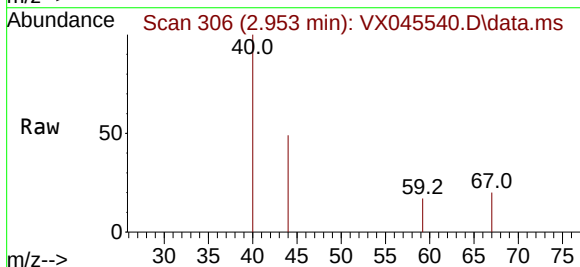
Instrument :
MSVOA_X
ClientSampleId :
IW-01-55-040125

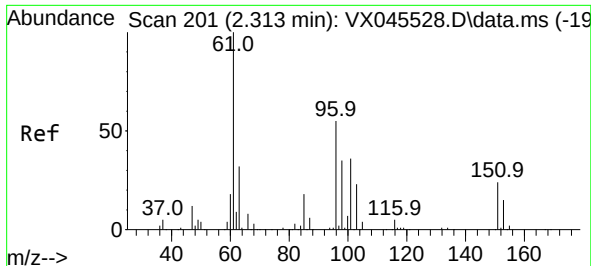
Tgt Ion:101 Resp: 45632
Ion Ratio Lower Upper
101 100
85 46.9 38.9 58.3
151 68.5 57.5 86.3



#11
Tert butyl alcohol
Concen: 0.305 ug/l
RT: 2.953 min Scan# 306
Delta R.T. -0.024 min
Lab File: VX045540.D
Acq: 02 Apr 2025 12:30

Tgt Ion: 59 Resp: 45
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#

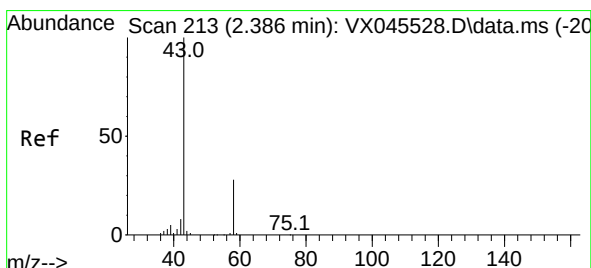
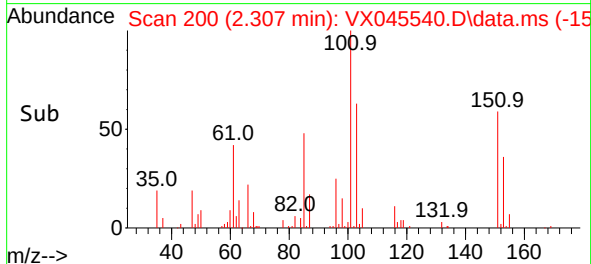
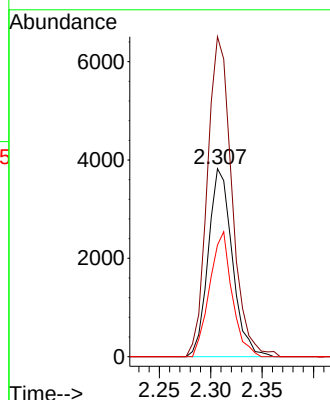
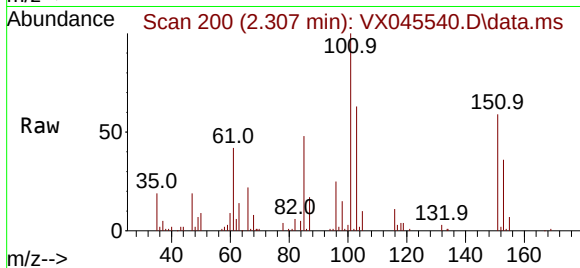




#12
1,1-Dichloroethene
Concen: 8.614 ug/l
RT: 2.307 min Scan# 201
Delta R.T. -0.006 min
Lab File: VX045540.D
Acq: 02 Apr 2025 12:30

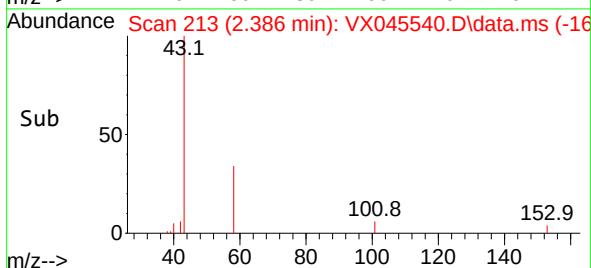
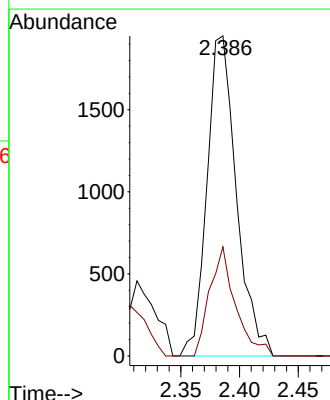
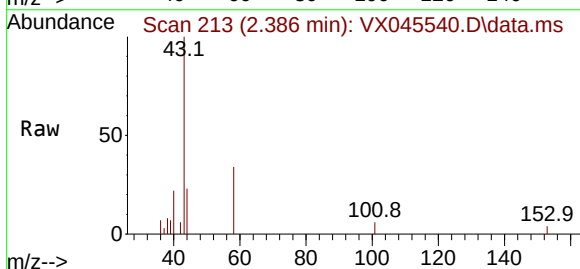
Instrument :
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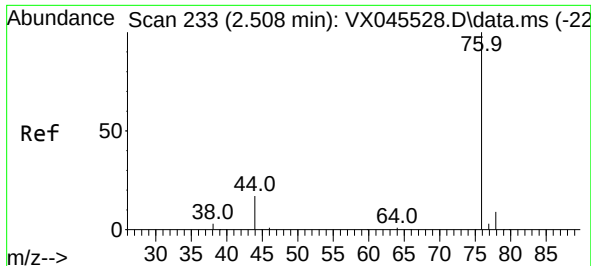
Tgt Ion: 96 Resp: 6210
Ion Ratio Lower Upper
96 100
61 170.2 145.7 218.5
98 59.4 51.6 77.4



#16
Acetone
Concen: 7.542 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX045540.D
Acq: 02 Apr 2025 12:30

Tgt Ion: 43 Resp: 3401
Ion Ratio Lower Upper
43 100
58 34.1 22.3 33.5

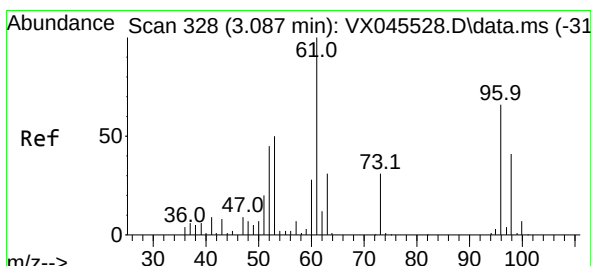
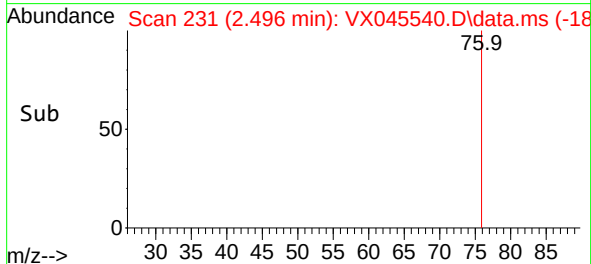
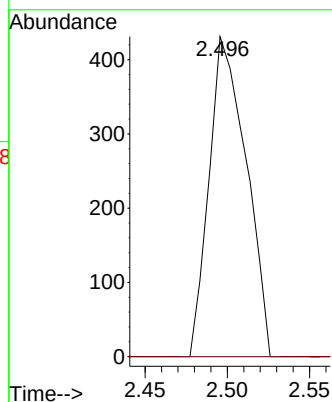
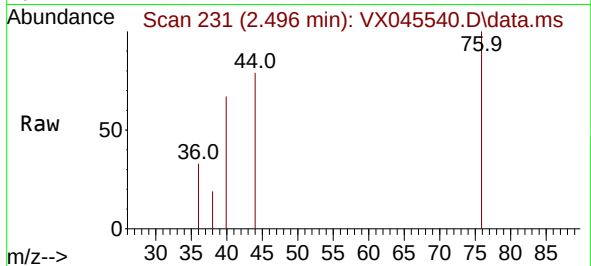




#17
Carbon Disulfide
Concen: 0.379 ug/l
RT: 2.496 min Scan# 21
Delta R.T. -0.012 min
Lab File: VX045540.D
Acq: 02 Apr 2025 12:30

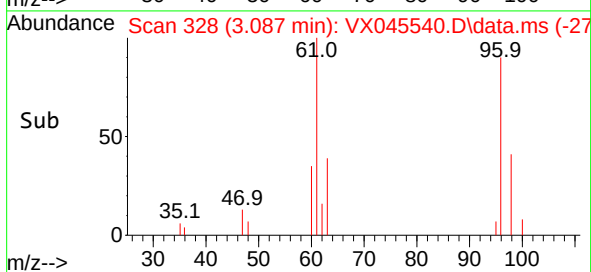
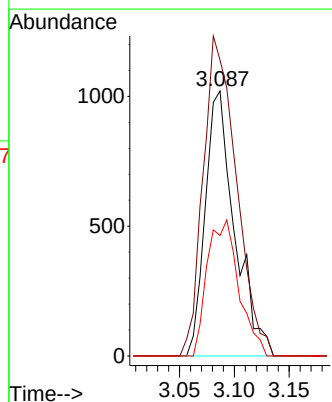
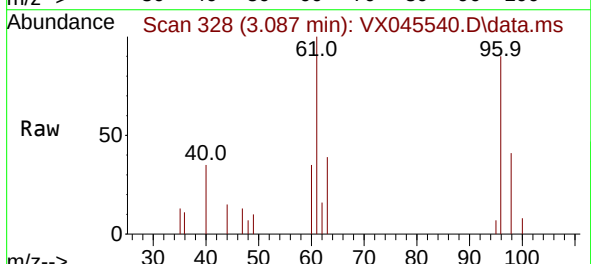
Instrument :
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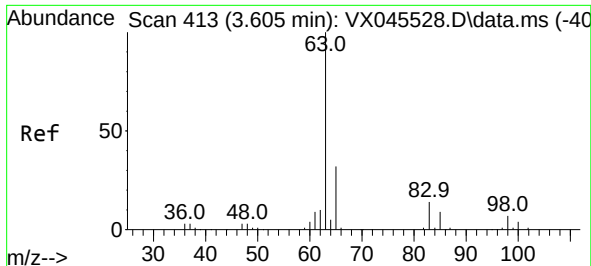
Tgt Ion: 76 Resp: 675
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.6#



#21
trans-1,2-Dichloroethene
Concen: 2.599 ug/l
RT: 3.087 min Scan# 328
Delta R.T. 0.000 min
Lab File: VX045540.D
Acq: 02 Apr 2025 12:30

Tgt Ion: 96 Resp: 1914
Ion Ratio Lower Upper
96 100
61 111.7 121.0 181.6#
98 45.4 49.7 74.5#

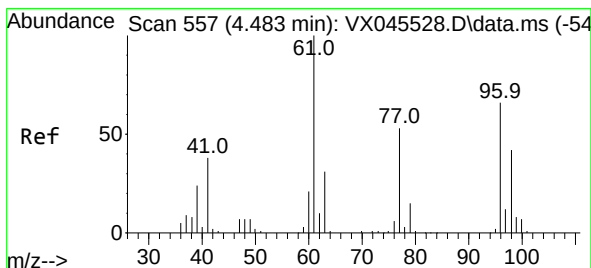
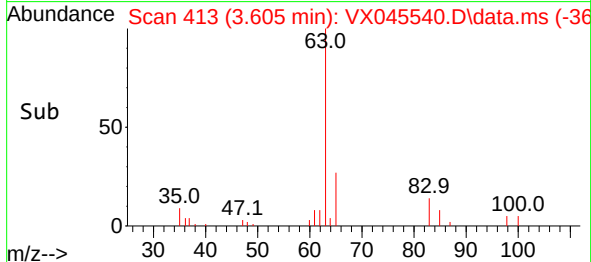
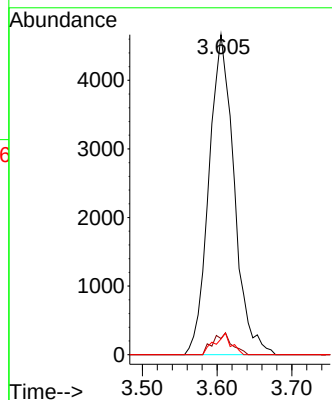
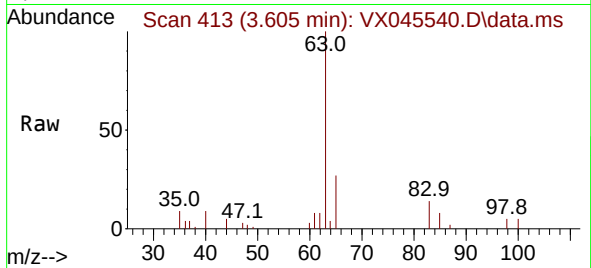




#24
 1,1-Dichloroethane
 Concen: 7.169 ug/l
 RT: 3.605 min Scan# 413
 Delta R.T. 0.000 min
 Lab File: VX045540.D
 Acq: 02 Apr 2025 12:30

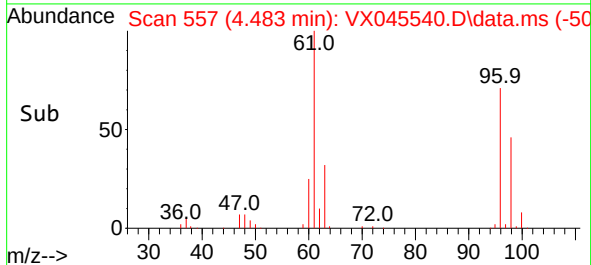
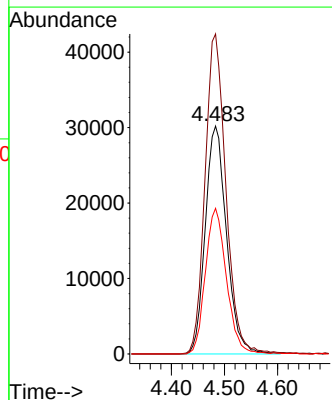
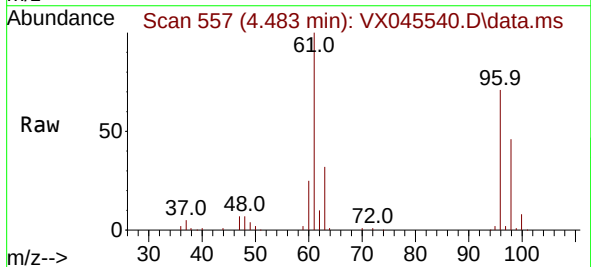
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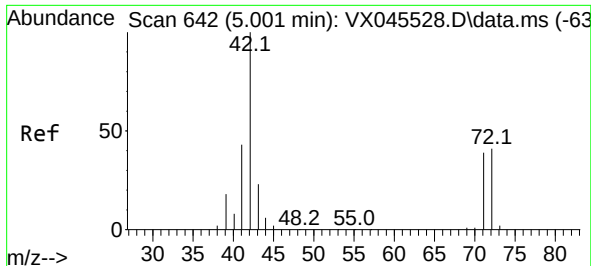
Tgt Ion: 63	Resp: 10925
Ion Ratio	Lower Upper
63 100	
98 5.1	3.4 10.1
100 4.9	2.2 6.6



#27
 cis-1,2-Dichloroethene
 Concen: 93.874 ug/l
 RT: 4.483 min Scan# 557
 Delta R.T. 0.000 min
 Lab File: VX045540.D
 Acq: 02 Apr 2025 12:30

Tgt Ion: 96	Resp: 84235
Ion Ratio	Lower Upper
96 100	
61 137.8	0.0 313.2
98 63.1	0.0 126.4





#29

Tetrahydrofuran

Concen: 27.042 ug/l

RT: 5.007 min Scan# 642

Delta R.T. 0.006 min

Lab File: VX045540.D

Acq: 02 Apr 2025 12:30

Instrument :

MSVOA_X

ClientSampleId :

IW-01-55-040125

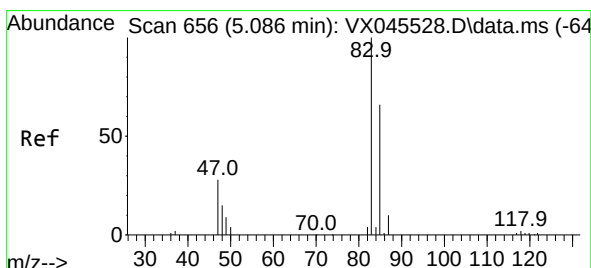
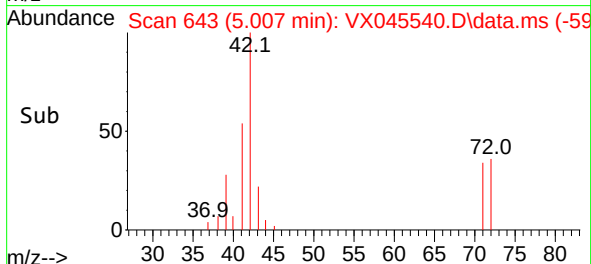
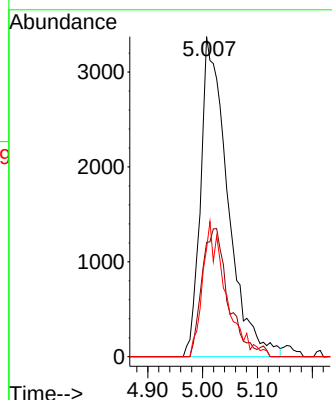
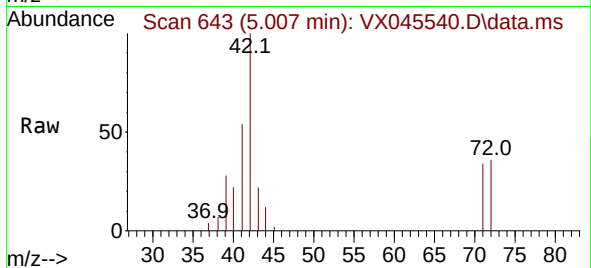
Tgt Ion: 42 Resp: 11573

Ion Ratio Lower Upper

42 100

72 38.4 33.4 50.0

71 36.3 31.4 47.0



#30

Chloroform

Concen: 0.307 ug/l

RT: 5.093 min Scan# 657

Delta R.T. 0.006 min

Lab File: VX045540.D

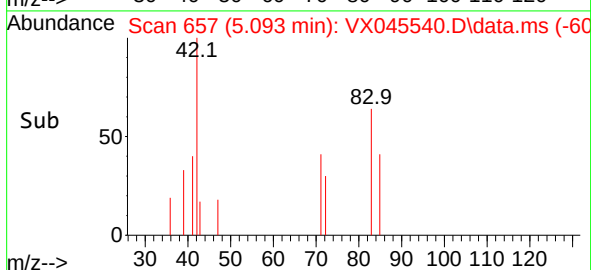
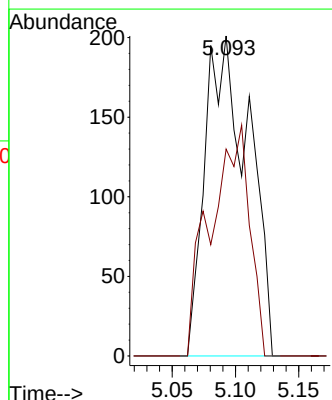
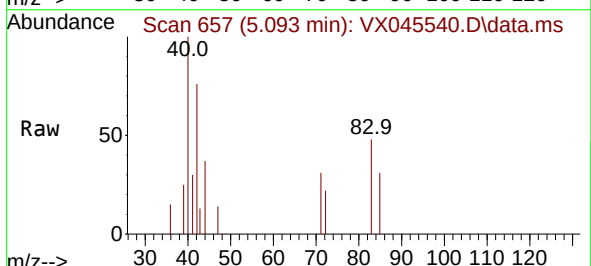
Acq: 02 Apr 2025 12:30

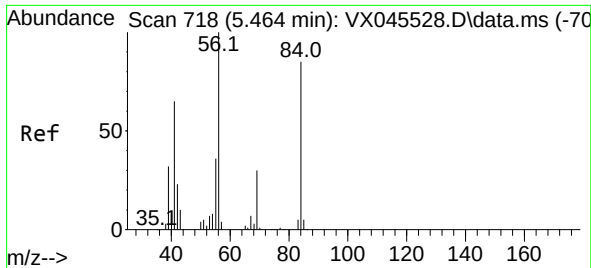
Tgt Ion: 83 Resp: 482

Ion Ratio Lower Upper

83 100

85 64.7 52.8 79.2

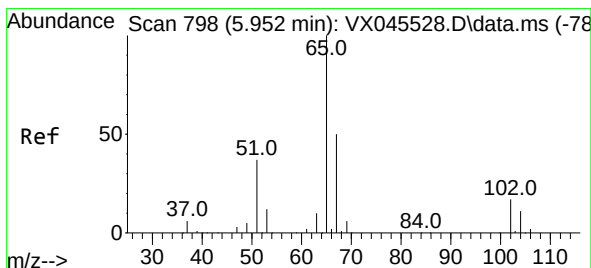
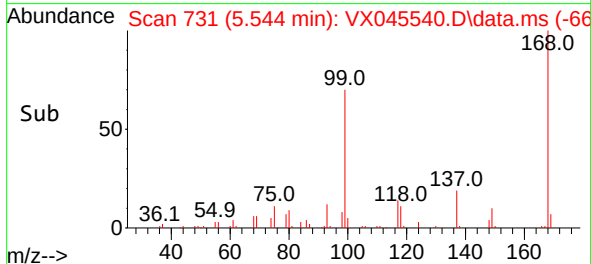
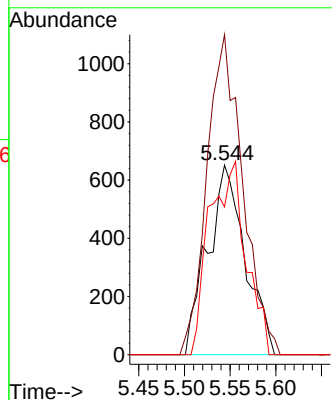
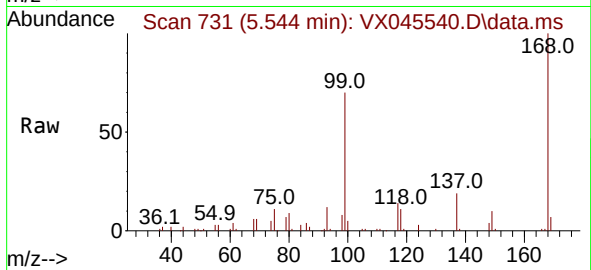




#31
Cyclohexane
Concen: 1.381 ug/l
RT: 5.544 min Scan# 718
Delta R.T. 0.079 min
Lab File: VX045540.D
Acq: 02 Apr 2025 12:30

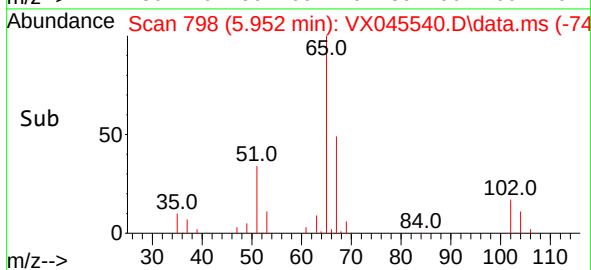
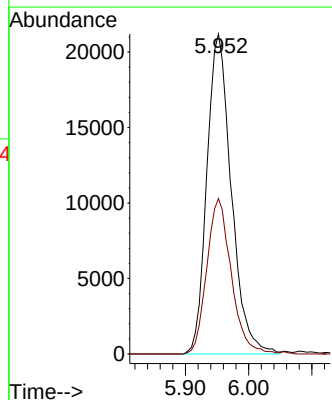
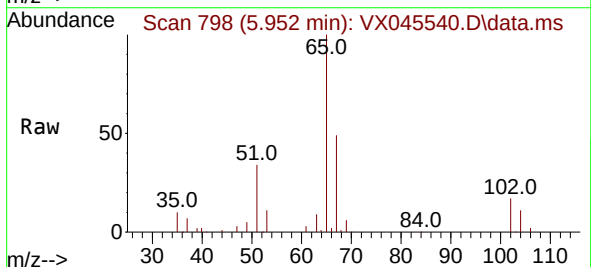
Instrument :
MSVOA_X
ClientSampleId :
IW-01-55-040125

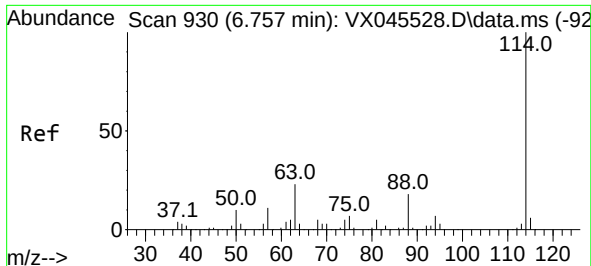
Tgt Ion: 56 Resp: 1860
Ion Ratio Lower Upper
56 100
69 168.7 23.6 35.4#
84 77.9 67.7 101.5



#33
1,2-Dichloroethane-d4
Concen: 51.741 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.000 min
Lab File: VX045540.D
Acq: 02 Apr 2025 12:30

Tgt Ion: 65 Resp: 56822
Ion Ratio Lower Upper
65 100
67 48.5 0.0 99.0

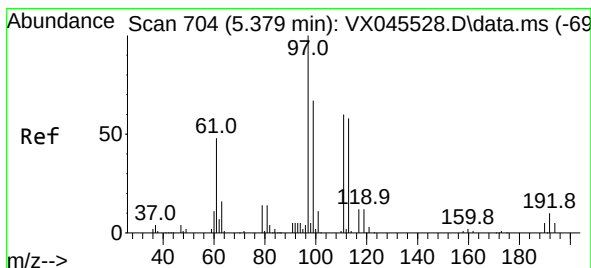
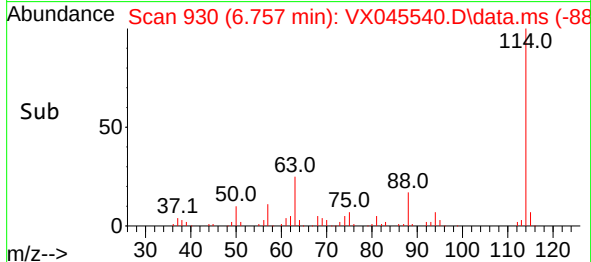
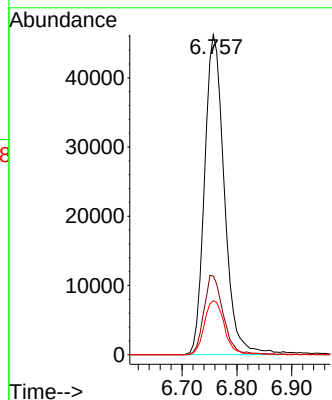
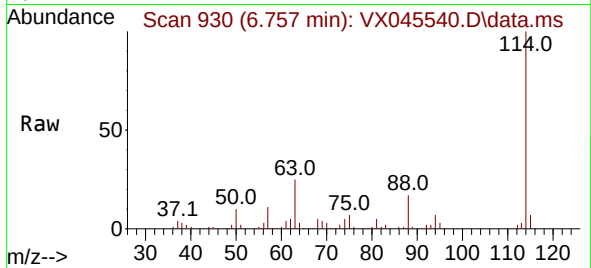




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.757 min Scan# 91
 Delta R.T. 0.000 min
 Lab File: VX045540.D
 Acq: 02 Apr 2025 12:30

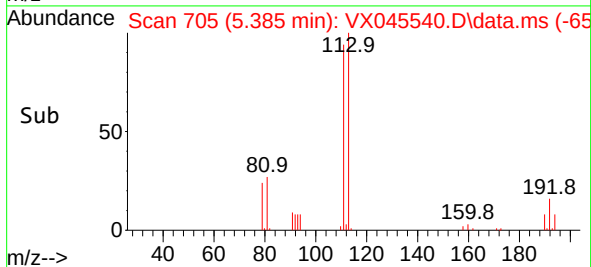
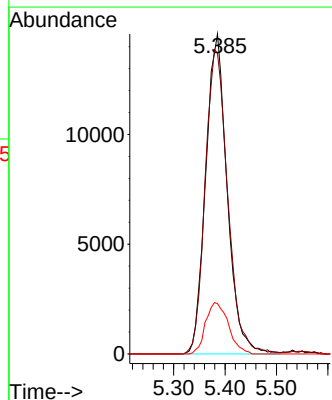
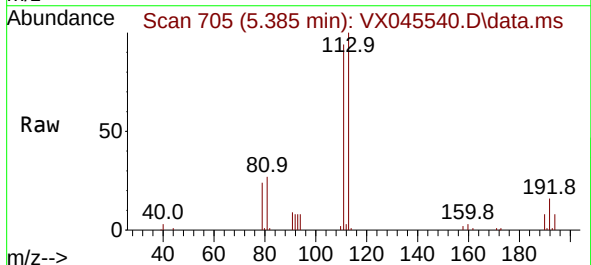
Instrument :
 MSVOA_X
 ClientSampleId :
 IW-01-55-040125

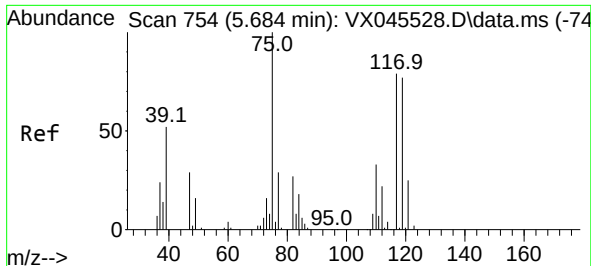
Tgt Ion:114 Resp: 115456
 Ion Ratio Lower Upper
 114 100
 63 24.6 0.0 46.8
 88 16.8 0.0 35.4



#35
 Dibromofluoromethane
 Concen: 51.794 ug/l
 RT: 5.385 min Scan# 705
 Delta R.T. 0.006 min
 Lab File: VX045540.D
 Acq: 02 Apr 2025 12:30

Tgt Ion:113 Resp: 42428
 Ion Ratio Lower Upper
 113 100
 111 99.7 81.8 122.6
 192 17.0 13.8 20.6

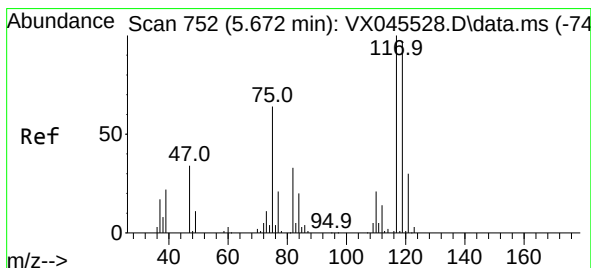
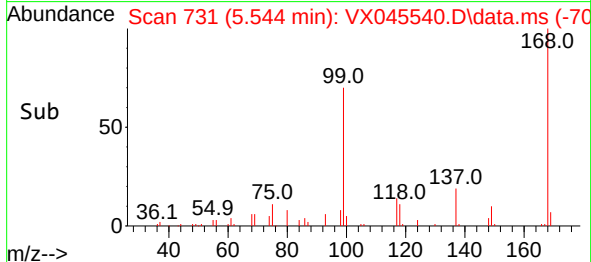
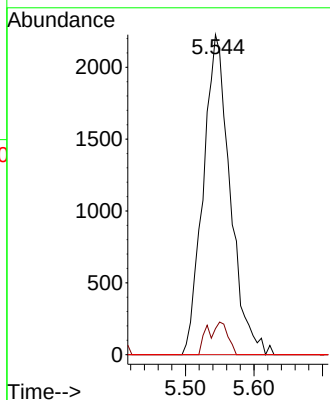
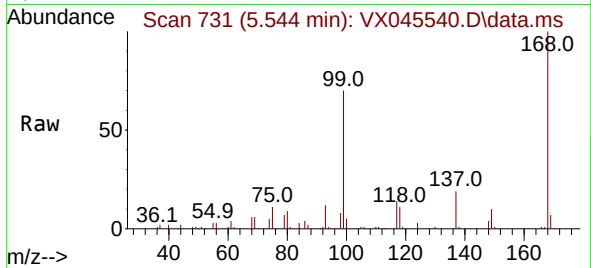




#36
1,1-Dichloropropene
Concen: 5.507 ug/l
RT: 5.544 min Scan# 711
Delta R.T. -0.140 min
Lab File: VX045540.D
Acq: 02 Apr 2025 12:30

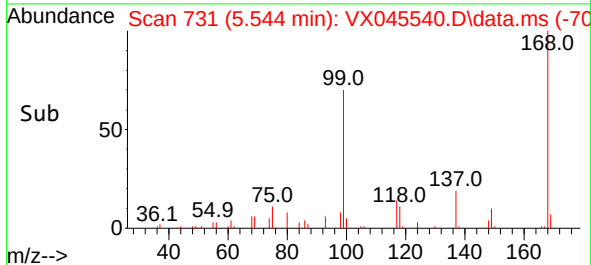
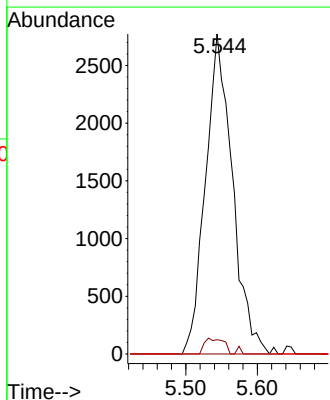
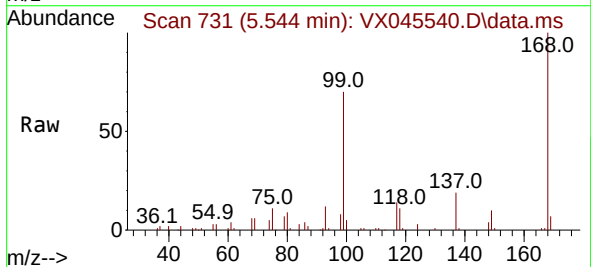
Instrument :
MSVOA_X
ClientSampleId :
IW-01-55-040125

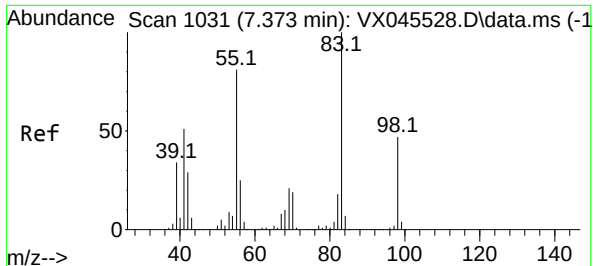
Tgt Ion: 75 Resp: 6091
Ion Ratio Lower Upper
75 100
110 4.9 16.9 50.6#
77 0.0 25.0 37.4#



#38
Carbon Tetrachloride
Concen: 6.082 ug/l
RT: 5.544 min Scan# 731
Delta R.T. -0.128 min
Lab File: VX045540.D
Acq: 02 Apr 2025 12:30

Tgt Ion: 117 Resp: 7270
Ion Ratio Lower Upper
117 100
119 4.5 76.9 115.3#
121 0.0 24.2 36.2#





#39

Methylcyclohexane

Concen: 2.860 ug/l

RT: 7.117 min Scan# 91

Delta R.T. -0.256 min

Lab File: VX045540.D

Acq: 02 Apr 2025 12:30

Instrument :

MSVOA_X

ClientSampleId :

IW-01-55-040125

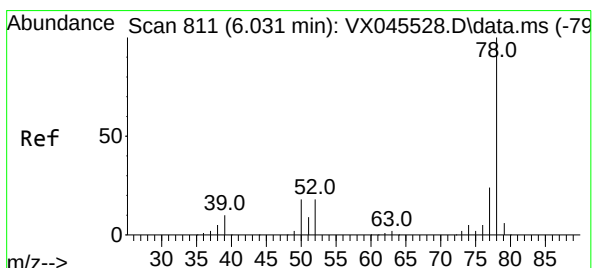
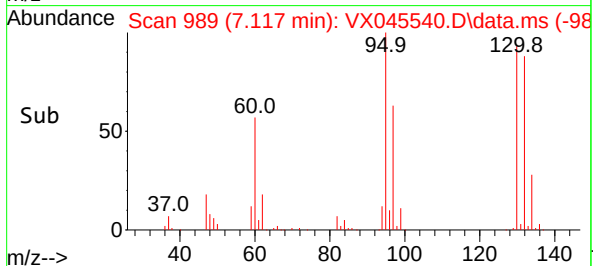
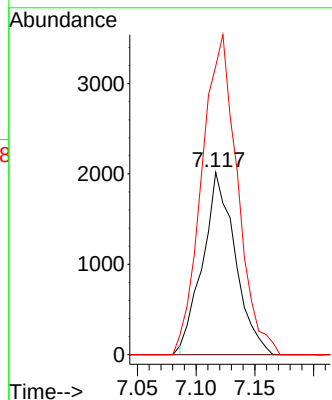
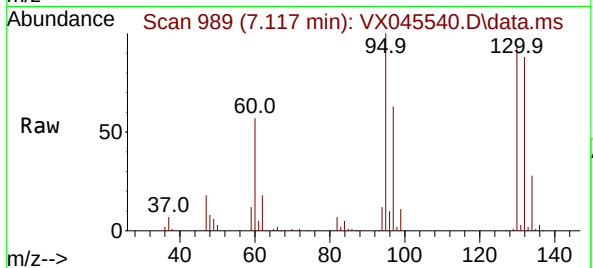
Tgt Ion: 83 Resp: 3878

Ion Ratio Lower Upper

83 100

55 0.0 64.9 97.3#

98 158.1 37.4 56.0#



#40

Benzene

Concen: 0.382 ug/l

RT: 6.038 min Scan# 812

Delta R.T. 0.006 min

Lab File: VX045540.D

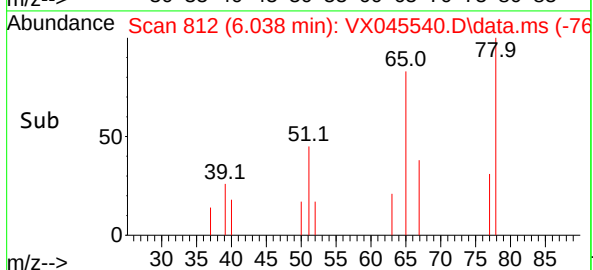
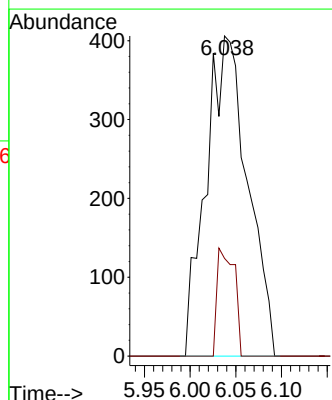
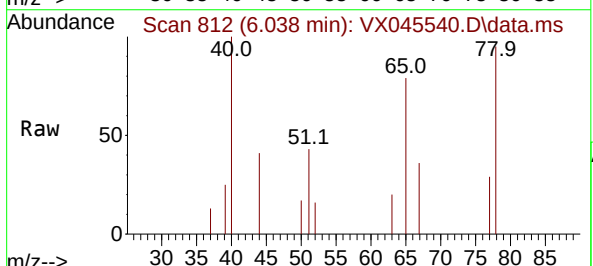
Acq: 02 Apr 2025 12:30

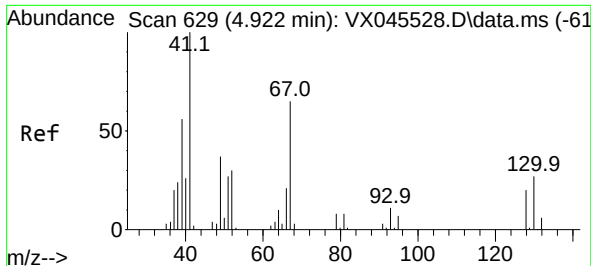
Tgt Ion: 78 Resp: 1289

Ion Ratio Lower Upper

78 100

77 30.5 19.0 28.6#

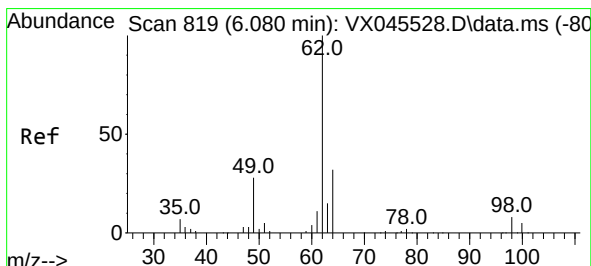
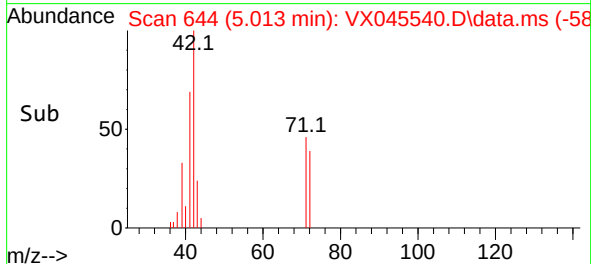
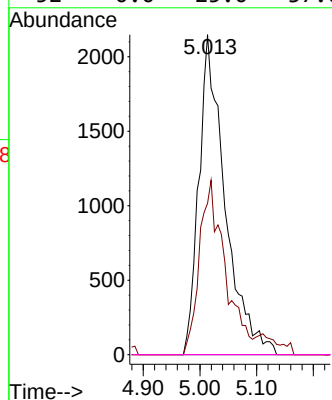
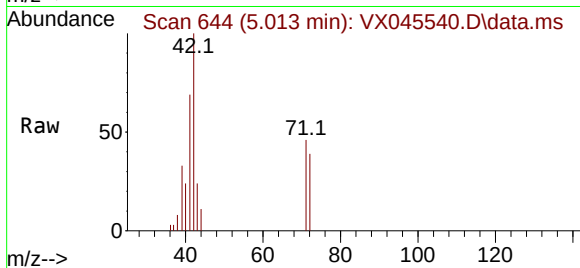




#41
Methacrylonitrile
Concen: 9.369 ug/l
RT: 5.013 min Scan# 644
Delta R.T. 0.092 min
Lab File: VX045540.D
Acq: 02 Apr 2025 12:30

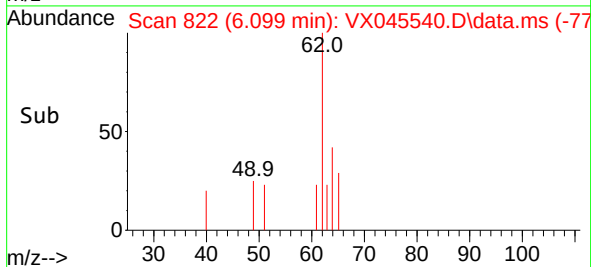
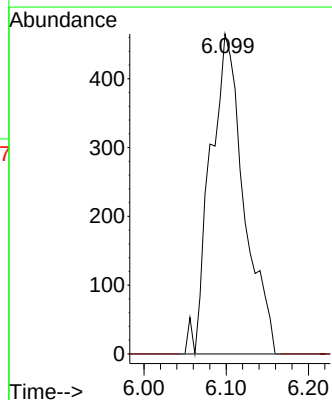
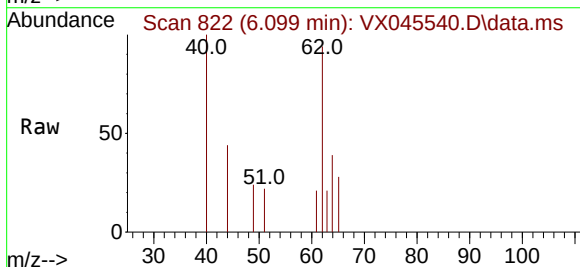
Instrument :
MSVOA_X
ClientSampleId :
IW-01-55-040125

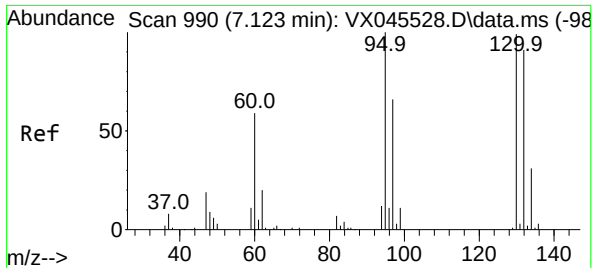
Tgt Ion:	41	Resp:	6890
Ion	Ratio	Lower	Upper
41	100		
39	53.5	47.0	70.6
67	0.0	53.2	79.8#
52	0.0	25.0	37.6#



#42
1,2-Dichloroethane
Concen: 0.946 ug/l
RT: 6.099 min Scan# 822
Delta R.T. 0.018 min
Lab File: VX045540.D
Acq: 02 Apr 2025 12:30

Tgt Ion:	62	Resp:	1320
Ion	Ratio	Lower	Upper
62	100		
98	0.0	0.0	15.2

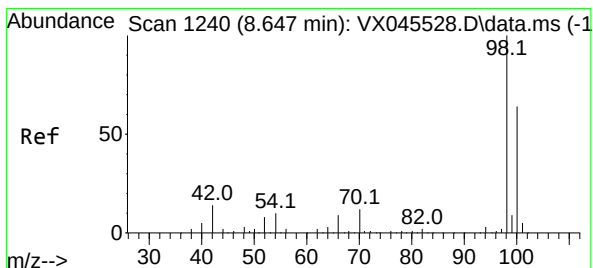
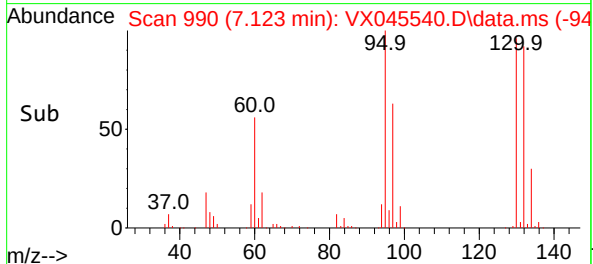
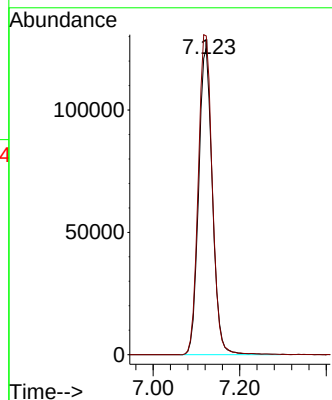
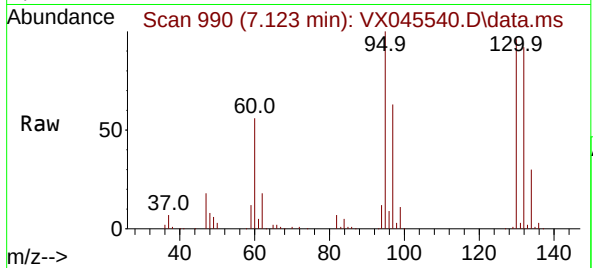




#44
Trichloroethene
Concen: 343.590 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX045540.D
Acq: 02 Apr 2025 12:30

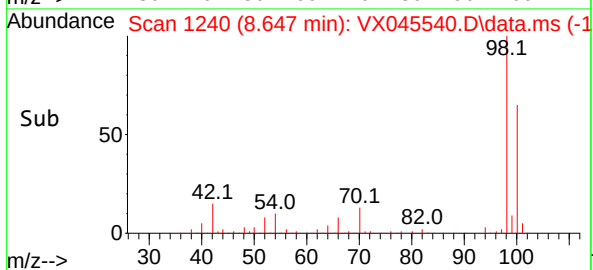
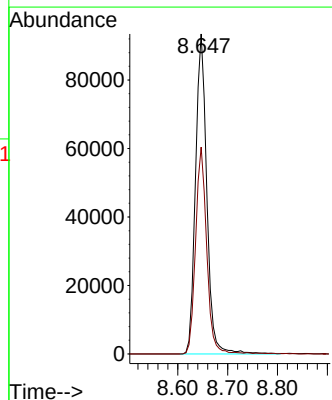
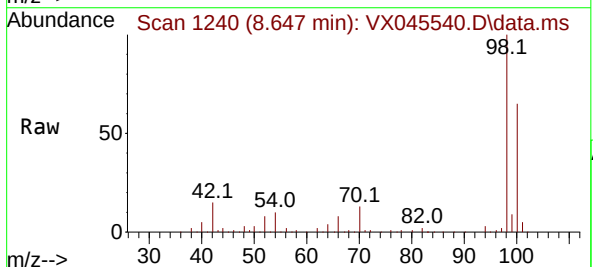
Instrument :
MSVOA_X
ClientSampleId :
IW-01-55-040125

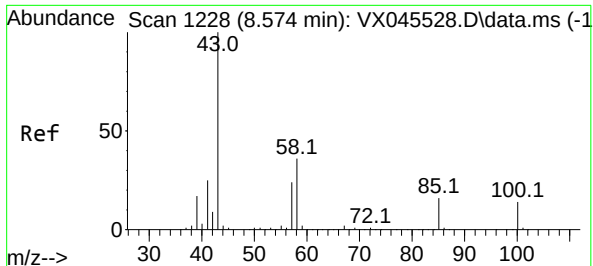
Tgt Ion:130 Resp: 275862
Ion Ratio Lower Upper
130 100
95 104.0 0.0 202.0



#50
Toluene-d8
Concen: 51.509 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX045540.D
Acq: 02 Apr 2025 12:30

Tgt Ion: 98 Resp: 147275
Ion Ratio Lower Upper
98 100
100 63.4 52.2 78.4

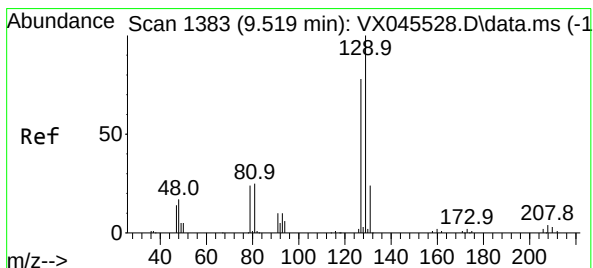
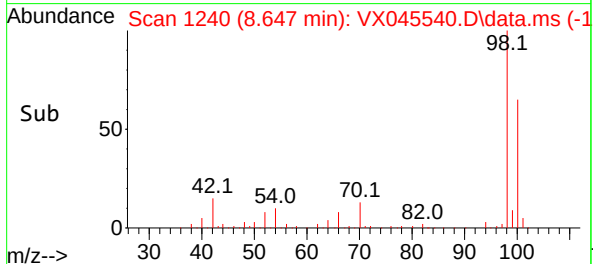
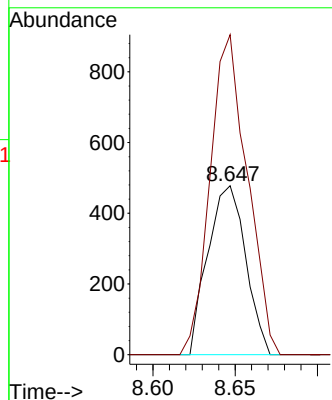
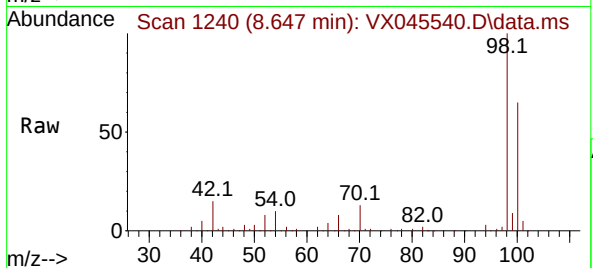




#51
4-Methyl-2-Pentanone
Concen: 0.546 ug/l
RT: 8.647 min Scan# 11
Delta R.T. 0.073 min
Lab File: VX045540.D
Acq: 02 Apr 2025 12:30

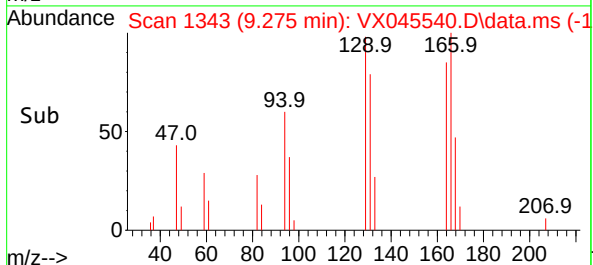
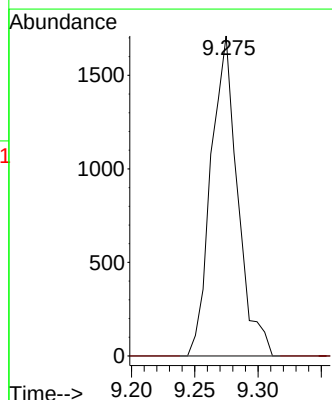
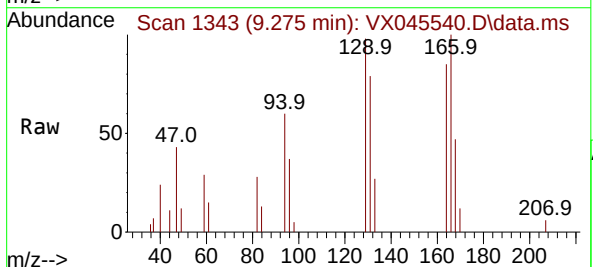
Instrument :
MSVOA_X
ClientSampleId :
IW-01-55-040125

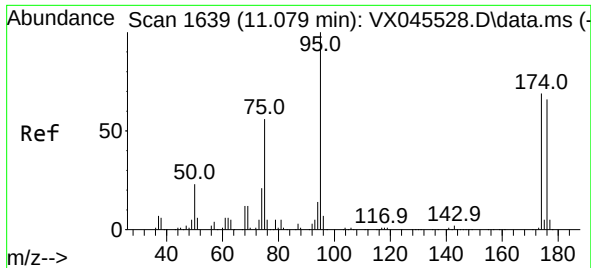
Tgt Ion: 43 Resp: 765
Ion Ratio Lower Upper
43 100
58 186.5 28.5 42.7#



#60
Dibromochloromethane
Concen: 2.827 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. -0.244 min
Lab File: VX045540.D
Acq: 02 Apr 2025 12:30

Tgt Ion: 129 Resp: 2510
Ion Ratio Lower Upper
129 100
127 0.0 39.4 118.2#

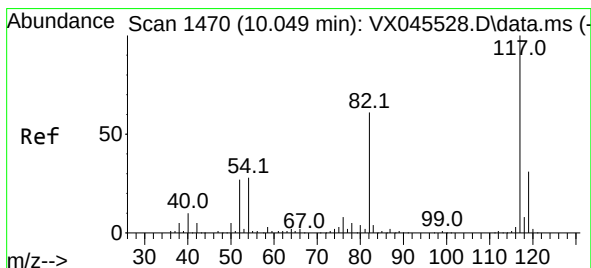
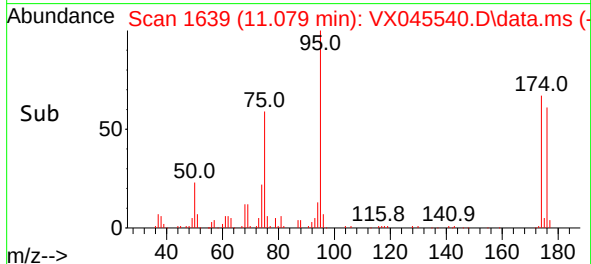
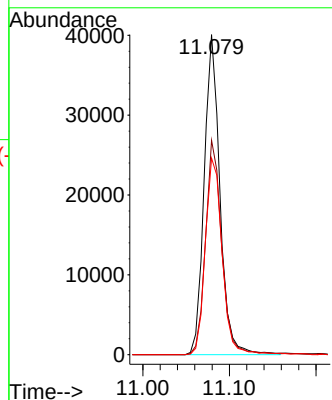
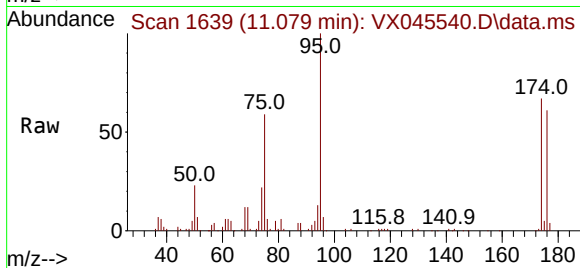




#62
4-Bromofluorobenzene
Concen: 48.642 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045540.D
Acq: 02 Apr 2025 12:30

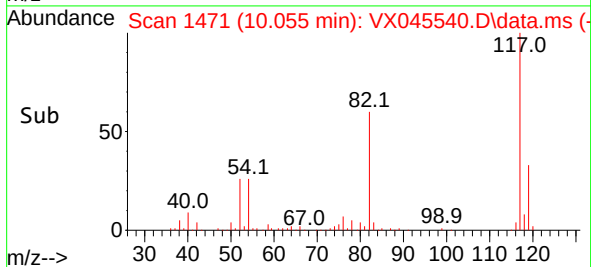
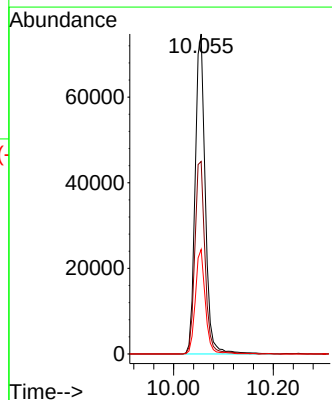
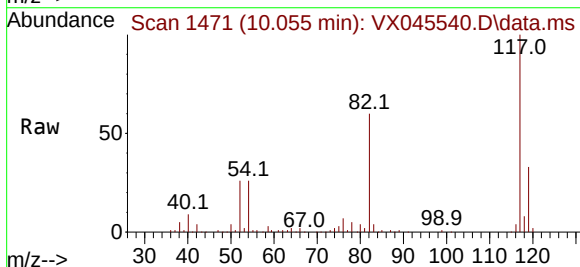
Instrument :
MSVOA_X
ClientSampleId :
IW-01-55-040125

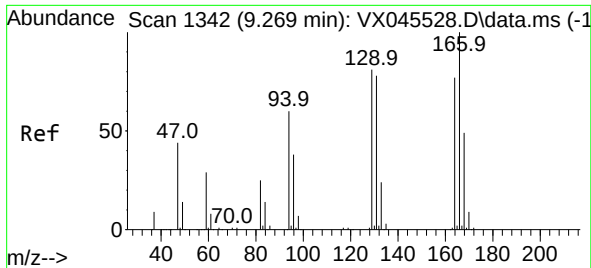
Tgt Ion: 95 Resp: 50659
Ion Ratio Lower Upper
95 100
174 69.6 0.0 135.8
176 65.9 0.0 131.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.006 min
Lab File: VX045540.D
Acq: 02 Apr 2025 12:30

Tgt Ion: 117 Resp: 105045
Ion Ratio Lower Upper
117 100
82 60.1 49.2 73.8
119 32.7 25.1 37.7

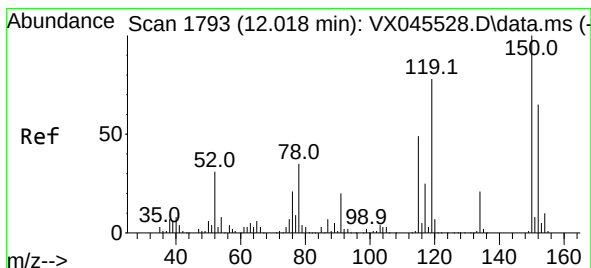
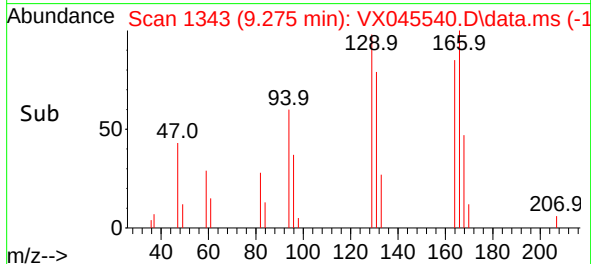
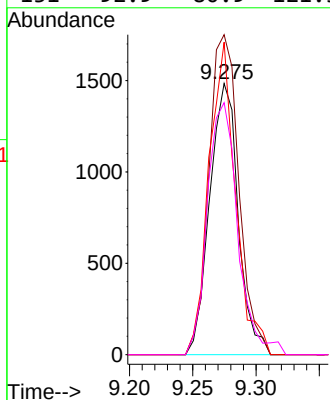
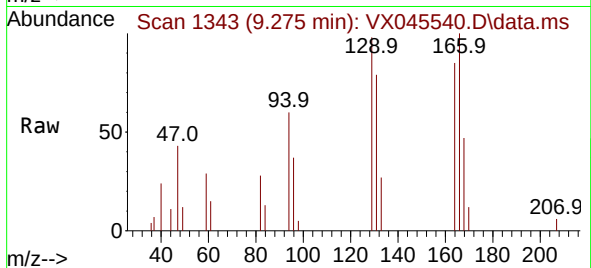




#64
Tetrachloroethene
Concen: 3.131 ug/l
RT: 9.275 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX045540.D
Acq: 02 Apr 2025 12:30

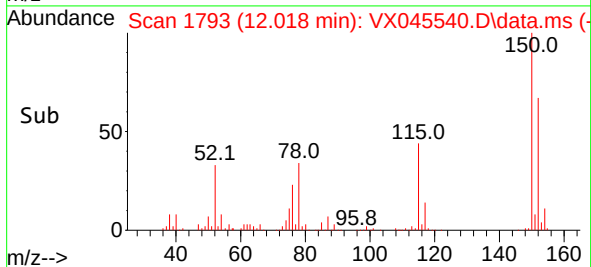
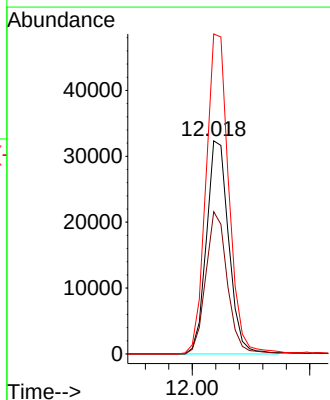
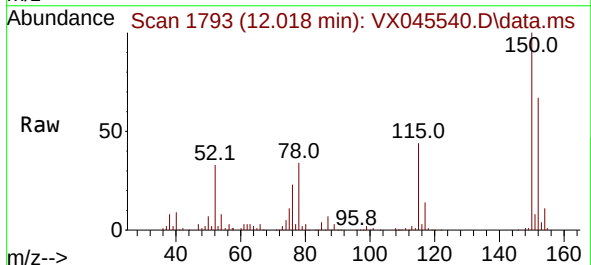
Instrument :
MSVOA_X
ClientSampleId :
IW-01-55-040125

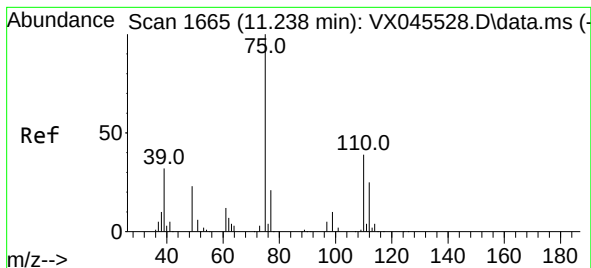
Tgt Ion:164	Resp:	2322	
Ion	Ratio	Lower	Upper
164	100		
166	118.0	103.8	155.8
129	115.2	84.3	126.5
131	92.9	80.9	121.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX045540.D
Acq: 02 Apr 2025 12:30

Tgt Ion:152	Resp:	42637	
Ion	Ratio	Lower	Upper
152	100		
115	64.9	46.9	140.7
150	153.6	0.0	349.4





#76

1,2,3-Trichloropropane

Concen: 28.348 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX045540.D

Acq: 02 Apr 2025 12:30

Instrument :

MSVOA_X

ClientSampleId :

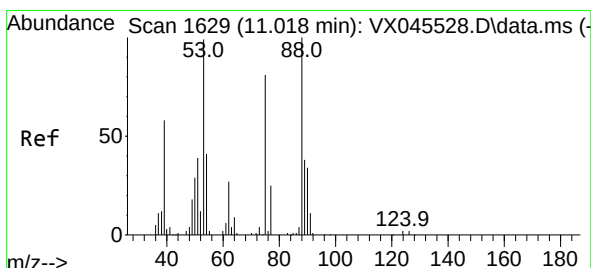
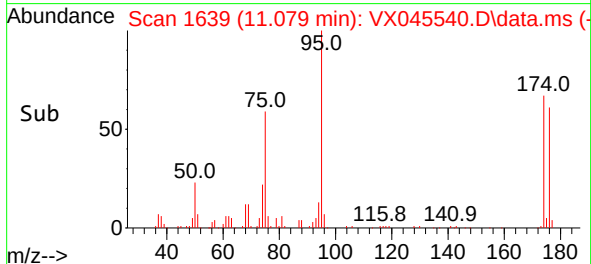
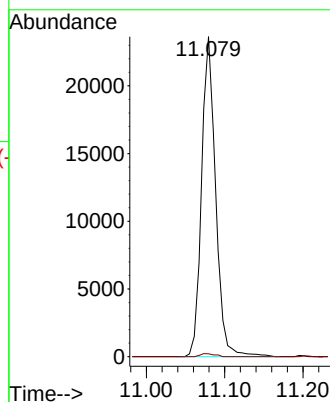
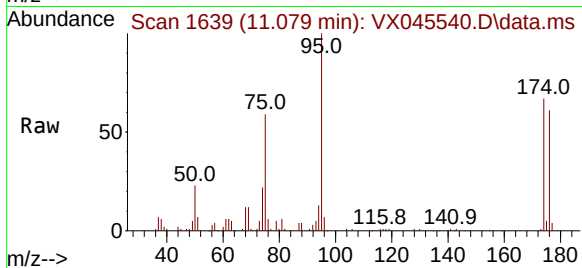
IW-01-55-040125

Tgt Ion: 75 Resp: 29482

Ion Ratio Lower Upper

75 100

77 1.0 20.0 59.9#



#81

trans-1,4-Dichloro-2-butene

Concen: 96.208 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX045540.D

Acq: 02 Apr 2025 12:30

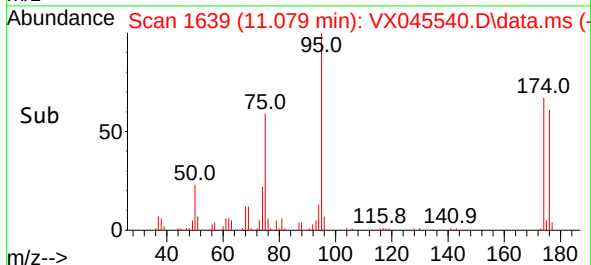
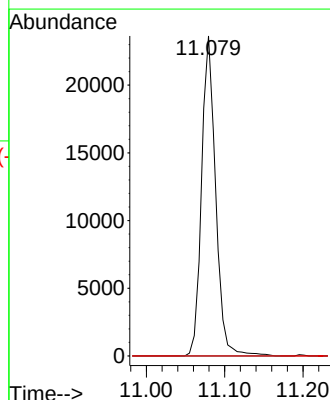
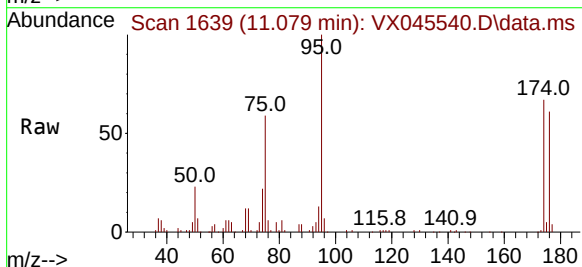
Tgt Ion: 75 Resp: 29482

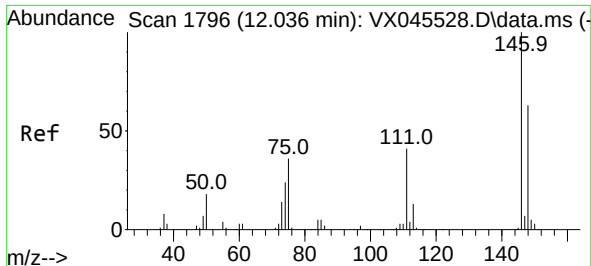
Ion Ratio Lower Upper

75 100

53 0.0 101.8 152.6#

89 0.0 37.2 55.8#





#88

1,4-Dichlorobenzene

Concen: 0.494 ug/l

RT: 12.043 min Scan# 11

Delta R.T. 0.006 min

Lab File: VX045540.D

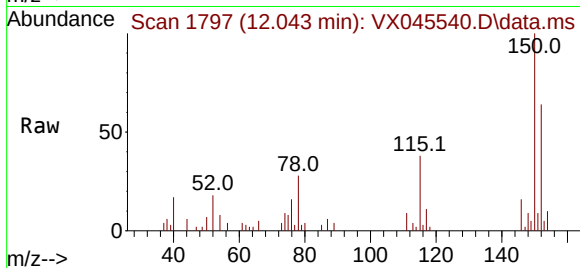
Acq: 02 Apr 2025 12:30

Instrument :

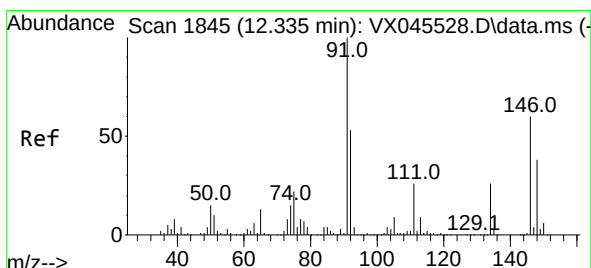
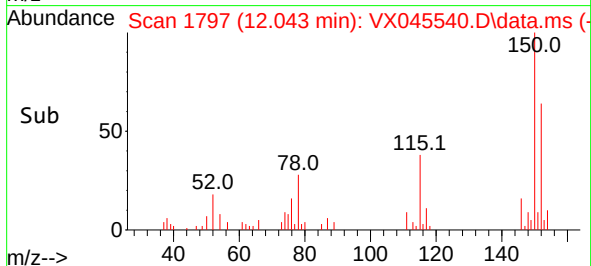
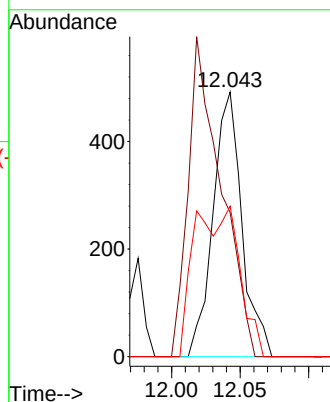
MSVOA_X

ClientSampleId :

IW-01-55-040125



Tgt Ion:	146	Resp:	720
Ion	Ratio	Lower	Upper
146	100		
111	0.0	20.9	62.8#
148	0.0	31.5	94.5#



#91

1,2-Dichlorobenzene

Concen: 0.238 ug/l

RT: 12.341 min Scan# 1846

Delta R.T. 0.006 min

Lab File: VX045540.D

Acq: 02 Apr 2025 12:30

Tgt Ion:	146	Resp:	340
Ion	Ratio	Lower	Upper
146	100		
111	32.6	22.9	68.8
148	33.8	31.9	95.5

