

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031325\
 Data File : VX045268.D
 Acq On : 13 Mar 2025 14:47
 Operator : JC/MD
 Sample : Q1559-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE115D1-20250310

Quant Time: Mar 14 12:28:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 06:45:16 2025
 Response via : Initial Calibration

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

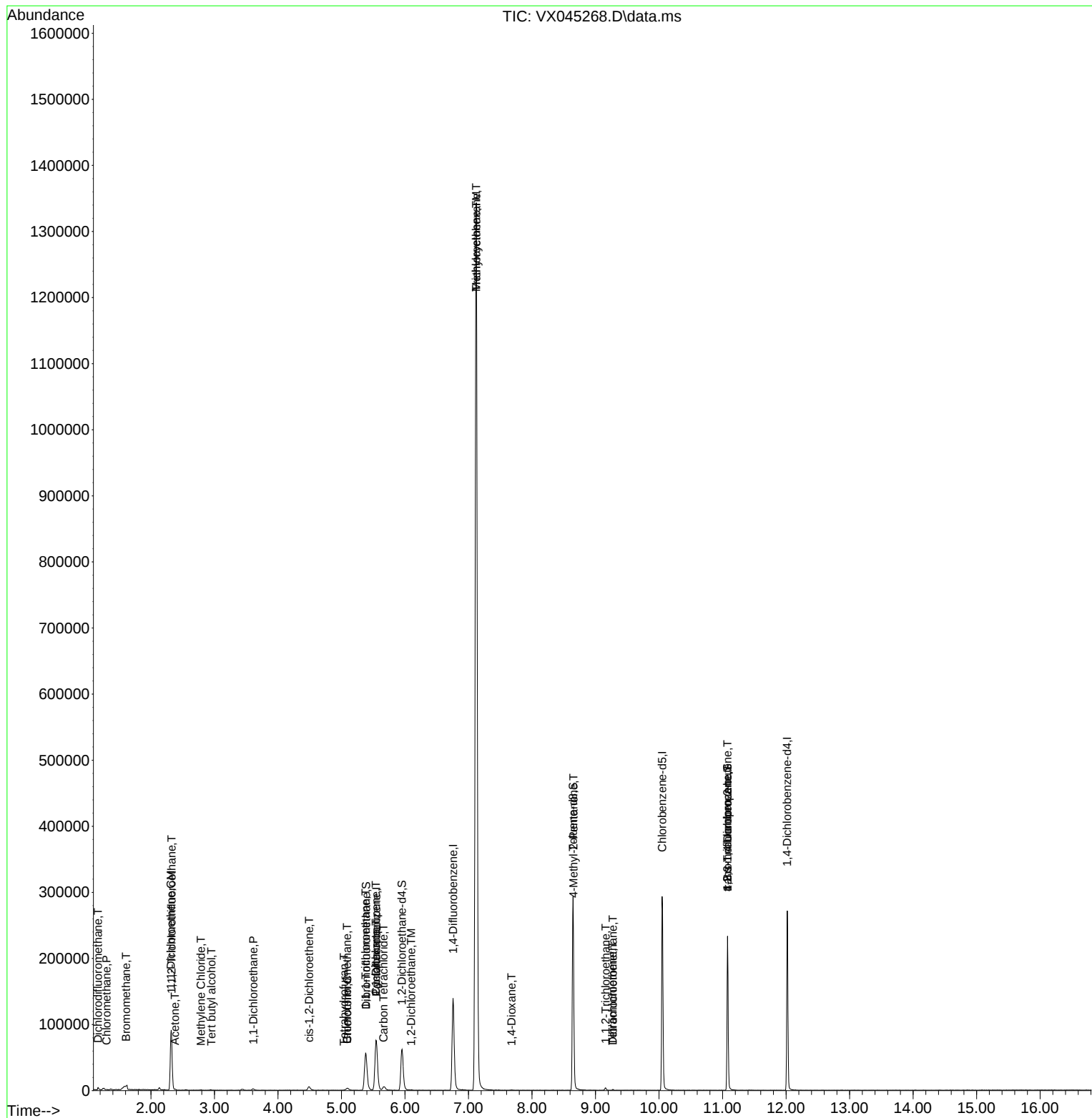
Internal Standards						
1) Pentafluorobenzene	5.550	168	68915	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	136302	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	126125	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	51157	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	59825	54.575	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 109.160%	
35) Dibromofluoromethane	5.385	113	48791	53.533	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 107.060%	
50) Toluene-d8	8.647	98	169613	51.333	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 102.660%	
62) 4-Bromofluorobenzene	11.079	95	58569	53.492	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 106.980%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	1959	2.258	ug/l	93
3) Chloromethane	1.301	50	279	0.263	ug/l #	43
5) Bromomethane	1.605	94	95	0.229	ug/l #	3
9) 1,1,2-Trichlorotrifluo...	2.325	101	26617	33.231	ug/l	98
11) Tert butyl alcohol	2.953	59	176	0.848	ug/l #	73
12) 1,1-Dichloroethene	2.313	96	10780	12.730	ug/l	96
16) Acetone	2.380	43	1087	2.137	ug/l	92
20) Methylene Chloride	2.788	84	290	0.288	ug/l	87
24) 1,1-Dichloroethane	3.611	63	2848	1.658	ug/l #	95
27) cis-1,2-Dichloroethene	4.489	96	3543	3.431	ug/l	93
28) Bromochloromethane	5.086	49	401	0.490	ug/l #	17
29) Tetrahydrofuran	5.038	42	132	0.257	ug/l #	34
30) Chloroform	5.093	83	3627	2.125	ug/l	98
31) Cyclohexane	5.544	56	2106	1.412	ug/l #	30
32) 1,1,1-Trichloroethane	5.379	97	1146	0.831	ug/l #	50
36) 1,1-Dichloropropene	5.544	75	6153	4.923	ug/l #	49
38) Carbon Tetrachloride	5.660	117	4609	3.632	ug/l	86
39) Methylcyclohexane	7.123	83	6913	4.616	ug/l #	1
42) 1,2-Dichloroethane	6.098	62	586	0.412	ug/l #	75
44) Trichloroethene	7.123	130	502161	541.835	ug/l	99
49) 1,4-Dioxane	7.677	88	547	21.703	ug/l #	43
51) 4-Methyl-2-Pentanone	8.653	43	894	0.559	ug/l #	1
55) 1,1,2-Trichloroethane	9.159	97	1119	1.174	ug/l #	88
60) Dibromochloromethane	9.275	129	248	0.249	ug/l #	11
64) Tetrachloroethene	9.269	164	210	0.260	ug/l #	84
76) 1,2,3-Trichloropropane	11.079	75	32283	27.113	ug/l #	36
81) trans-1,4-Dichloro-2-b...	11.079	75	32283	92.786	ug/l #	6

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

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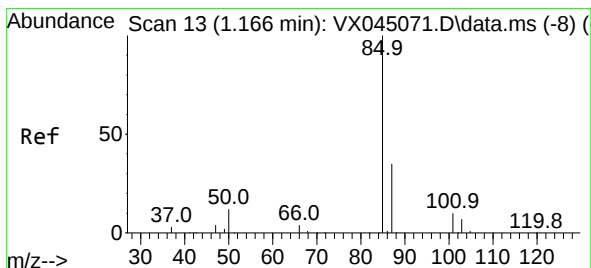
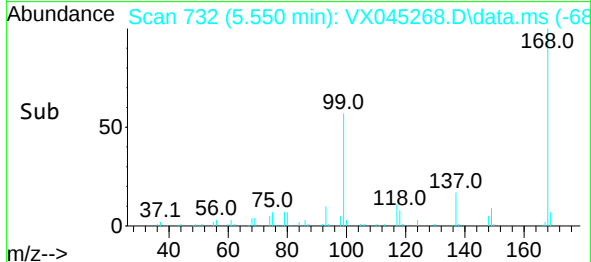
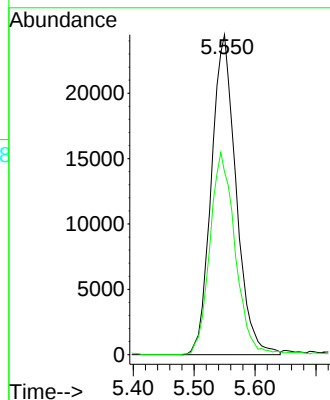
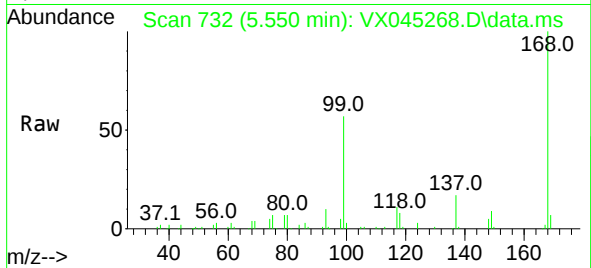




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 732
Delta R.T. -0.000 min
Lab File: VX045268.D
Acq: 13 Mar 2025 14:47

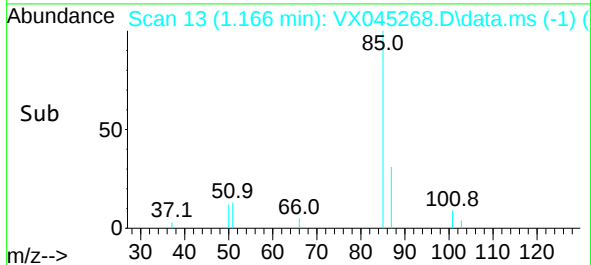
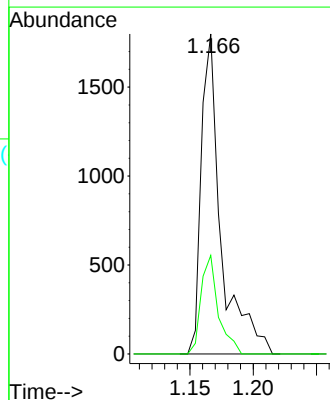
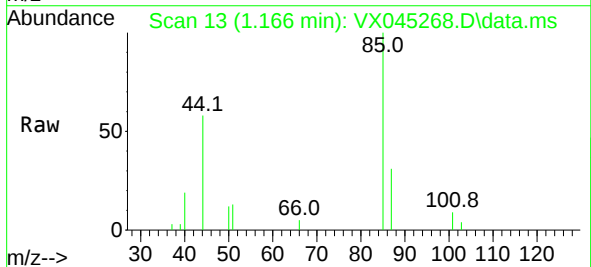
Instrument :
MSVOA_X
ClientSampleId :
RE115D1-20250310

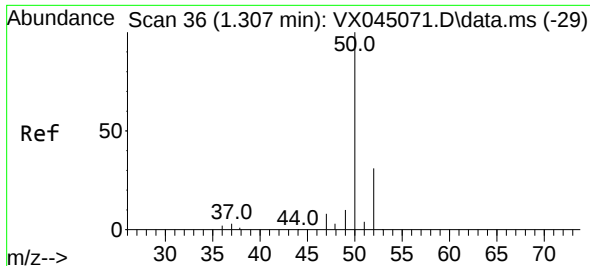
Tgt Ion:168 Resp: 68915
Ion Ratio Lower Upper
168 100
99 57.1 48.2 72.4



#2
Dichlorodifluoromethane
Concen: 2.258 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045268.D
Acq: 13 Mar 2025 14:47

Tgt Ion: 85 Resp: 1959
Ion Ratio Lower Upper
85 100
87 30.8 17.4 52.3

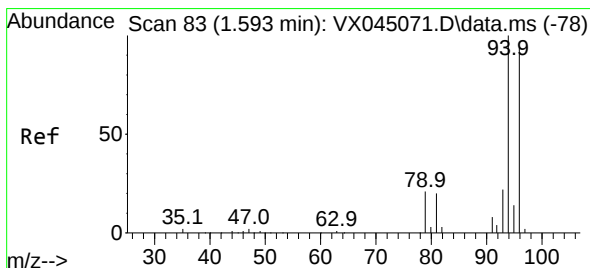
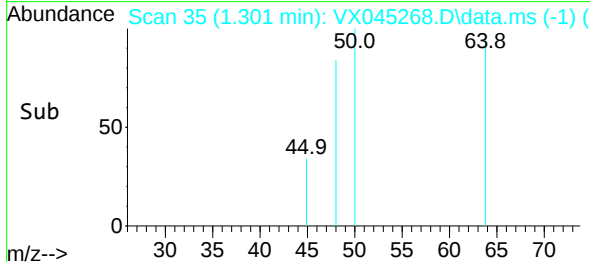
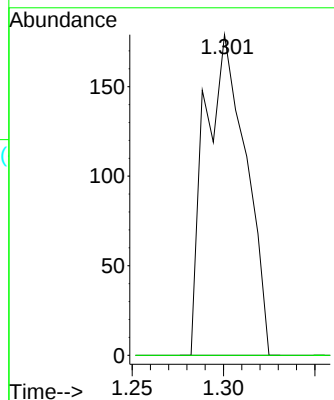
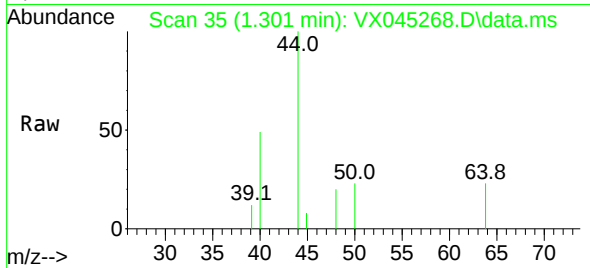




#3
Chloromethane
Concen: 0.263 ug/l
RT: 1.301 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX045268.D
Acq: 13 Mar 2025 14:47

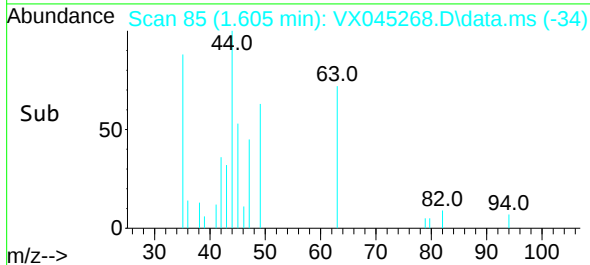
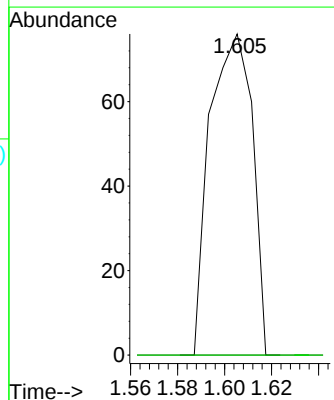
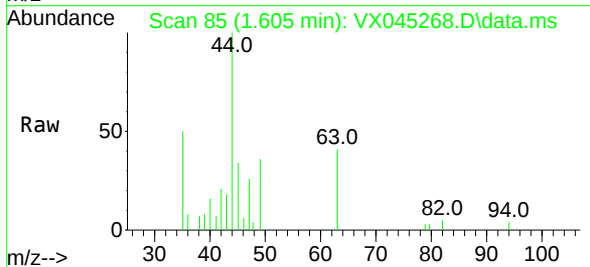
Instrument :
MSVOA_X
ClientSampleId :
RE115D1-20250310

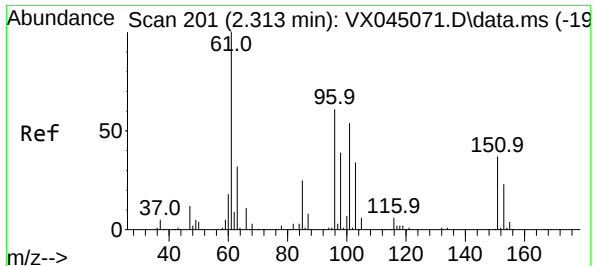
Tgt Ion: 50 Resp: 279
Ion Ratio Lower Upper
50 100
52 0.0 25.0 37.4#



#5
Bromomethane
Concen: 0.229 ug/l
RT: 1.605 min Scan# 85
Delta R.T. 0.012 min
Lab File: VX045268.D
Acq: 13 Mar 2025 14:47

Tgt Ion: 94 Resp: 95
Ion Ratio Lower Upper
94 100
96 0.0 75.0 112.4#

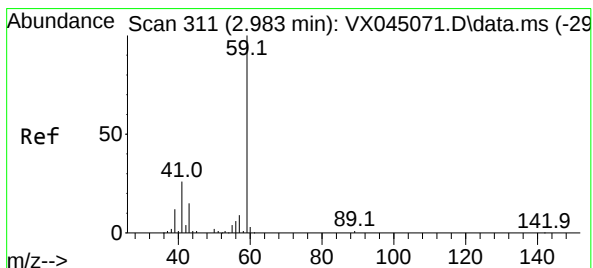
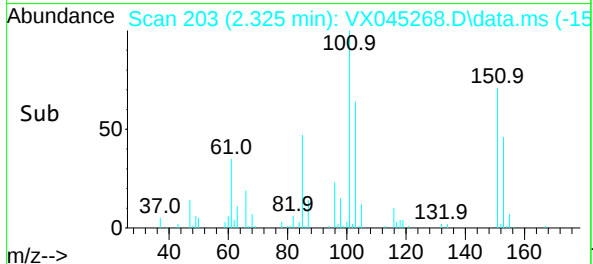
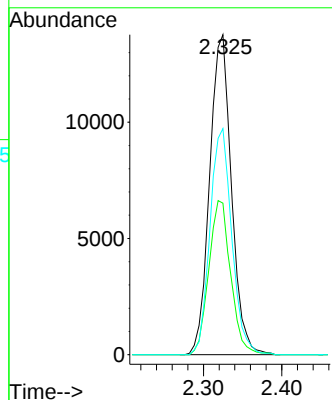
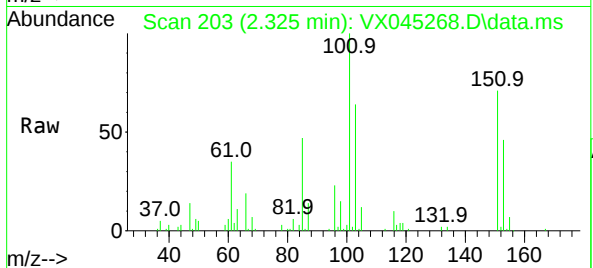




#9
1,1,2-Trichlorotrifluoroethane
Concen: 33.231 ug/l
RT: 2.325 min Scan# 20
Delta R.T. 0.012 min
Lab File: VX045268.D
Acq: 13 Mar 2025 14:47

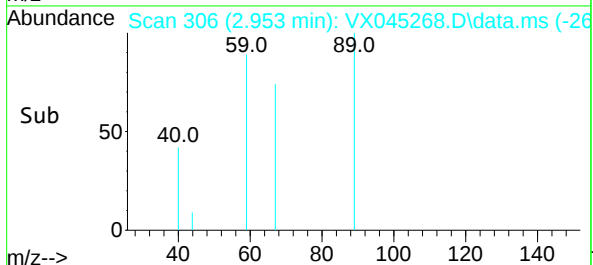
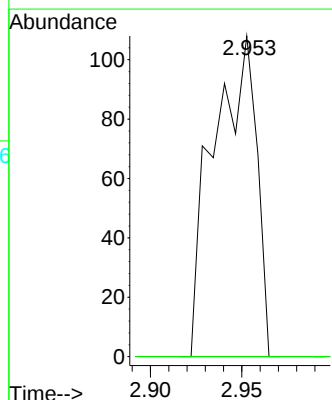
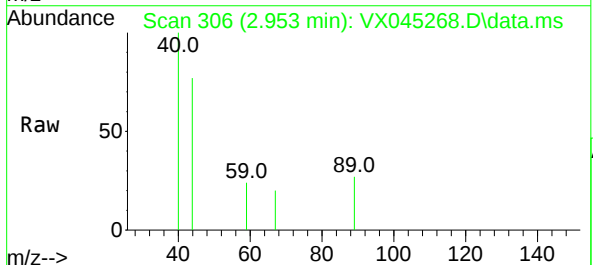
Instrument :
MSVOA_X
ClientSampleId :
RE115D1-20250310

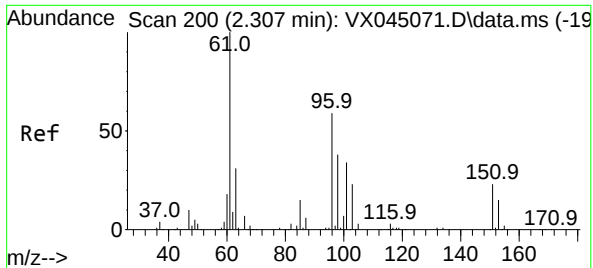
Tgt Ion:101 Resp: 26617
Ion Ratio Lower Upper
101 100
85 48.3 36.2 54.4
151 70.8 56.4 84.6



#11
Tert butyl alcohol
Concen: 0.848 ug/l
RT: 2.953 min Scan# 306
Delta R.T. -0.031 min
Lab File: VX045268.D
Acq: 13 Mar 2025 14:47

Tgt Ion: 59 Resp: 176
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#





#12

1,1-Dichloroethene

Concen: 12.730 ug/l

RT: 2.313 min Scan# 20

Delta R.T. 0.006 min

Lab File: VX045268.D

Acq: 13 Mar 2025 14:47

Instrument :

MSVOA_X

ClientSampleId :

RE115D1-20250310

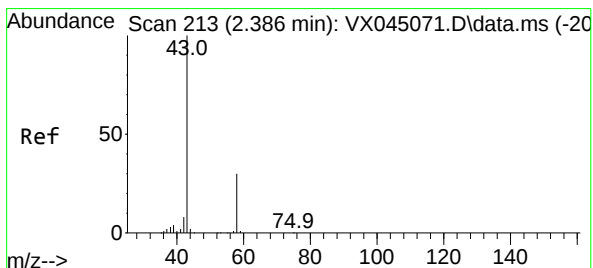
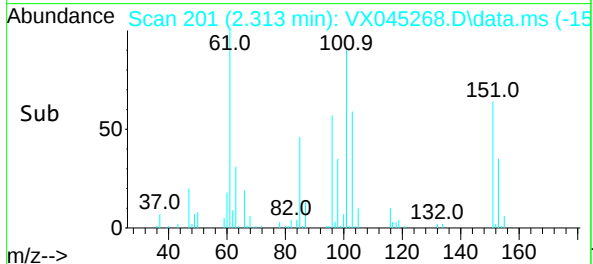
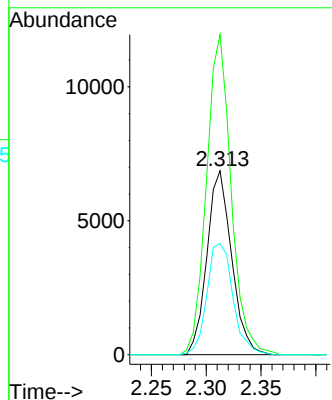
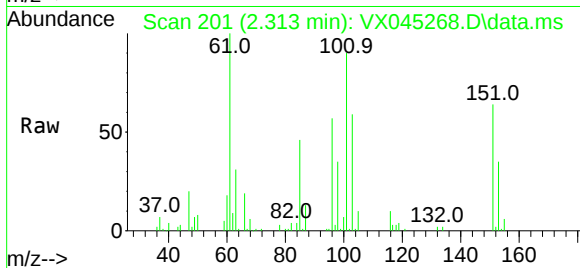
Tgt Ion: 96 Resp: 10780

Ion Ratio Lower Upper

96 100

61 174.1 134.6 202.0

98 60.5 51.0 76.6



#16

Acetone

Concen: 2.137 ug/l

RT: 2.380 min Scan# 212

Delta R.T. -0.006 min

Lab File: VX045268.D

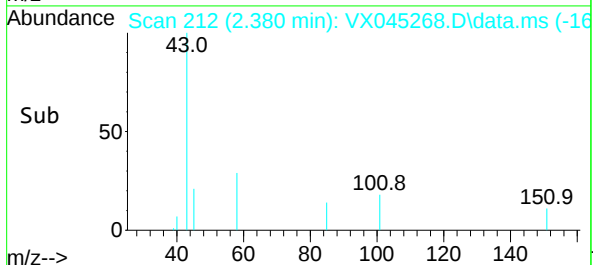
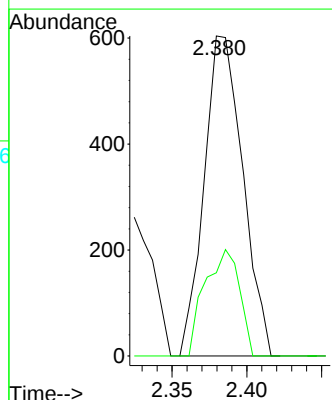
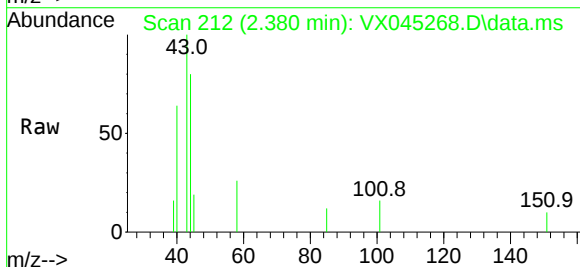
Acq: 13 Mar 2025 14:47

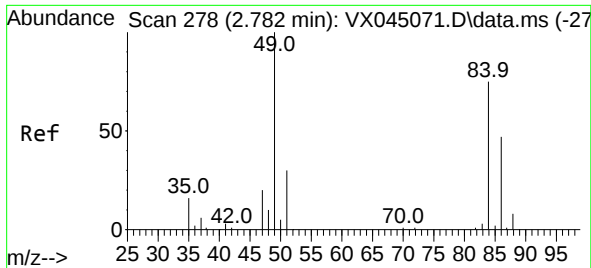
Tgt Ion: 43 Resp: 1087

Ion Ratio Lower Upper

43 100

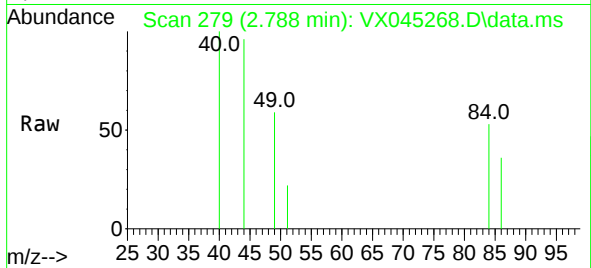
58 26.0 24.2 36.4



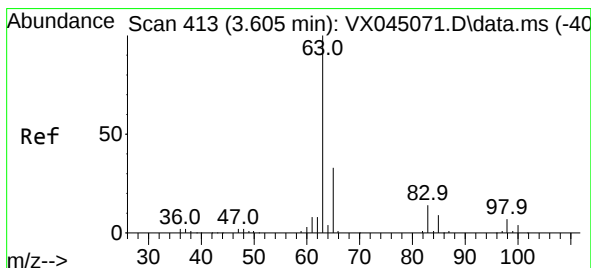
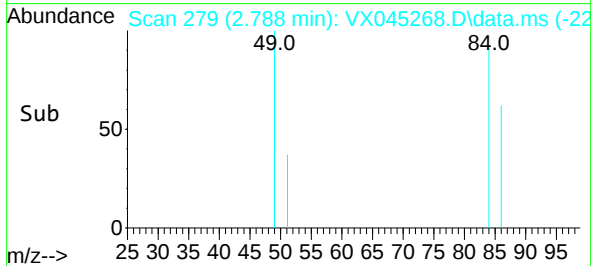
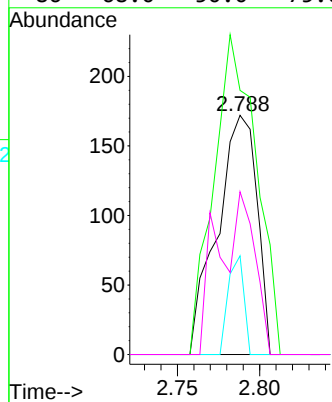


#20
Methylene Chloride
Concen: 0.288 ug/l
RT: 2.788 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX045268.D
Acq: 13 Mar 2025 14:47

Instrument :
MSVOA_X
ClientSampleId :
RE115D1-20250310

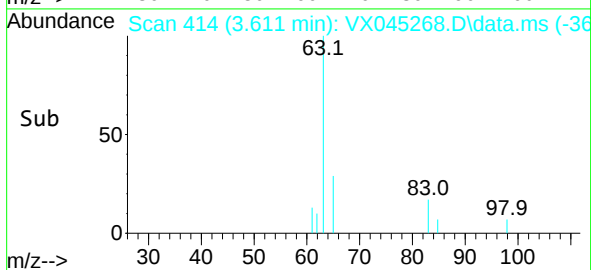
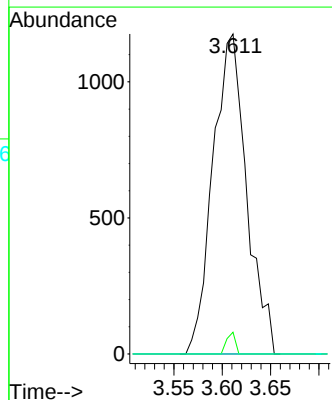
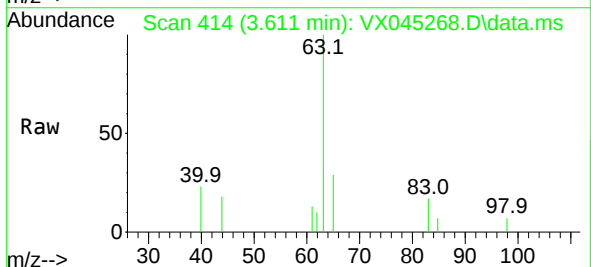


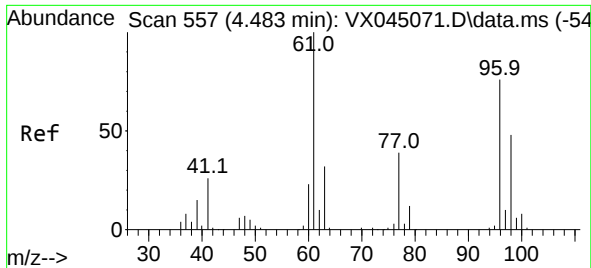
Tgt Ion: 84	Resp: 290
Ion Ratio	Lower Upper
84 100	
49 110.5	106.5 159.7
51 41.3	32.1 48.1
86 68.0	50.0 75.0



#24
1,1-Dichloroethane
Concen: 1.658 ug/l
RT: 3.611 min Scan# 414
Delta R.T. 0.006 min
Lab File: VX045268.D
Acq: 13 Mar 2025 14:47

Tgt Ion: 63	Resp: 2848
Ion Ratio	Lower Upper
63 100	
98 6.8	3.4 10.2
100 0.0	2.1 6.5#

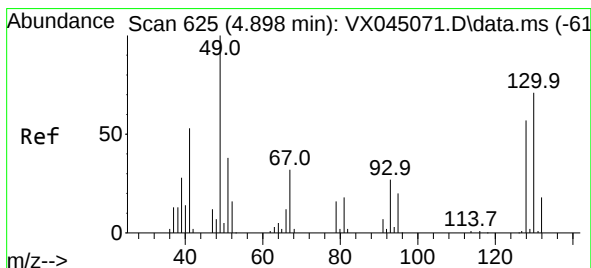
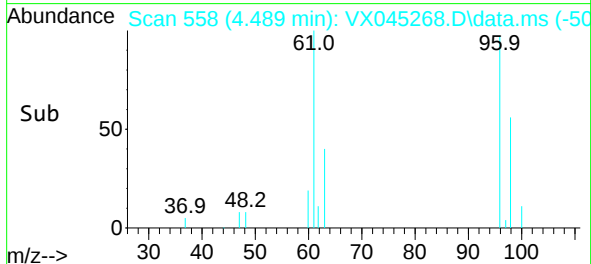
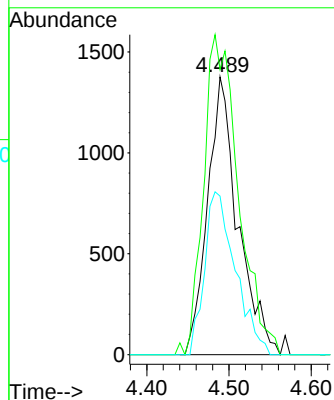
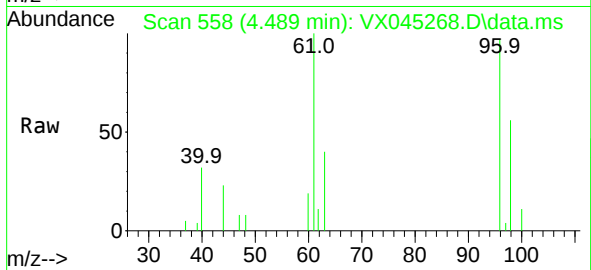




#27
cis-1,2-Dichloroethene
Concen: 3.431 ug/l
RT: 4.489 min Scan# 51
Delta R.T. 0.006 min
Lab File: VX045268.D
Acq: 13 Mar 2025 14:47

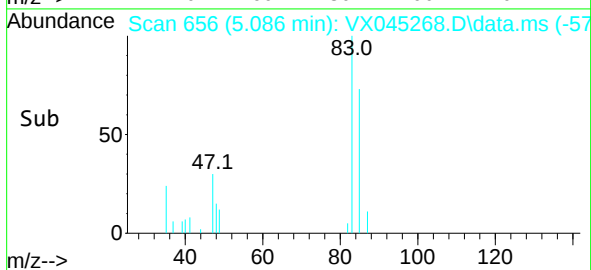
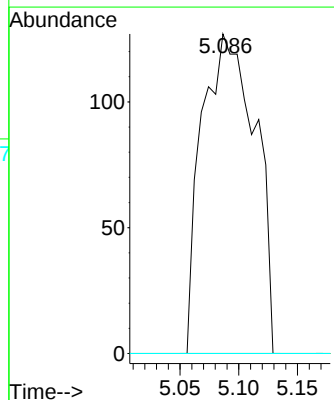
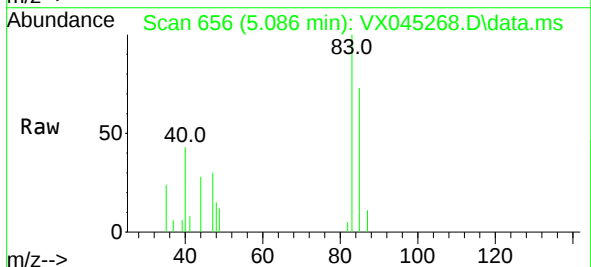
Instrument :
MSVOA_X
ClientSampleId :
RE115D1-20250310

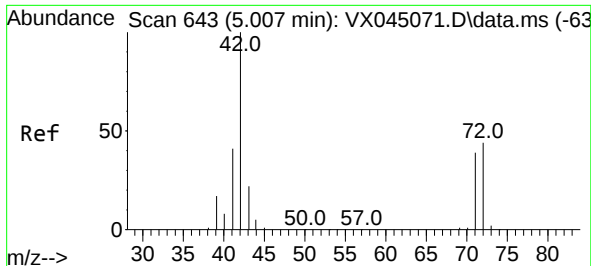
Tgt Ion: 96 Resp: 3543
Ion Ratio Lower Upper
96 100
61 131.8 0.0 283.2
98 59.3 0.0 128.0



#28
Bromochloromethane
Concen: 0.490 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.189 min
Lab File: VX045268.D
Acq: 13 Mar 2025 14:47

Tgt Ion: 49 Resp: 401
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.4
130 0.0 56.1 84.1#





#29

Tetrahydrofuran

Concen: 0.257 ug/l

RT: 5.038 min Scan# 64

Delta R.T. 0.030 min

Lab File: VX045268.D

Acq: 13 Mar 2025 14:47

Instrument :

MSVOA_X

ClientSampleId :

RE115D1-20250310

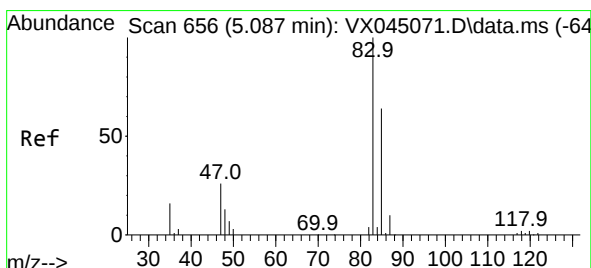
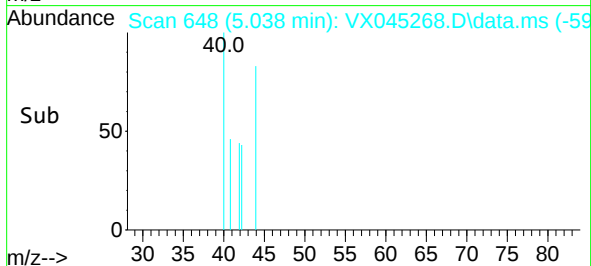
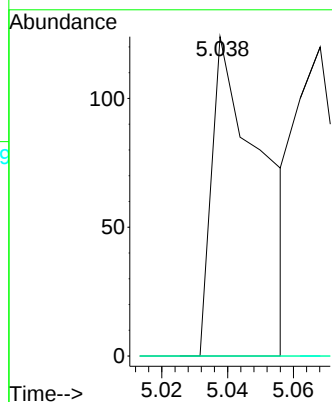
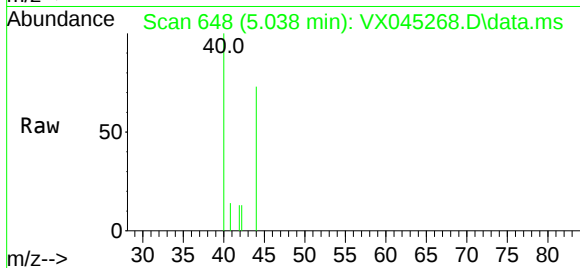
Tgt Ion: 42 Resp: 132

Ion Ratio Lower Upper

42 100

72 0.0 34.1 51.1#

71 0.0 31.4 47.0#



#30

Chloroform

Concen: 2.125 ug/l

RT: 5.093 min Scan# 657

Delta R.T. 0.006 min

Lab File: VX045268.D

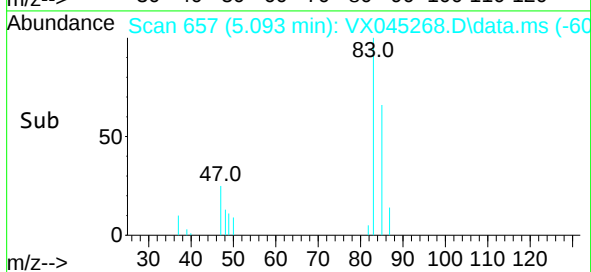
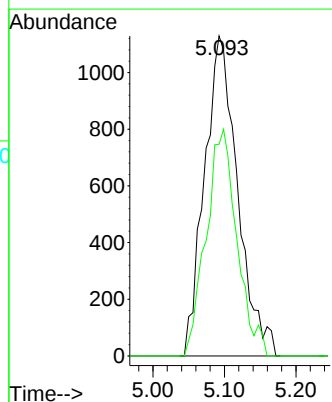
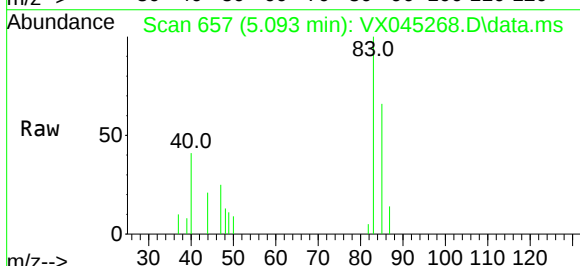
Acq: 13 Mar 2025 14:47

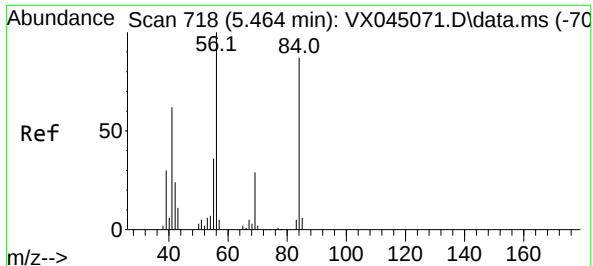
Tgt Ion: 83 Resp: 3627

Ion Ratio Lower Upper

83 100

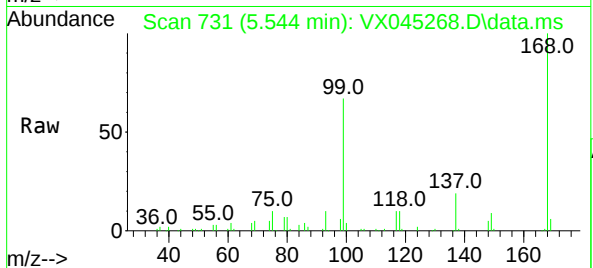
85 66.2 51.4 77.2



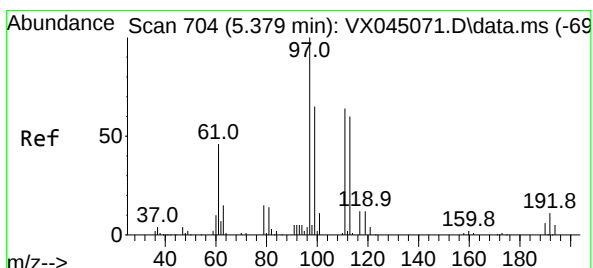
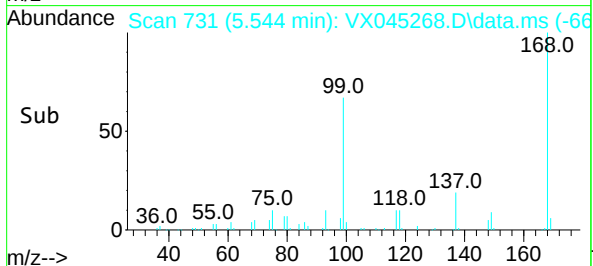
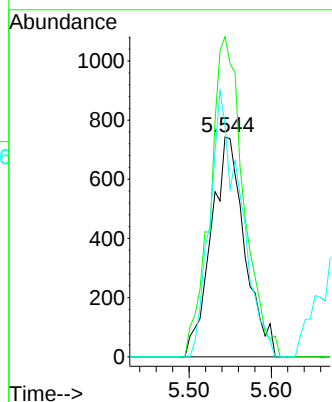


#31
Cyclohexane
Concen: 1.412 ug/l
RT: 5.544 min Scan# 718
Delta R.T. 0.079 min
Lab File: VX045268.D
Acq: 13 Mar 2025 14:47

Instrument :
MSVOA_X
ClientSampleId :
RE115D1-20250310

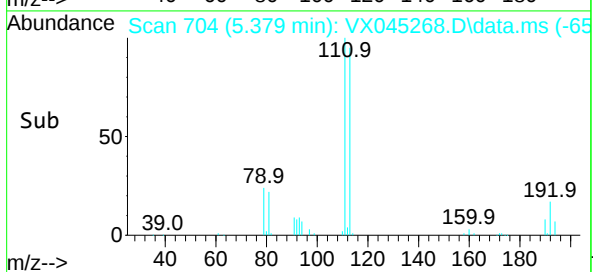
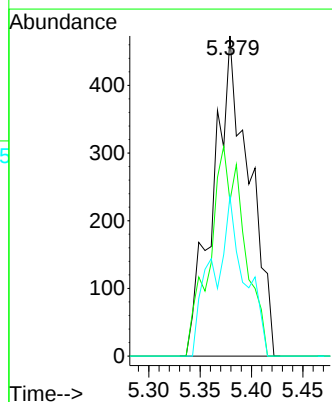
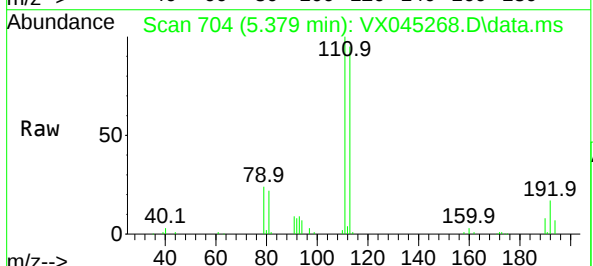


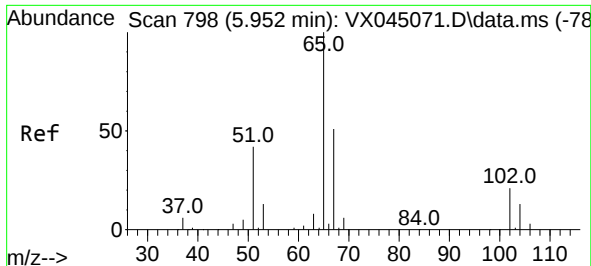
Tgt Ion: 56 Resp: 2106
Ion Ratio Lower Upper
56 100
69 145.6 23.4 35.2#
84 105.7 69.4 104.2#



#32
1,1,1-Trichloroethane
Concen: 0.831 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX045268.D
Acq: 13 Mar 2025 14:47

Tgt Ion: 97 Resp: 1146
Ion Ratio Lower Upper
97 100
99 0.0 51.6 77.4#
61 44.2 38.4 57.6





#33

1,2-Dichloroethane-d4

Concen: 54.575 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX045268.D

Acq: 13 Mar 2025 14:47

Instrument :

MSVOA_X

ClientSampleId :

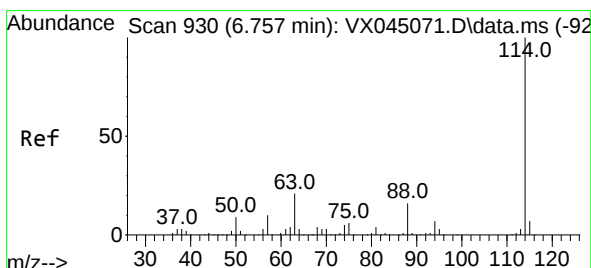
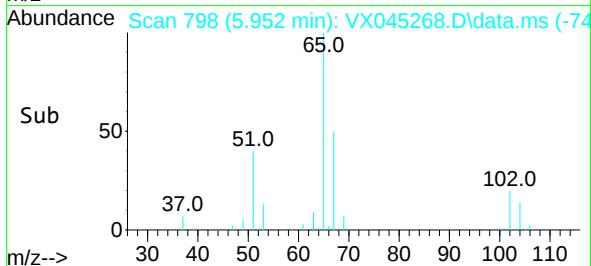
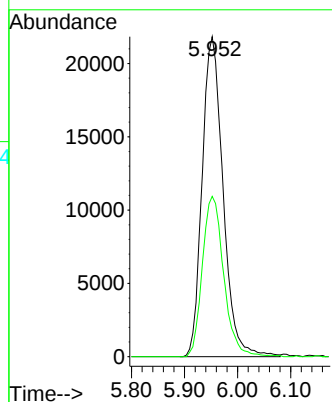
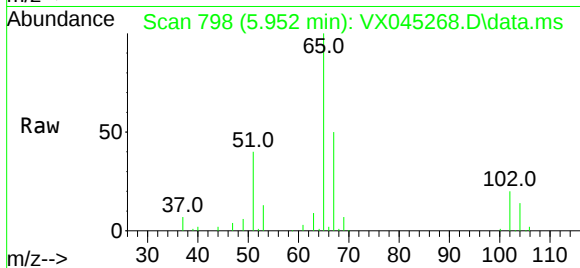
RE115D1-20250310

Tgt Ion: 65 Resp: 59825

Ion Ratio Lower Upper

65 100

67 51.2 0.0 106.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.000 min

Lab File: VX045268.D

Acq: 13 Mar 2025 14:47

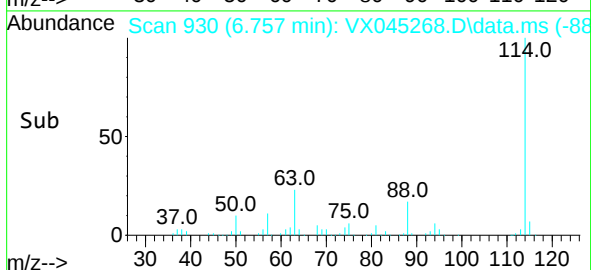
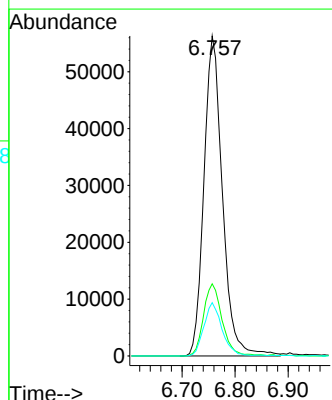
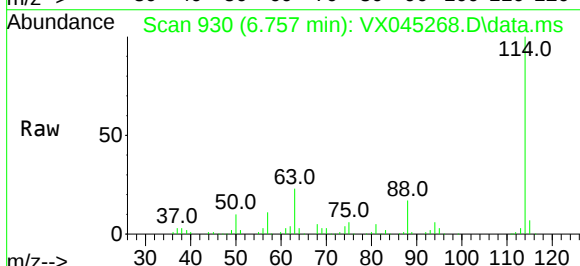
Tgt Ion: 114 Resp: 136302

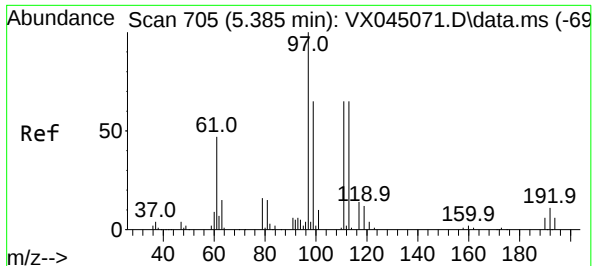
Ion Ratio Lower Upper

114 100

63 22.5 0.0 41.8

88 16.7 0.0 32.8





#35

Dibromofluoromethane

Concen: 53.533 ug/l

RT: 5.385 min Scan# 705

Delta R.T. -0.000 min

Lab File: VX045268.D

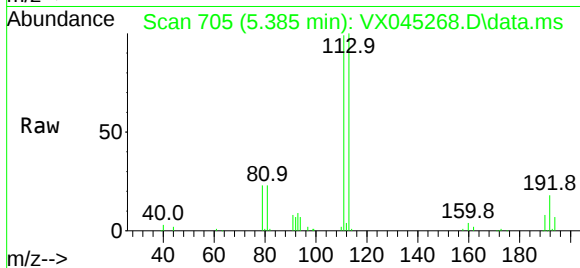
Acq: 13 Mar 2025 14:47

Instrument :

MSVOA_X

ClientSampleId :

RE115D1-20250310



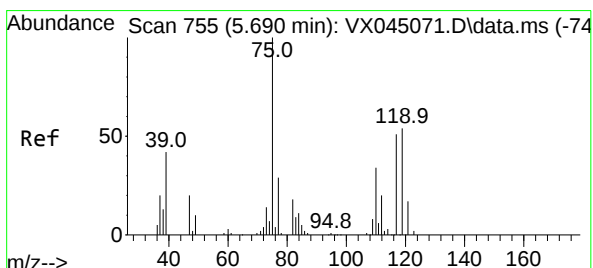
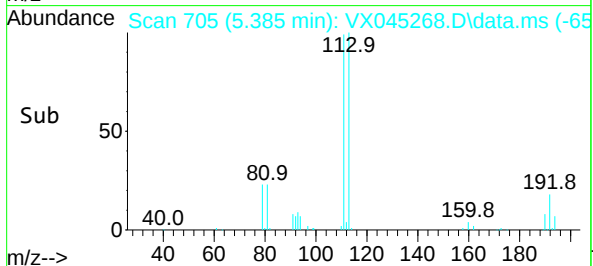
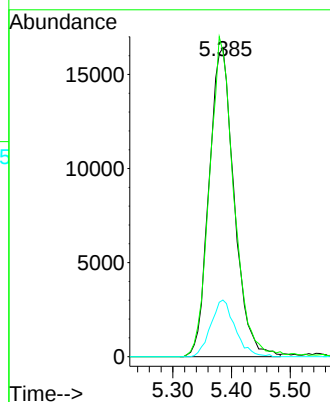
Tgt Ion:113 Resp: 48791

Ion Ratio Lower Upper

113 100

111 100.8 81.8 122.6

192 17.8 14.3 21.5



#36

1,1-Dichloropropene

Concen: 4.923 ug/l

RT: 5.544 min Scan# 731

Delta R.T. -0.146 min

Lab File: VX045268.D

Acq: 13 Mar 2025 14:47

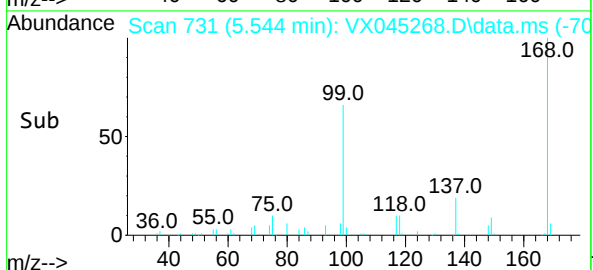
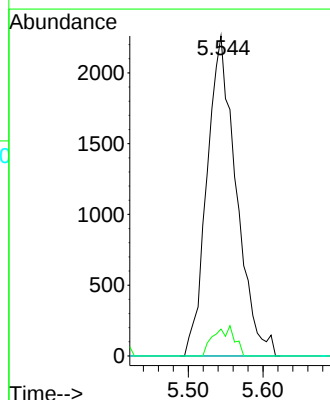
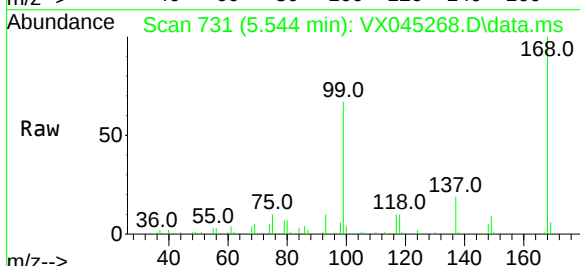
Tgt Ion: 75 Resp: 6153

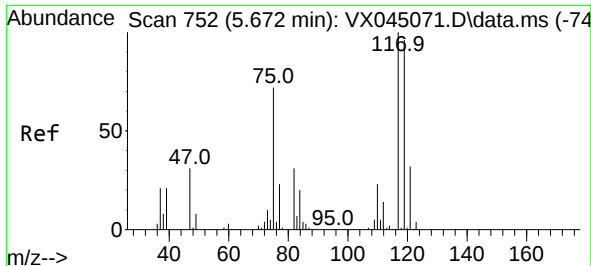
Ion Ratio Lower Upper

75 100

110 6.7 16.9 50.6#

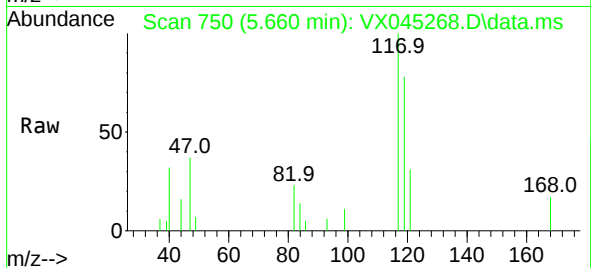
77 0.0 24.5 36.7#



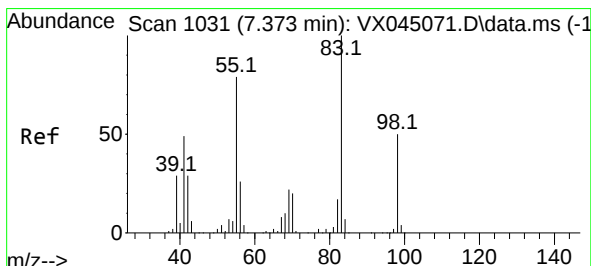
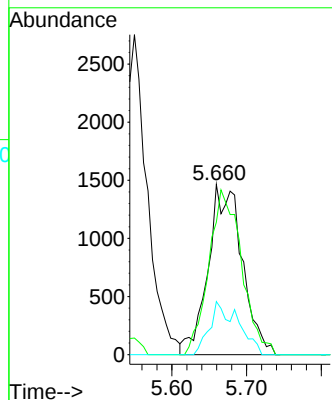
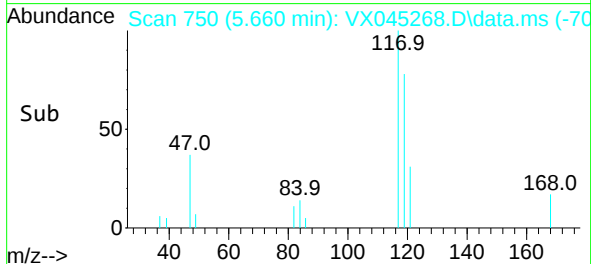


#38
Carbon Tetrachloride
Concen: 3.632 ug/l
RT: 5.660 min Scan# 71
Delta R.T. -0.012 min
Lab File: VX045268.D
Acq: 13 Mar 2025 14:47

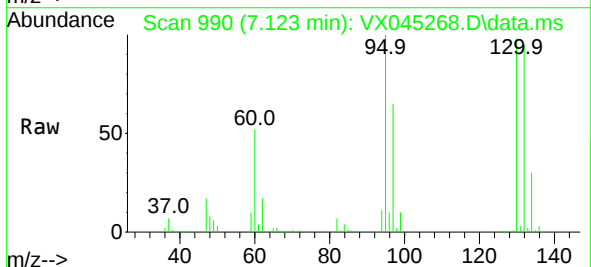
Instrument :
MSVOA_X
ClientSampleId :
RE115D1-20250310



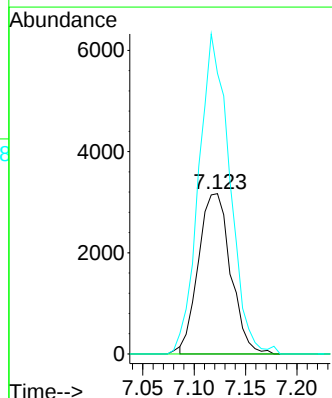
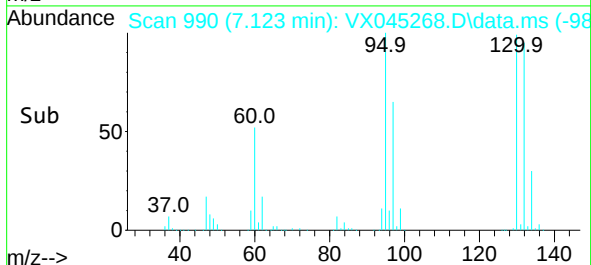
Tgt Ion:117 Resp: 4609
Ion Ratio Lower Upper
117 100
119 77.8 76.7 115.1
121 31.2 25.5 38.3

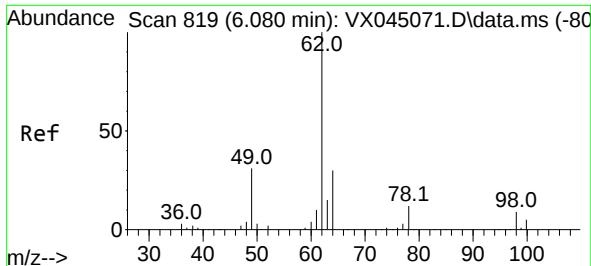


#39
Methylcyclohexane
Concen: 4.616 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.250 min
Lab File: VX045268.D
Acq: 13 Mar 2025 14:47



Tgt Ion: 83 Resp: 6913
Ion Ratio Lower Upper
83 100
55 0.0 63.0 94.4#
98 169.2 39.7 59.5#





#42

1,2-Dichloroethane

Concen: 0.412 ug/l

RT: 6.098 min Scan# 819

Delta R.T. 0.018 min

Lab File: VX045268.D

Acq: 13 Mar 2025 14:47

Instrument :

MSVOA_X

ClientSampleId :

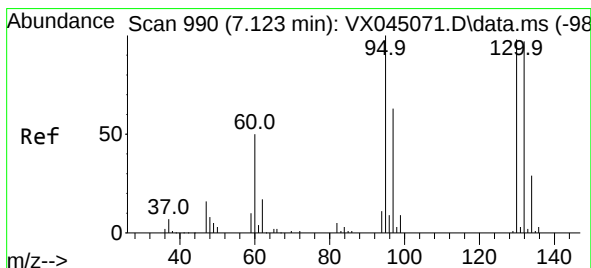
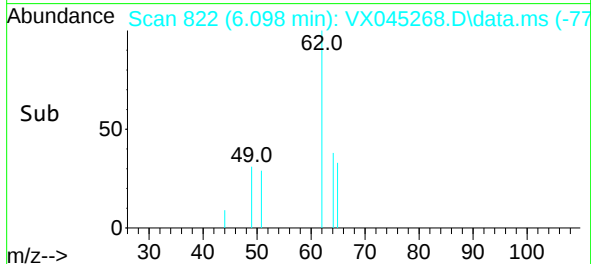
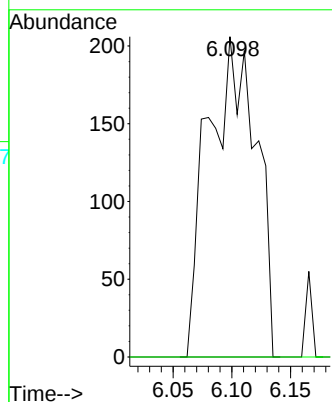
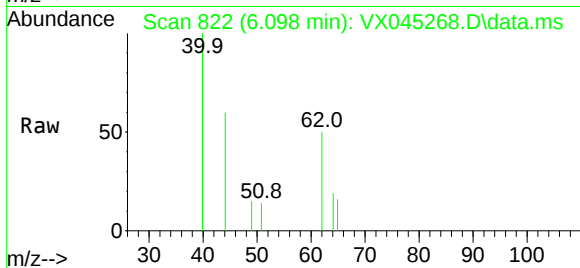
RE115D1-20250310

Tgt Ion: 62 Resp: 586

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.2



#44

Trichloroethene

Concen: 541.835 ug/l

RT: 7.123 min Scan# 990

Delta R.T. -0.000 min

Lab File: VX045268.D

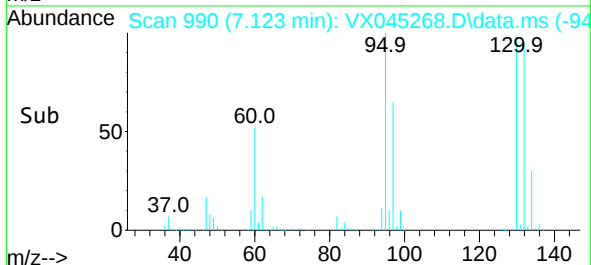
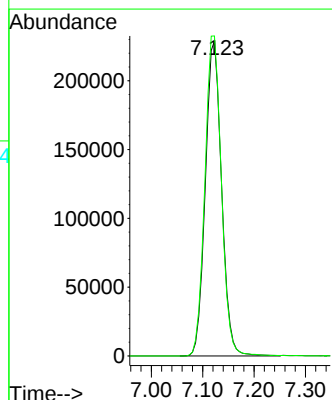
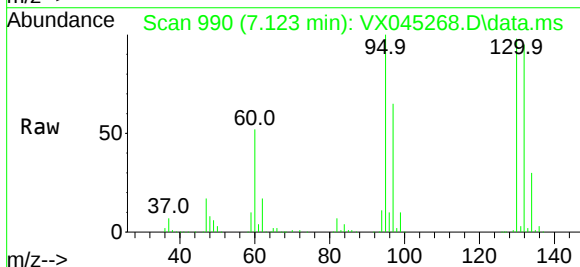
Acq: 13 Mar 2025 14:47

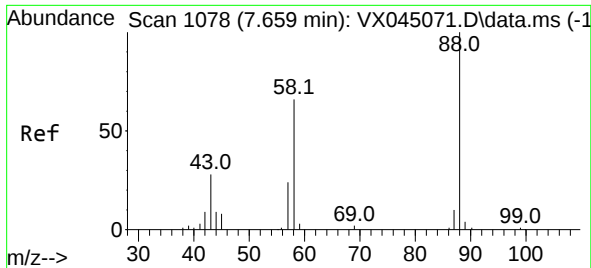
Tgt Ion:130 Resp: 502161

Ion Ratio Lower Upper

130 100

95 101.6 0.0 205.0

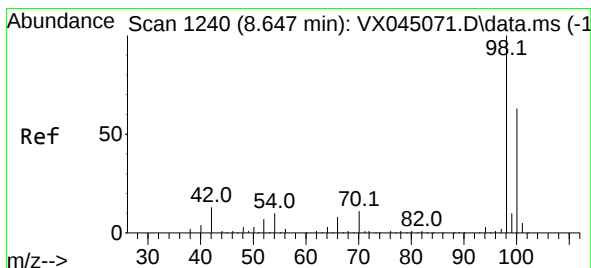
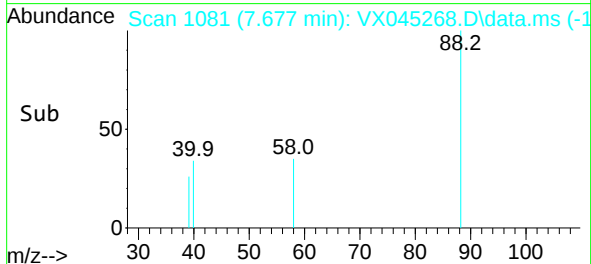
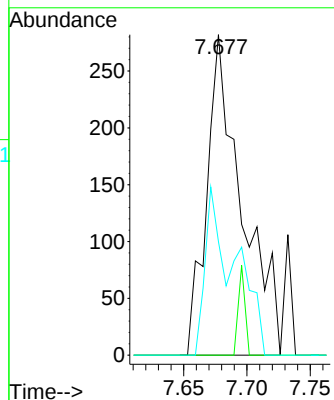
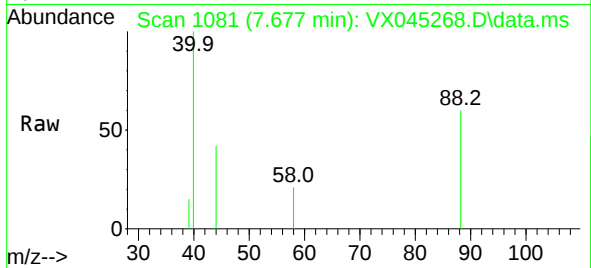




#49
1,4-Dioxane
Concen: 21.703 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. 0.018 min
Lab File: VX045268.D
Acq: 13 Mar 2025 14:47

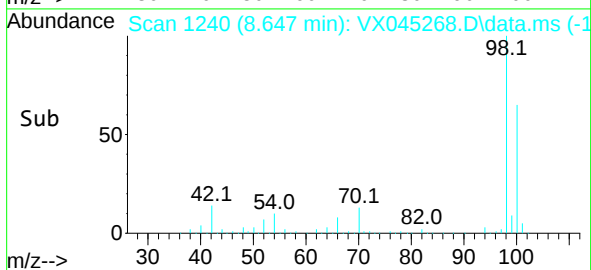
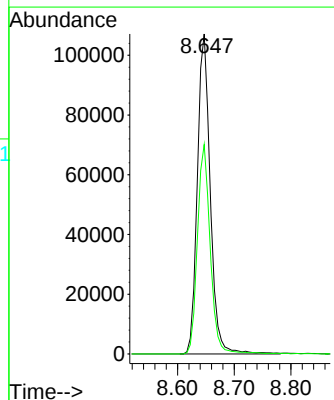
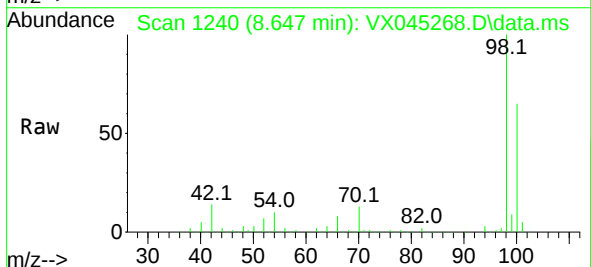
Instrument :
MSVOA_X
ClientSampleId :
RE115D1-20250310

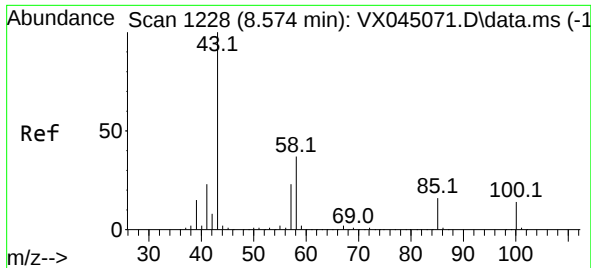
Tgt Ion: 88 Resp: 547
Ion Ratio Lower Upper
88 100
43 0.0 28.7 43.1#
58 24.7 55.8 83.8#



#50
Toluene-d8
Concen: 51.333 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045268.D
Acq: 13 Mar 2025 14:47

Tgt Ion: 98 Resp: 169613
Ion Ratio Lower Upper
98 100
100 64.9 52.0 78.0

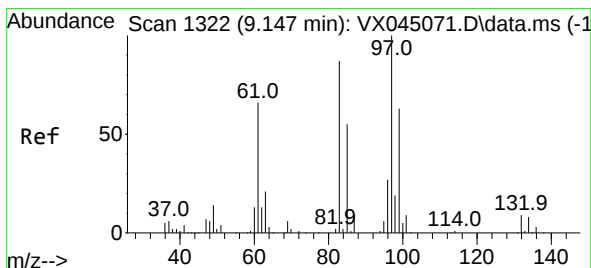
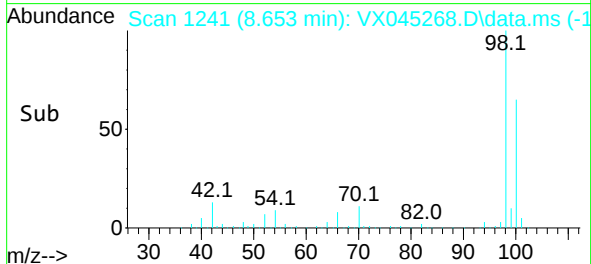
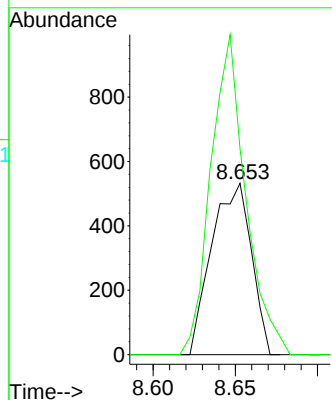
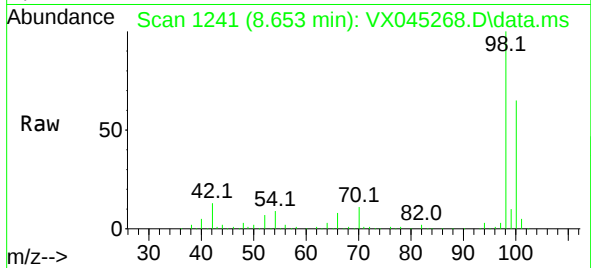




#51
4-Methyl-2-Pentanone
Concen: 0.559 ug/l
RT: 8.653 min Scan# 11
Delta R.T. 0.079 min
Lab File: VX045268.D
Acq: 13 Mar 2025 14:47

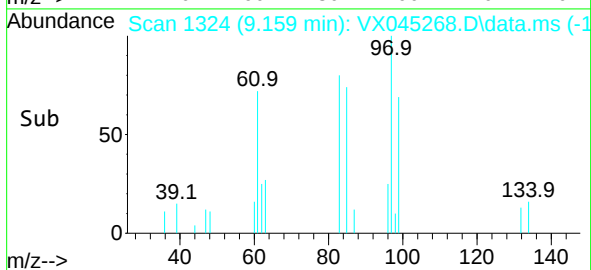
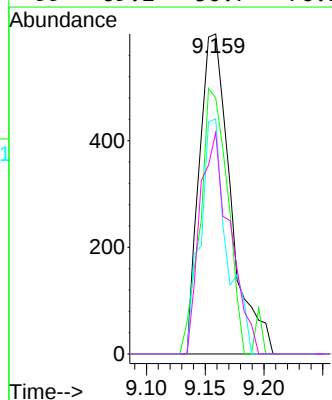
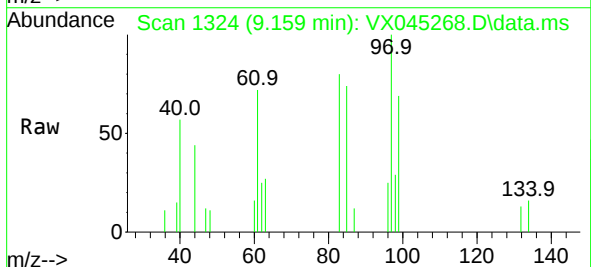
Instrument :
MSVOA_X
ClientSampleId :
RE115D1-20250310

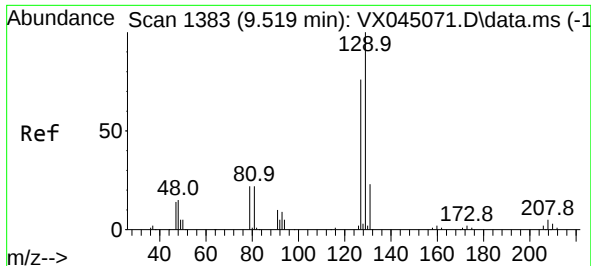
Tgt Ion: 43 Resp: 894
Ion Ratio Lower Upper
43 100
58 164.0 29.2 43.8#



#55
1,1,2-Trichloroethane
Concen: 1.174 ug/l
RT: 9.159 min Scan# 1324
Delta R.T. 0.012 min
Lab File: VX045268.D
Acq: 13 Mar 2025 14:47

Tgt Ion: 97 Resp: 1119
Ion Ratio Lower Upper
97 100
83 80.0 69.4 104.2
85 73.5 44.1 66.1#
99 69.2 50.7 76.1

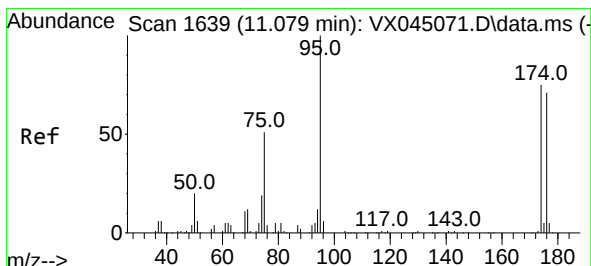
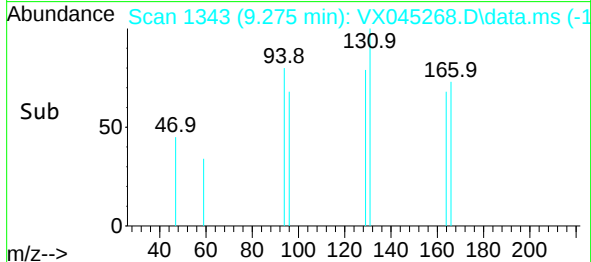
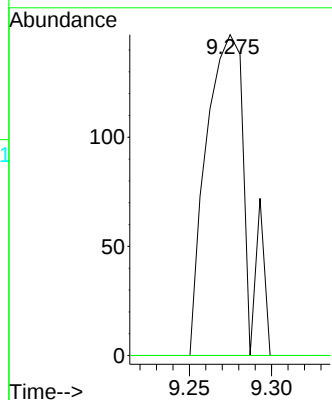
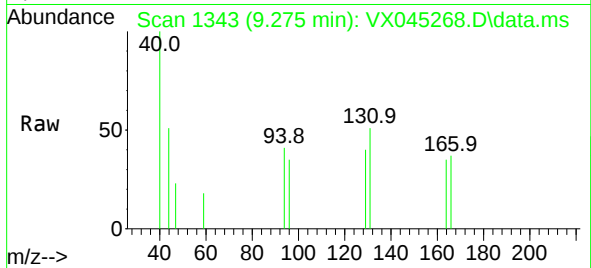




#60
Dibromochloromethane
Concen: 0.249 ug/l
RT: 9.275 min Scan# 11
Delta R.T. -0.244 min
Lab File: VX045268.D
Acq: 13 Mar 2025 14:47

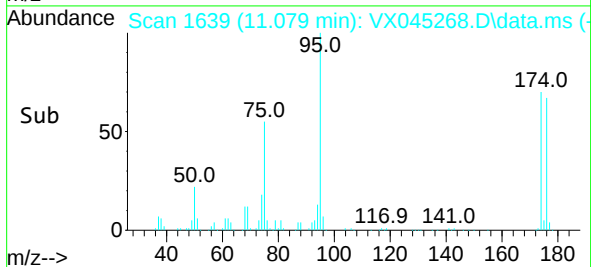
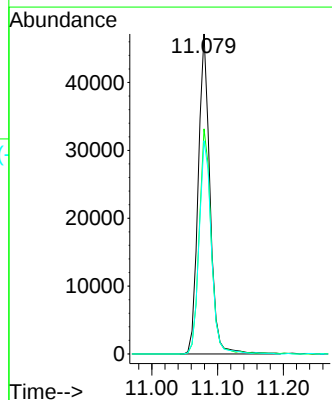
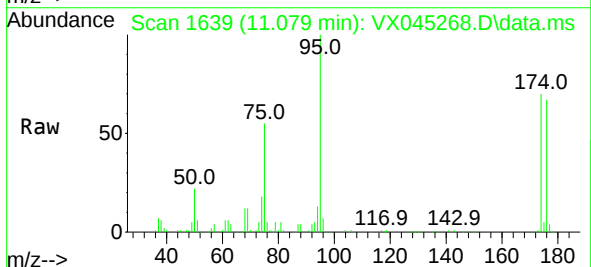
Instrument :
MSVOA_X
ClientSampleId :
RE115D1-20250310

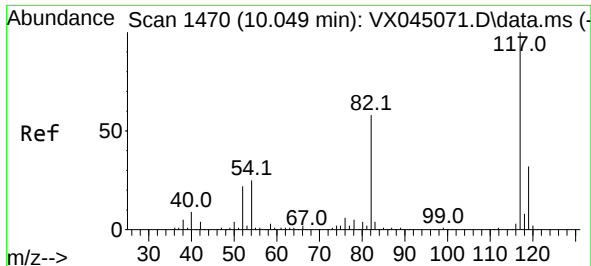
Tgt Ion:129 Resp: 248
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.5#



#62
4-Bromofluorobenzene
Concen: 53.492 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045268.D
Acq: 13 Mar 2025 14:47

Tgt Ion: 95 Resp: 58569
Ion Ratio Lower Upper
95 100
174 71.9 0.0 148.2
176 69.4 0.0 141.4

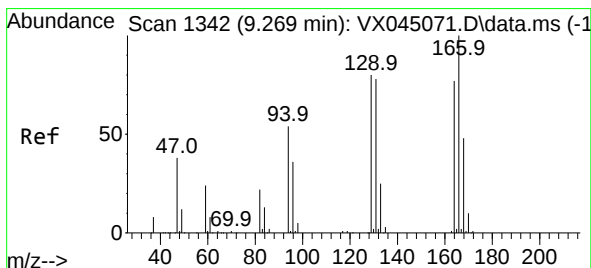
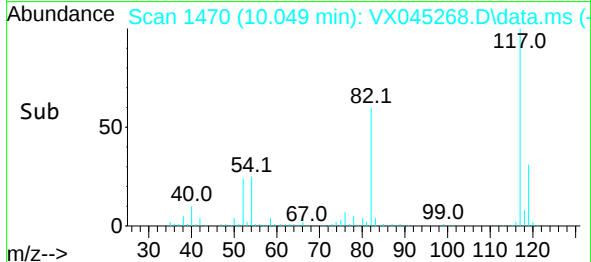
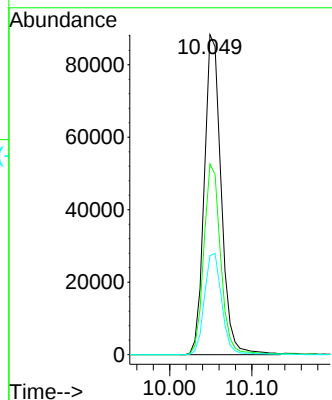
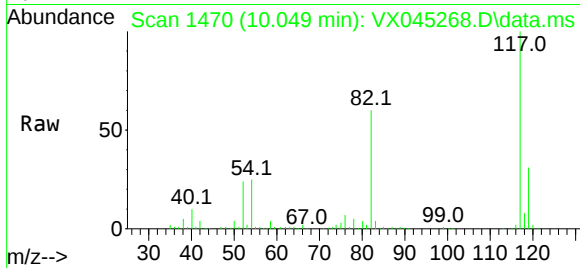




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX045268.D
Acq: 13 Mar 2025 14:47

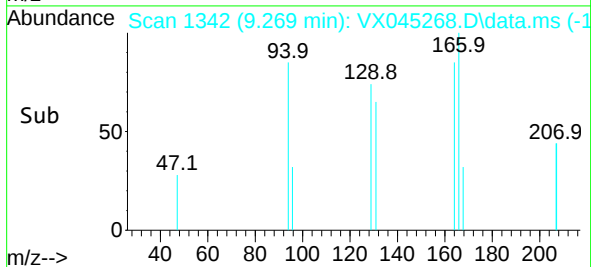
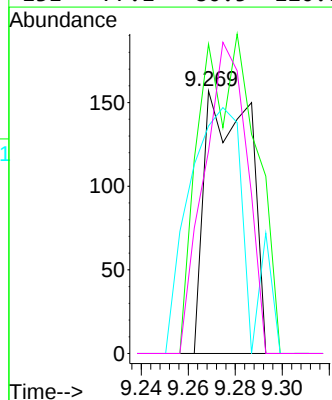
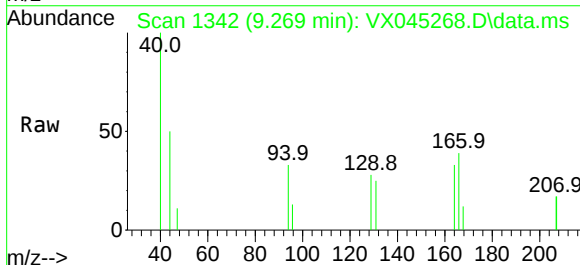
Instrument :
MSVOA_X
ClientSampleId :
RE115D1-20250310

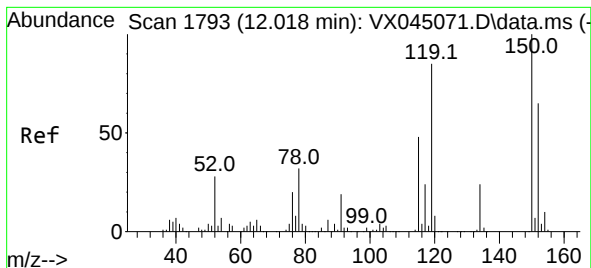
Tgt Ion:117 Resp: 126125
Ion Ratio Lower Upper
117 100
82 59.5 46.3 69.5
119 30.9 25.7 38.5



#64
Tetrachloroethene
Concen: 0.260 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX045268.D
Acq: 13 Mar 2025 14:47

Tgt Ion:164 Resp: 210
Ion Ratio Lower Upper
164 100
166 117.8 103.6 155.4
129 86.6 82.7 124.1
131 77.1 80.5 120.7#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX045268.D

Acq: 13 Mar 2025 14:47

Instrument :

MSVOA_X

ClientSampleId :

RE115D1-20250310

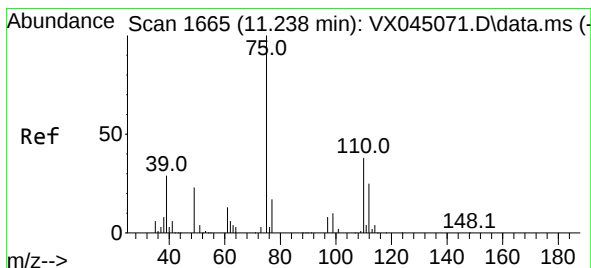
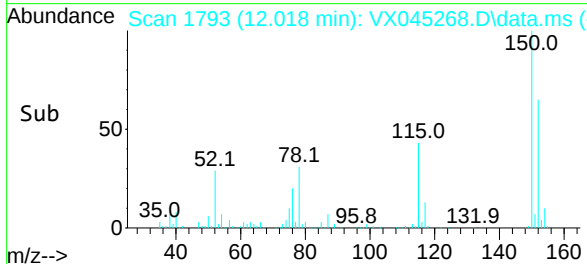
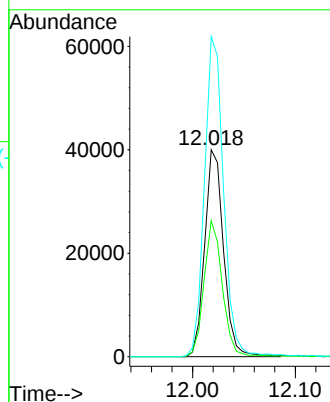
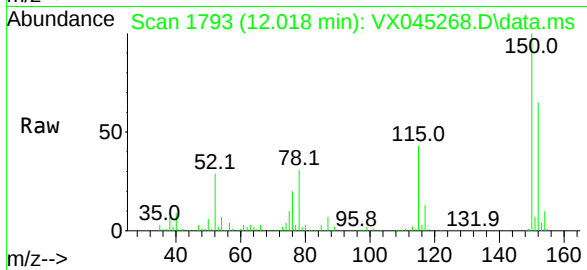
Tgt Ion:152 Resp: 51157

Ion Ratio Lower Upper

152 100

115 64.3 44.2 132.6

150 157.8 0.0 349.0



#76

1,2,3-Trichloropropane

Concen: 27.113 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX045268.D

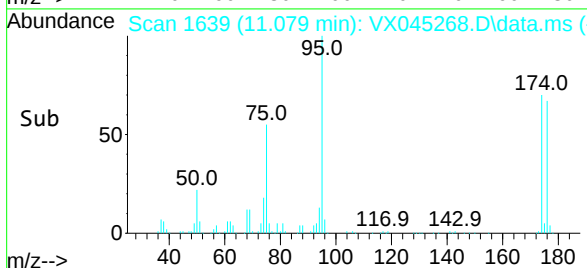
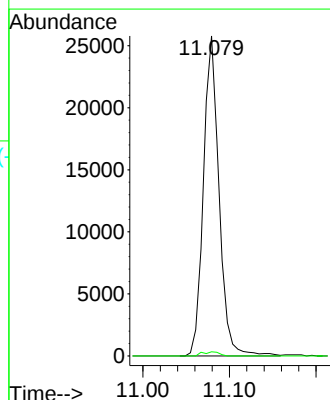
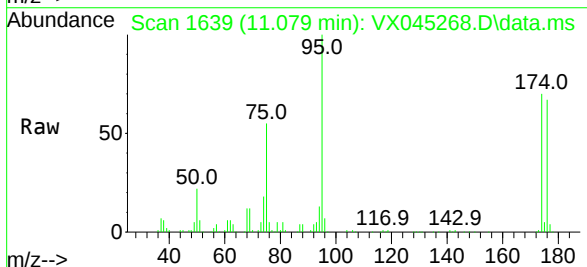
Acq: 13 Mar 2025 14:47

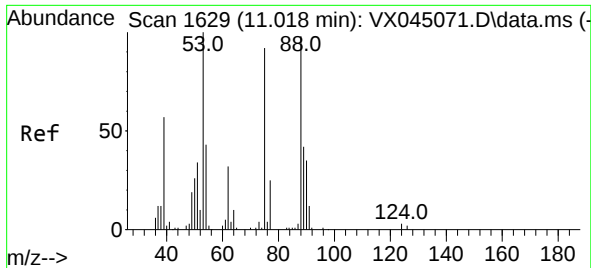
Tgt Ion: 75 Resp: 32283

Ion Ratio Lower Upper

75 100

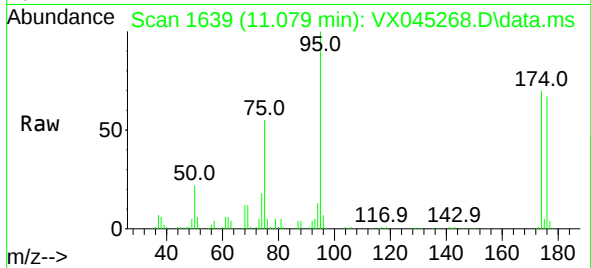
77 1.4 20.7 62.1#





#81
trans-1,4-Dichloro-2-butene
Concen: 92.786 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX045268.D
Acq: 13 Mar 2025 14:47

Instrument :
MSVOA_X
ClientSampleId :
RE115D1-20250310



Tgt Ion: 75 Resp: 32283
Ion Ratio Lower Upper
75 100
53 0.0 88.5 132.7#
89 0.0 36.2 54.4#

