

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100225\
 Data File : VX047974.D
 Acq On : 02 Oct 2025 17:15
 Operator : JC/MD
 Sample : Q3194-14
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE139D1-20250924

Quant Time: Oct 03 03:34:08 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 2025
 Response via : Initial Calibration

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

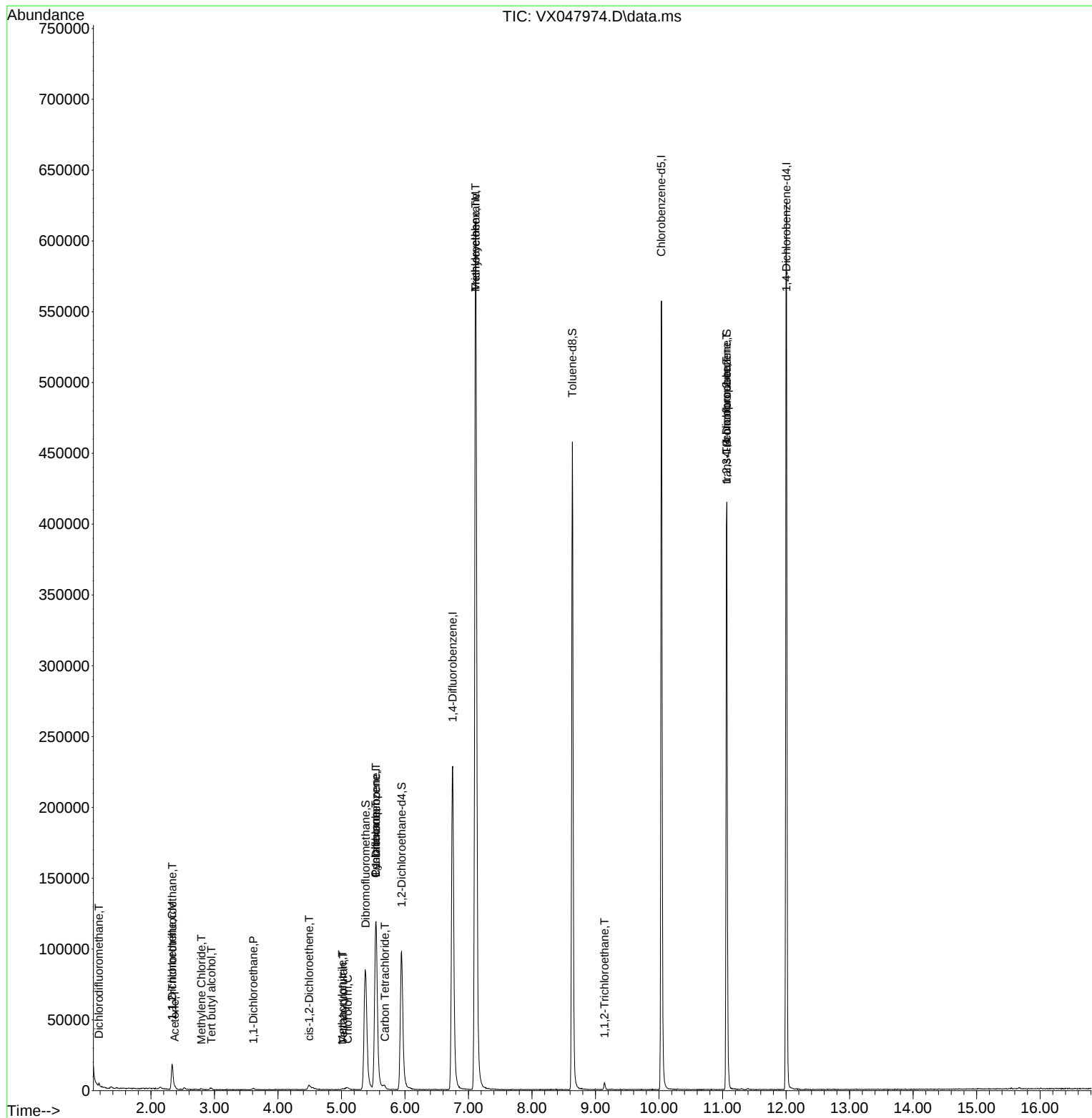
Internal Standards						
1) Pentafluorobenzene	5.544	168	119700	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	247669	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	257419	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	133075	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	105972	55.619	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	111.240%
35) Dibromofluoromethane	5.379	113	84612	50.940	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	101.880%
50) Toluene-d8	8.634	98	280277	48.766	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	97.540%
62) 4-Bromofluorobenzene	11.067	95	122056	55.957	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	111.920%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.179	85	309	0.249	ug/l #	43
9) 1,1,2-Trichlorotrifluo...	2.337	101	4927	3.559	ug/l	98
11) Tert butyl alcohol	2.953	59	505	2.380	ug/l #	72
12) 1,1-Dichloroethene	2.331	96	2964	2.084	ug/l	90
16) Acetone	2.373	43	1662	2.006	ug/l #	83
20) Methylene Chloride	2.794	84	387	0.221	ug/l #	54
24) 1,1-Dichloroethane	3.611	63	1394	0.461	ug/l #	81
27) cis-1,2-Dichloroethene	4.489	96	2194	1.170	ug/l	95
29) Tetrahydrofuran	5.025	42	773	1.243	ug/l #	53
30) Chloroform	5.099	83	1993	0.652	ug/l #	59
31) Cyclohexane	5.537	56	2636	1.047	ug/l #	1
36) 1,1-Dichloropropene	5.544	75	10809	4.453	ug/l #	50
38) Carbon Tetrachloride	5.684	117	2335	0.885	ug/l #	67
39) Methylcyclohexane	7.110	83	1947	0.707	ug/l #	1
41) Methacrylonitrile	5.013	41	296	0.221	ug/l #	20
44) Trichloroethene	7.110	130	254436	142.763	ug/l	96
55) 1,1,2-Trichloroethane	9.140	97	1411	0.806	ug/l #	86
76) 1,2,3-Trichloropropane	11.061	75	64197	23.826	ug/l #	39
81) trans-1,4-Dichloro-2-b...	11.061	75	64197	60.761	ug/l #	8

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

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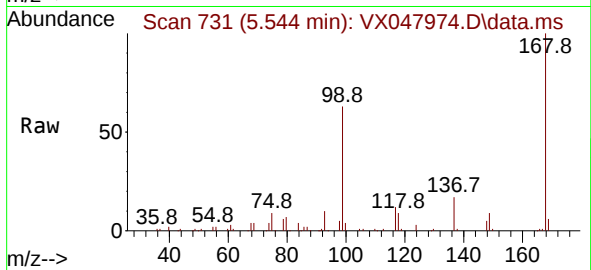
Quant Time: Oct 03 03:34:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
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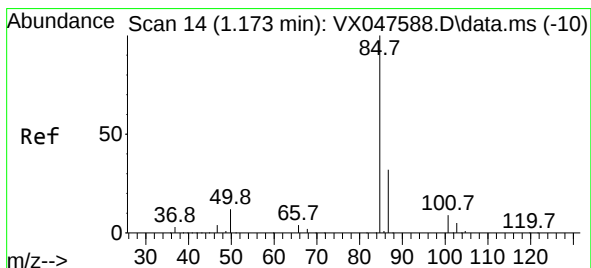
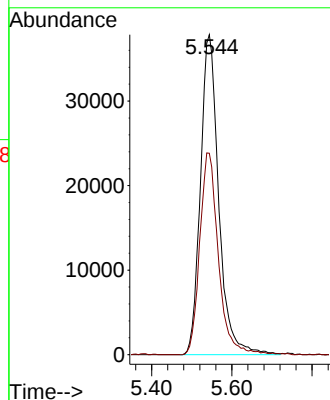
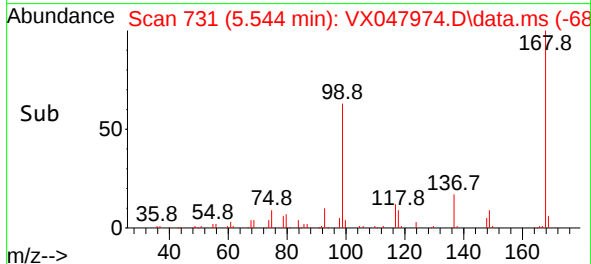


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX047974.D
Acq: 02 Oct 2025 17:15

Instrument :
MSVOA_X
ClientSampleId :
RE139D1-20250924

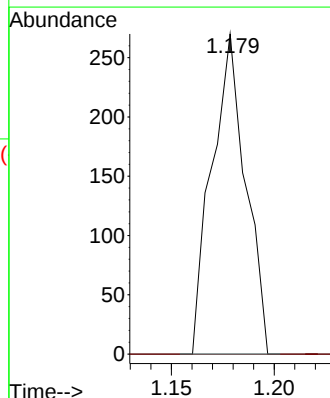
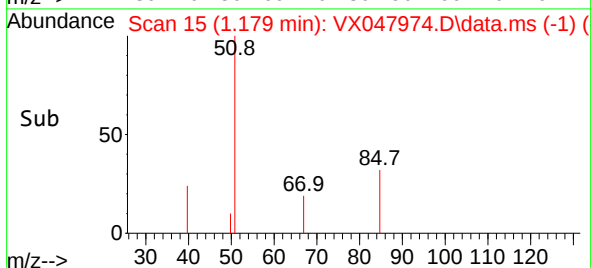
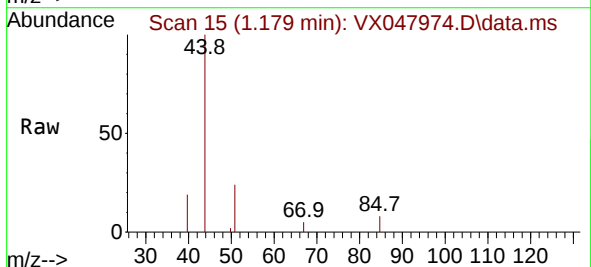


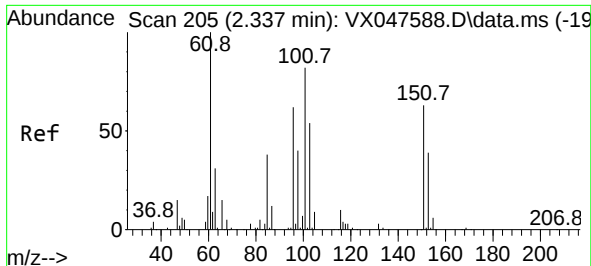
Tgt Ion:168 Resp: 119700
Ion Ratio Lower Upper
168 100
99 63.0 48.8 73.2



#2
Dichlorodifluoromethane
Concen: 0.249 ug/l
RT: 1.179 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX047974.D
Acq: 02 Oct 2025 17:15

Tgt Ion: 85 Resp: 309
Ion Ratio Lower Upper
85 100
87 0.0 15.8 47.3#

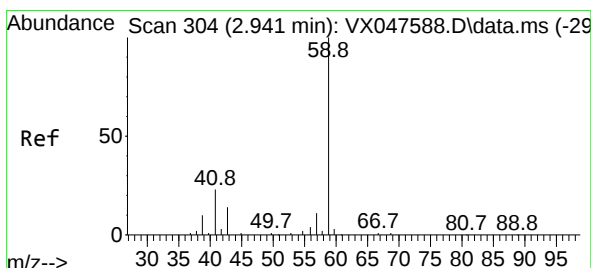
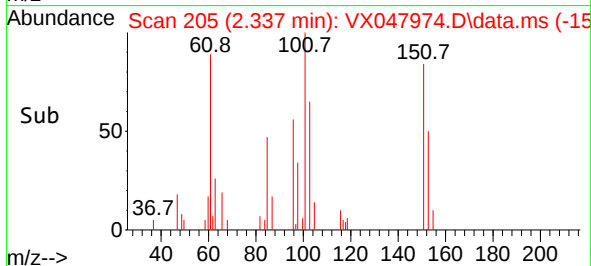
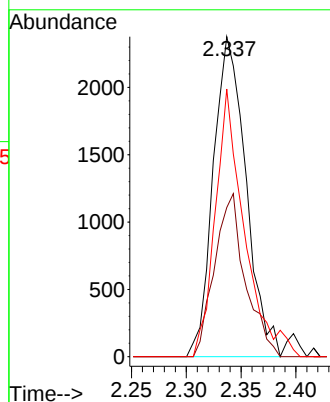
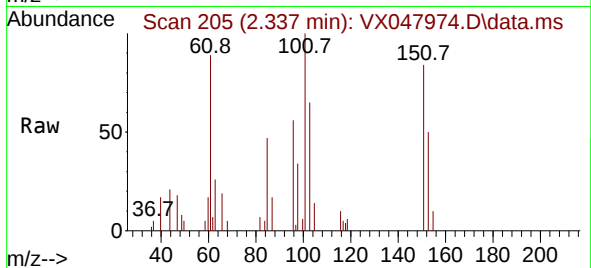




#9
1,1,2-Trichlorotrifluoroethane
Concen: 3.559 ug/l
RT: 2.337 min Scan# 205
Delta R.T. -0.000 min
Lab File: VX047974.D
Acq: 02 Oct 2025 17:15

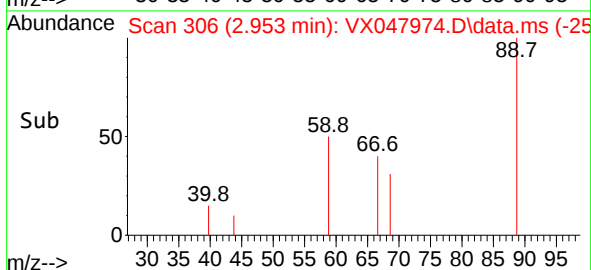
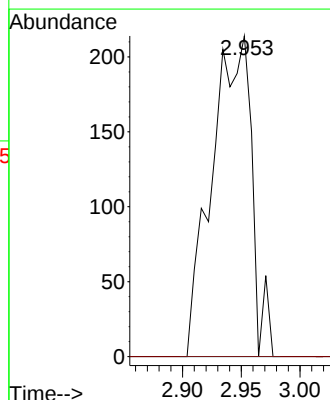
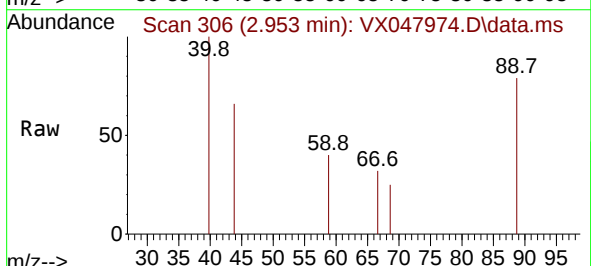
Instrument :
MSVOA_X
ClientSampleId :
RE139D1-20250924

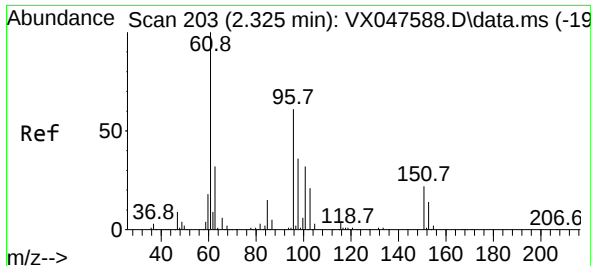
Tgt Ion:	101	Resp:	4927
Ion	Ratio	Lower	Upper
101	100		
85	48.0	35.5	53.3
151	74.5	59.4	89.0



#11
Tert butyl alcohol
Concen: 2.380 ug/l
RT: 2.953 min Scan# 306
Delta R.T. 0.012 min
Lab File: VX047974.D
Acq: 02 Oct 2025 17:15

Tgt Ion:	59	Resp:	505
Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.3	12.5





#12

1,1-Dichloroethene

Concen: 2.084 ug/l

RT: 2.331 min Scan# 203

Delta R.T. 0.006 min

Lab File: VX047974.D

Acq: 02 Oct 2025 17:15

Instrument :

MSVOA_X

ClientSampleId :

RE139D1-20250924

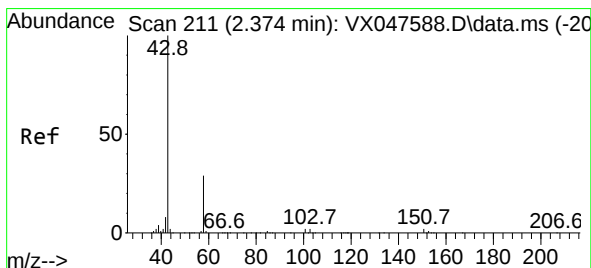
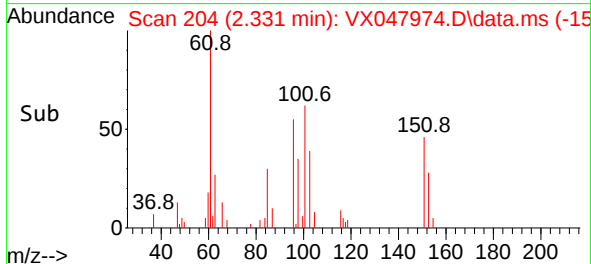
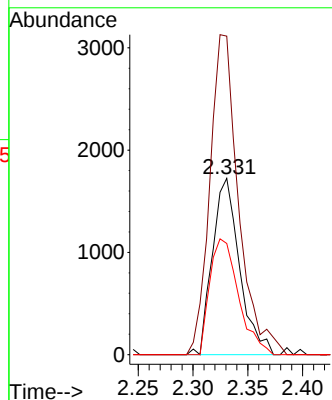
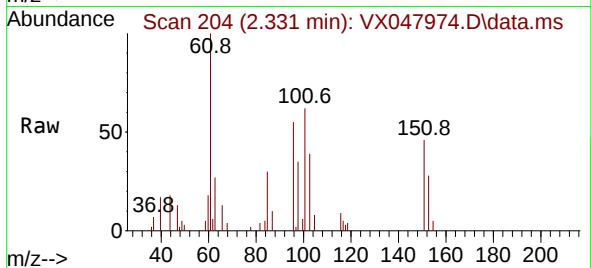
Tgt Ion: 96 Resp: 2964

Ion Ratio Lower Upper

96 100

61 180.7 131.0 196.6

98 63.1 47.7 71.5



#16

Acetone

Concen: 2.006 ug/l

RT: 2.373 min Scan# 211

Delta R.T. -0.000 min

Lab File: VX047974.D

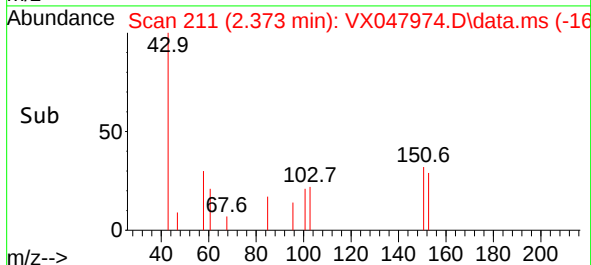
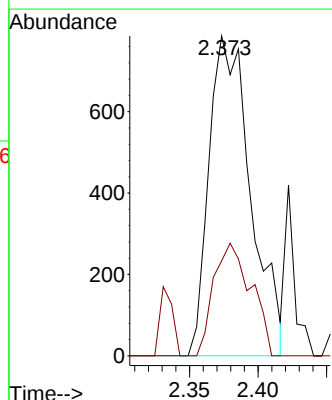
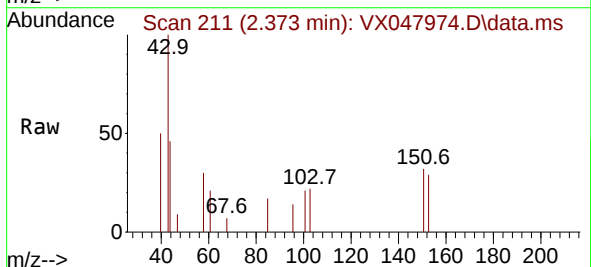
Acq: 02 Oct 2025 17:15

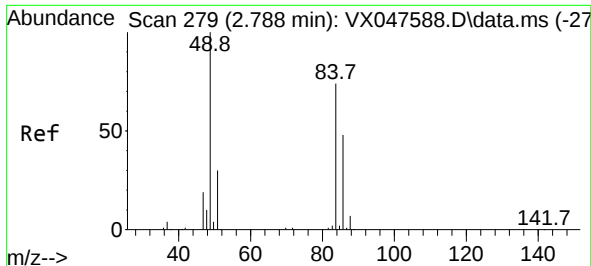
Tgt Ion: 43 Resp: 1662

Ion Ratio Lower Upper

43 100

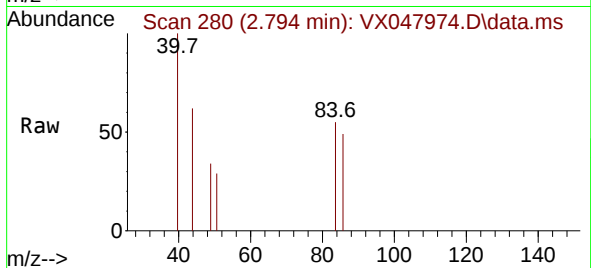
58 20.3 23.4 35.0#



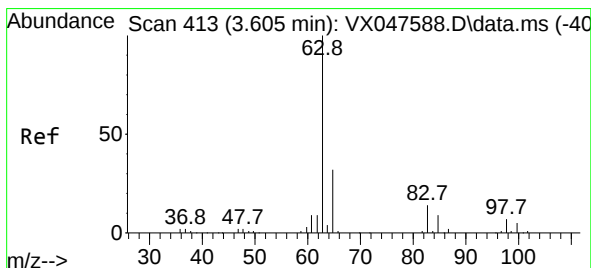
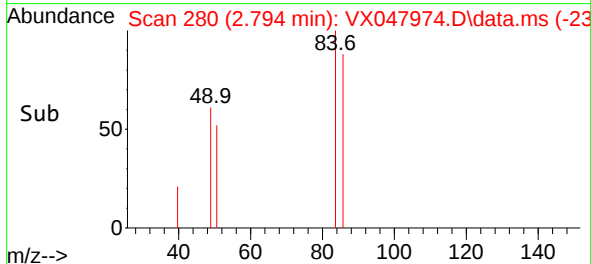
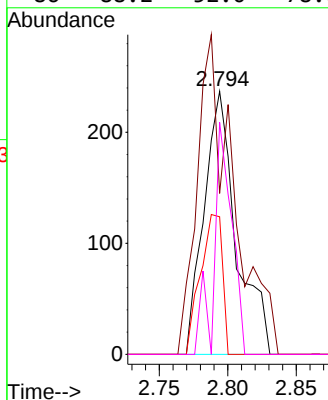


#20
Methylene Chloride
Concen: 0.221 ug/l
RT: 2.794 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX047974.D
Acq: 02 Oct 2025 17:15

Instrument :
MSVOA_X
ClientSampleId :
RE139D1-20250924

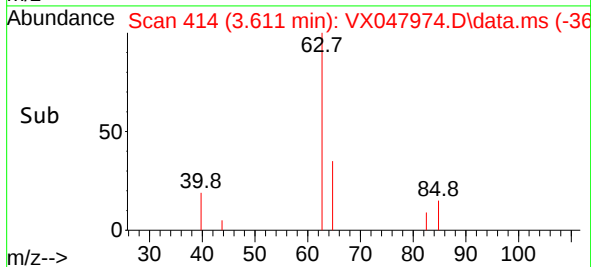
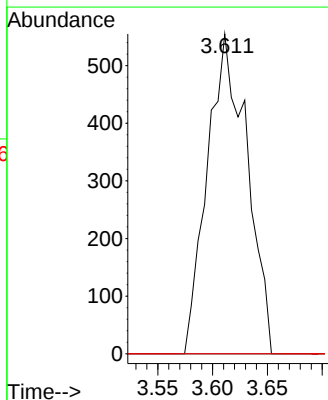
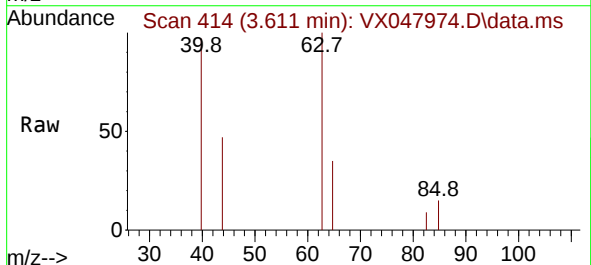


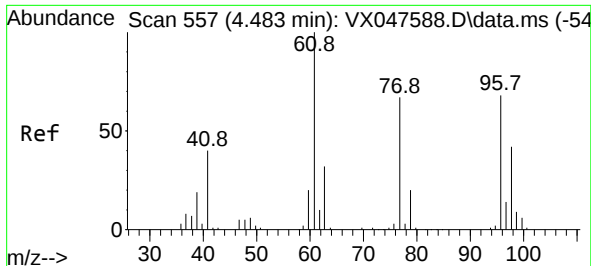
Tgt Ion:	84	Resp:	387
Ion	Ratio	Lower	Upper
84	100		
49	61.2	108.6	162.8#
51	52.3	32.6	48.8#
86	88.2	52.0	78.0#



#24
1,1-Dichloroethane
Concen: 0.461 ug/l
RT: 3.611 min Scan# 414
Delta R.T. 0.006 min
Lab File: VX047974.D
Acq: 02 Oct 2025 17:15

Tgt Ion:	63	Resp:	1394
Ion	Ratio	Lower	Upper
63	100		
98	0.0	3.8	11.2#
100	0.0	2.3	6.9#





#27

cis-1,2-Dichloroethene

Concen: 1.170 ug/l

RT: 4.489 min Scan# 51

Delta R.T. 0.006 min

Lab File: VX047974.D

Acq: 02 Oct 2025 17:15

Instrument :

MSVOA_X

ClientSampleId :

RE139D1-20250924

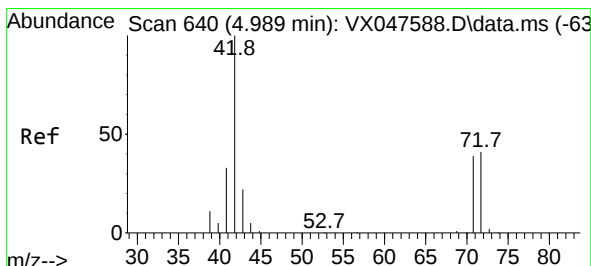
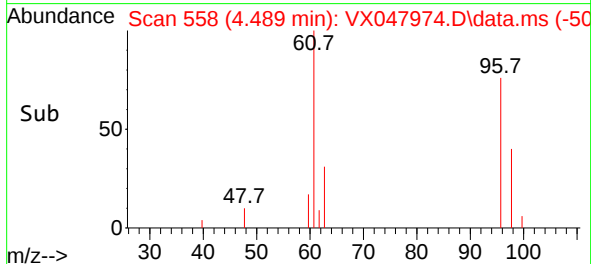
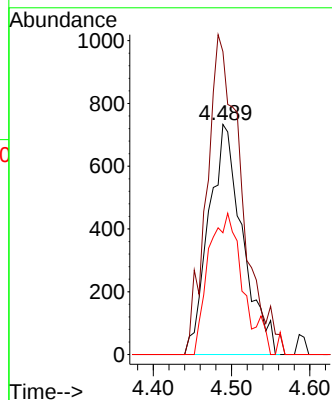
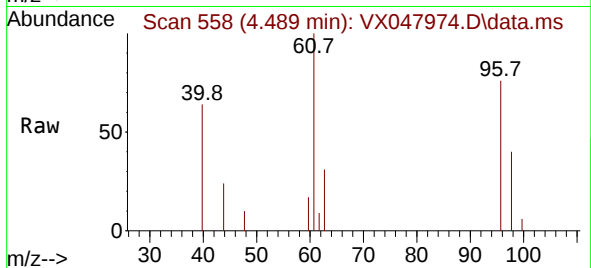
Tgt Ion: 96 Resp: 2194

Ion Ratio Lower Upper

96 100

61 142.8 0.0 303.2

98 62.7 0.0 127.8



#29

Tetrahydrofuran

Concen: 1.243 ug/l

RT: 5.025 min Scan# 646

Delta R.T. 0.036 min

Lab File: VX047974.D

Acq: 02 Oct 2025 17:15

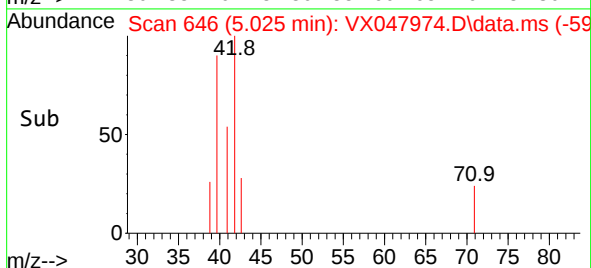
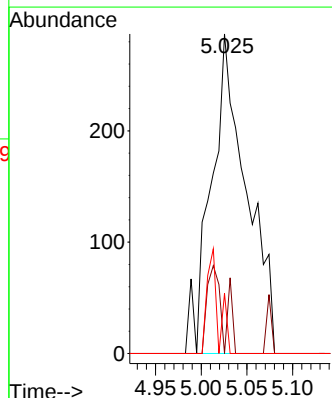
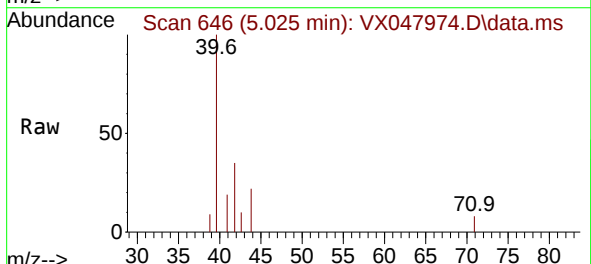
Tgt Ion: 42 Resp: 773

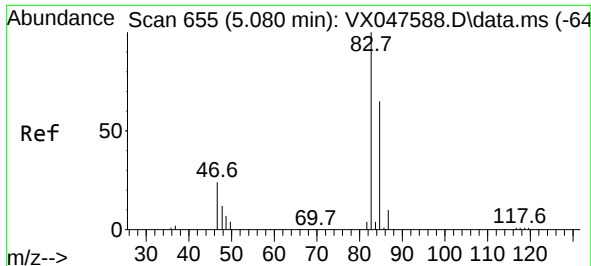
Ion Ratio Lower Upper

42 100

72 12.8 34.2 51.2#

71 10.3 31.9 47.9#





#30

Chloroform

Concen: 0.652 ug/l

RT: 5.099 min Scan# 61

Delta R.T. 0.018 min

Lab File: VX047974.D

Acq: 02 Oct 2025 17:15

Instrument :

MSVOA_X

ClientSampleId :

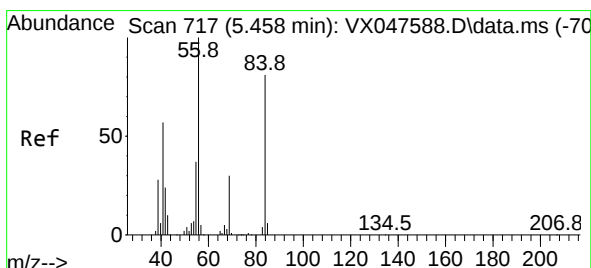
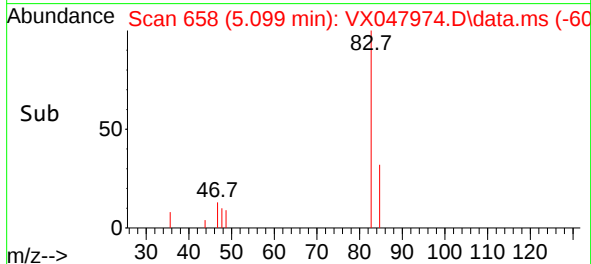
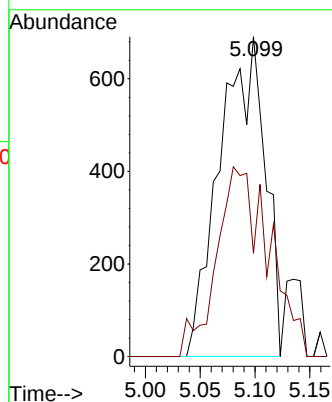
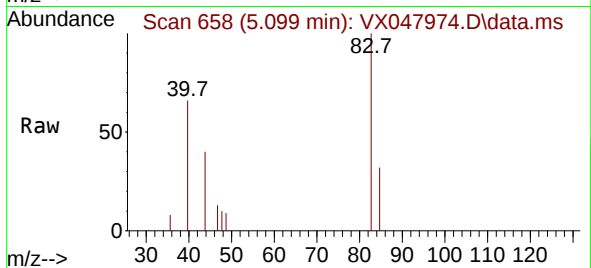
RE139D1-20250924

Tgt Ion: 83 Resp: 1993

Ion Ratio Lower Upper

83 100

85 32.3 51.8 77.6#



#31

Cyclohexane

Concen: 1.047 ug/l

RT: 5.537 min Scan# 730

Delta R.T. 0.079 min

Lab File: VX047974.D

Acq: 02 Oct 2025 17:15

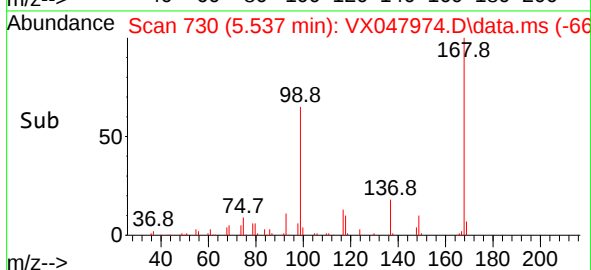
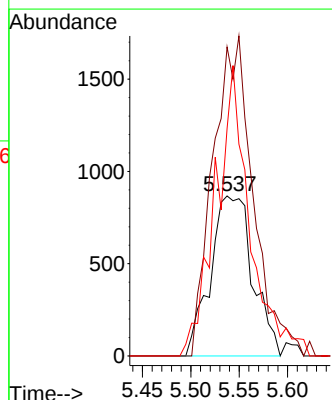
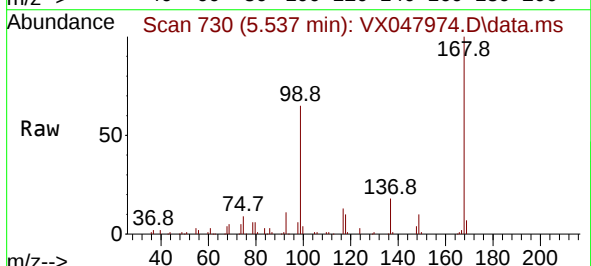
Tgt Ion: 56 Resp: 2636

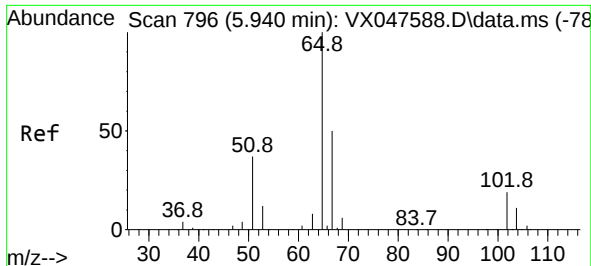
Ion Ratio Lower Upper

56 100

69 193.1 23.8 35.8#

84 142.1 64.6 97.0#





#33

1,2-Dichloroethane-d4

Concen: 55.619 ug/l

RT: 5.946 min Scan# 796

Delta R.T. 0.006 min

Lab File: VX047974.D

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ClientSampleId :

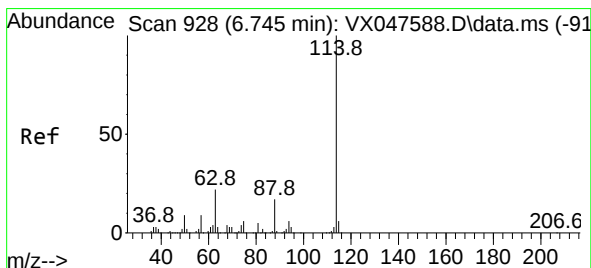
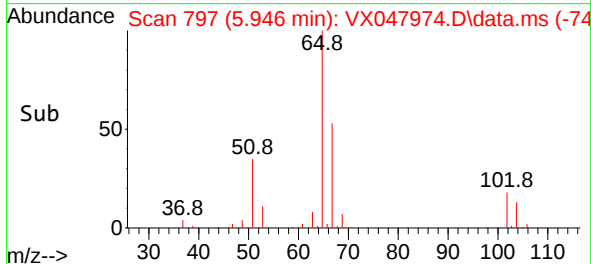
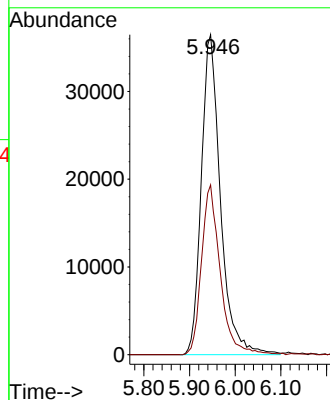
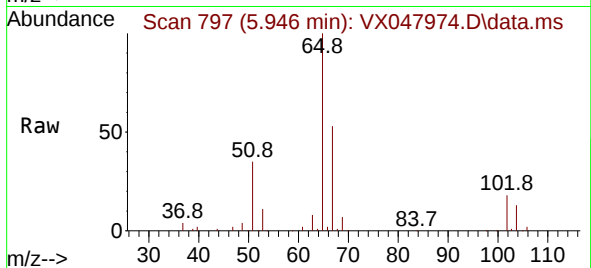
RE139D1-20250924

Tgt Ion: 65 Resp: 105972

Ion Ratio Lower Upper

65 100

67 52.1 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.751 min Scan# 929

Delta R.T. 0.006 min

Lab File: VX047974.D

Acq: 02 Oct 2025 17:15

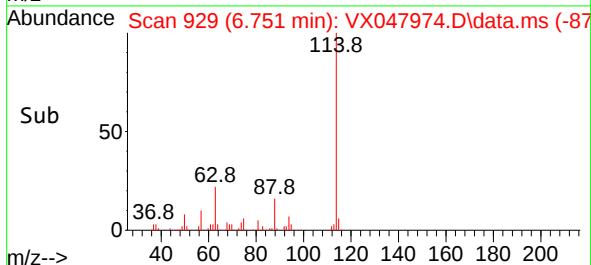
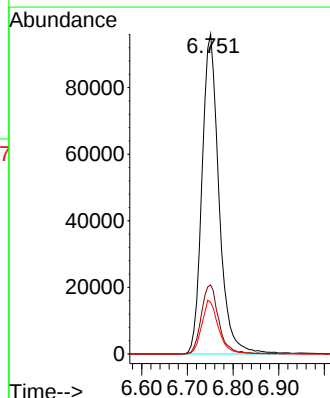
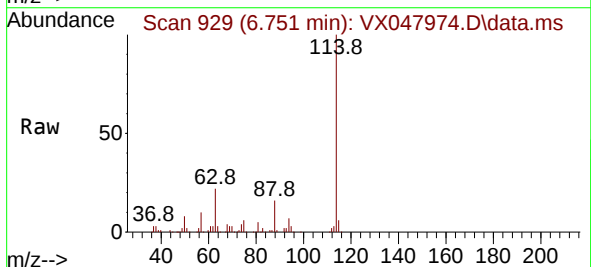
Tgt Ion: 114 Resp: 247669

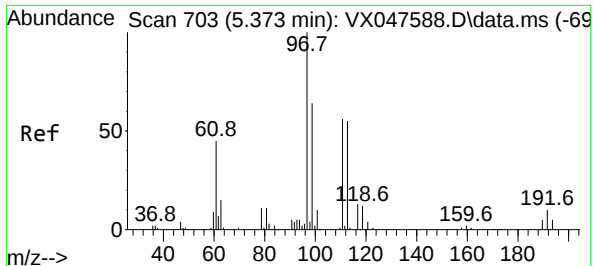
Ion Ratio Lower Upper

114 100

63 21.6 0.0 44.0

88 16.2 0.0 34.2

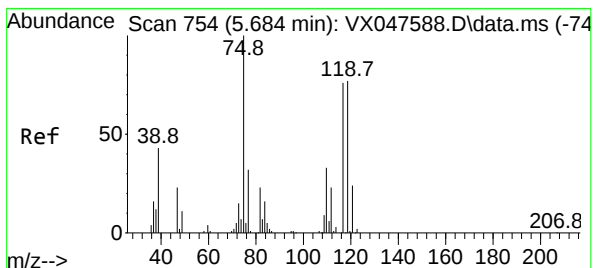
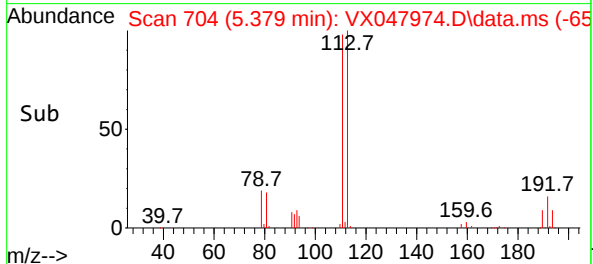
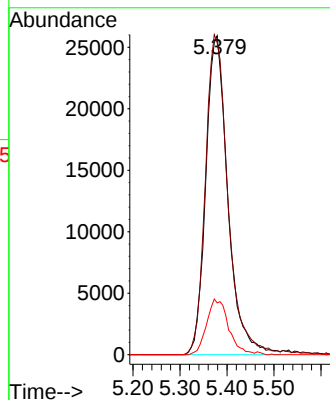
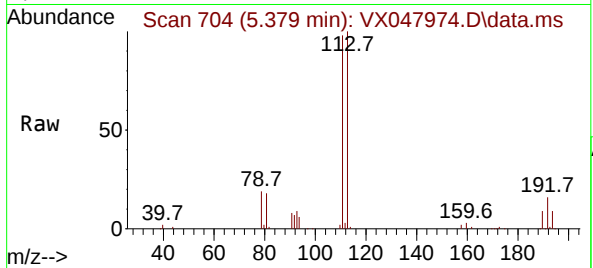




#35
Dibromofluoromethane
Concen: 50.940 ug/l
RT: 5.379 min Scan# 703
Delta R.T. 0.006 min
Lab File: VX047974.D
Acq: 02 Oct 2025 17:15

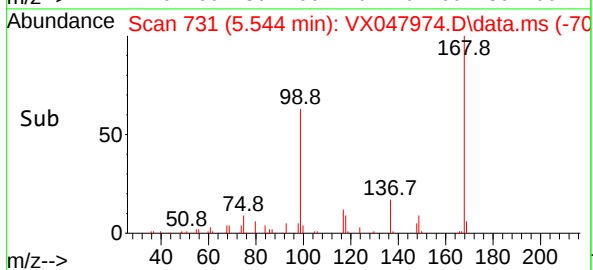
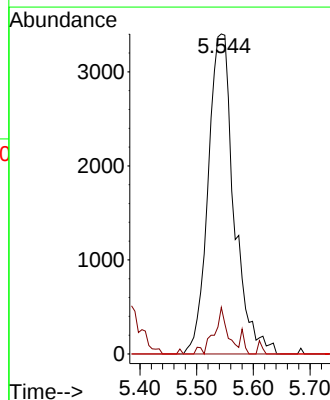
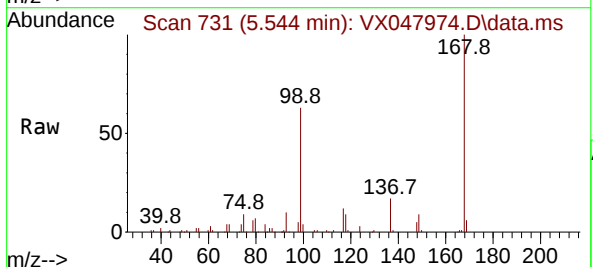
Instrument :
MSVOA_X
ClientSampleId :
RE139D1-20250924

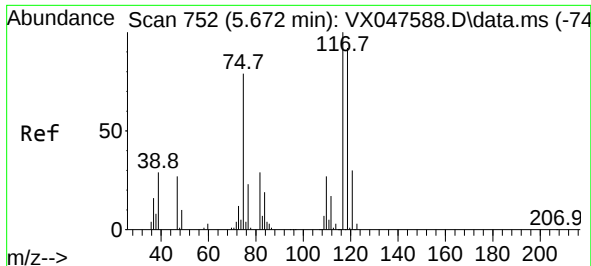
Tgt Ion:113 Resp: 84612
Ion Ratio Lower Upper
113 100
111 102.2 80.9 121.3
192 17.2 14.2 21.4



#36
1,1-Dichloropropene
Concen: 4.453 ug/l
RT: 5.544 min Scan# 731
Delta R.T. -0.140 min
Lab File: VX047974.D
Acq: 02 Oct 2025 17:15

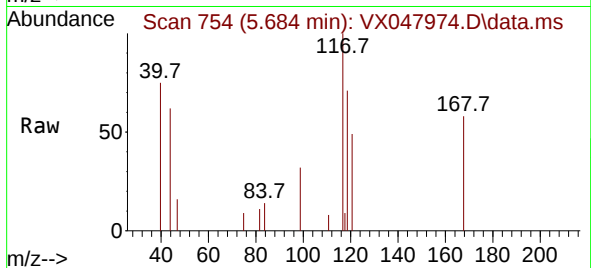
Tgt Ion: 75 Resp: 10809
Ion Ratio Lower Upper
75 100
110 7.7 16.7 50.1#
77 0.0 24.3 36.5#



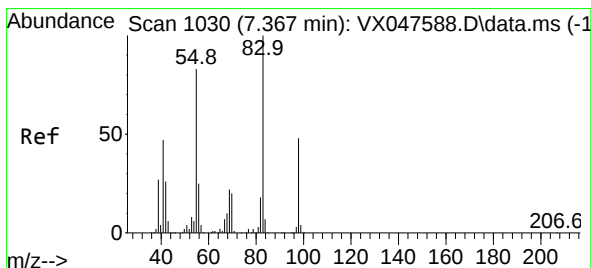
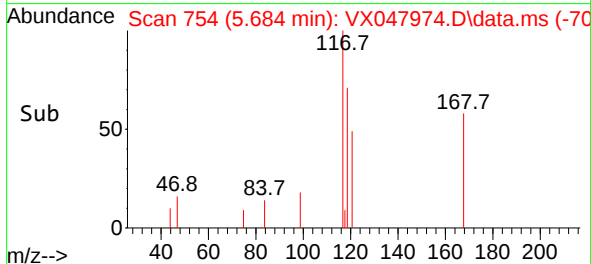
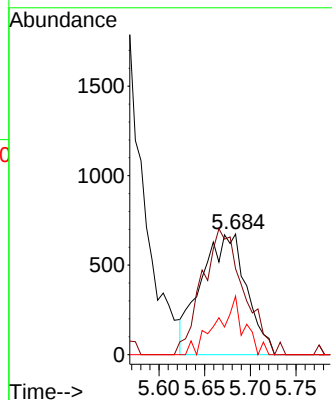


#38
Carbon Tetrachloride
Concen: 0.885 ug/l
RT: 5.684 min Scan# 71
Delta R.T. 0.012 min
Lab File: VX047974.D
Acq: 02 Oct 2025 17:15

Instrument :
MSVOA_X
ClientSampleId :
RE139D1-20250924

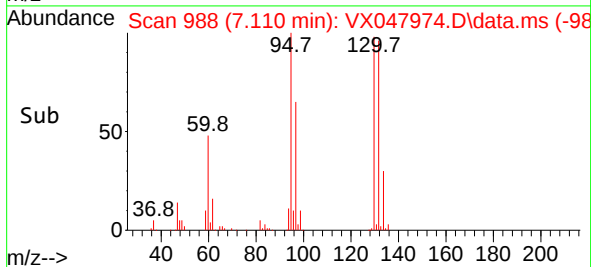
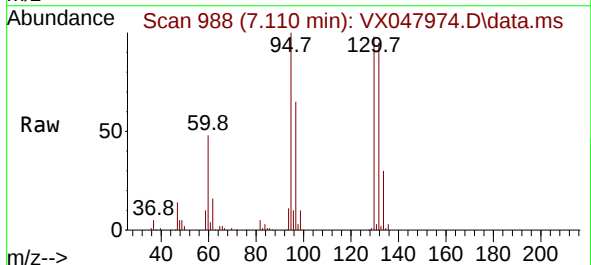
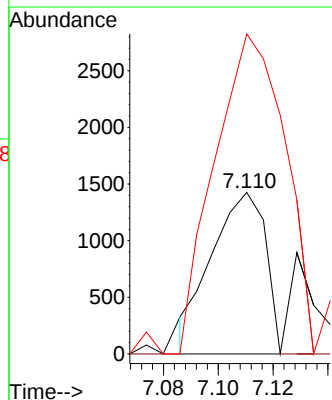


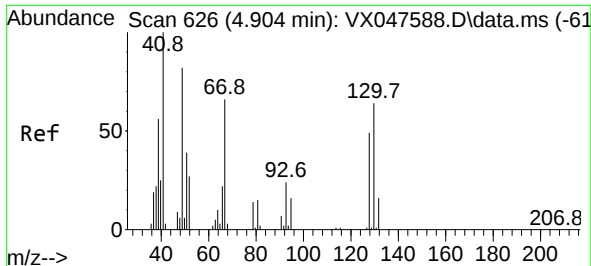
Tgt Ion:117 Resp: 2335
Ion Ratio Lower Upper
117 100
119 61.0 73.4 110.2#
121 48.5 23.8 35.6#



#39
Methylcyclohexane
Concen: 0.707 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.256 min
Lab File: VX047974.D
Acq: 02 Oct 2025 17:15

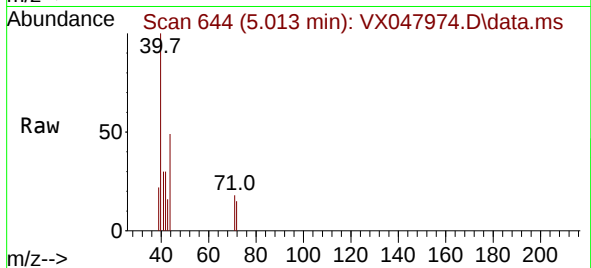
Tgt Ion: 83 Resp: 1947
Ion Ratio Lower Upper
83 100
55 0.0 66.4 99.6#
98 315.7 38.1 57.1#



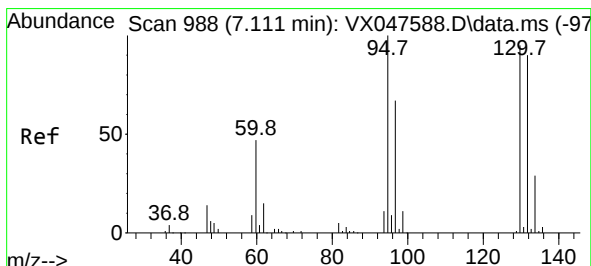
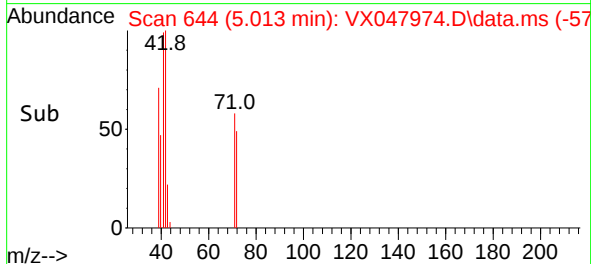
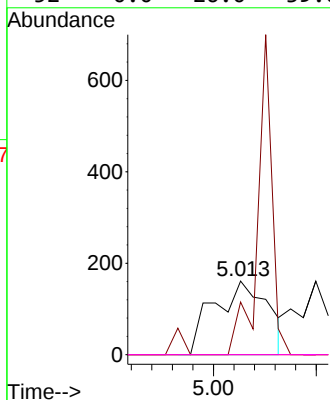


#41
Methacrylonitrile
Concen: 0.221 ug/l
RT: 5.013 min Scan# 644
Delta R.T. 0.110 min
Lab File: VX047974.D
Acq: 02 Oct 2025 17:15

Instrument :
MSVOA_X
ClientSampleId :
RE139D1-20250924

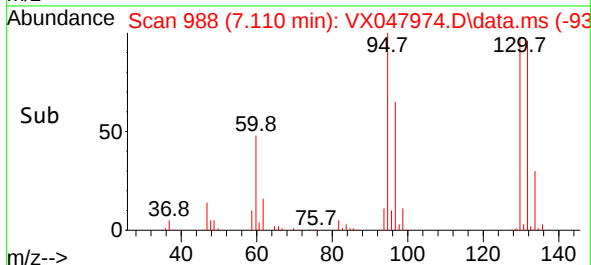
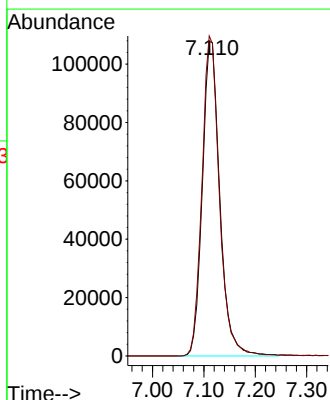
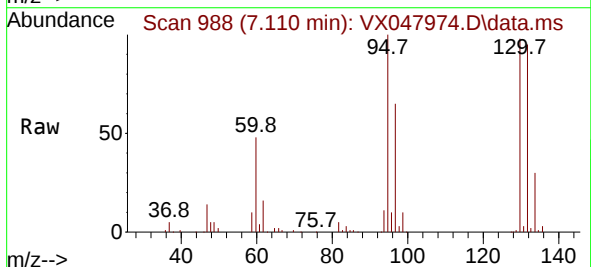


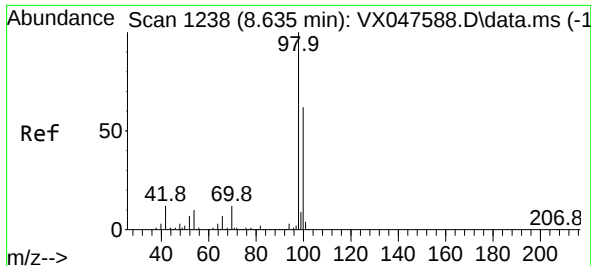
Tgt Ion:	41	Resp:	296
Ion	Ratio	Lower	Upper
41	100		
39	114.9	43.3	64.9#
67	0.0	58.6	87.8#
52	0.0	26.0	39.0#



#44
Trichloroethene
Concen: 142.763 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047974.D
Acq: 02 Oct 2025 17:15

Tgt Ion:	130	Resp:	254436
Ion	Ratio	Lower	Upper
130	100		
95	101.7	0.0	210.8

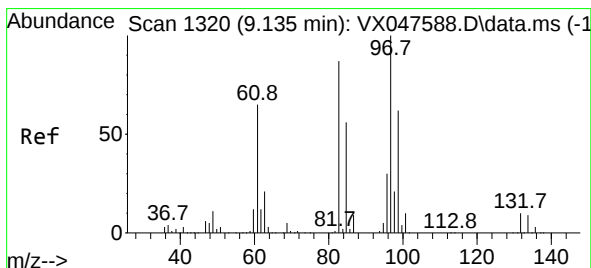
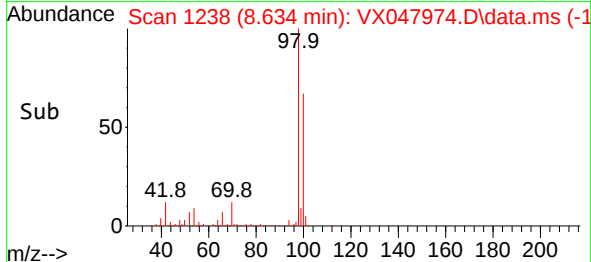
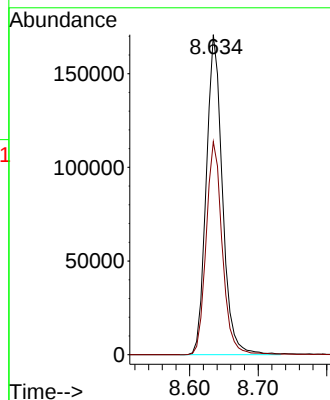
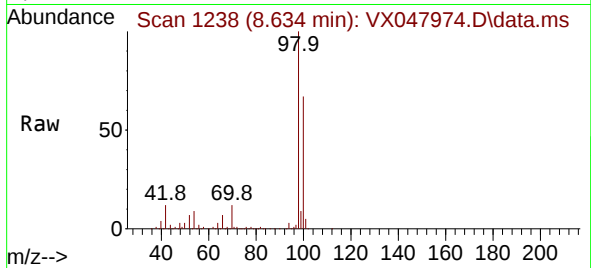




#50
Toluene-d8
Concen: 48.766 ug/l
RT: 8.634 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX047974.D
Acq: 02 Oct 2025 17:15

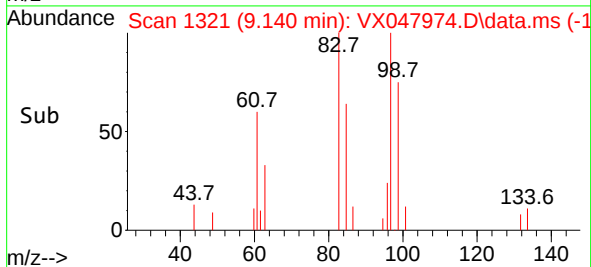
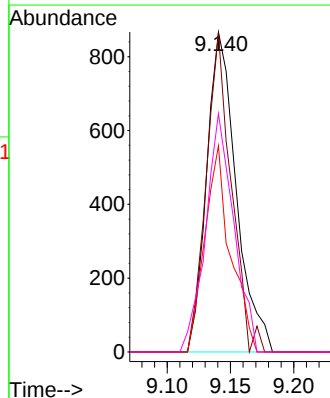
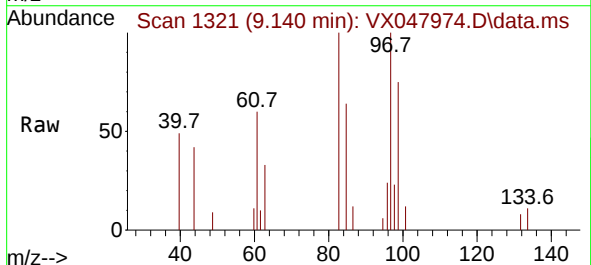
Instrument :
MSVOA_X
ClientSampleId :
RE139D1-20250924

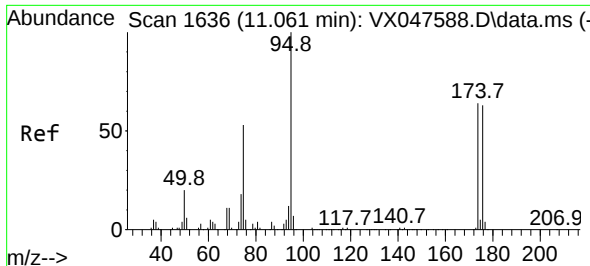
Tgt Ion: 98 Resp: 280277
Ion Ratio Lower Upper
98 100
100 66.6 53.0 79.4



#55
1,1,2-Trichloroethane
Concen: 0.806 ug/l
RT: 9.140 min Scan# 1321
Delta R.T. 0.006 min
Lab File: VX047974.D
Acq: 02 Oct 2025 17:15

Tgt Ion: 97 Resp: 1411
Ion Ratio Lower Upper
97 100
83 99.8 69.6 104.4
85 64.5 45.0 67.6
99 74.5 49.6 74.4#

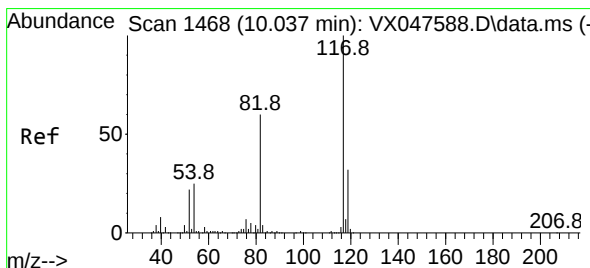
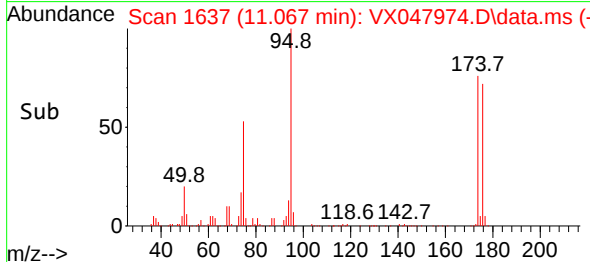
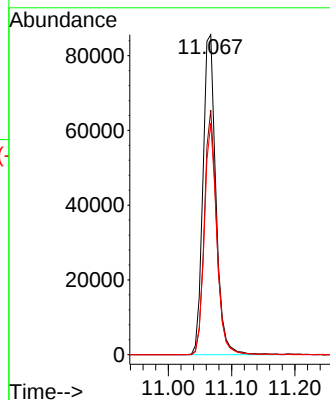
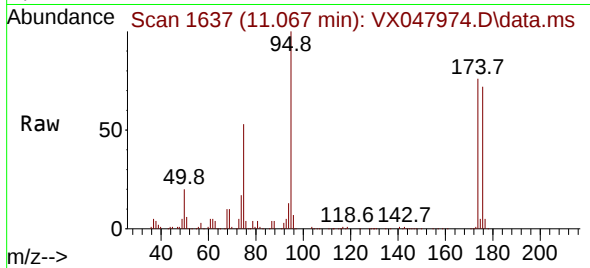




#62
4-Bromofluorobenzene
Concen: 55.957 ug/l
RT: 11.067 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047974.D
Acq: 02 Oct 2025 17:15

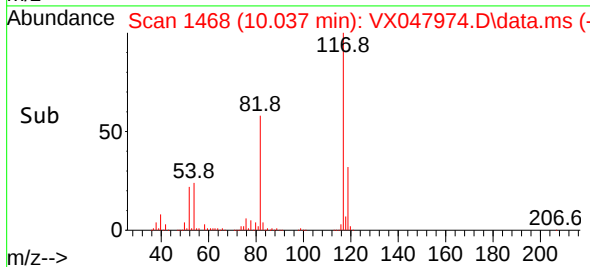
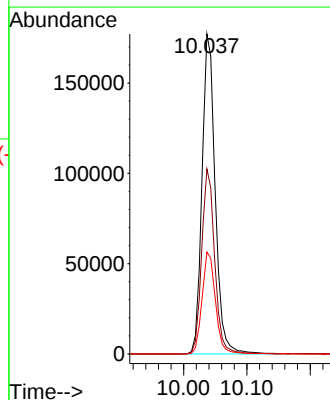
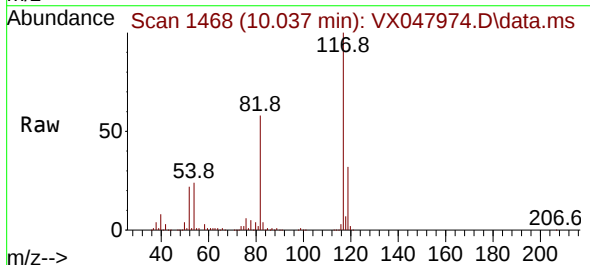
Instrument :
MSVOA_X
ClientSampleId :
RE139D1-20250924

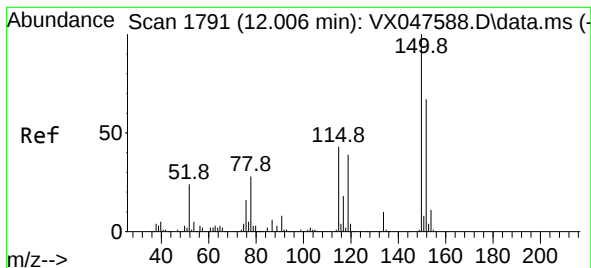
Tgt Ion: 95 Resp: 122056
Ion Ratio Lower Upper
95 100
174 72.5 0.0 141.6
176 69.4 0.0 138.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX047974.D
Acq: 02 Oct 2025 17:15

Tgt Ion: 117 Resp: 257419
Ion Ratio Lower Upper
117 100
82 57.8 47.8 71.6
119 31.8 25.2 37.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.006 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX047974.D

Acq: 02 Oct 2025 17:15

Instrument :

MSVOA_X

ClientSampleId :

RE139D1-20250924

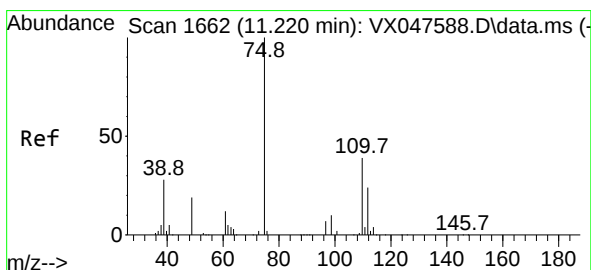
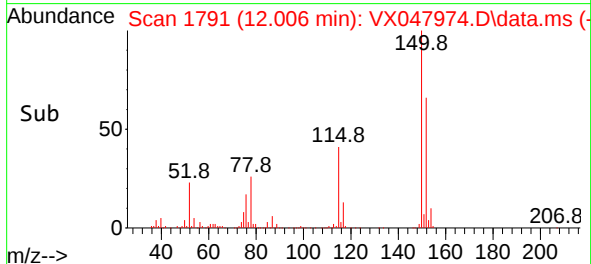
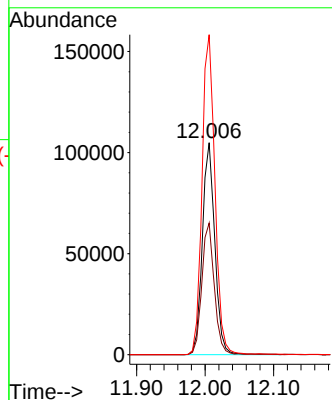
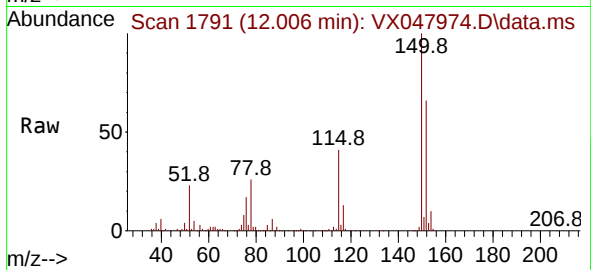
Tgt Ion:152 Resp: 133075

Ion Ratio Lower Upper

152 100

115 62.5 44.9 134.5

150 155.5 0.0 352.0



#76

1,2,3-Trichloropropane

Concen: 23.826 ug/l

RT: 11.061 min Scan# 1636

Delta R.T. -0.159 min

Lab File: VX047974.D

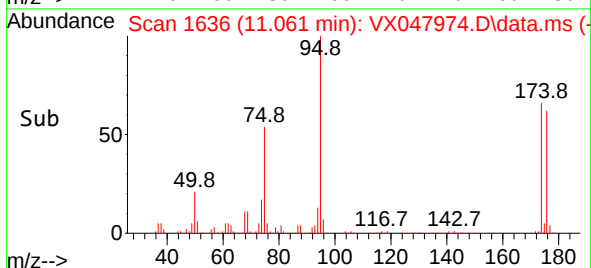
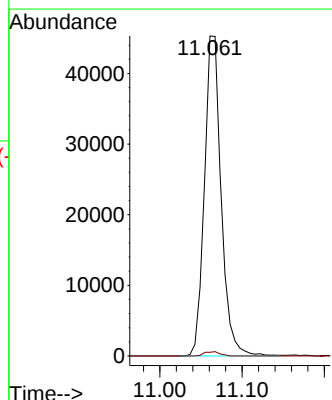
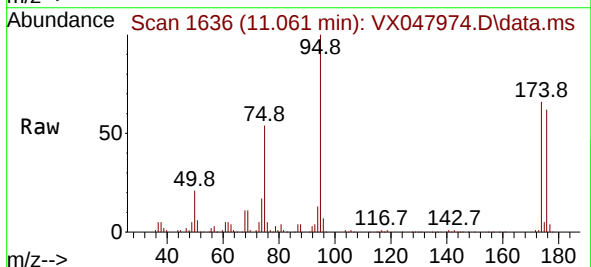
Acq: 02 Oct 2025 17:15

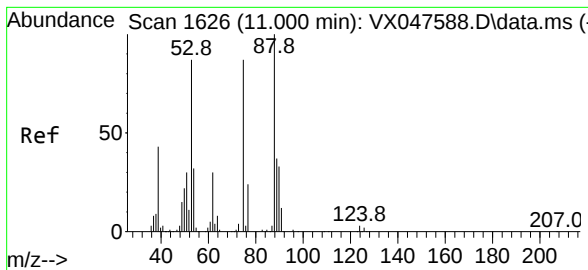
Tgt Ion: 75 Resp: 64197

Ion Ratio Lower Upper

75 100

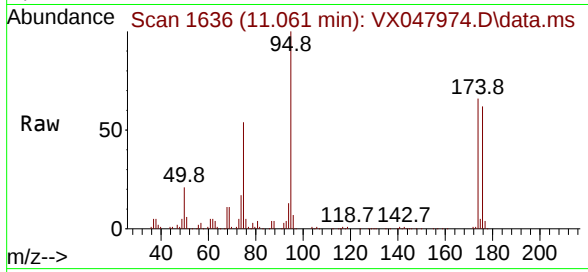
77 1.3 18.8 56.4#





#81
trans-1,4-Dichloro-2-butene
Concen: 60.761 ug/l
RT: 11.061 min Scan# 10
Delta R.T. 0.061 min
Lab File: VX047974.D
Acq: 02 Oct 2025 17:15

Instrument :
MSVOA_X
ClientSampleId :
RE139D1-20250924



Tgt Ion: 75 Resp: 64197
Ion Ratio Lower Upper
75 100
53 0.1 83.4 125.2#
89 0.0 36.3 54.5#

