

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN101323\  
 Data File : VN079568.D  
 Acq On : 13 Oct 2023 13:25  
 Operator : JC\MD  
 Sample : 04880-02DL 10X  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Oct 13 23:31:43 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N100523W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Oct 06 03:34:49 2023  
 Response via : Initial Calibration

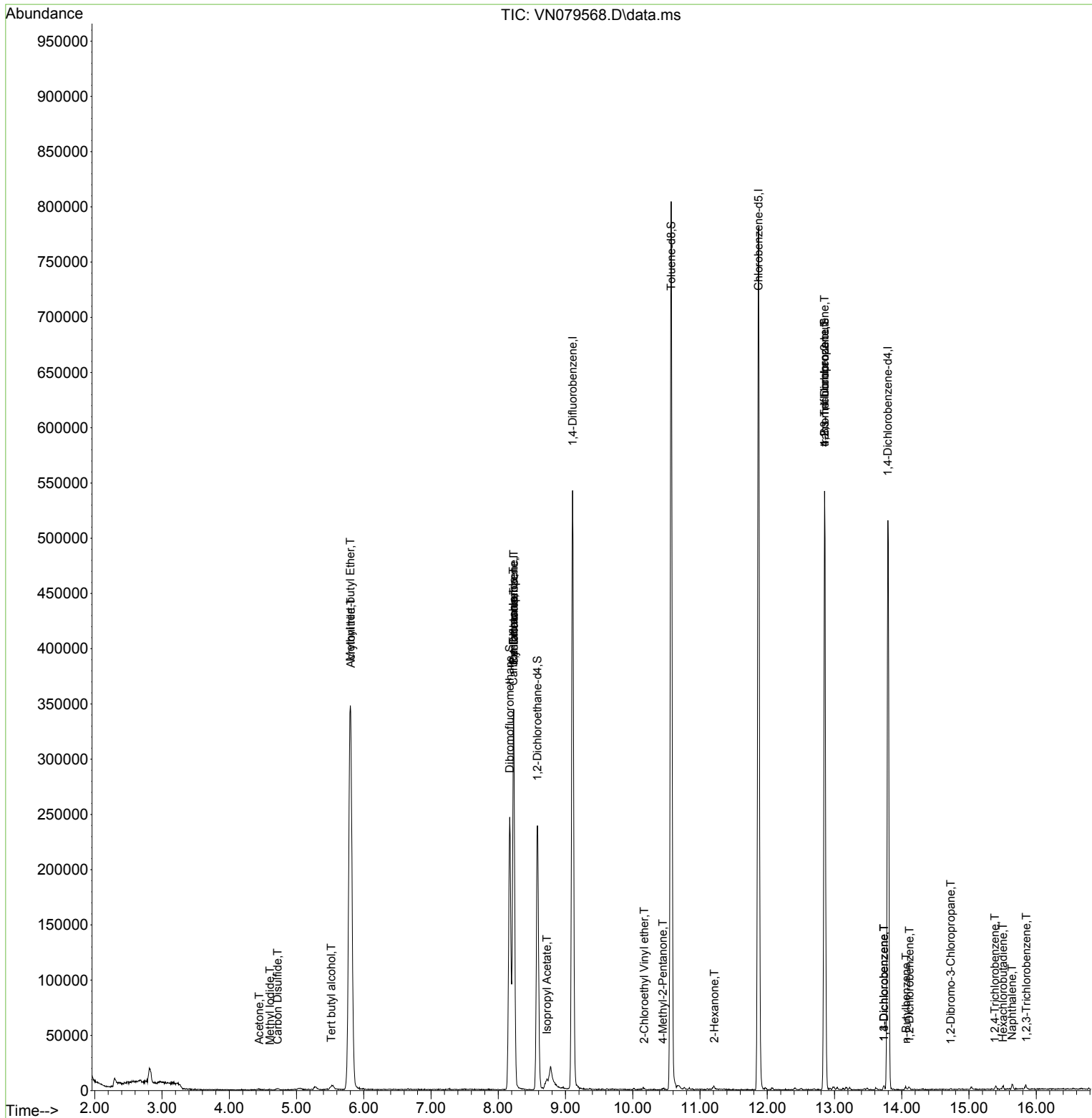
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Pentafluorobenzene	8.229	168	238397	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	455224	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	437618	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	136350	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	196202	50.758	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	=	101.520%	
35) Dibromofluoromethane	8.171	113	174760	53.420	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	106.840%	
50) Toluene-d8	10.570	98	540585	45.669	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	=	91.340%	
62) 4-Bromofluorobenzene	12.853	95	175842	46.290	ug/l	0.00
Spiked Amount	50.000	Range 83 - 123	Recovery	=	92.580%	
Target Compounds						
						Qvalue
10) Methyl Iodide	4.606	142	615	0.232	ug/l #	38
11) Tert butyl alcohol	5.518	59	3287	5.650	ug/l #	72
15) Acrylonitrile	5.806	53	9221	5.467	ug/l #	27
16) Acetone	4.447	43	1859	1.213	ug/l #	40
17) Carbon Disulfide	4.718	76	2582	0.294	ug/l #	75
19) Methyl tert-butyl Ether	5.800	73	544867	59.536	ug/l	92
20) Methylene Chloride	5.277	84	1878	Below Cal	#	76
31) Cyclohexane	8.229	56	6463	1.179	ug/l #	5
36) 1,1-Dichloropropene	8.229	75	21668	4.413	ug/l #	48
38) Carbon Tetrachloride	8.224	117	26665	5.425	ug/l #	17
43) Isopropyl Acetate	8.724	43	8391	0.980	ug/l #	49
51) 4-Methyl-2-Pentanone	10.447	43	1418	0.293	ug/l #	59
58) 2-Chloroethyl Vinyl ether	10.171	63	452	0.249	ug/l #	42
59) 2-Hexanone	11.212	43	2217	0.636	ug/l	64
75) 1,1,2,2-Tetrachloroethane	12.941	83	540	Below Cal	#	87
76) 1,2,3-Trichloropropane	12.853	75	100007	25.438	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	100007	73.811	ug/l #	15
87) 1,3-Dichlorobenzene	13.735	146	1448	0.294	ug/l	93
88) 1,4-Dichlorobenzene	13.735	146	1448	0.284	ug/l	95
89) n-Butylbenzene	14.064	91	1816	0.259	ug/l	88
90) Hexachloroethane	14.458	117	123	Below Cal	#	21
91) 1,2-Dichlorobenzene	14.117	146	1376	0.286	ug/l	86
92) 1,2-Dibromo-3-Chloropr...	14.729	75	415	0.566	ug/l #	21
93) 1,2,4-Trichlorobenzene	15.388	180	1255	0.842	ug/l	88
94) Hexachlorobutadiene	15.505	225	1005	0.866	ug/l	74
95) Naphthalene	15.641	128	4178	0.918	ug/l #	89
96) 1,2,3-Trichlorobenzene	15.852	180	1261	0.709	ug/l #	13

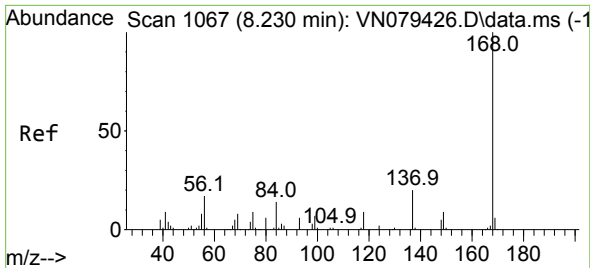
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN101323\  
 Data File : VN079568.D  
 Acq On : 13 Oct 2023 13:25  
 Operator : JC\MD  
 Sample : 04880-02DL 10X  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Oct 13 23:31:43 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N100523W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Oct 06 03:34:49 2023  
 Response via : Initial Calibration

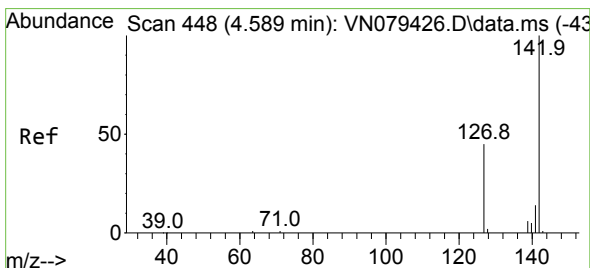
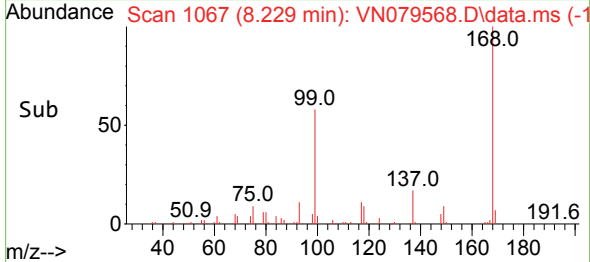
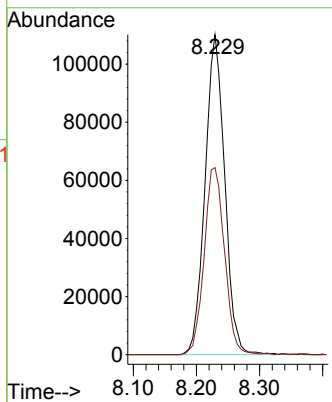
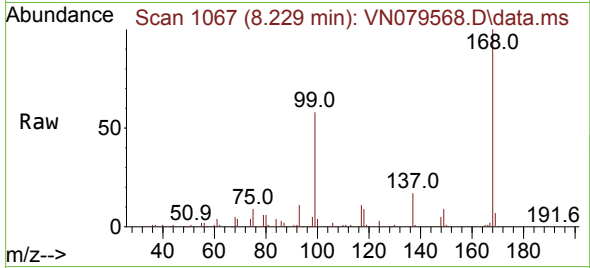




#1  
 Pentafluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.229 min Scan# 1067  
 Delta R.T. -0.001 min  
 Lab File: VN079568.D  
 Acq: 13 Oct 2023 13:25

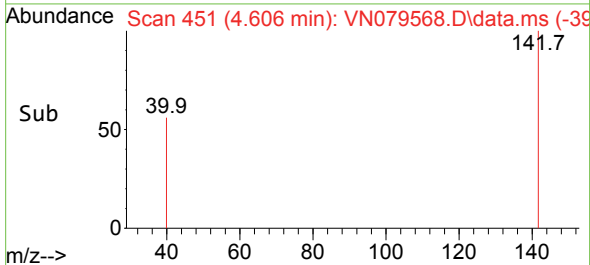
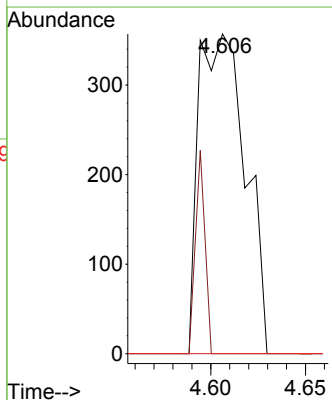
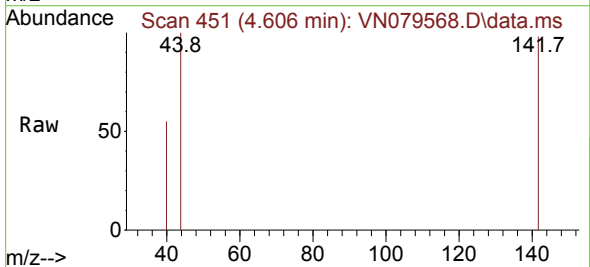
Instrument : MSVOA\_N  
 ClientSampleId :

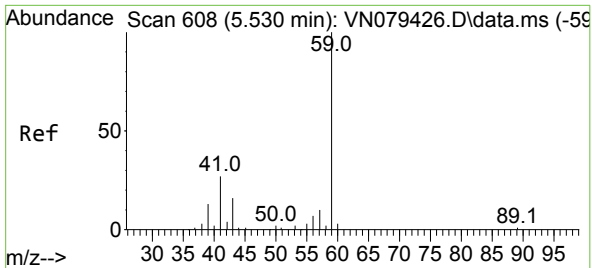
Tgt Ion:168 Resp: 238397  
 Ion Ratio Lower Upper  
 168 100  
 99 58.5 53.0 79.6



#10  
 Methyl Iodide  
 Concen: 0.232 ug/l  
 RT: 4.606 min Scan# 451  
 Delta R.T. 0.017 min  
 Lab File: VN079568.D  
 Acq: 13 Oct 2023 13:25

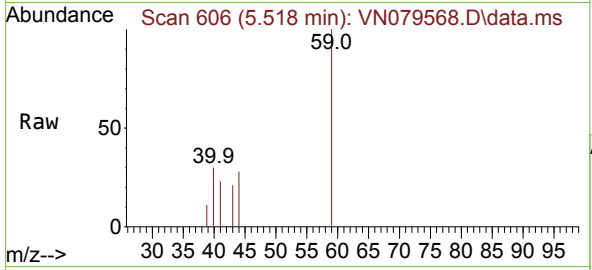
Tgt Ion:142 Resp: 615  
 Ion Ratio Lower Upper  
 142 100  
 127 0.0 37.6 56.4#  
 141 0.0 11.4 17.0#



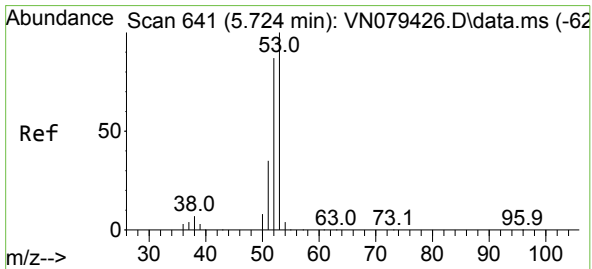
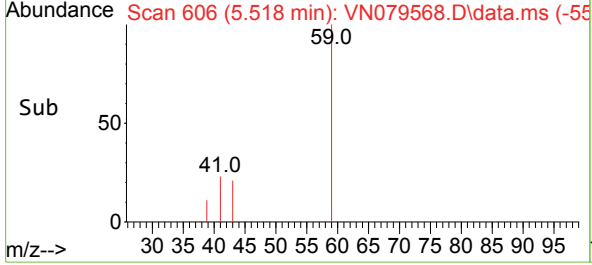
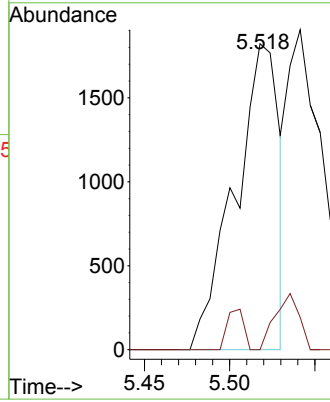


#11  
 Tert butyl alcohol  
 Concen: 5.650 ug/l  
 RT: 5.518 min Scan# 606  
 Delta R.T. -0.012 min  
 Lab File: VN079568.D  
 Acq: 13 Oct 2023 13:25

Instrument : MSVOA\_N  
 ClientSampleId :

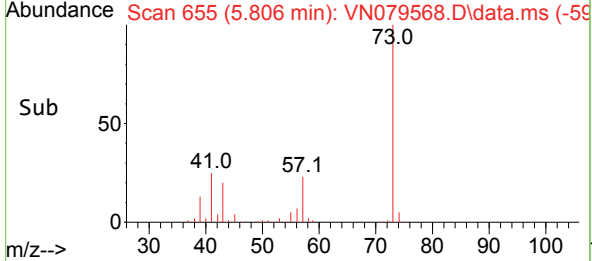
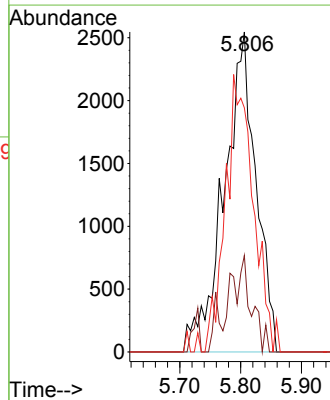
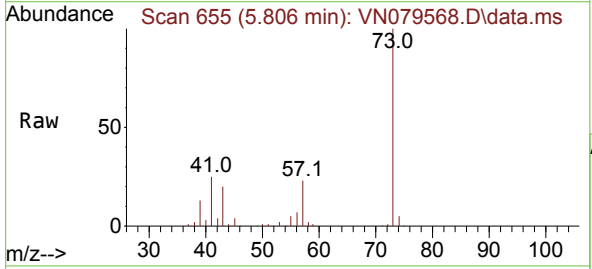


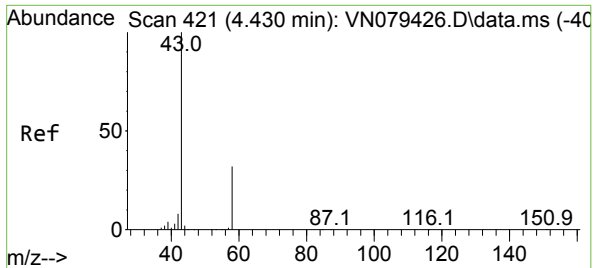
Tgt Ion: 59 Resp: 3287  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 8.2 12.4#



#15  
 Acrylonitrile  
 Concen: 5.467 ug/l  
 RT: 5.806 min Scan# 655  
 Delta R.T. 0.082 min  
 Lab File: VN079568.D  
 Acq: 13 Oct 2023 13:25

Tgt Ion: 53 Resp: 9221  
 Ion Ratio Lower Upper  
 53 100  
 52 11.2 65.3 97.9#  
 51 0.0 28.9 43.3#

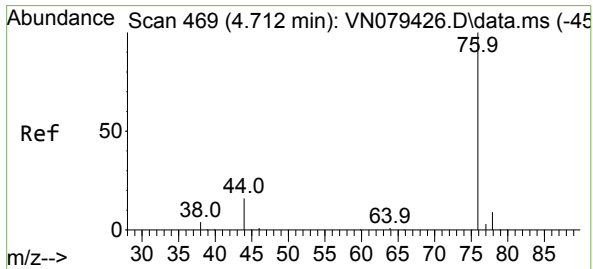
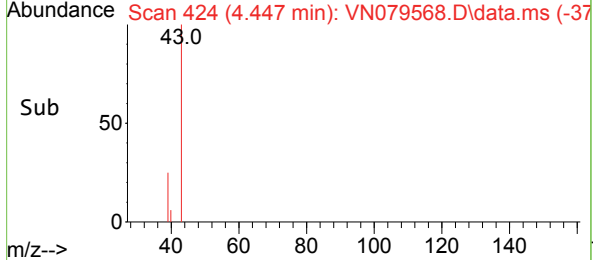
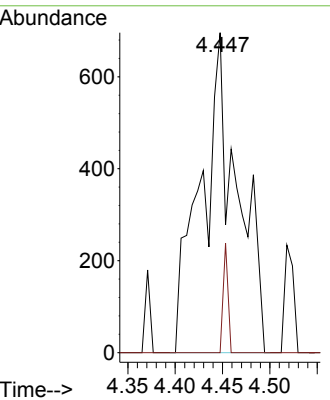
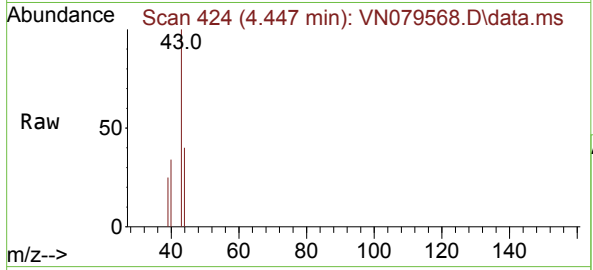




#16  
 Acetone  
 Concen: 1.213 ug/l  
 RT: 4.447 min Scan# 41  
 Delta R.T. 0.017 min  
 Lab File: VN079568.D  
 Acq: 13 Oct 2023 13:25

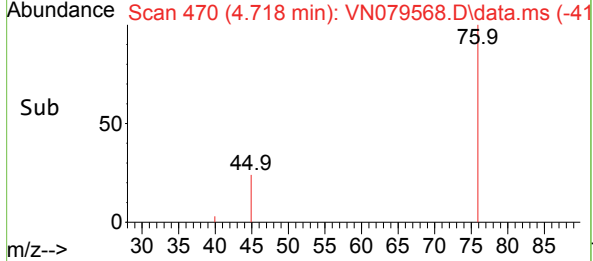
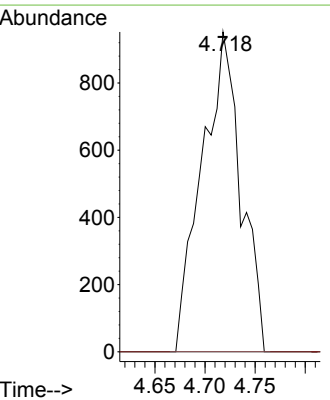
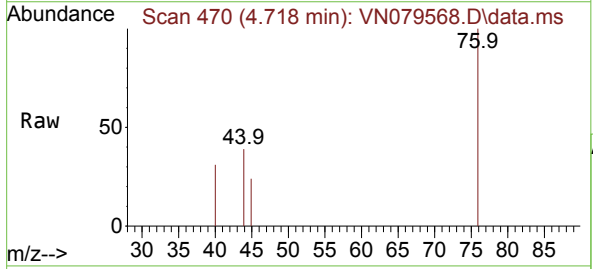
Instrument : MSVOA\_N  
 ClientSampleId :

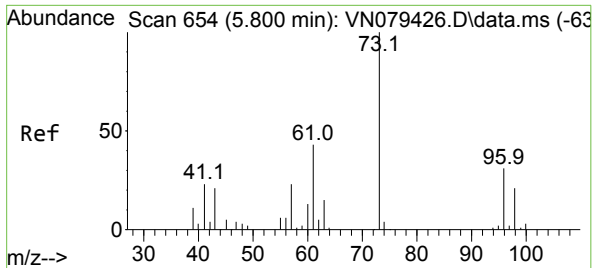
Tgt Ion: 43 Resp: 1859  
 Ion Ratio Lower Upper  
 43 100  
 58 0.0 28.0 42.0#



#17  
 Carbon Disulfide  
 Concen: 0.294 ug/l  
 RT: 4.718 min Scan# 470  
 Delta R.T. 0.006 min  
 Lab File: VN079568.D  
 Acq: 13 Oct 2023 13:25

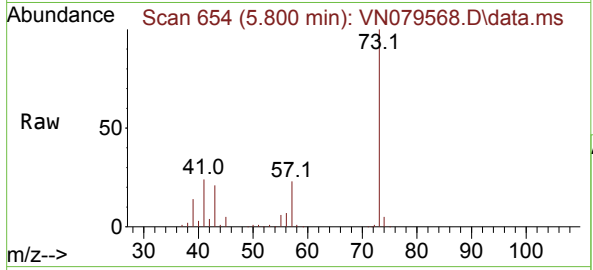
Tgt Ion: 76 Resp: 2582  
 Ion Ratio Lower Upper  
 76 100  
 78 0.0 7.4 11.0#



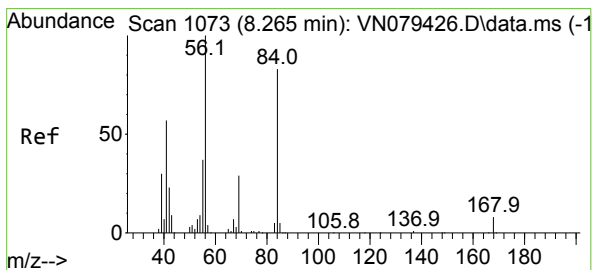
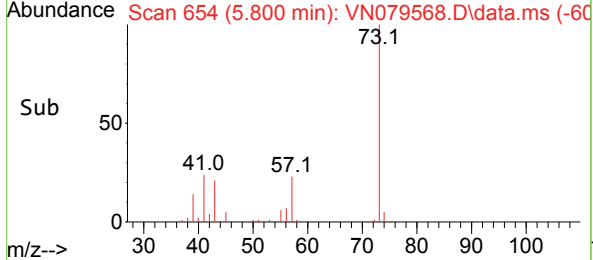
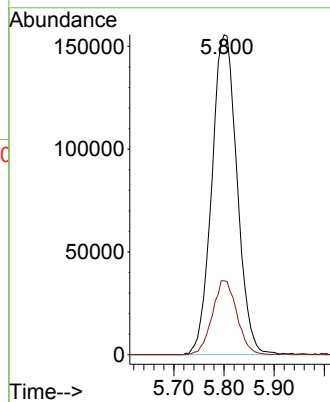


#19  
 Methyl tert-butyl Ether  
 Concen: 59.536 ug/l  
 RT: 5.800 min Scan# 61  
 Delta R.T. -0.000 min  
 Lab File: VN079568.D  
 Acq: 13 Oct 2023 13:25

Instrument : MSVOA\_N  
 ClientSampleId :

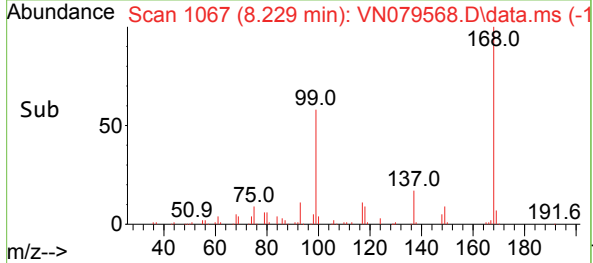
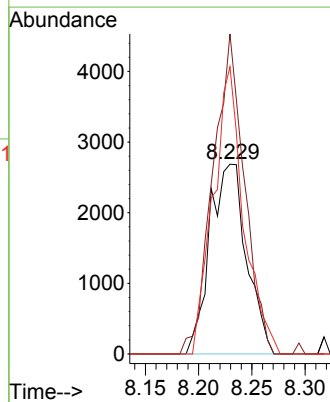
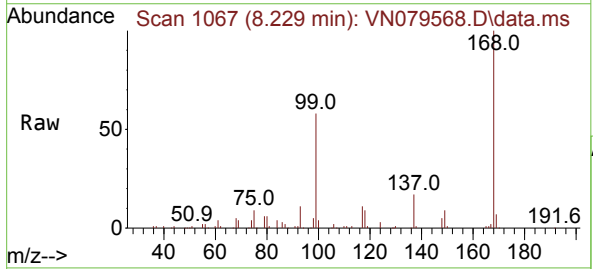


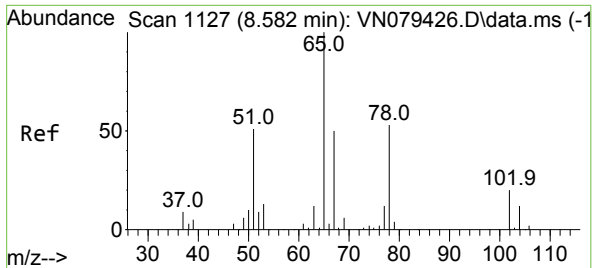
Tgt Ion: 73 Resp: 544867  
 Ion Ratio Lower Upper  
 73 100  
 57 23.1 15.6 23.4



#31  
 Cyclohexane  
 Concen: 1.179 ug/l  
 RT: 8.229 min Scan# 1067  
 Delta R.T. -0.035 min  
 Lab File: VN079568.D  
 Acq: 13 Oct 2023 13:25

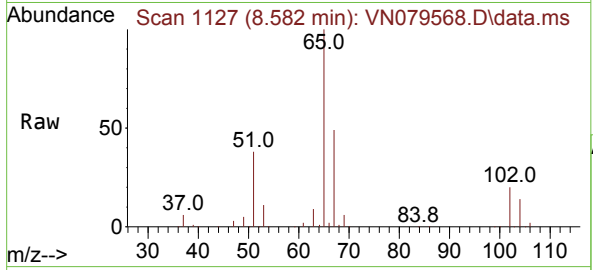
Tgt Ion: 56 Resp: 6463  
 Ion Ratio Lower Upper  
 56 100  
 69 168.6 26.8 40.2#  
 84 151.3 81.8 122.6#



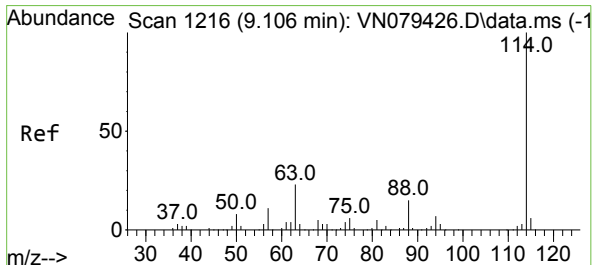
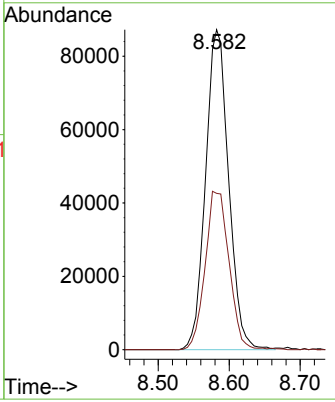
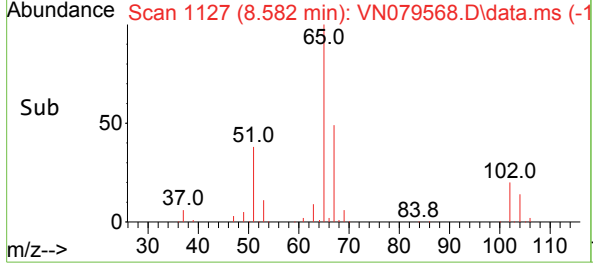


#33  
 1,2-Dichloroethane-d4  
 Concen: 50.758 ug/l  
 RT: 8.582 min Scan# 1127  
 Delta R.T. -0.000 min  
 Lab File: VN079568.D  
 Acq: 13 Oct 2023 13:25

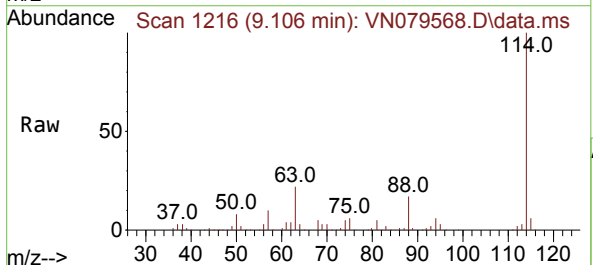
Instrument : MSVOA\_N  
 ClientSampleId :



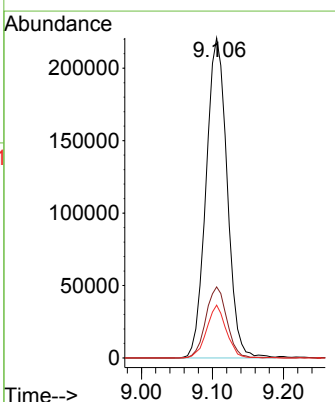
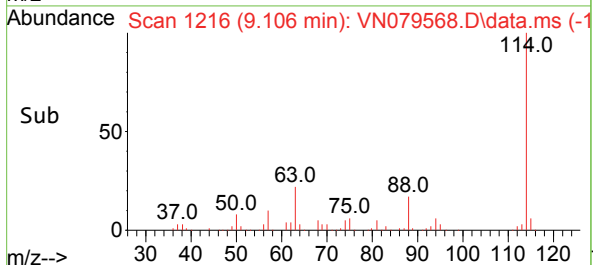
Tgt Ion: 65 Resp: 196202  
 Ion Ratio Lower Upper  
 65 100  
 67 51.5 0.0 106.6

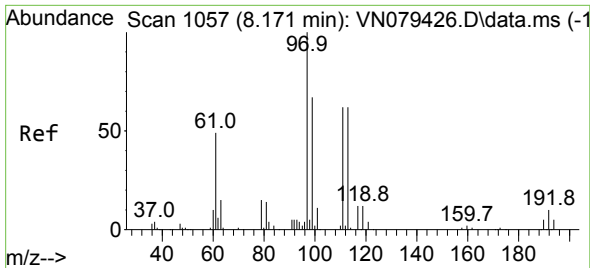


#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 9.106 min Scan# 1216  
 Delta R.T. -0.000 min  
 Lab File: VN079568.D  
 Acq: 13 Oct 2023 13:25



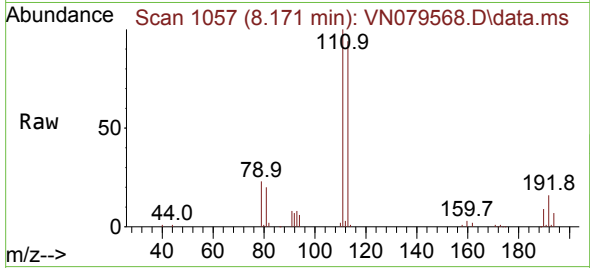
Tgt Ion: 114 Resp: 455224  
 Ion Ratio Lower Upper  
 114 100  
 63 22.2 0.0 36.4  
 88 16.5 0.0 30.6



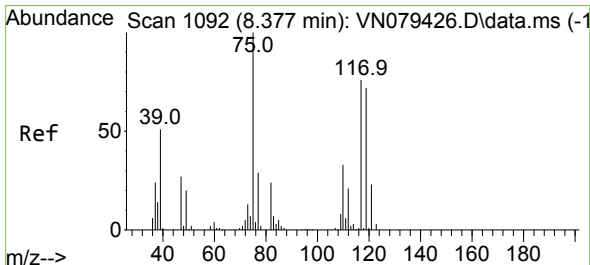
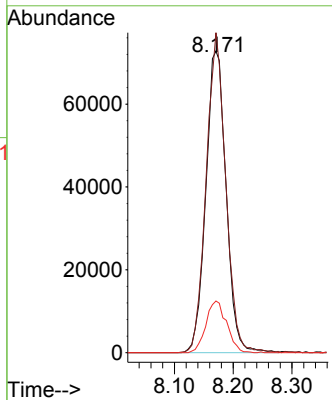
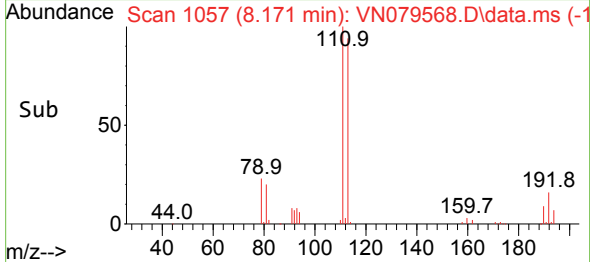


#35  
 Dibromofluoromethane  
 Concen: 53.420 ug/l  
 RT: 8.171 min Scan# 1057  
 Delta R.T. -0.000 min  
 Lab File: VN079568.D  
 Acq: 13 Oct 2023 13:25

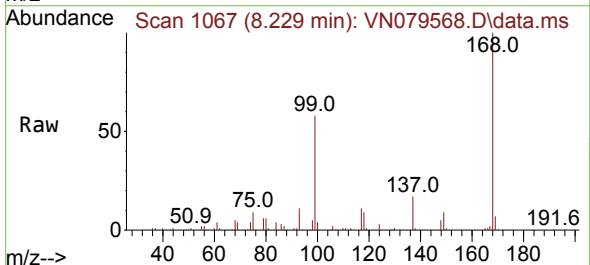
Instrument : MSVOA\_N  
 ClientSampleId :



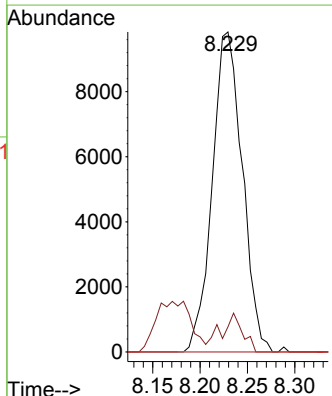
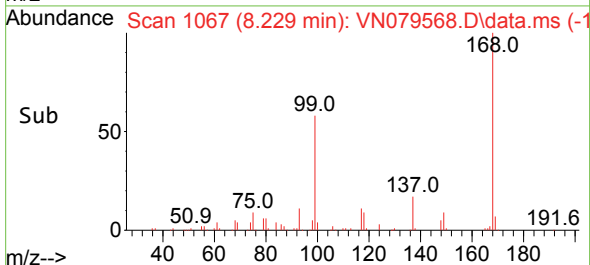
Tgt Ion:113 Resp: 174760  
 Ion Ratio Lower Upper  
 113 100  
 111 102.3 82.6 123.8  
 192 17.5 12.7 19.1



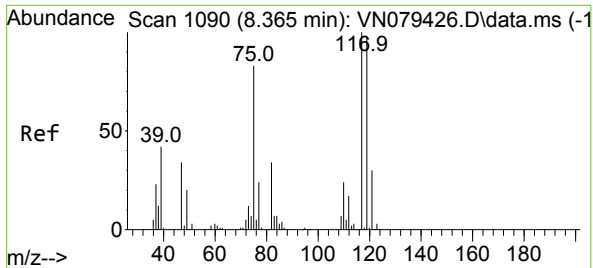
#36  
 1,1-Dichloropropene  
 Concen: 4.413 ug/l  
 RT: 8.229 min Scan# 1067  
 Delta R.T. -0.147 min  
 Lab File: VN079568.D  
 Acq: 13 Oct 2023 13:25



Tgt Ion: 75 Resp: 21668  
 Ion Ratio Lower Upper  
 75 100  
 110 8.7 19.1 57.3#  
 77 0.0 25.0 37.4#

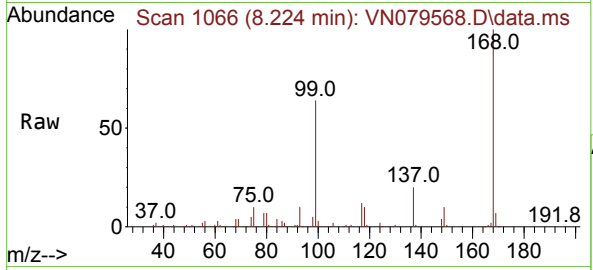






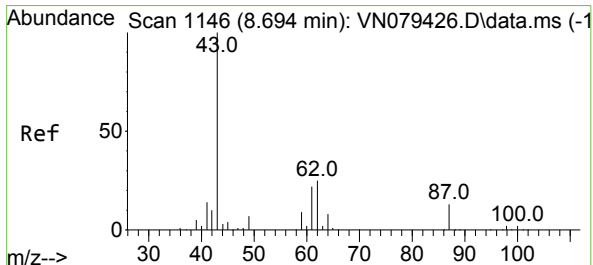
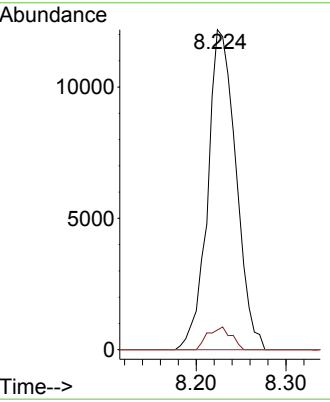
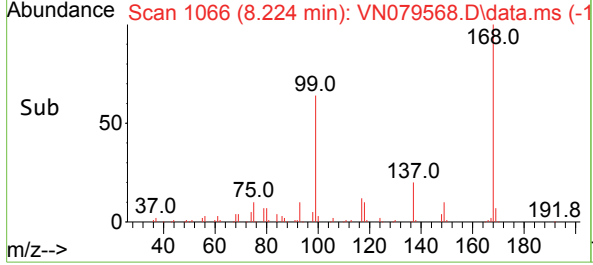
#38  
 Carbon Tetrachloride  
 Concen: 5.425 ug/l  
 RT: 8.224 min Scan# 1105  
 Delta R.T. -0.141 min  
 Lab File: VN079568.D  
 Acq: 13 Oct 2023 13:25

Instrument : MSVOA\_N  
 ClientSampleId :

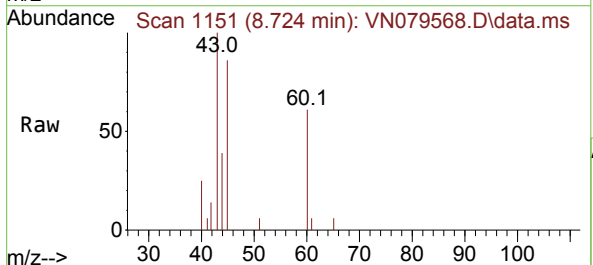


Tgt Ion: 117 Resp: 26665

Ion	Ratio	Lower	Upper
117	100		
119	6.1	77.3	115.9#
121	0.0	23.3	34.9#

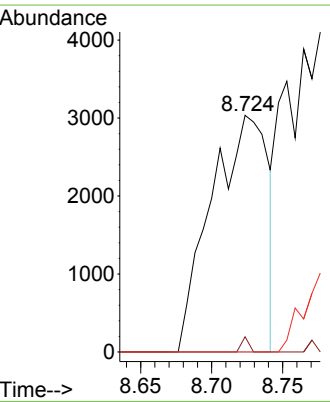
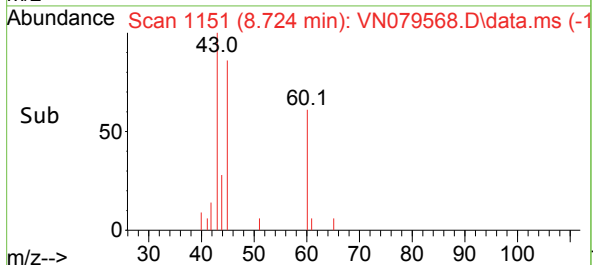


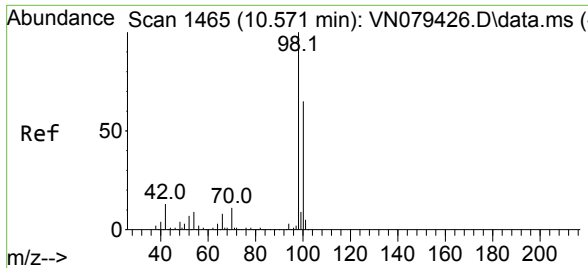
#43  
 Isopropyl Acetate  
 Concen: 0.980 ug/l  
 RT: 8.724 min Scan# 1151  
 Delta R.T. 0.029 min  
 Lab File: VN079568.D  
 Acq: 13 Oct 2023 13:25



Tgt Ion: 43 Resp: 8391

Ion	Ratio	Lower	Upper
43	100		
61	0.0	24.7	37.1#
87	0.0	14.6	21.8#

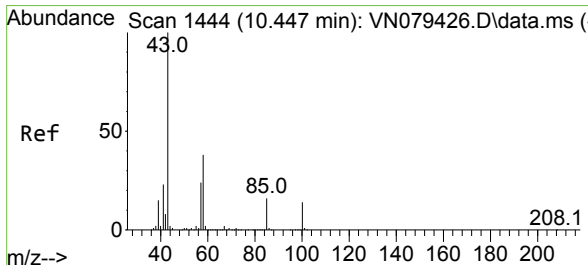
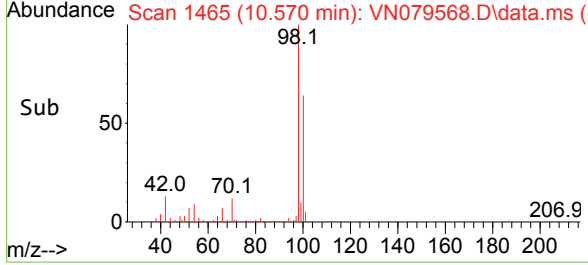
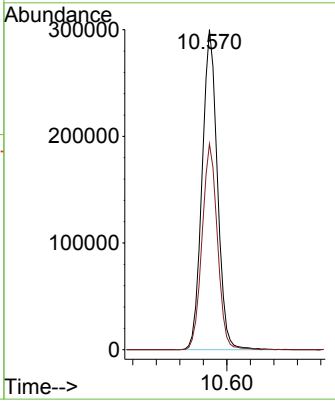
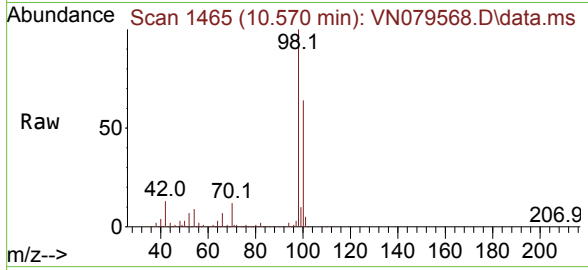




#50  
 Toluene-d8  
 Concen: 45.669 ug/l  
 RT: 10.570 min Scan# 1465  
 Delta R.T. -0.000 min  
 Lab File: VN079568.D  
 Acq: 13 Oct 2023 13:25

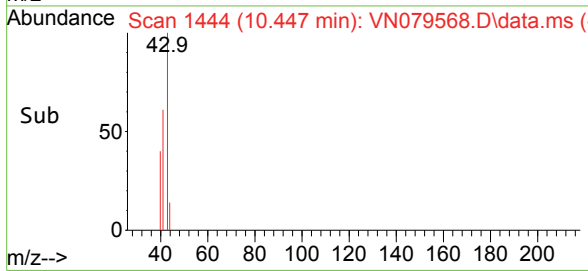
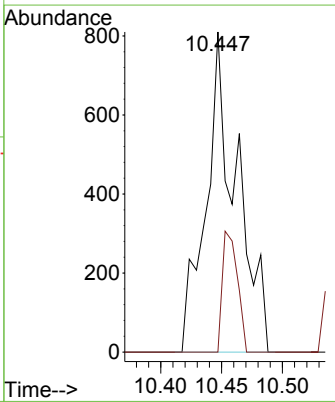
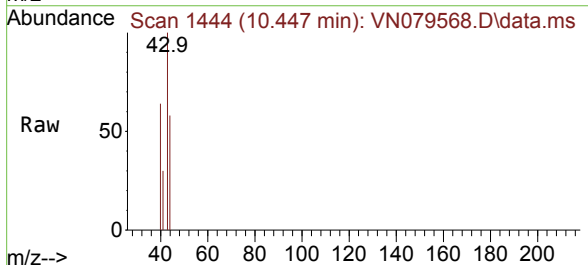
Instrument : MSVOA\_N  
 ClientSampleId :

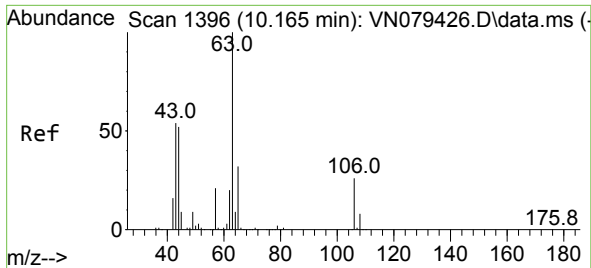
Tgt Ion: 98 Resp: 540585  
 Ion Ratio Lower Upper  
 98 100  
 100 64.4 52.0 78.0



#51  
 4-Methyl-2-Pentanone  
 Concen: 0.293 ug/l  
 RT: 10.447 min Scan# 1444  
 Delta R.T. -0.000 min  
 Lab File: VN079568.D  
 Acq: 13 Oct 2023 13:25

Tgt Ion: 43 Resp: 1418  
 Ion Ratio Lower Upper  
 43 100  
 58 18.5 36.6 54.8#

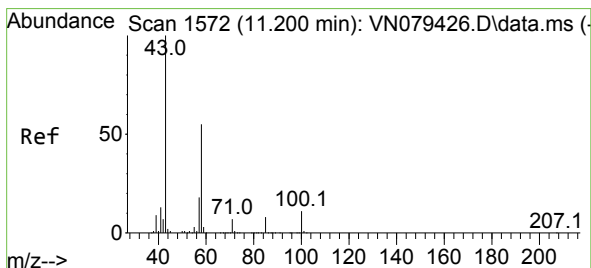
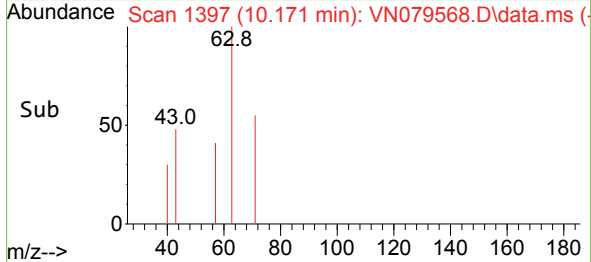
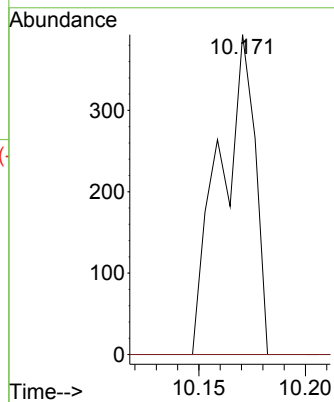
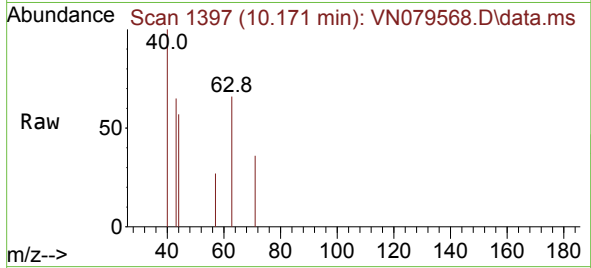




#58  
 2-Chloroethyl Vinyl ether  
 Concen: 0.249 ug/l  
 RT: 10.171 min Scan# 11  
 Delta R.T. 0.006 min  
 Lab File: VN079568.D  
 Acq: 13 Oct 2023 13:25

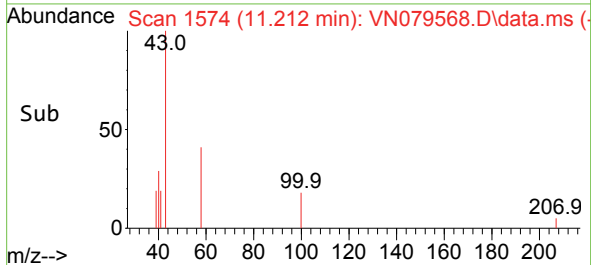
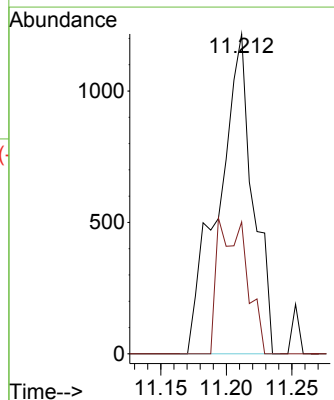
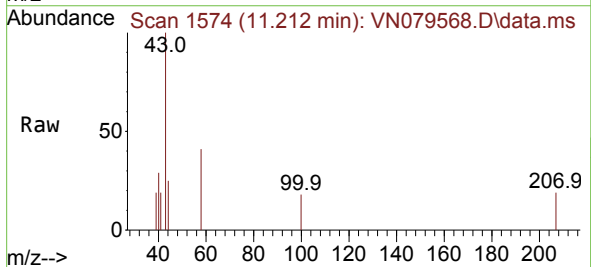
Instrument :  
 MSVOA\_N  
 ClientSampleId :

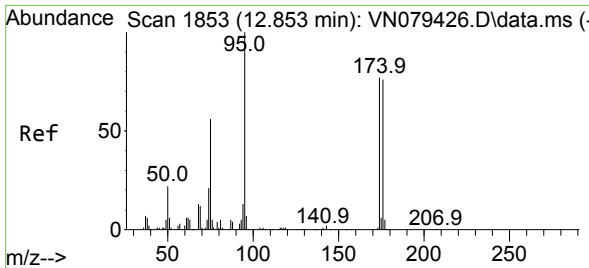
Tgt Ion: 63 Resp: 452  
 Ion Ratio Lower Upper  
 63 100  
 106 0.0 26.2 39.4#



#59  
 2-Hexanone  
 Concen: 0.636 ug/l  
 RT: 11.212 min Scan# 1574  
 Delta R.T. 0.012 min  
 Lab File: VN079568.D  
 Acq: 13 Oct 2023 13:25

Tgt Ion: 43 Resp: 2217  
 Ion Ratio Lower Upper  
 43 100  
 58 35.6 31.7 95.1



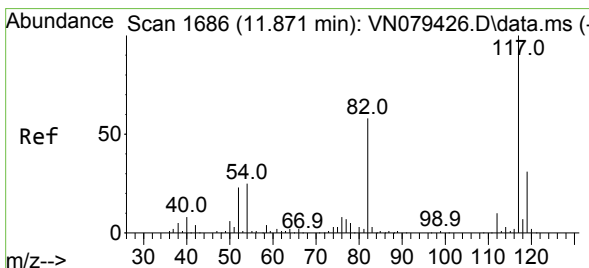
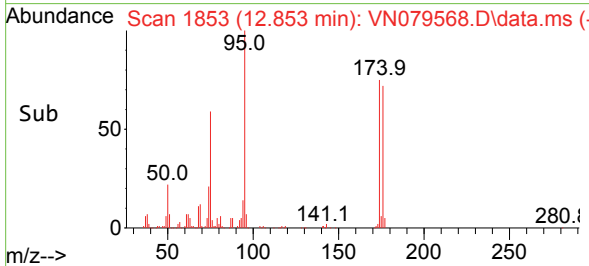
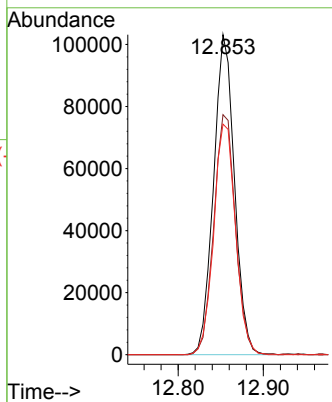
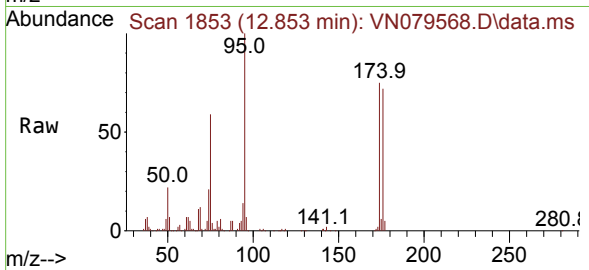


#62  
 4-Bromofluorobenzene  
 Concen: 46.290 ug/l  
 RT: 12.853 min Scan# 1853  
 Delta R.T. -0.000 min  
 Lab File: VN079568.D  
 Acq: 13 Oct 2023 13:25

Instrument : MSVOA\_N  
 ClientSampleId :

Tgt Ion: 95 Resp: 175842

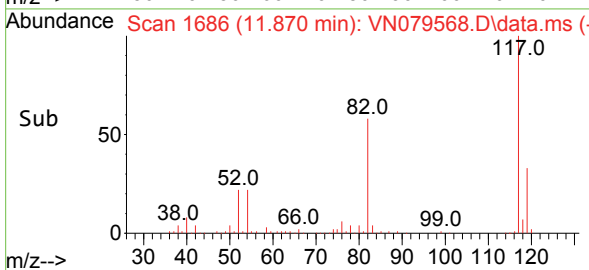
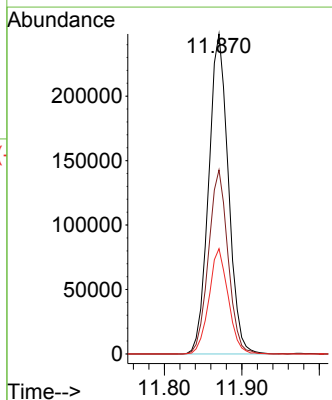
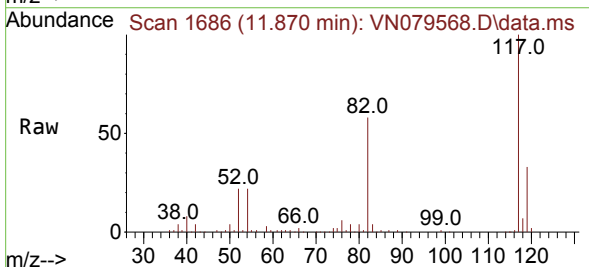
Ion	Ratio	Lower	Upper
95	100		
174	77.5	0.0	143.8
176	75.3	0.0	135.8

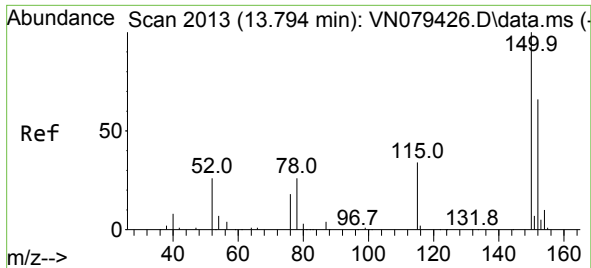


#63  
 Chlorobenzene-d5  
 Concen: 50.000 ug/l  
 RT: 11.870 min Scan# 1686  
 Delta R.T. -0.000 min  
 Lab File: VN079568.D  
 Acq: 13 Oct 2023 13:25

Tgt Ion: 117 Resp: 437618

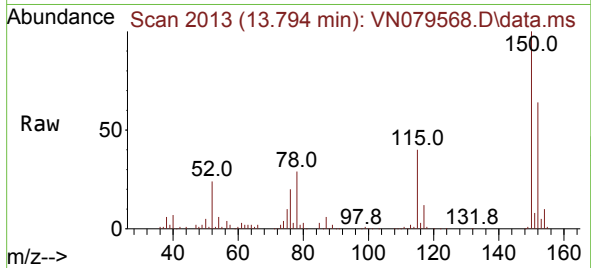
Ion	Ratio	Lower	Upper
117	100		
82	57.5	44.0	66.0
119	32.9	25.6	38.4



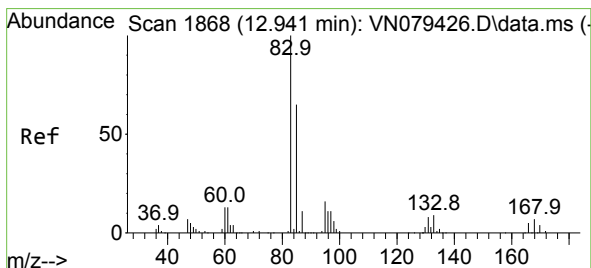
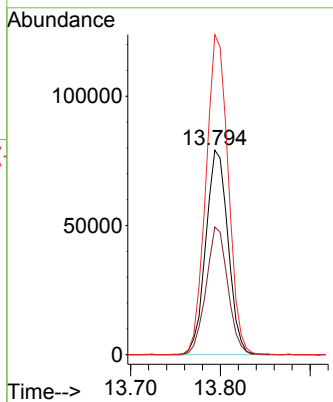
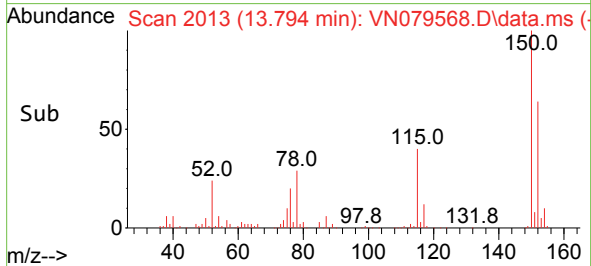


#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.794 min Scan# 20  
 Delta R.T. -0.000 min  
 Lab File: VN079568.D  
 Acq: 13 Oct 2023 13:25

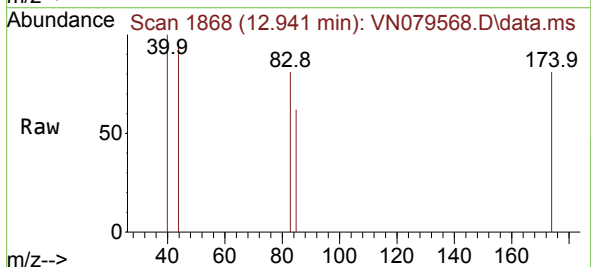
Instrument :  
 MSVOA\_N  
 ClientSampleId :



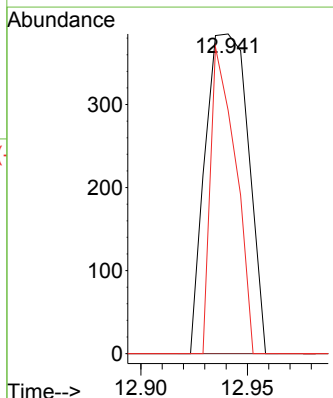
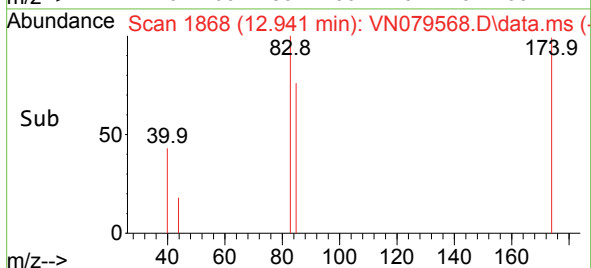
Tgt Ion:152 Resp: 136350  
 Ion Ratio Lower Upper  
 152 100  
 115 61.1 32.3 96.8  
 150 156.5 0.0 355.8

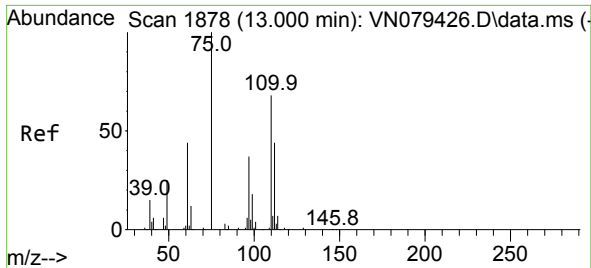


#75  
 1,1,2,2-Tetrachloroethane  
 Concen: Below Cal  
 RT: 12.941 min Scan# 1868  
 Delta R.T. -0.000 min  
 Lab File: VN079568.D  
 Acq: 13 Oct 2023 13:25



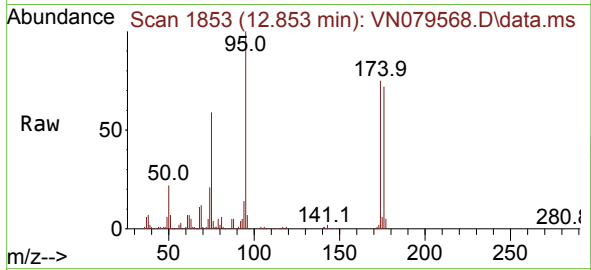
Tgt Ion: 83 Resp: 540  
 Ion Ratio Lower Upper  
 83 100  
 131 0.0 5.0 15.0#  
 85 55.7 31.9 95.7



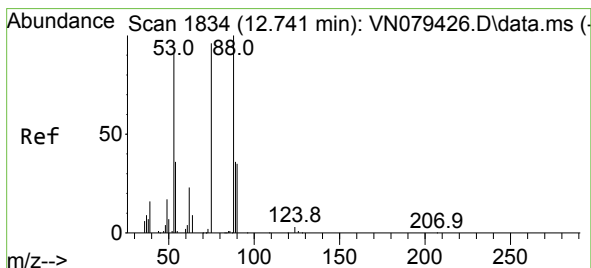
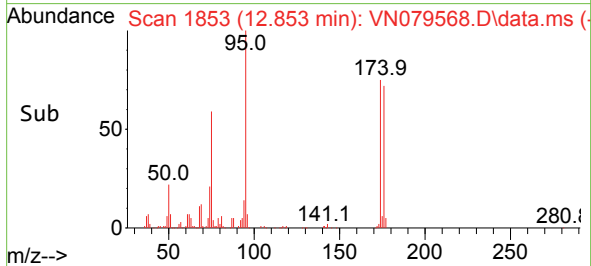
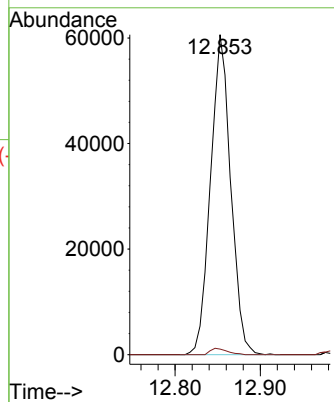


#76  
 1,2,3-Trichloropropane  
 Concen: 25.438 ug/l  
 RT: 12.853 min Scan# 1853  
 Delta R.T. -0.147 min  
 Lab File: VN079568.D  
 Acq: 13 Oct 2023 13:25

Instrument : MSVOA\_N  
 ClientSampleId :

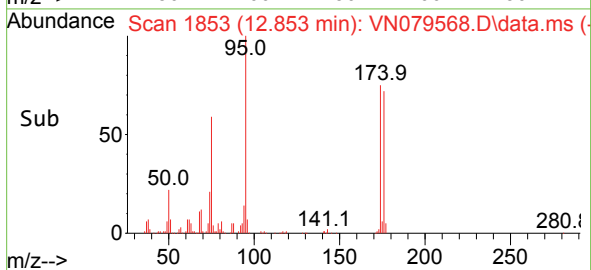
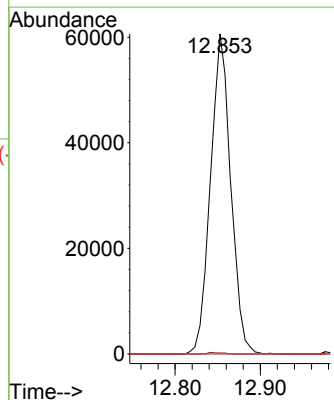
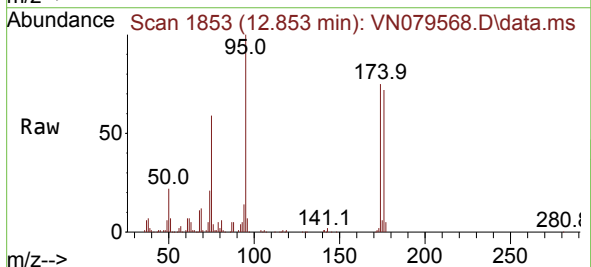


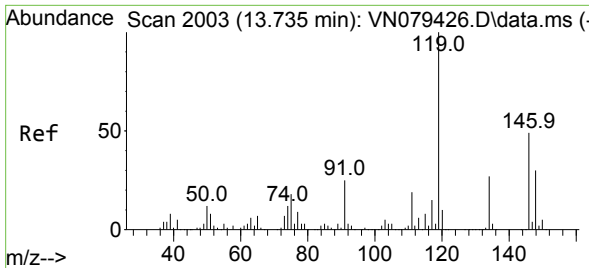
Tgt Ion: 75 Resp: 100007  
 Ion Ratio Lower Upper  
 75 100  
 77 1.6 84.5 253.5#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 73.811 ug/l  
 RT: 12.853 min Scan# 1853  
 Delta R.T. 0.112 min  
 Lab File: VN079568.D  
 Acq: 13 Oct 2023 13:25

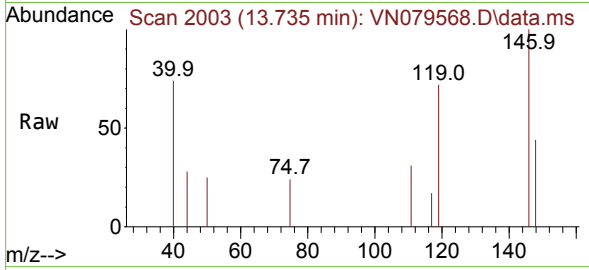
Tgt Ion: 75 Resp: 100007  
 Ion Ratio Lower Upper  
 75 100  
 53 0.3 67.4 101.2#  
 89 0.0 38.8 58.2#





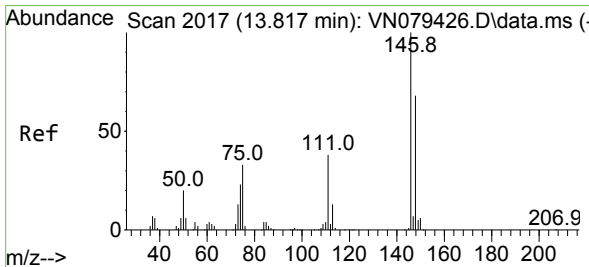
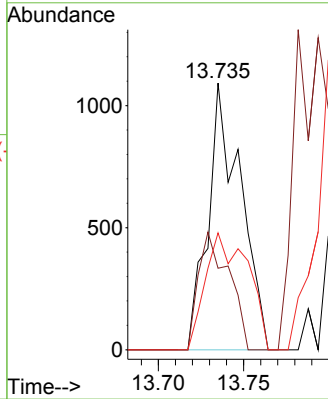
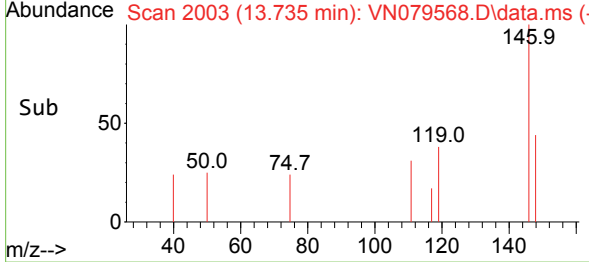
#87  
 1,3-Dichlorobenzene  
 Concen: 0.294 ug/l  
 RT: 13.735 min Scan# 2003  
 Delta R.T. -0.000 min  
 Lab File: VN079568.D  
 Acq: 13 Oct 2023 13:25

Instrument : MSVOA\_N  
 ClientSampleId :

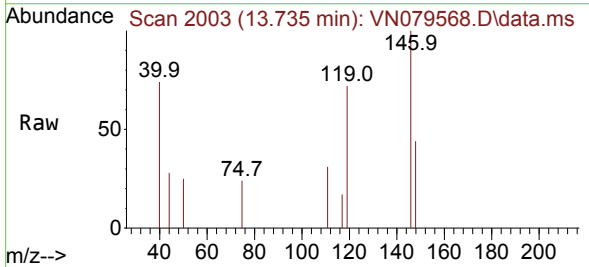


Tgt Ion:146 Resp: 1448

Ion	Ratio	Lower	Upper
146	100		
111	41.2	22.1	66.3
148	56.7	32.0	96.0

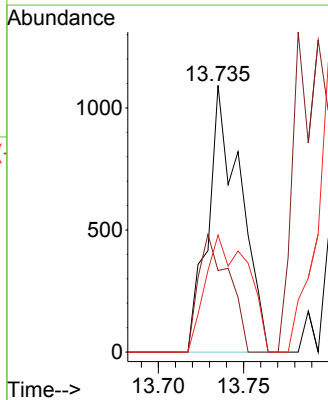
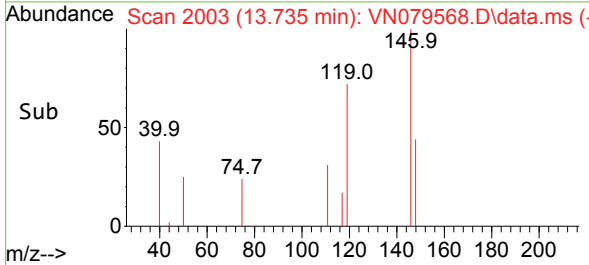


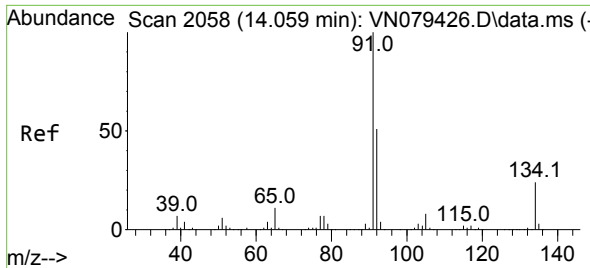
#88  
 1,4-Dichlorobenzene  
 Concen: 0.284 ug/l  
 RT: 13.735 min Scan# 2003  
 Delta R.T. -0.082 min  
 Lab File: VN079568.D  
 Acq: 13 Oct 2023 13:25



Tgt Ion:146 Resp: 1448

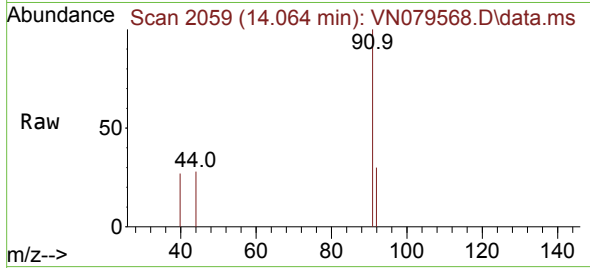
Ion	Ratio	Lower	Upper
146	100		
111	41.2	20.6	61.8
148	56.7	31.6	94.8



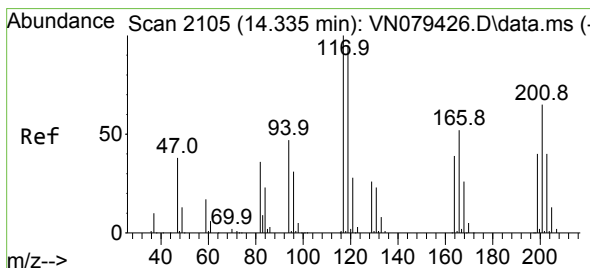
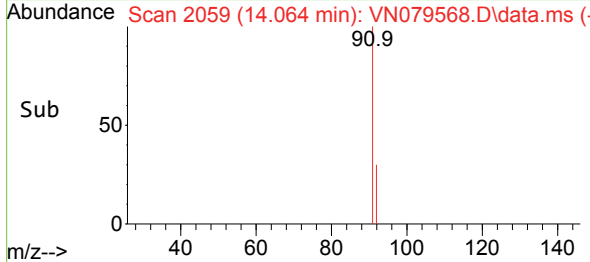
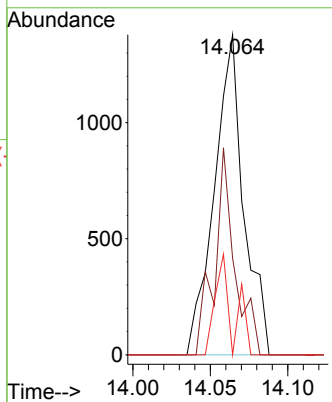


#89  
 n-Butylbenzene  
 Concen: 0.259 ug/l  
 RT: 14.064 min Scan# 2059  
 Delta R.T. 0.006 min  
 Lab File: VN079568.D  
 Acq: 13 Oct 2023 13:25

Instrument : MSVOA\_N  
 ClientSampleId :

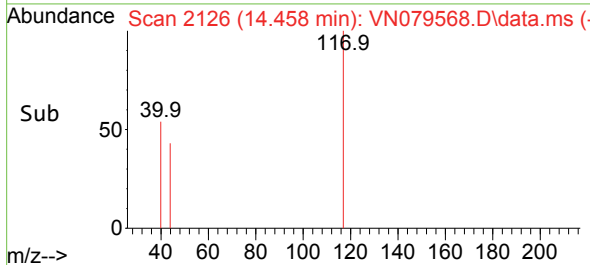
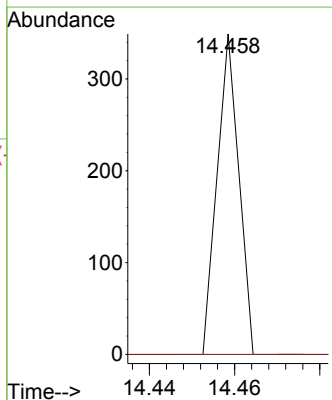
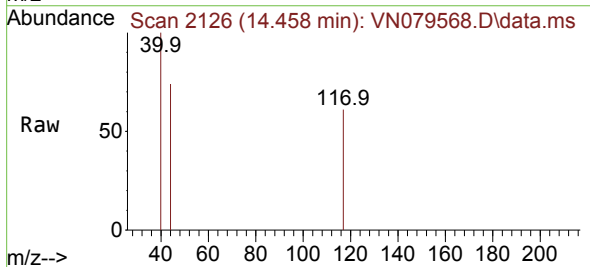


Tgt Ion: 91 Resp: 1816  
 Ion Ratio Lower Upper  
 91 100  
 92 44.5 26.4 79.0  
 134 18.9 12.6 37.6

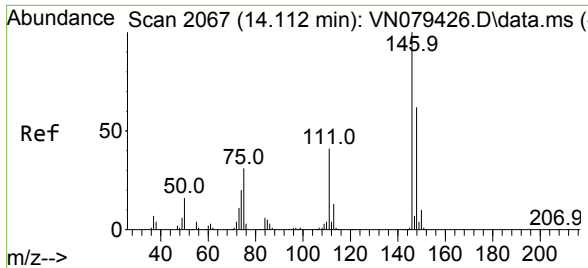


#90  
 Hexachloroethane  
 Concen: Below Cal  
 RT: 14.458 min Scan# 2126  
 Delta R.T. 0.123 min  
 Lab File: VN079568.D  
 Acq: 13 Oct 2023 13:25

Tgt Ion: 117 Resp: 123  
 Ion Ratio Lower Upper  
 117 100  
 201 0.0 29.3 88.0#

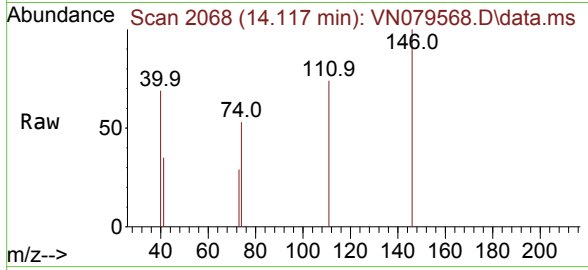






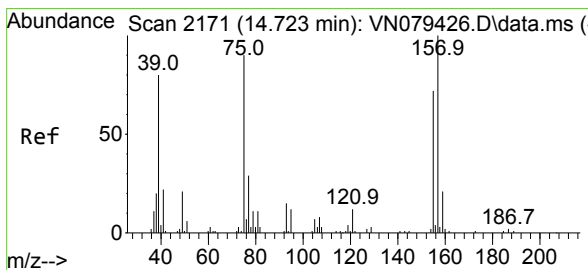
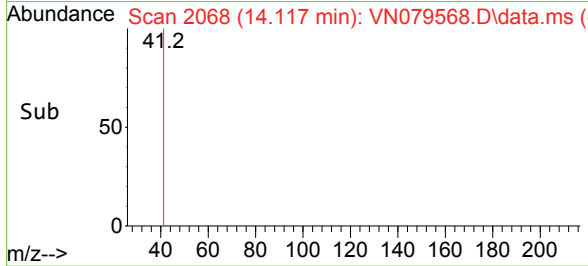
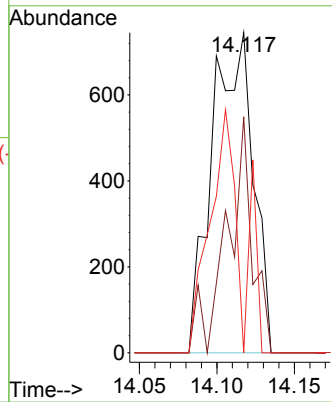
#91  
 1,2-Dichlorobenzene  
 Concen: 0.286 ug/l  
 RT: 14.117 min Scan# 2068  
 Delta R.T. 0.006 min  
 Lab File: VN079568.D  
 Acq: 13 Oct 2023 13:25

Instrument : MSVOA\_N  
 ClientSampleId :



Tgt Ion:146 Resp: 1376

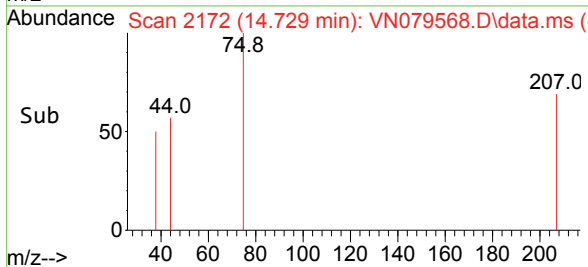
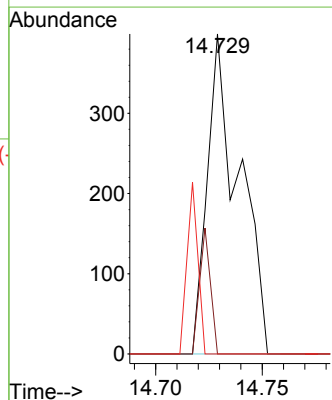
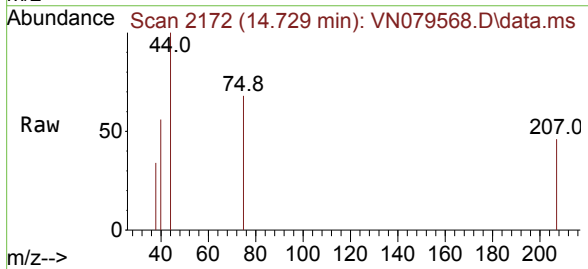
Ion	Ratio	Lower	Upper
146	100		
111	45.4	22.0	66.0
148	45.8	31.8	95.3

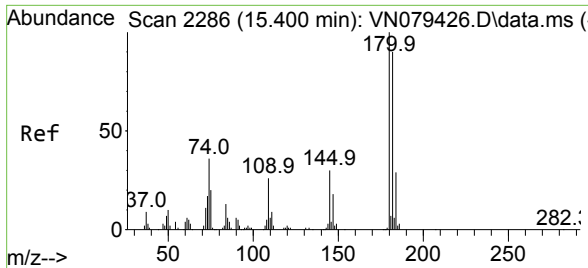


#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 0.566 ug/l  
 RT: 14.729 min Scan# 2172  
 Delta R.T. 0.006 min  
 Lab File: VN079568.D  
 Acq: 13 Oct 2023 13:25

Tgt Ion: 75 Resp: 415

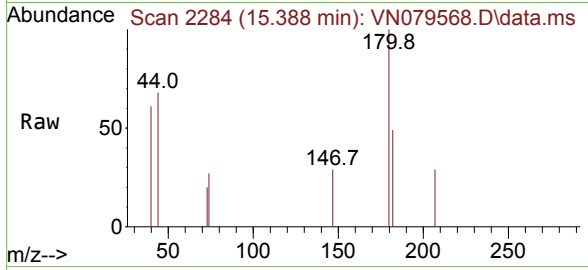
Ion	Ratio	Lower	Upper
75	100		
155	13.3	39.1	117.2#
157	18.3	50.3	150.9#





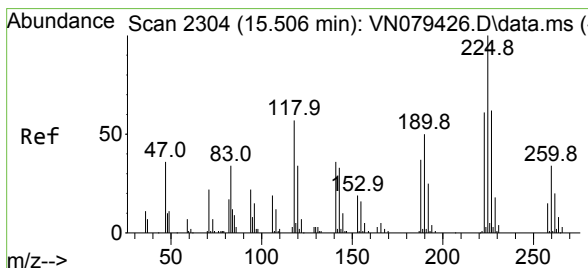
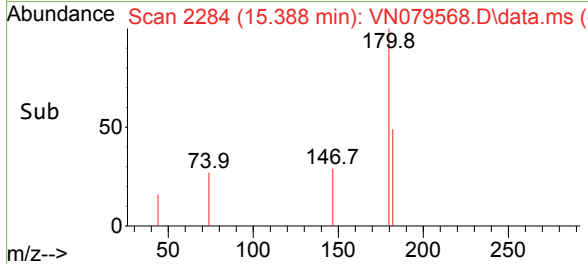
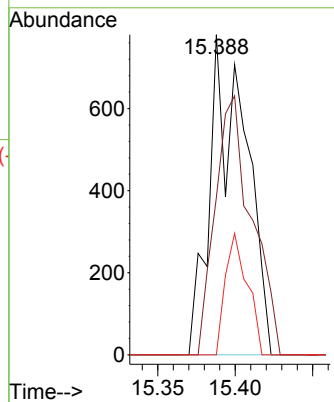
#93  
 1,2,4-Trichlorobenzene  
 Concen: 0.842 ug/l  
 RT: 15.388 min Scan# 21  
 Delta R.T. -0.012 min  
 Lab File: VN079568.D  
 Acq: 13 Oct 2023 13:25

Instrument :  
 MSVOA\_N  
 ClientSampleId :



Tgt Ion:180 Resp: 1255

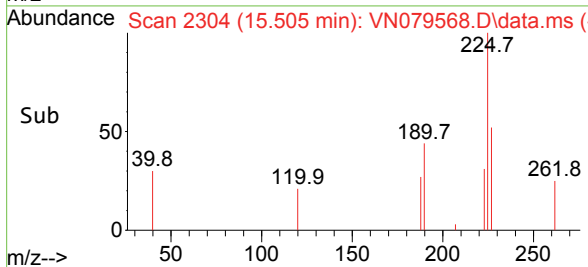
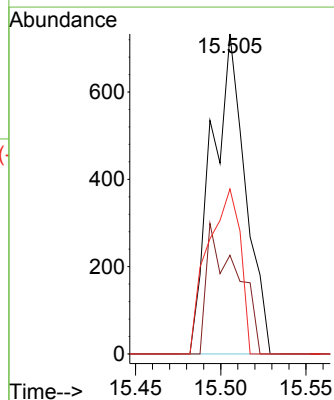
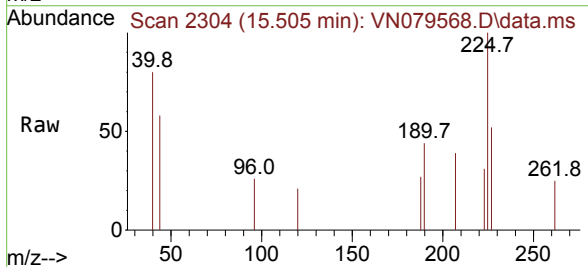
Ion	Ratio	Lower	Upper
180	100		
182	82.1	46.1	138.2
145	23.2	16.6	49.8

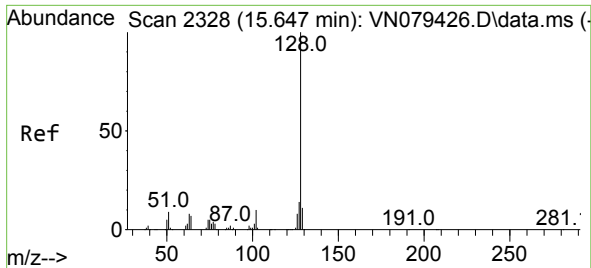


#94  
 Hexachlorobutadiene  
 Concen: 0.866 ug/l  
 RT: 15.505 min Scan# 2304  
 Delta R.T. -0.000 min  
 Lab File: VN079568.D  
 Acq: 13 Oct 2023 13:25

Tgt Ion:225 Resp: 1005

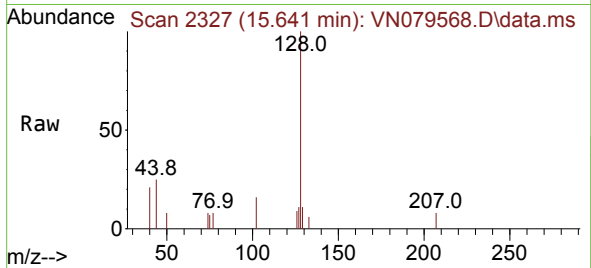
Ion	Ratio	Lower	Upper
225	100		
223	36.4	31.3	93.8
227	50.1	31.9	95.9



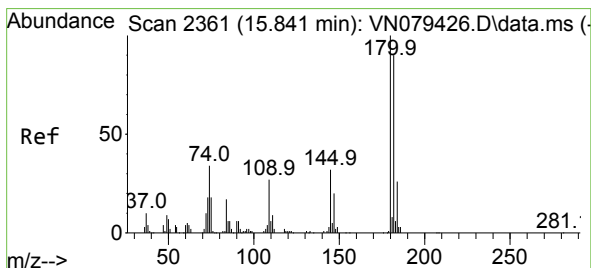
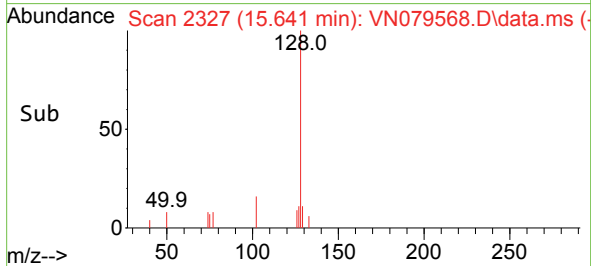
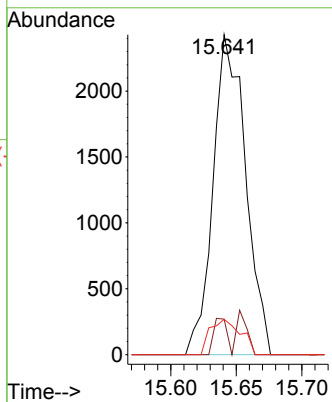


#95  
 Naphthalene  
 Concen: 0.918 ug/l  
 RT: 15.641 min Scan# 21  
 Delta R.T. -0.006 min  
 Lab File: VN079568.D  
 Acq: 13 Oct 2023 13:25

Instrument :  
 MSVOA\_N  
 ClientSampled :



Tgt Ion:128 Resp: 4178  
 Ion Ratio Lower Upper  
 128 100  
 127 4.6 10.0 15.0#  
 129 10.4 8.7 13.1



#96  
 1,2,3-Trichlorobenzene  
 Concen: 0.709 ug/l  
 RT: 15.852 min Scan# 2363  
 Delta R.T. 0.012 min  
 Lab File: VN079568.D  
 Acq: 13 Oct 2023 13:25

Tgt Ion:180 Resp: 1261  
 Ion Ratio Lower Upper  
 180 100  
 182 0.0 46.2 138.6#  
 145 0.0 17.5 52.6#

