

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX061923\  
 Data File : VX036216.D  
 Acq On : 19 Jun 2023 19:12  
 Operator : JC/MD  
 Sample : PB153531ZHE#04  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Jun 20 03:47:27 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X061623W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 16 16:28:40 2023  
 Response via : Initial Calibration

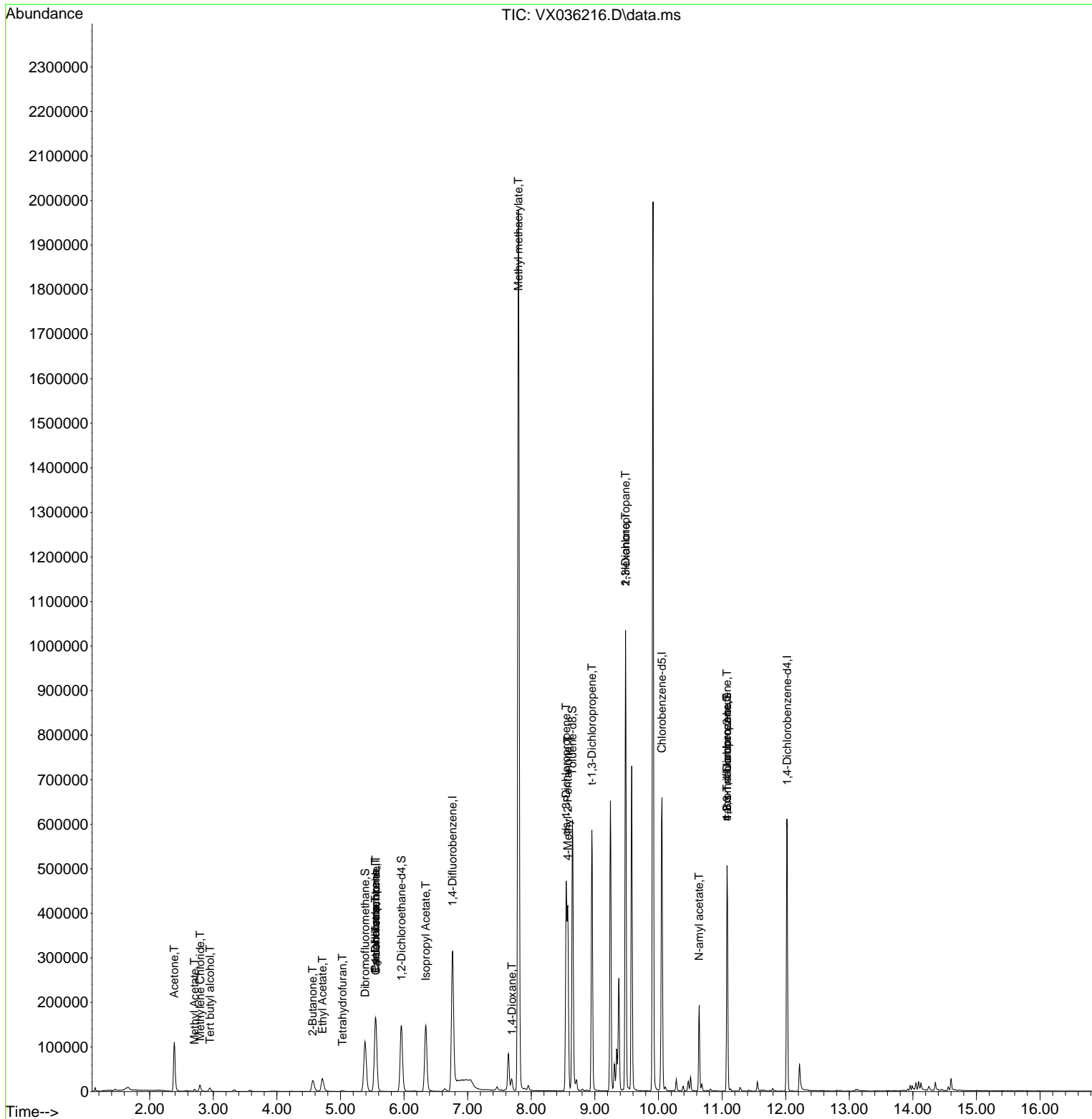
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	139235	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	283392	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	262691	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	115887	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	153778	60.437	ug/l	0.00
Spiked Amount	50.000	Range 78 - 117	Recovery	=	120.880%#	
35) Dibromofluoromethane	5.385	113	96008	49.959	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	99.920%	
50) Toluene-d8	8.647	98	337153	47.962	ug/l	0.00
Spiked Amount	50.000	Range 92 - 112	Recovery	=	95.920%	
62) 4-Bromofluorobenzene	11.079	95	132659	46.751	ug/l	0.00
Spiked Amount	50.000	Range 83 - 123	Recovery	=	93.500%	
Target Compounds						
						Qvalue
11) Tert butyl alcohol	2.946	59	5171	13.293	ug/l #	78
16) Acetone	2.386	43	131569	124.459	ug/l	97
18) Methyl Acetate	2.703	43	5658	1.411	ug/l	95
20) Methylene Chloride	2.794	84	6772	3.536	ug/l	94
25) 2-Butanone	4.562	43	41080	27.757	ug/l	93
29) Tetrahydrofuran	5.031	42	1348	1.434	ug/l #	84
31) Cyclohexane	5.550	56	4184	1.533	ug/l #	26
36) 1,1-Dichloropropene	5.550	75	14258	5.037	ug/l #	51
37) Ethyl Acetate	4.714	43	52373	15.880	ug/l	99
38) Carbon Tetrachloride	5.556	117	17234	6.263	ug/l #	15
43) Isopropyl Acetate	6.342	43	206440	40.901	ug/l	98
48) Methyl methacrylate	7.799	41	185136	71.493	ug/l #	48
49) 1,4-Dioxane	7.696	88	21	0.484	ug/l #	1
51) 4-Methyl-2-Pentanone	8.573	43	384842	120.752	ug/l #	77
53) t-1,3-Dichloropropene	8.951	75	1079	0.362	ug/l #	43
54) cis-1,3-Dichloropropene	8.549	75	64333	20.122	ug/l #	65
57) 1,3-Dichloropropane	9.482	76	8069	2.204	ug/l #	42
59) 2-Hexanone	9.482	43	129897	54.823	ug/l #	50
74) N-amyl acetate	10.640	43	51486	13.250	ug/l #	53
76) 1,2,3-Trichloropropane	11.079	75	75167	27.330	ug/l #	39
81) trans-1,4-Dichloro-2-b...	11.079	75	75167	95.662	ug/l #	5

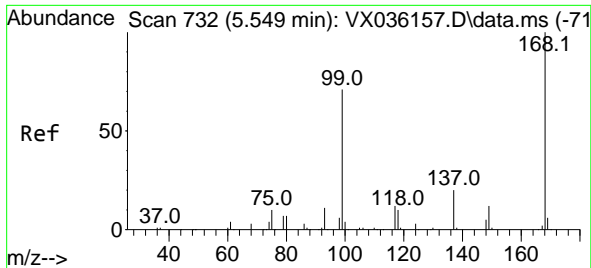
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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 ALS Vial : 19 Sample Multiplier: 1

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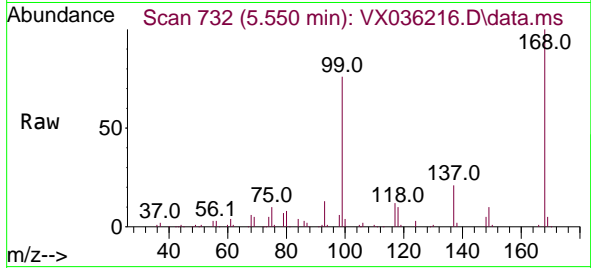
Quant Time: Jun 20 03:47:27 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X061623W.M  
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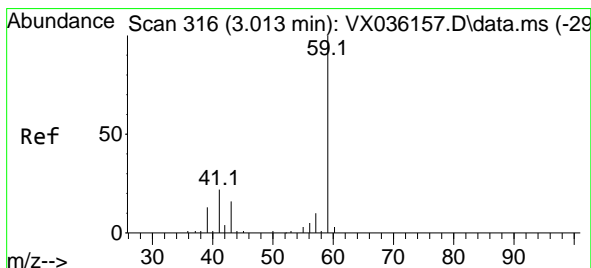
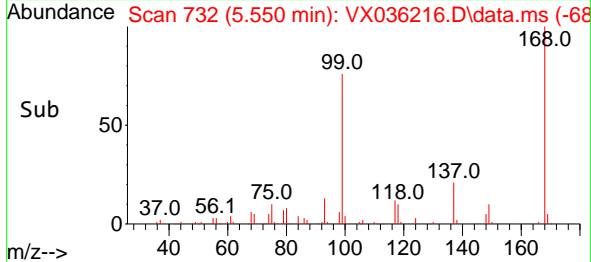
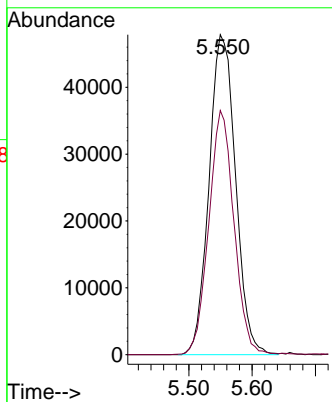


#1  
 Pentafluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.550 min Scan# 71  
 Delta R.T. 0.001 min  
 Lab File: VX036216.D  
 Acq: 19 Jun 2023 19:12

Instrument :  
 MSVOA\_X  
 ClientSampleId :

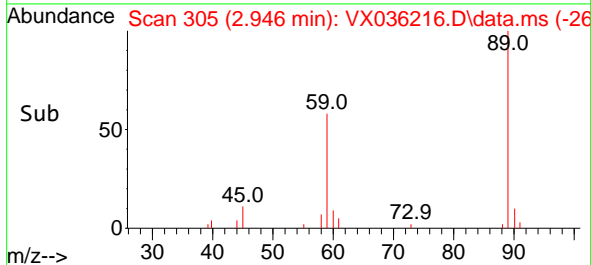
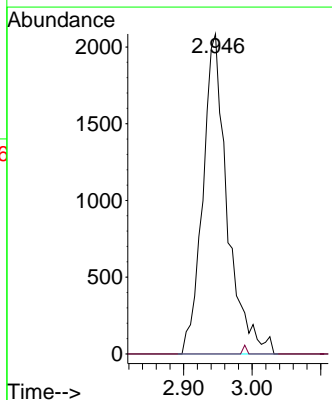
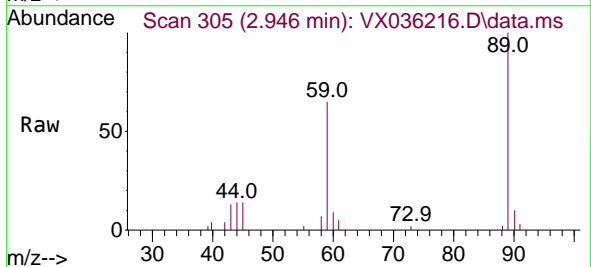


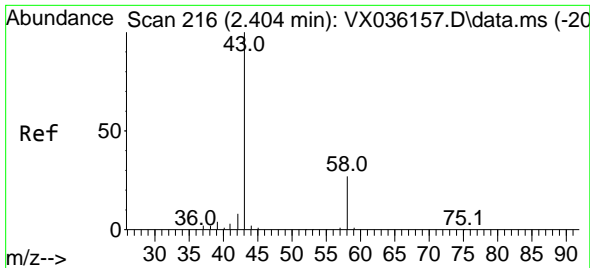
Tgt Ion:168 Resp: 139235  
 Ion Ratio Lower Upper  
 168 100  
 99 76.2 56.6 85.0



#11  
 Tert butyl alcohol  
 Concen: 13.293 ug/l  
 RT: 2.946 min Scan# 305  
 Delta R.T. -0.067 min  
 Lab File: VX036216.D  
 Acq: 19 Jun 2023 19:12

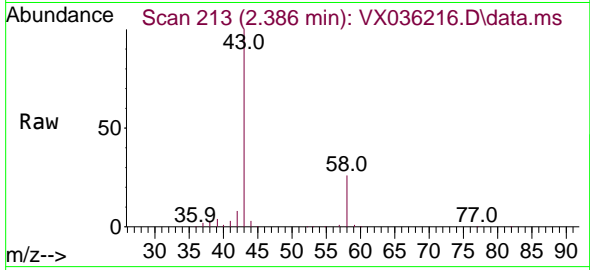
Tgt Ion: 59 Resp: 5171  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 6.0 9.0#



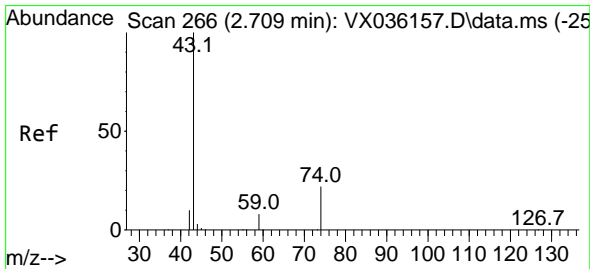
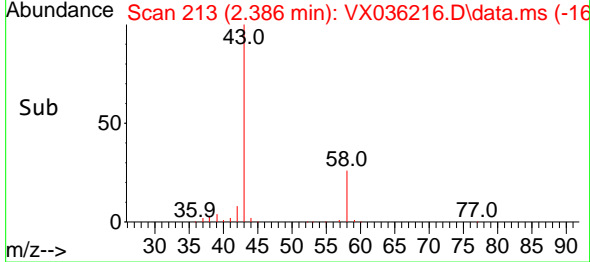
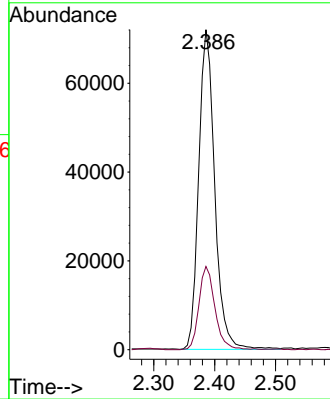


#16  
 Acetone  
 Concen: 124.459 ug/l  
 RT: 2.386 min Scan# 216  
 Delta R.T. -0.018 min  
 Lab File: VX036216.D  
 Acq: 19 Jun 2023 19:12

Instrument : MSVOA\_X  
 ClientSampleId :

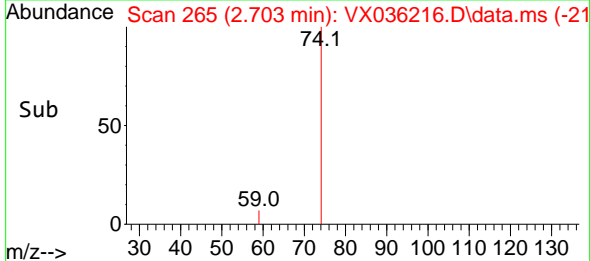
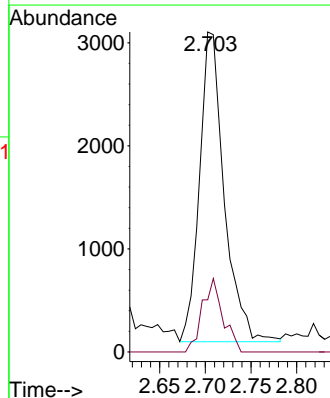
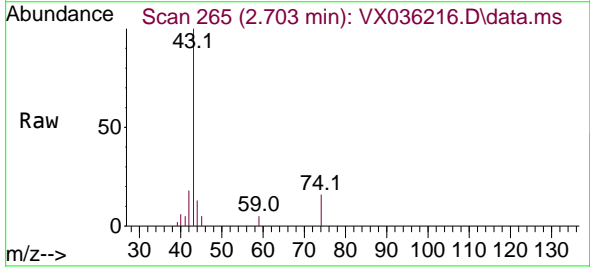


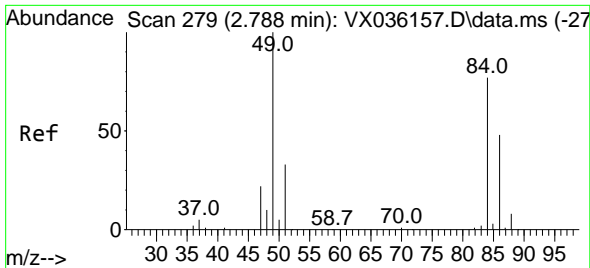
Tgt Ion: 43 Resp: 131569  
 Ion Ratio Lower Upper  
 43 100  
 58 26.0 21.9 32.9



#18  
 Methyl Acetate  
 Concen: 1.411 ug/l  
 RT: 2.703 min Scan# 265  
 Delta R.T. -0.006 min  
 Lab File: VX036216.D  
 Acq: 19 Jun 2023 19:12

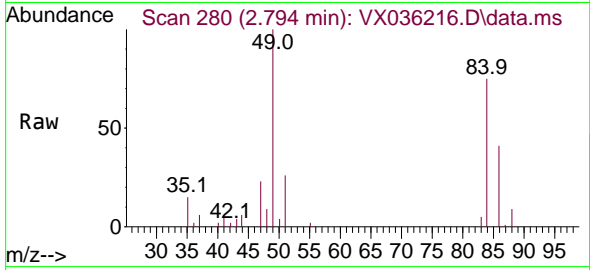
Tgt Ion: 43 Resp: 5658  
 Ion Ratio Lower Upper  
 43 100  
 74 19.7 17.8 26.8





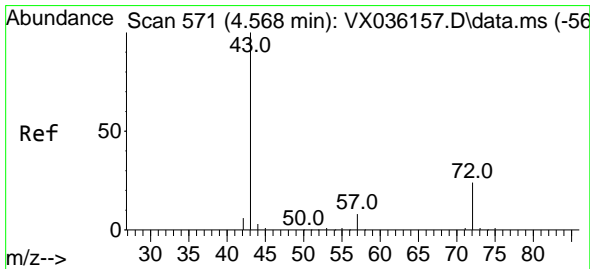
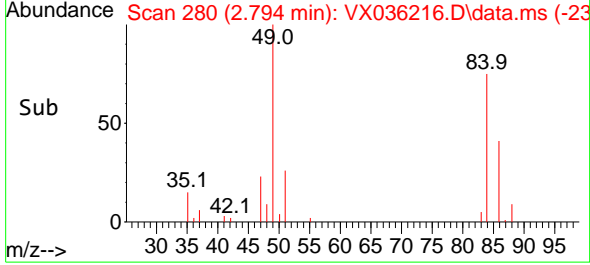
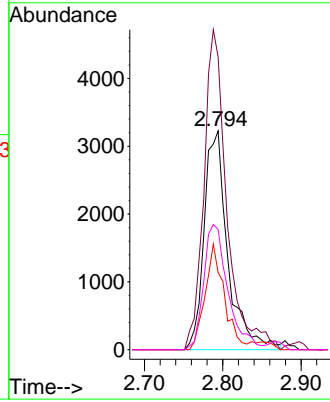
#20  
 Methylene Chloride  
 Concen: 3.536 ug/l  
 RT: 2.794 min Scan# 21  
 Delta R.T. 0.006 min  
 Lab File: VX036216.D  
 Acq: 19 Jun 2023 19:12

Instrument :  
 MSVOA\_X  
 ClientSampleId :



Tgt Ion: 84 Resp: 6772

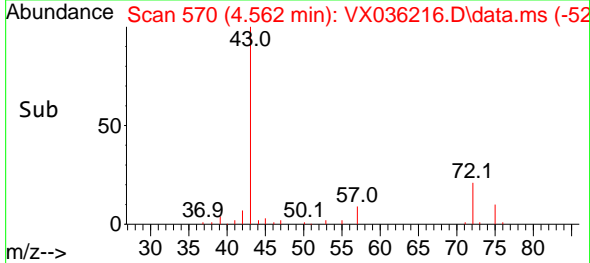
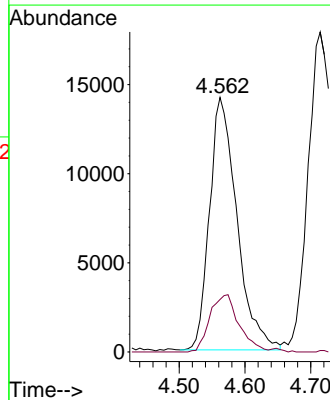
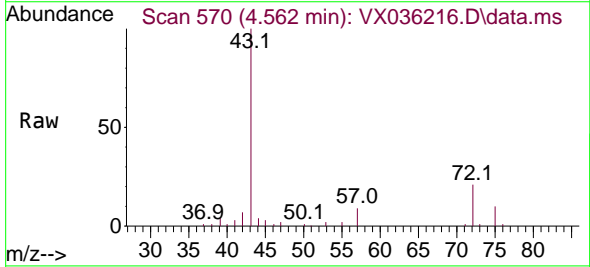
Ion	Ratio	Lower	Upper
84	100		
49	133.9	103.6	155.4
51	35.2	33.8	50.6
86	55.0	49.4	74.0

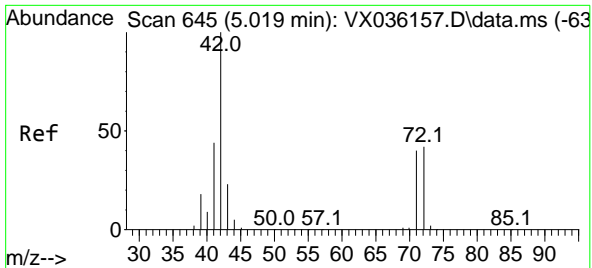


#25  
 2-Butanone  
 Concen: 27.757 ug/l  
 RT: 4.562 min Scan# 570  
 Delta R.T. -0.006 min  
 Lab File: VX036216.D  
 Acq: 19 Jun 2023 19:12

Tgt Ion: 43 Resp: 41080

Ion	Ratio	Lower	Upper
43	100		
72	20.8	19.4	29.2

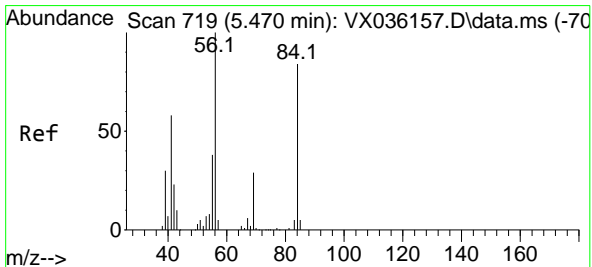
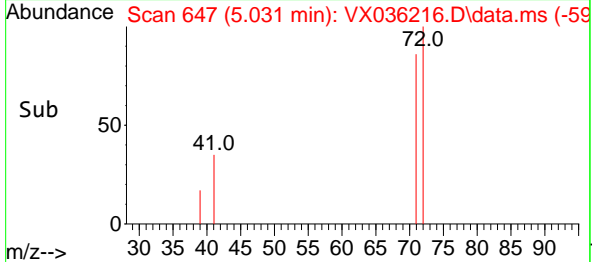
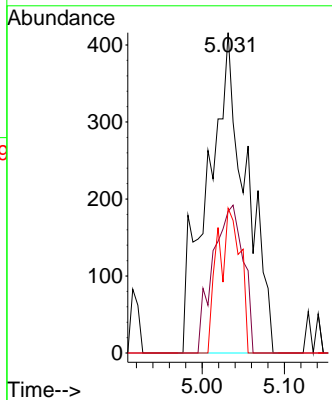
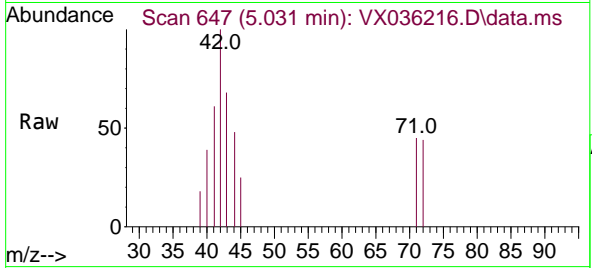




#29  
 Tetrahydrofuran  
 Concen: 1.434 ug/l  
 RT: 5.031 min Scan# 64  
 Delta R.T. 0.012 min  
 Lab File: VX036216.D  
 Acq: 19 Jun 2023 19:12

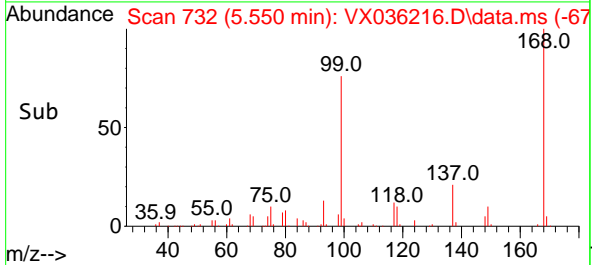
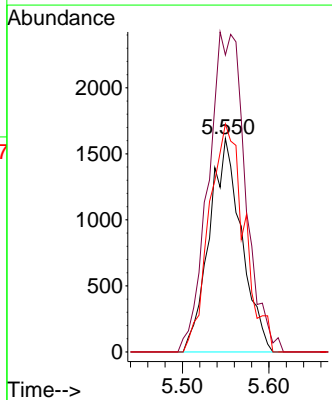
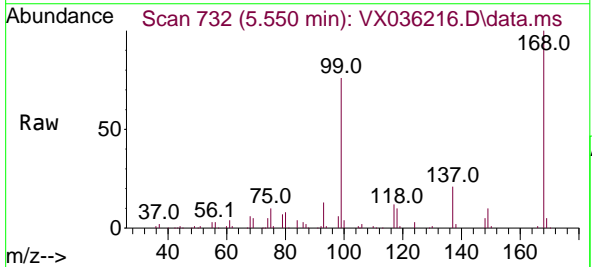
Instrument :  
 MSVOA\_X  
 ClientSampleId :

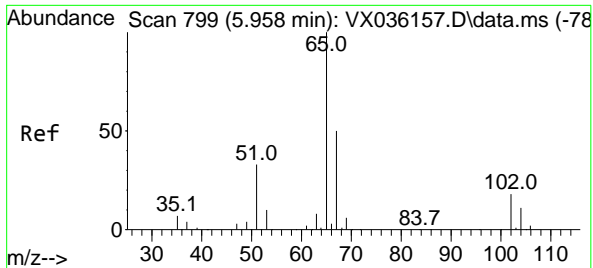
Tgt Ion	Resp	Lower	Upper
42	1348		
72	36.5	34.2	51.4
71	26.6	32.2	48.2#



#31  
 Cyclohexane  
 Concen: 1.533 ug/l  
 RT: 5.550 min Scan# 732  
 Delta R.T. 0.080 min  
 Lab File: VX036216.D  
 Acq: 19 Jun 2023 19:12

Tgt Ion	Resp	Lower	Upper
56	4184		
69	139.1	23.4	35.2#
84	106.8	65.9	98.9#

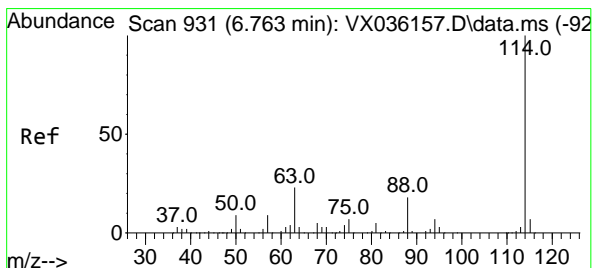
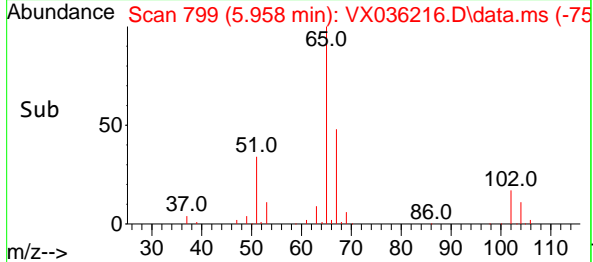
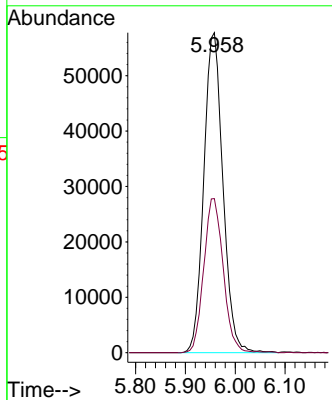
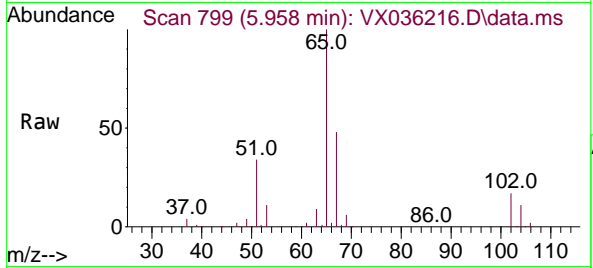




#33  
 1,2-Dichloroethane-d4  
 Concen: 60.437 ug/l  
 RT: 5.958 min Scan# 799  
 Delta R.T. 0.000 min  
 Lab File: VX036216.D  
 Acq: 19 Jun 2023 19:12

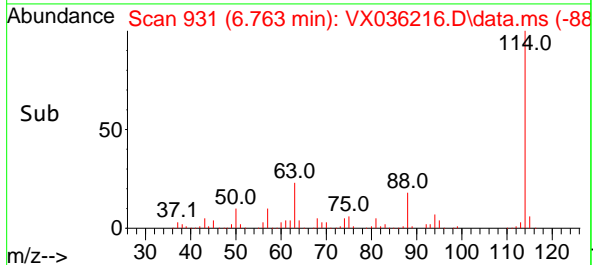
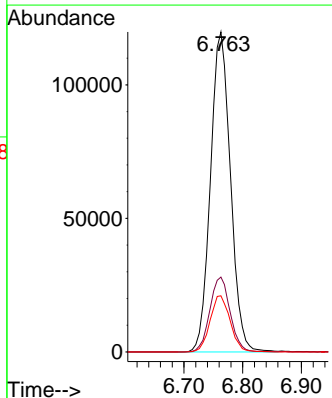
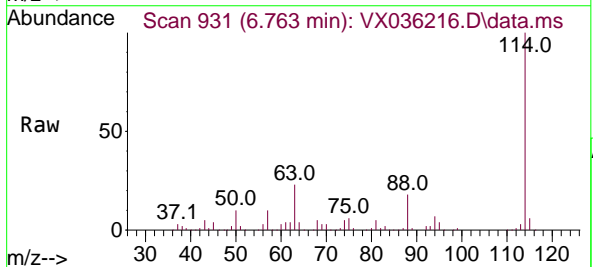
Instrument : MSVOA\_X  
 ClientSampleId :

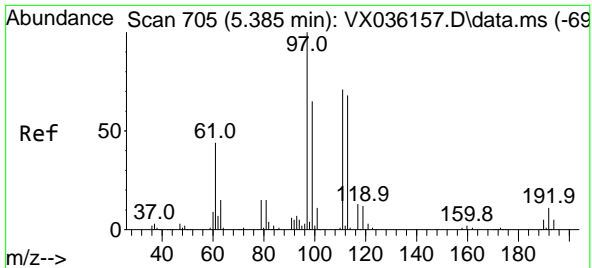
Tgt Ion: 65 Resp: 153778  
 Ion Ratio Lower Upper  
 65 100  
 67 49.1 0.0 100.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.763 min Scan# 931  
 Delta R.T. -0.000 min  
 Lab File: VX036216.D  
 Acq: 19 Jun 2023 19:12

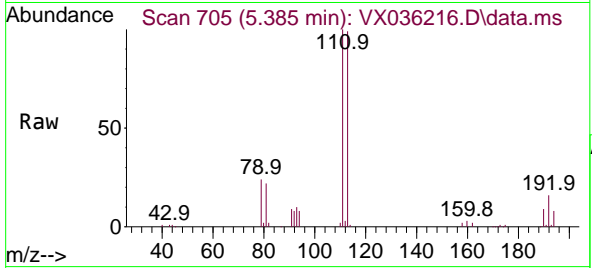
Tgt Ion:114 Resp: 283392  
 Ion Ratio Lower Upper  
 114 100  
 63 23.4 0.0 45.0  
 88 17.6 0.0 36.6





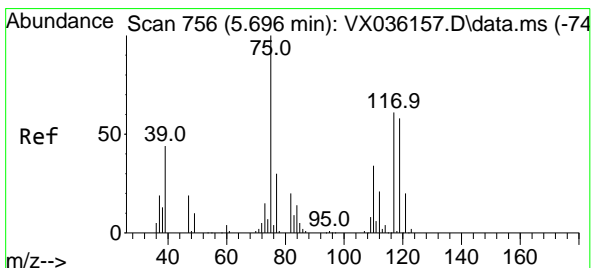
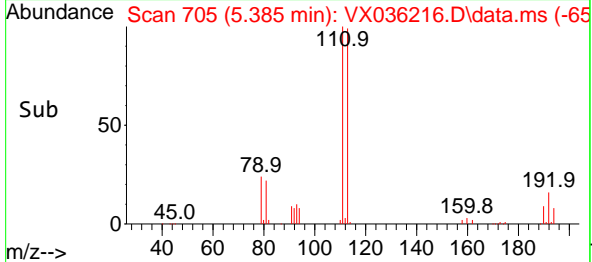
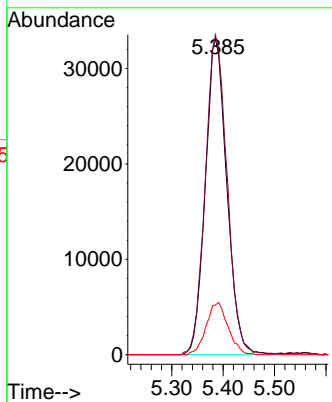
#35  
 Dibromofluoromethane  
 Concen: 49.959 ug/l  
 RT: 5.385 min Scan# 705  
 Delta R.T. 0.000 min  
 Lab File: VX036216.D  
 Acq: 19 Jun 2023 19:12

Instrument : MSVOA\_X  
 ClientSampleId :



Tgt Ion: 113 Resp: 96008

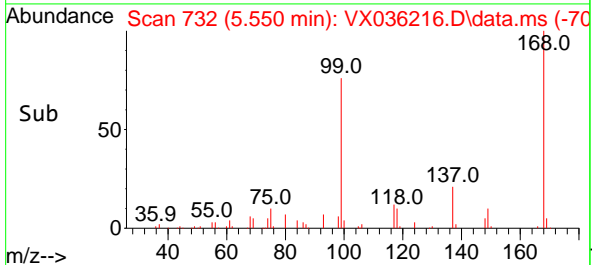
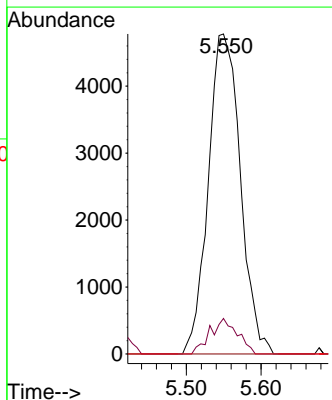
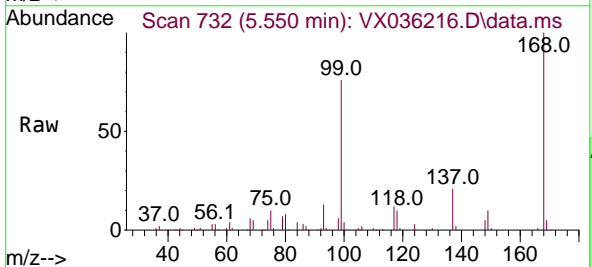
Ion	Ratio	Lower	Upper
113	100		
111	103.1	82.9	124.3
192	16.8	13.3	19.9



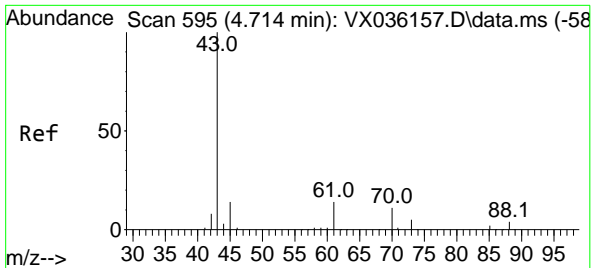
#36  
 1,1-Dichloropropene  
 Concen: 5.037 ug/l  
 RT: 5.550 min Scan# 732  
 Delta R.T. -0.146 min  
 Lab File: VX036216.D  
 Acq: 19 Jun 2023 19:12

Tgt Ion: 75 Resp: 14258

Ion	Ratio	Lower	Upper
75	100		
110	9.5	17.0	50.9#
77	0.0	24.7	37.1#

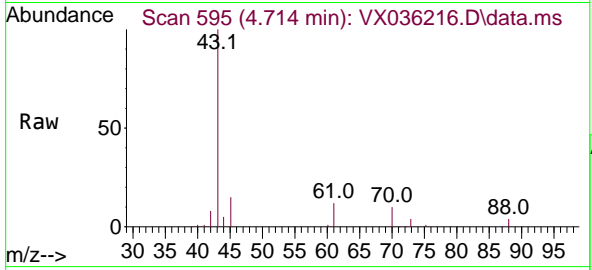






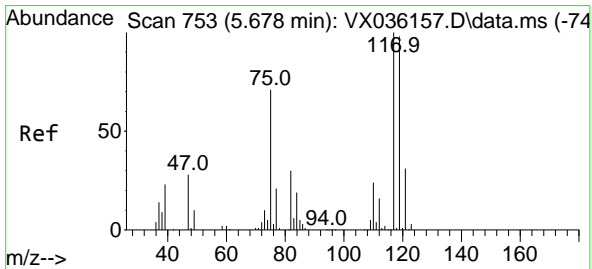
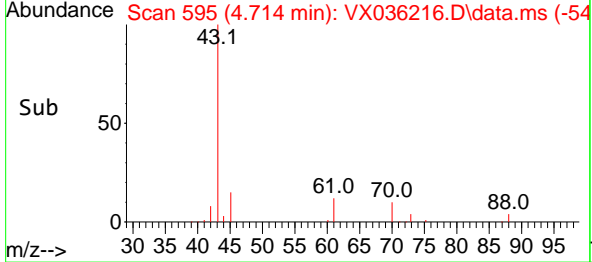
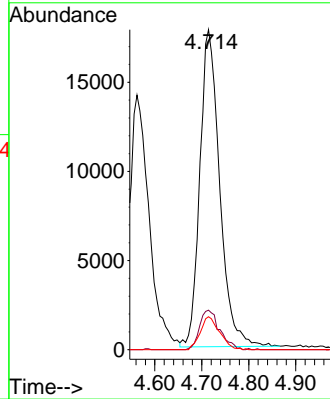
#37  
 Ethyl Acetate  
 Concen: 15.880 ug/l  
 RT: 4.714 min Scan# 595  
 Delta R.T. 0.000 min  
 Lab File: VX036216.D  
 Acq: 19 Jun 2023 19:12

Instrument : MSVOA\_X  
 ClientSampleId :



Tgt Ion: 43 Resp: 52373

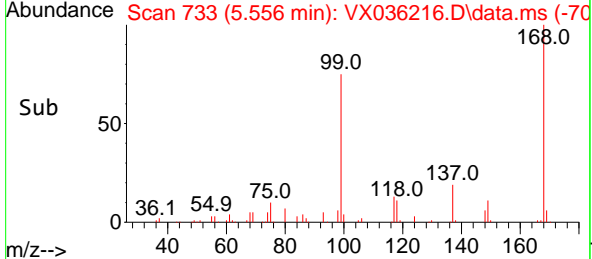
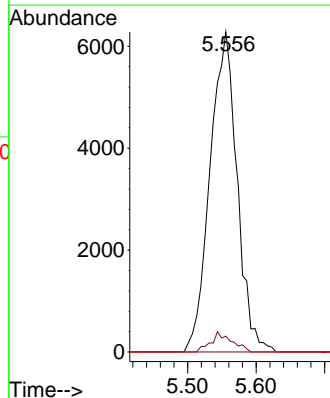
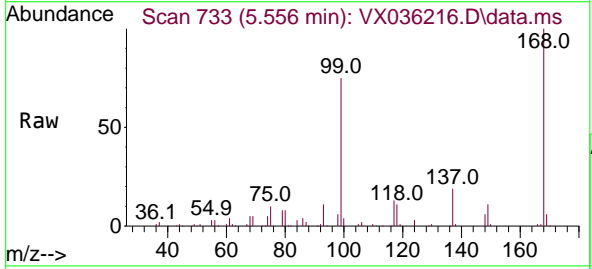
Ion	Ratio	Lower	Upper
43	100		
61	12.6	10.6	16.0
70	10.0	8.3	12.5

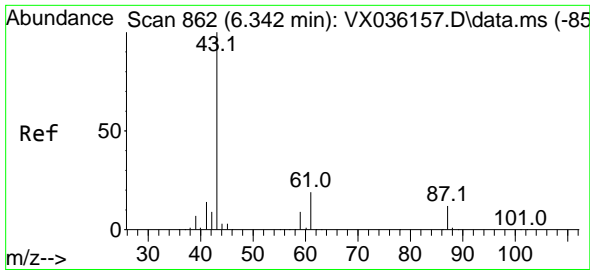


#38  
 Carbon Tetrachloride  
 Concen: 6.263 ug/l  
 RT: 5.556 min Scan# 733  
 Delta R.T. -0.122 min  
 Lab File: VX036216.D  
 Acq: 19 Jun 2023 19:12

Tgt Ion: 117 Resp: 17234

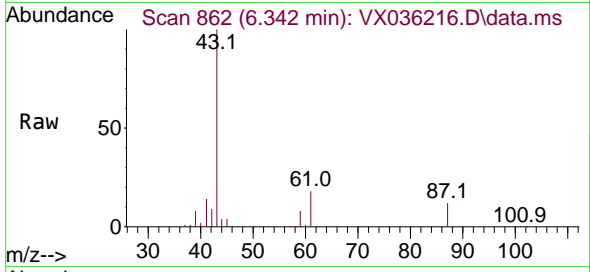
Ion	Ratio	Lower	Upper
117	100		
119	4.9	78.2	117.2#
121	0.0	24.4	36.6#



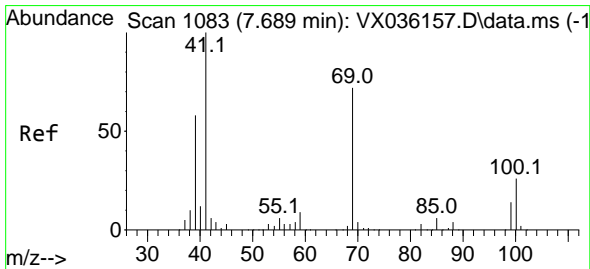
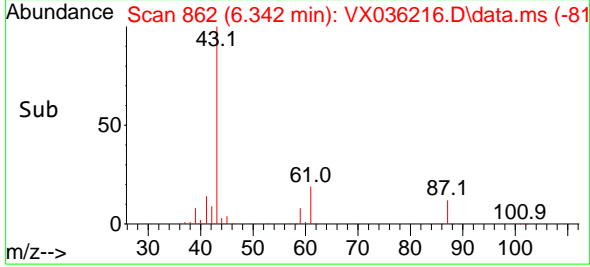
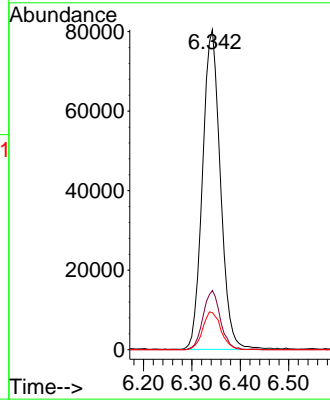


#43  
 Isopropyl Acetate  
 Concen: 40.901 ug/l  
 RT: 6.342 min Scan# 80  
 Delta R.T. 0.000 min  
 Lab File: VX036216.D  
 Acq: 19 Jun 2023 19:12

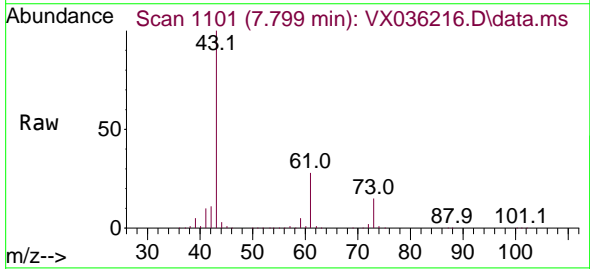
Instrument :  
 MSVOA\_X  
 ClientSampleId :



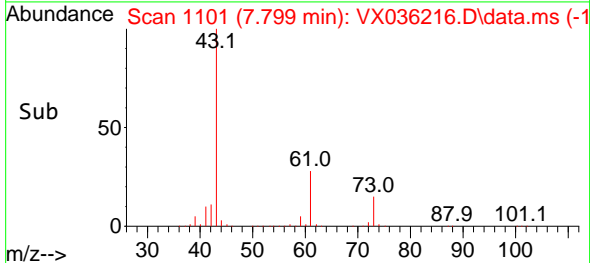
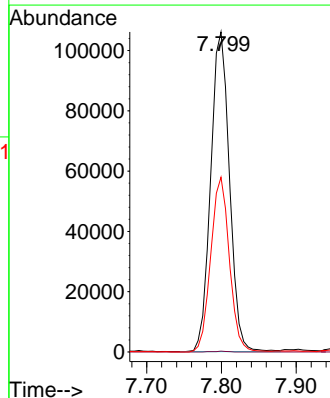
Tgt Ion: 43 Resp: 206440  
 Ion Ratio Lower Upper  
 43 100  
 61 17.9 15.2 22.8  
 87 12.1 9.8 14.6

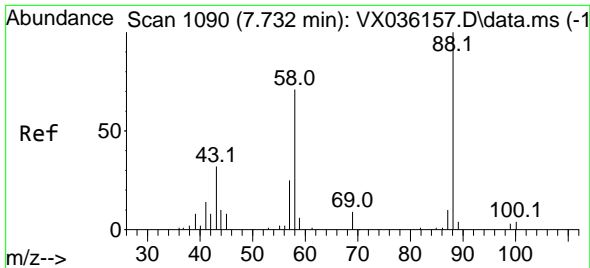


#48  
 Methyl methacrylate  
 Concen: 71.493 ug/l  
 RT: 7.799 min Scan# 1101  
 Delta R.T. 0.110 min  
 Lab File: VX036216.D  
 Acq: 19 Jun 2023 19:12



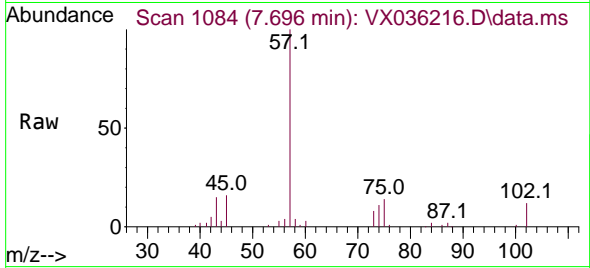
Tgt Ion: 41 Resp: 185136  
 Ion Ratio Lower Upper  
 41 100  
 69 0.2 59.2 88.8#  
 39 54.3 47.7 71.5



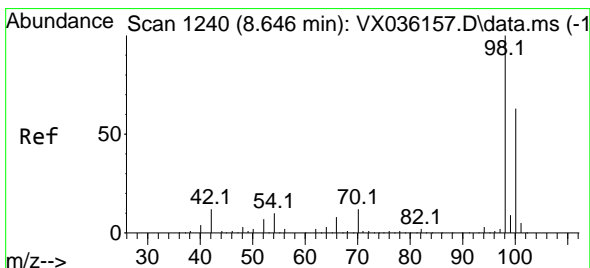
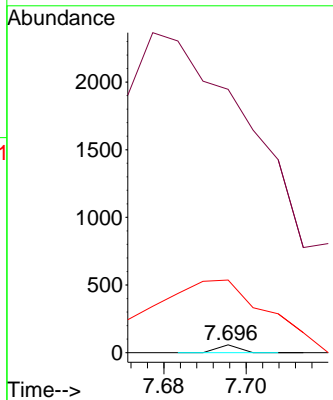
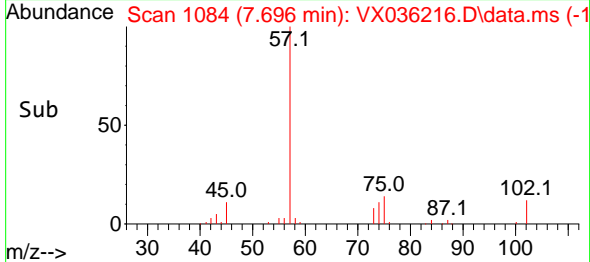


#49  
 1,4-Dioxane  
 Concen: 0.484 ug/l  
 RT: 7.696 min Scan# 1084  
 Delta R.T. -0.036 min  
 Lab File: VX036216.D  
 Acq: 19 Jun 2023 19:12

Instrument : MSVOA\_X  
 ClientSampleId :

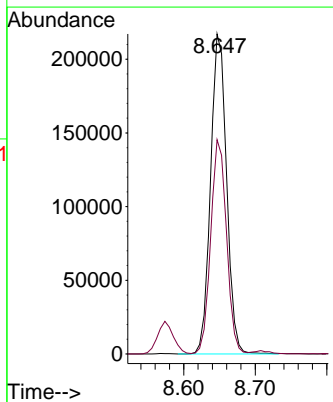
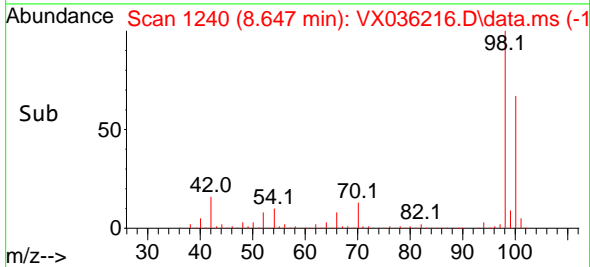
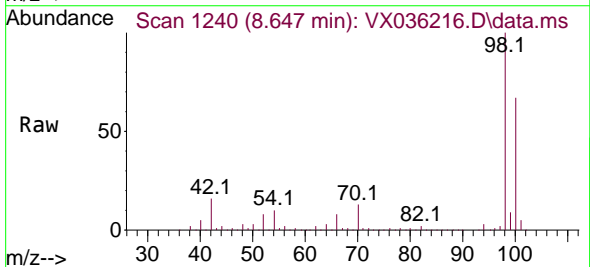


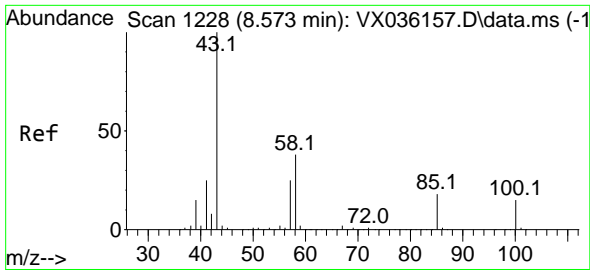
Tgt Ion: 88 Resp: 21  
 Ion Ratio Lower Upper  
 88 100  
 43 0.0 0.0 0.0  
 58 4552.4 60.1 90.1#



#50  
 Toluene-d8  
 Concen: 47.962 ug/l  
 RT: 8.647 min Scan# 1240  
 Delta R.T. 0.001 min  
 Lab File: VX036216.D  
 Acq: 19 Jun 2023 19:12

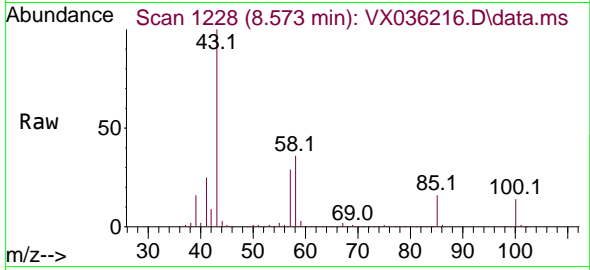
Tgt Ion: 98 Resp: 337153  
 Ion Ratio Lower Upper  
 98 100  
 100 65.5 53.1 79.7



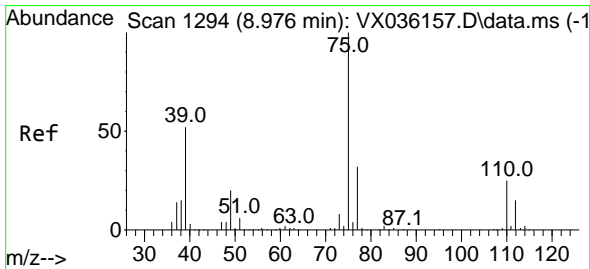
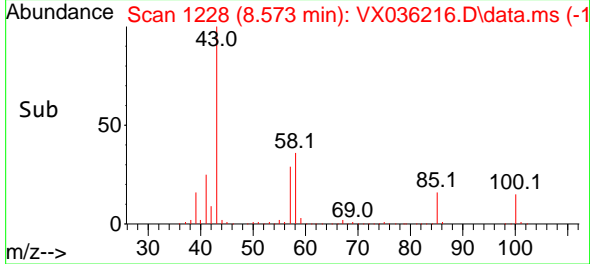
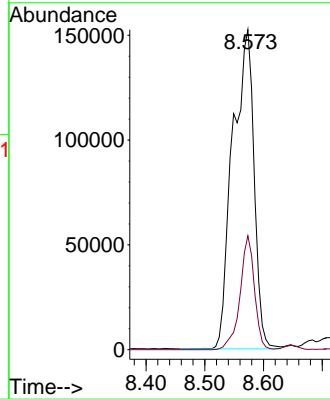


#51  
 4-Methyl-2-Pentanone  
 Concen: 120.752 ug/l  
 RT: 8.573 min Scan# 11  
 Delta R.T. 0.000 min  
 Lab File: VX036216.D  
 Acq: 19 Jun 2023 19:12

Instrument :  
 MSVOA\_X  
 ClientSampleId :

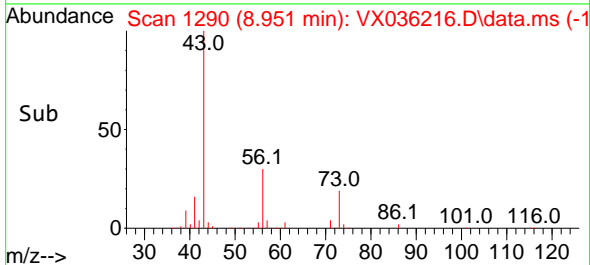
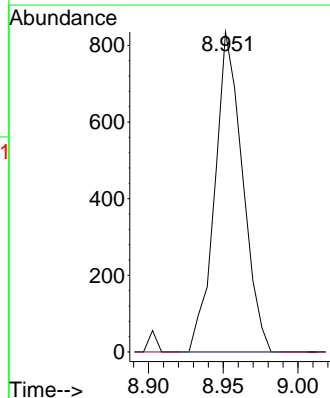
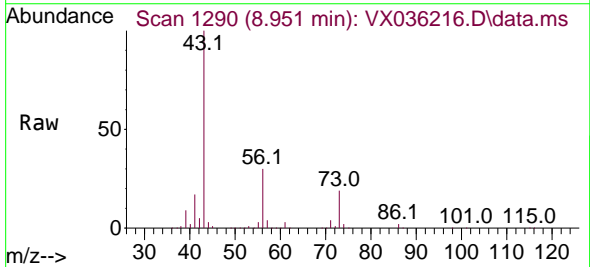


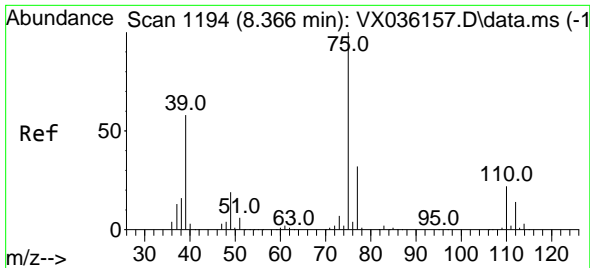
Tgt Ion: 43 Resp: 384842  
 Ion Ratio Lower Upper  
 43 100  
 58 24.1 30.4 45.6#



#53  
 t-1,3-Dichloropropene  
 Concen: 0.362 ug/l  
 RT: 8.951 min Scan# 1290  
 Delta R.T. -0.025 min  
 Lab File: VX036216.D  
 Acq: 19 Jun 2023 19:12

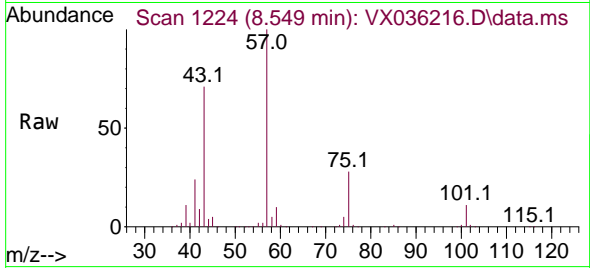
Tgt Ion: 75 Resp: 1079  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 25.7 38.5#



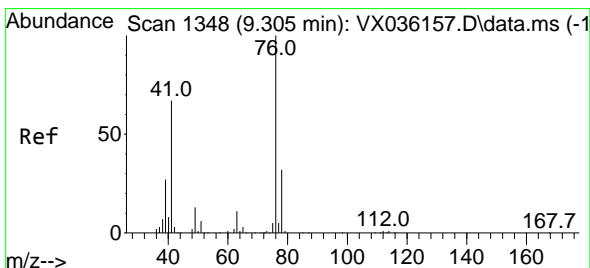
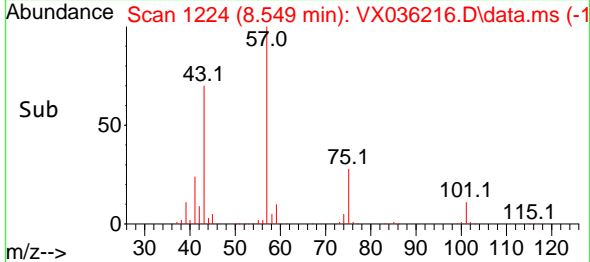
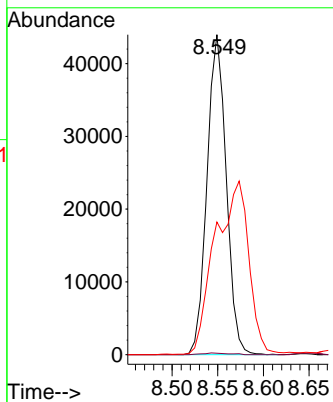


#54  
 cis-1,3-Dichloropropene  
 Concen: 20.122 ug/l  
 RT: 8.549 min Scan# 1194  
 Delta R.T. 0.183 min  
 Lab File: VX036216.D  
 Acq: 19 Jun 2023 19:12

Instrument : MSVOA\_X  
 ClientSampleId :

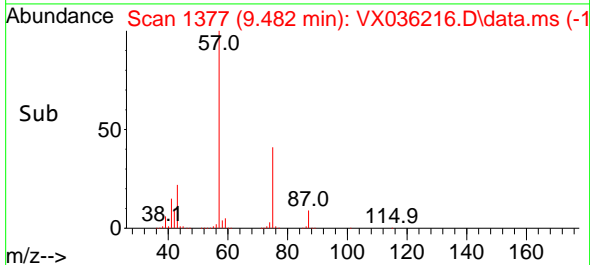
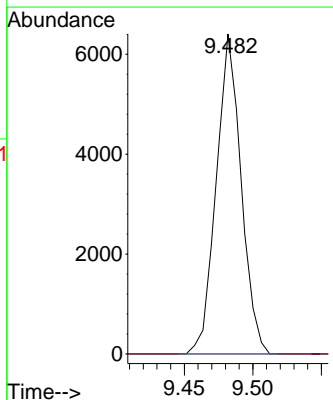
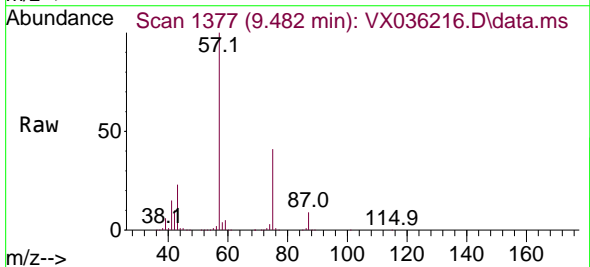


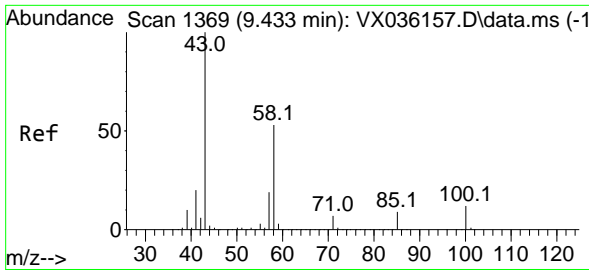
Tgt Ion: 75 Resp: 64333  
 Ion Ratio Lower Upper  
 75 100  
 77 0.4 25.3 37.9#  
 39 41.3 46.7 70.1#



#57  
 1,3-Dichloropropane  
 Concen: 2.204 ug/l  
 RT: 9.482 min Scan# 1377  
 Delta R.T. 0.177 min  
 Lab File: VX036216.D  
 Acq: 19 Jun 2023 19:12

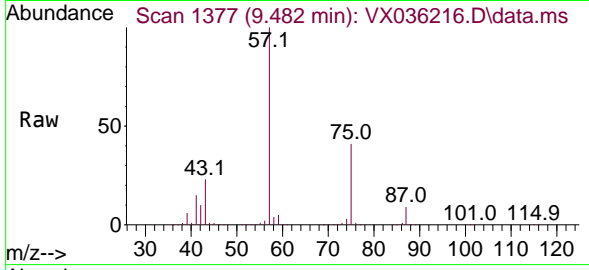
Tgt Ion: 76 Resp: 8069  
 Ion Ratio Lower Upper  
 76 100  
 78 0.0 26.1 39.1#



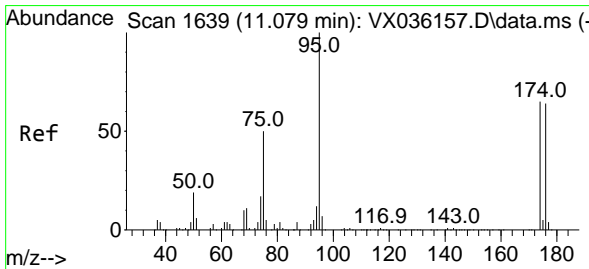
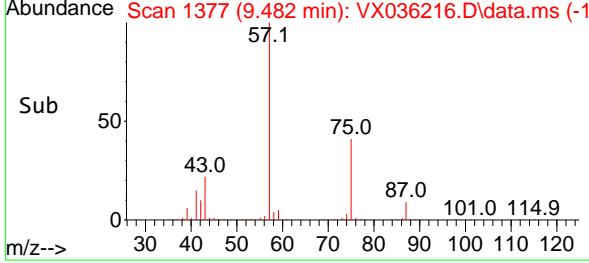
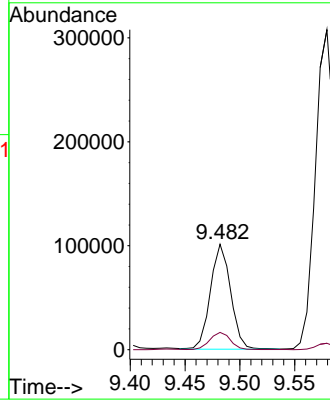


#59  
 2-Hexanone  
 Concen: 54.823 ug/l  
 RT: 9.482 min Scan# 11  
 Delta R.T. 0.049 min  
 Lab File: VX036216.D  
 Acq: 19 Jun 2023 19:12

Instrument :  
 MSVOA\_X  
 ClientSampleId :

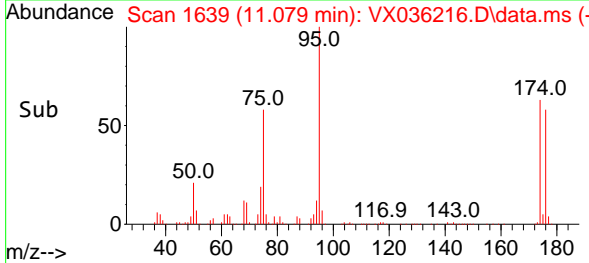
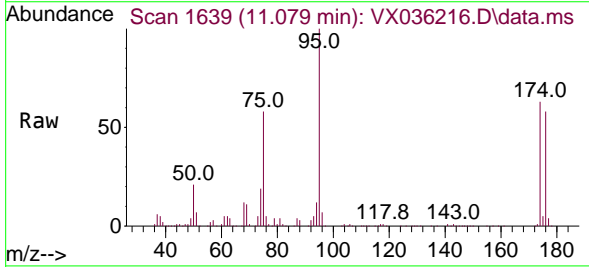
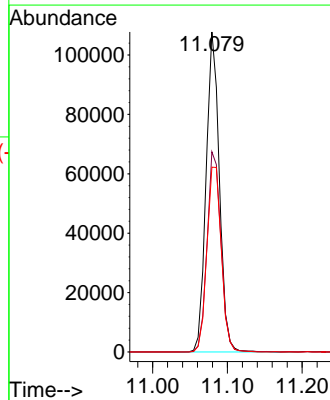


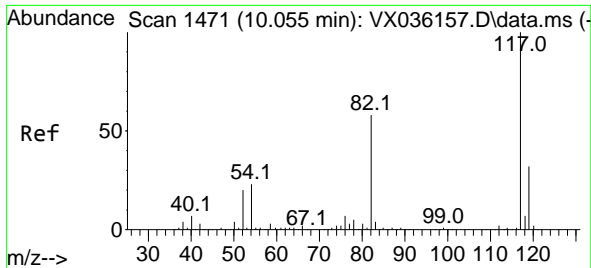
Tgt Ion: 43 Resp: 129897  
 Ion Ratio Lower Upper  
 43 100  
 58 17.0 26.2 78.5#



#62  
 4-Bromofluorobenzene  
 Concen: 46.751 ug/l  
 RT: 11.079 min Scan# 1639  
 Delta R.T. 0.000 min  
 Lab File: VX036216.D  
 Acq: 19 Jun 2023 19:12

Tgt Ion: 95 Resp: 132659  
 Ion Ratio Lower Upper  
 95 100  
 174 65.6 0.0 135.6  
 176 62.9 0.0 131.0

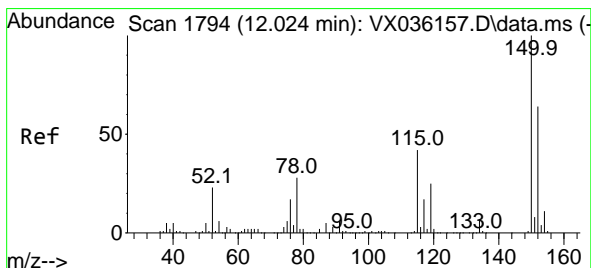
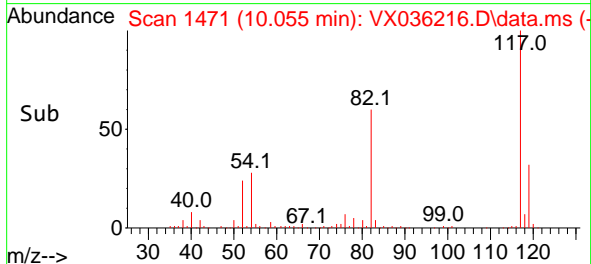
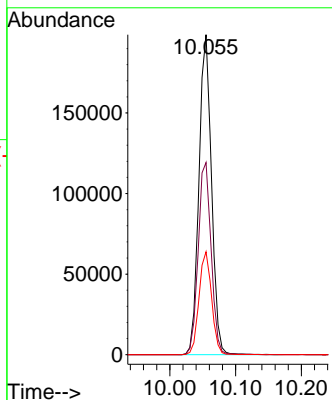
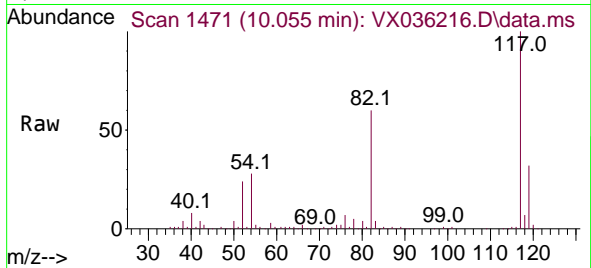




#63  
 Chlorobenzene-d5  
 Concen: 50.000 ug/l  
 RT: 10.055 min Scan# 1471  
 Delta R.T. -0.000 min  
 Lab File: VX036216.D  
 Acq: 19 Jun 2023 19:12

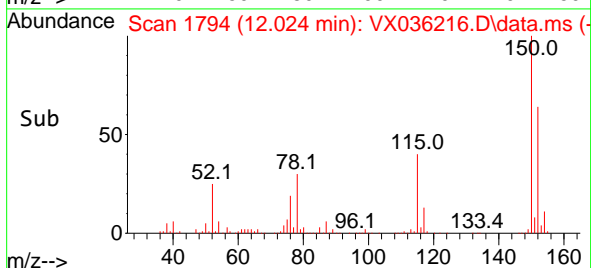
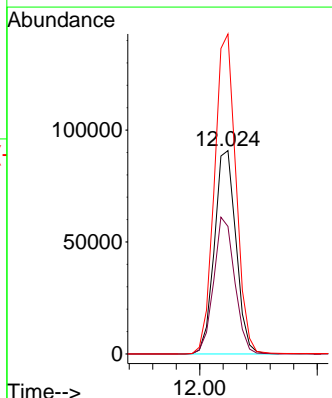
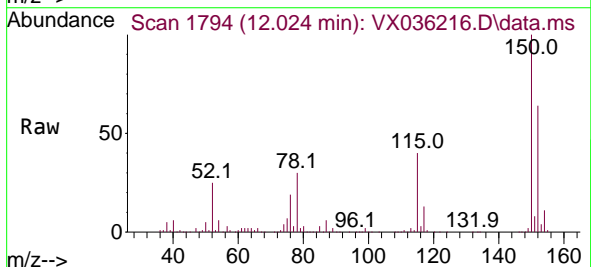
Instrument : MSVOA\_X  
 ClientSampleId :

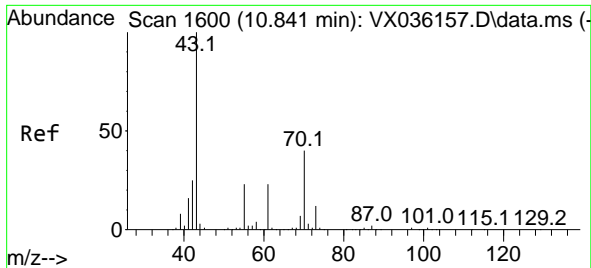
Tgt Ion:117 Resp: 262691  
 Ion Ratio Lower Upper  
 117 100  
 82 60.1 46.2 69.4  
 119 32.1 25.5 38.3



#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.024 min Scan# 1794  
 Delta R.T. 0.000 min  
 Lab File: VX036216.D  
 Acq: 19 Jun 2023 19:12

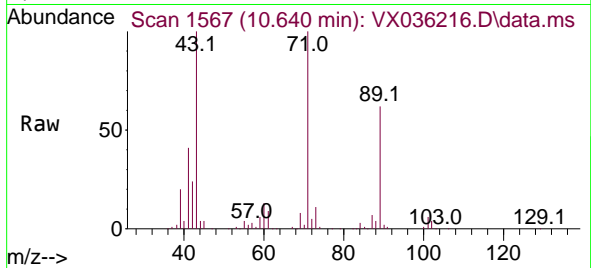
Tgt Ion:152 Resp: 115887  
 Ion Ratio Lower Upper  
 152 100  
 115 65.6 43.3 129.9  
 150 157.2 0.0 345.0





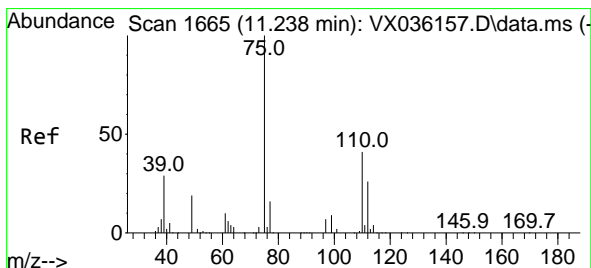
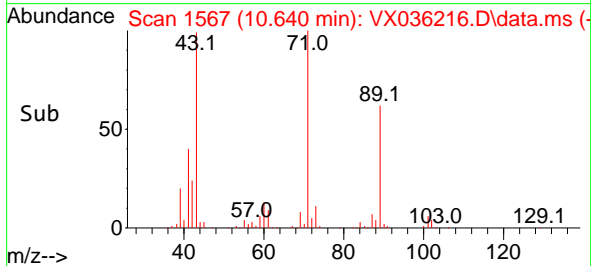
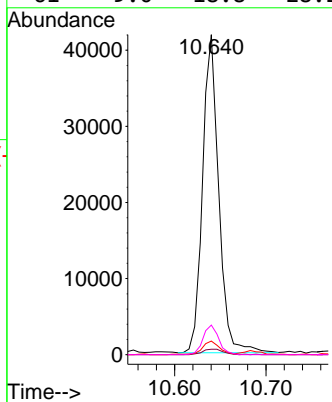
#74  
 N-amy1 acetate  
 Concen: 13.250 ug/l  
 RT: 10.640 min Scan# 1639  
 Delta R.T. -0.201 min  
 Lab File: VX036216.D  
 Acq: 19 Jun 2023 19:12

Instrument : MSVOA\_X  
 ClientSampleId :



Tgt Ion: 43 Resp: 51486

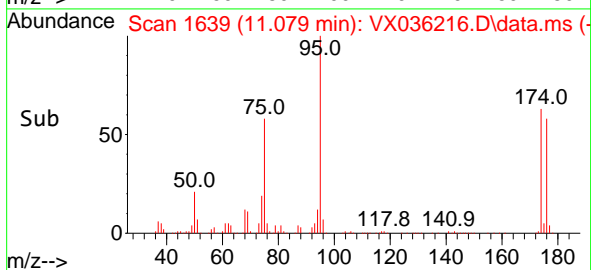
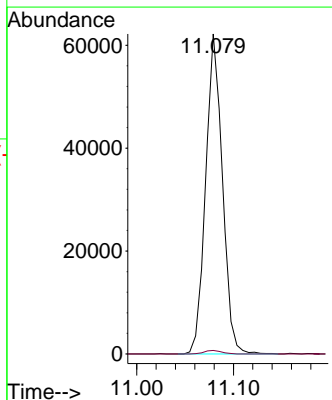
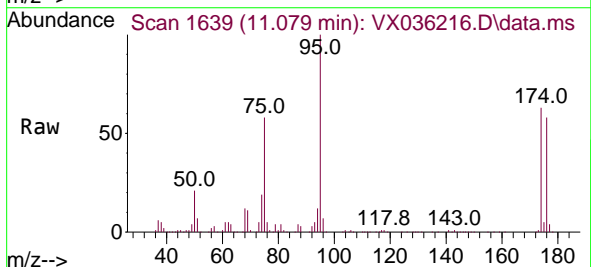
Ion	Ratio	Lower	Upper
43	100		
70	2.2	32.9	49.3#
55	4.6	19.3	28.9#
61	9.0	18.8	28.2#



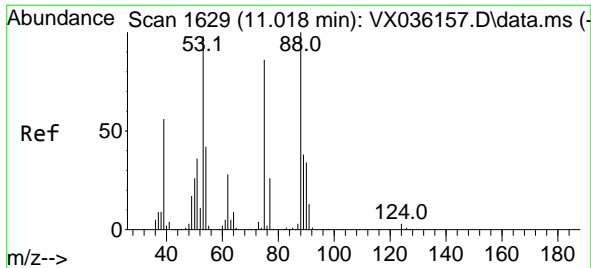
#76  
 1,2,3-Trichloropropane  
 Concen: 27.330 ug/l  
 RT: 11.079 min Scan# 1639  
 Delta R.T. -0.159 min  
 Lab File: VX036216.D  
 Acq: 19 Jun 2023 19:12

Tgt Ion: 75 Resp: 75167

Ion	Ratio	Lower	Upper
75	100		
77	1.2	19.1	57.5#

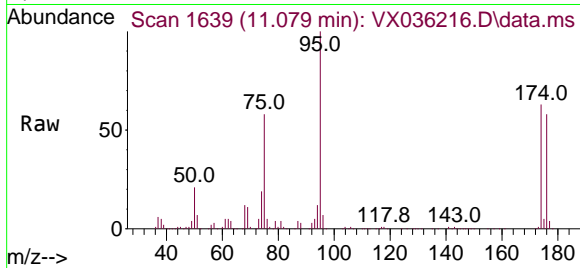






#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 95.662 ug/l  
 RT: 11.079 min Scan# 1  
 Delta R.T. 0.061 min  
 Lab File: VX036216.D  
 Acq: 19 Jun 2023 19:12

Instrument :  
 MSVOA\_X  
 ClientSampleId :



Tgt Ion: 75 Resp: 75167  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 90.5 135.7#  
 89 0.0 36.9 55.3#

