

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071423\
 Data File : VX036545.D
 Acq On : 13 Jul 2023 23:01
 Operator : JC/MD
 Sample : 03593-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 14 04:39:51 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X071423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 14 04:32:22 2023
 Response via : Initial Calibration

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

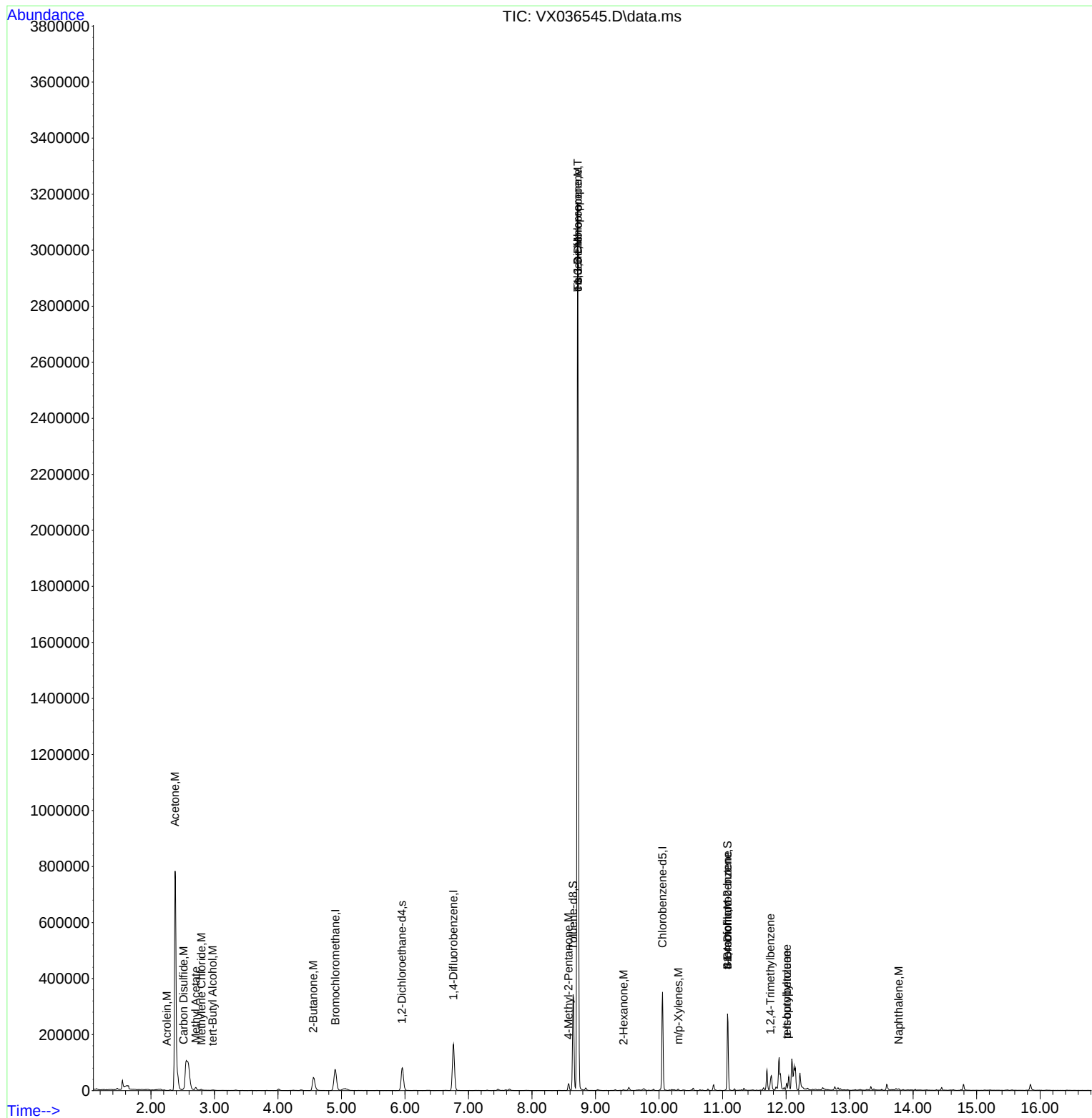
Internal Standards						
1) Bromochloromethane	4.904	128	31592	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	167079	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	154467	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	77491	29.554	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	98.500%
60) 4-Bromofluorobenzene	11.079	95	72621	28.983	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	96.600%
63) Toluene-d8	8.647	98	207294	29.164	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.200%
Target Compounds						
					Qvalue	
12) Methyl Acetate	2.703	43	11048	2.542	ug/l	95
13) Acrolein	2.252	56	84	0.236	ug/l #	1
15) Acetone	2.380	58	266986	774.197	ug/l	100
16) Carbon Disulfide	2.514	76	4671	1.041	ug/l #	87
18) Methylene Chloride	2.794	84	1558	0.700	ug/l #	81
23) tert-Butyl Alcohol	2.971	59	718	1.269	ug/l #	1
30) 2-Butanone	4.556	43	83280	52.497	ug/l	99
48) t-1,3-Dichloropropene	8.720	75	13915	4.584	ug/l #	1
49) cis-1,3-Dichloropropene	8.720	75	13915	4.244	ug/l #	1
56) Bromoform	11.079	173	539	0.371	ug/l #	1
58) 4-Methyl-2-Pentanone	8.574	43	15635	4.895	ug/l	98
59) 2-Hexanone	9.439	43	1394	0.574	ug/l	91
62) Toluene	8.720	91	1958651	225.994	ug/l	98
67) m/p-Xylenes	10.305	106	1221	0.333	ug/l	92
77) t-1,4-Dichloro-2-butene	11.079	75	36621	36.327	ug/l #	7
79) tert-butylbenzene	12.012	119	8590	1.160	ug/l	64
80) 1,2,4-Trimethylbenzene	11.756	105	6827	0.883	ug/l	46
82) p-Isopropyltoluene	12.012	119	8590	1.108	ug/l	99
91) Naphthalene	13.774	128	2865	0.309	ug/l #	90

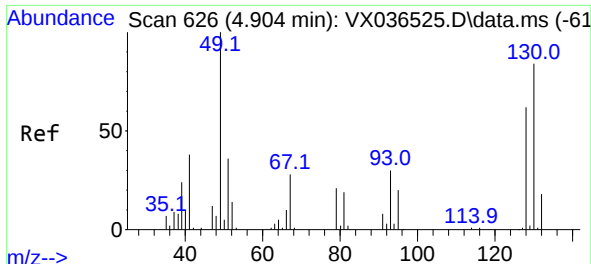
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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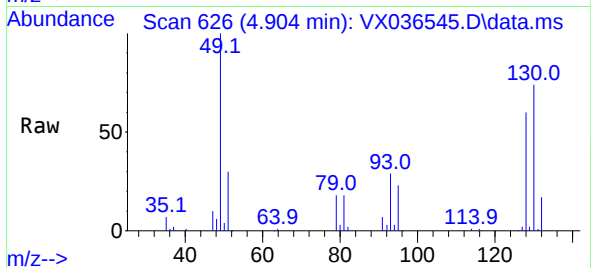
Quant Time: Jul 14 04:39:51 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X071423W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Jul 14 04:32:22 2023
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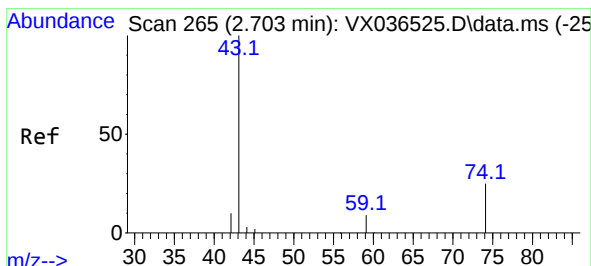
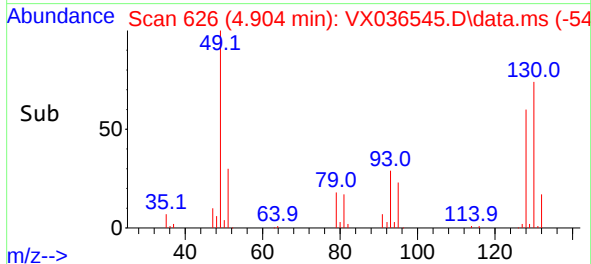
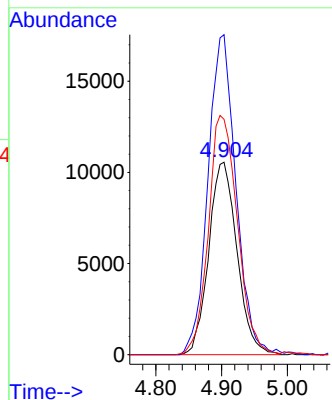


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.904 min Scan# 61
Delta R.T. -0.000 min
Lab File: VX036545.D
Acq: 13 Jul 2023 23:01

Instrument :
MSVOA_X
ClientSampleId :

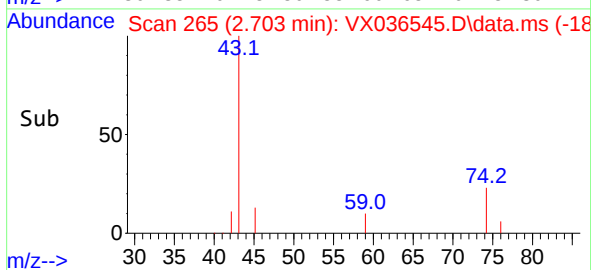
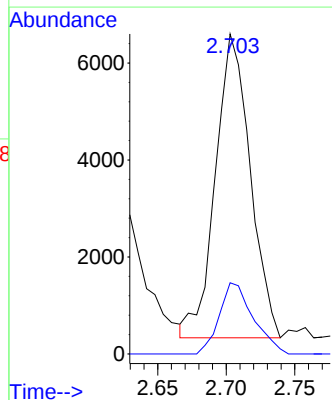
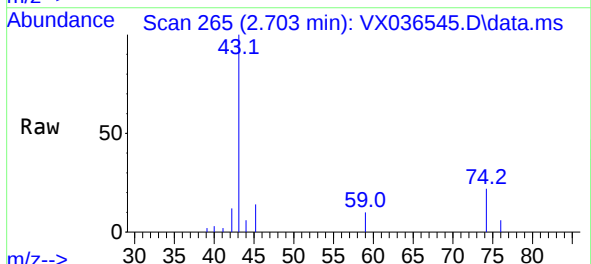


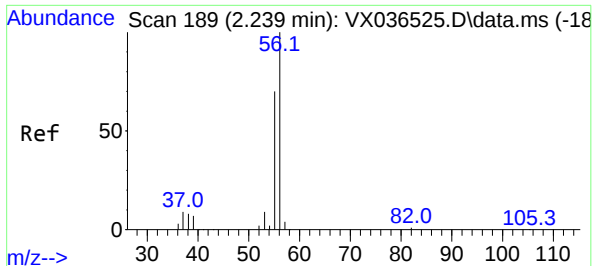
Tgt Ion:128 Resp: 31592
Ion Ratio Lower Upper
128 100
49 163.7 0.0 406.3
130 127.9 0.0 328.0



#12
Methyl Acetate
Concen: 2.542 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX036545.D
Acq: 13 Jul 2023 23:01

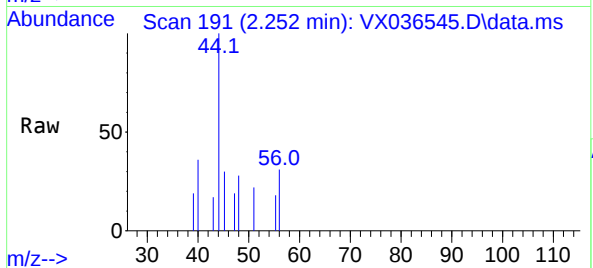
Tgt Ion: 43 Resp: 11048
Ion Ratio Lower Upper
43 100
74 23.1 20.3 30.5



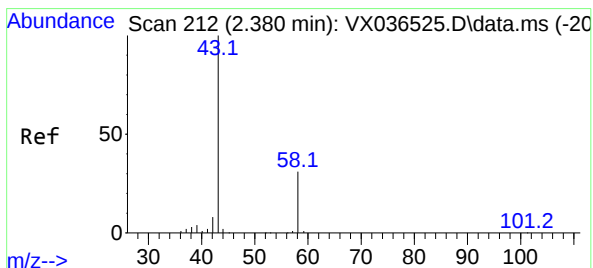
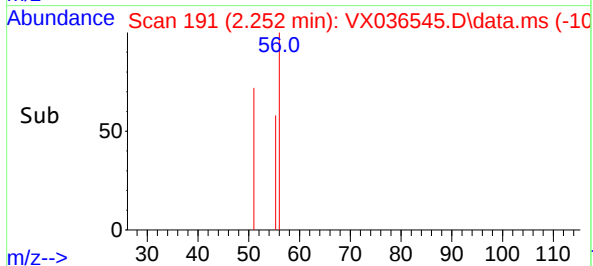
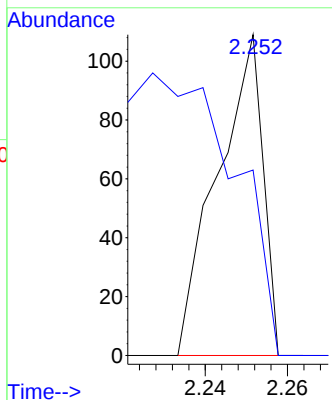


#13
Acrolein
Concen: 0.236 ug/l
RT: 2.252 min Scan# 191
Delta R.T. 0.012 min
Lab File: VX036545.D
Acq: 13 Jul 2023 23:01

Instrument :
MSVOA_X
ClientSampleId :

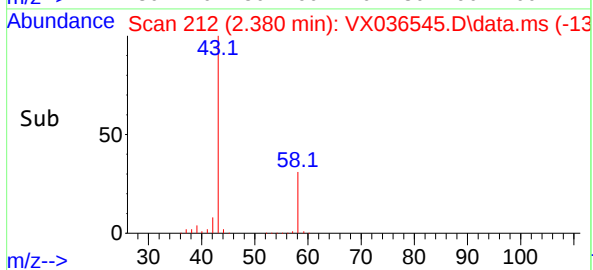
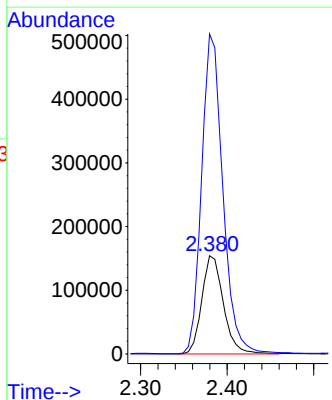
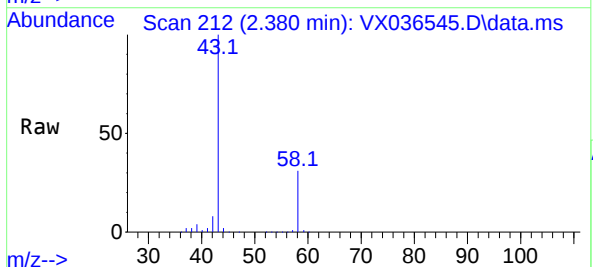


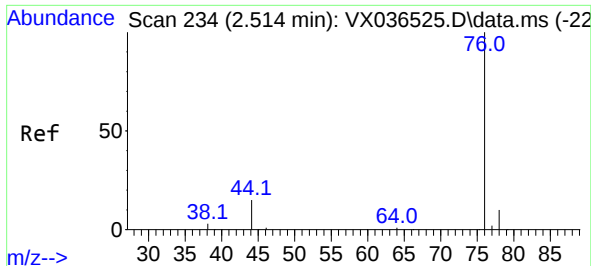
Tgt Ion: 56 Resp: 84
Ion Ratio Lower Upper
56 100
55 210.7 59.7 89.5#



#15
Acetone
Concen: 774.197 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.000 min
Lab File: VX036545.D
Acq: 13 Jul 2023 23:01

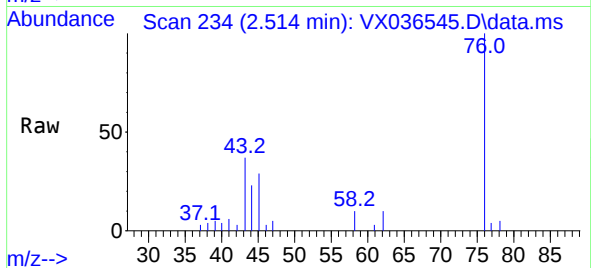
Tgt Ion: 58 Resp: 266986
Ion Ratio Lower Upper
58 100
43 325.9 261.0 391.4



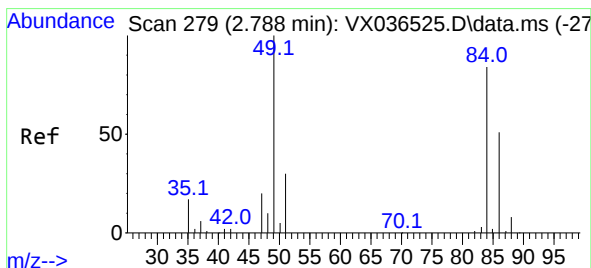
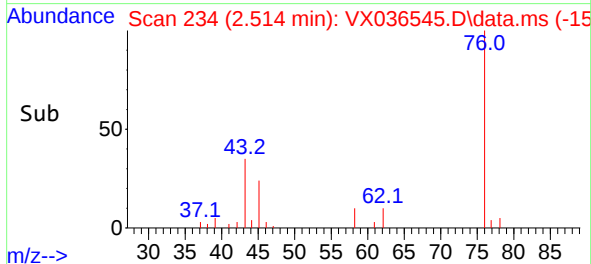
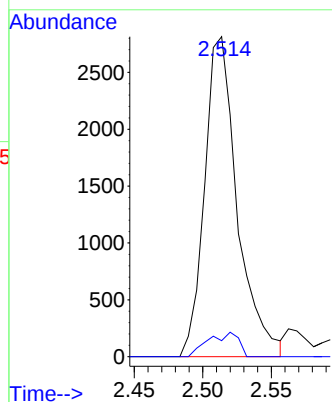


#16
Carbon Disulfide
Concen: 1.041 ug/l
RT: 2.514 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX036545.D
Acq: 13 Jul 2023 23:01

Instrument :
MSVOA_X
ClientSampleId :

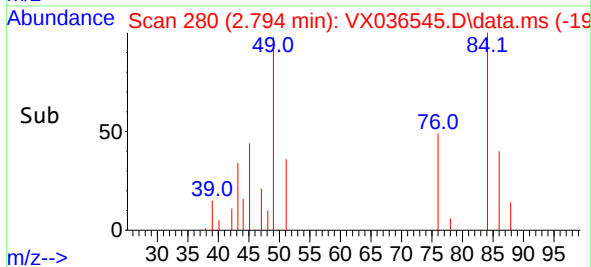
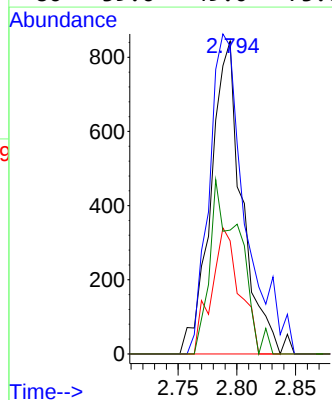
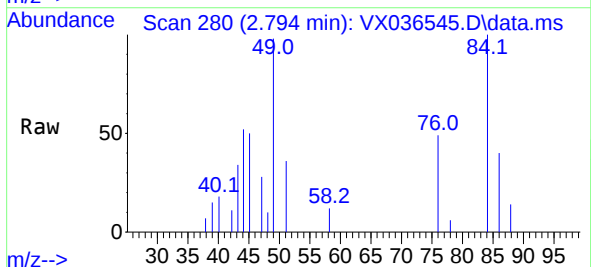


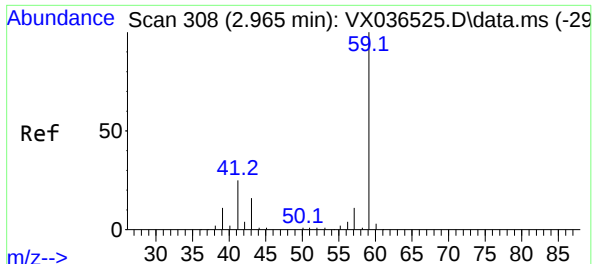
Tgt Ion: 76 Resp: 4671
Ion Ratio Lower Upper
76 100
78 5.0 8.0 12.0#



#18
Methylene Chloride
Concen: 0.700 ug/l
RT: 2.794 min Scan# 280
Delta R.T. 0.006 min
Lab File: VX036545.D
Acq: 13 Jul 2023 23:01

Tgt Ion: 84 Resp: 1558
Ion Ratio Lower Upper
84 100
49 98.5 95.4 143.0
51 36.2 28.3 42.5
86 39.6 49.0 73.6#





#23

tert-Butyl Alcohol

Concen: 1.269 ug/l

RT: 2.971 min Scan# 308

Delta R.T. 0.006 min

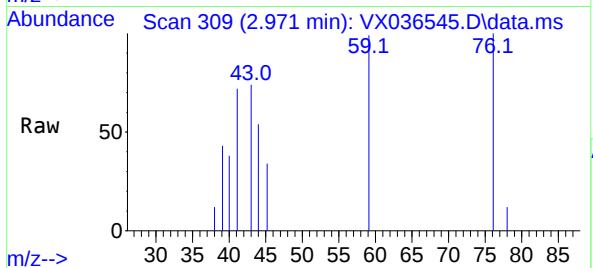
Lab File: VX036545.D

Acq: 13 Jul 2023 23:01

Instrument :

MSVOA_X

ClientSampleId :

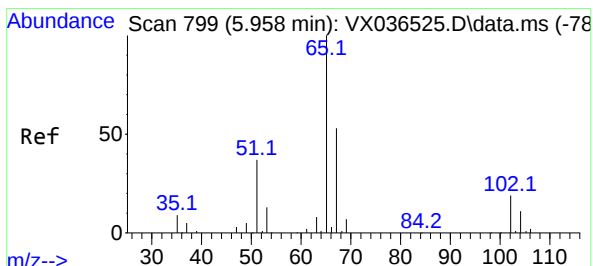
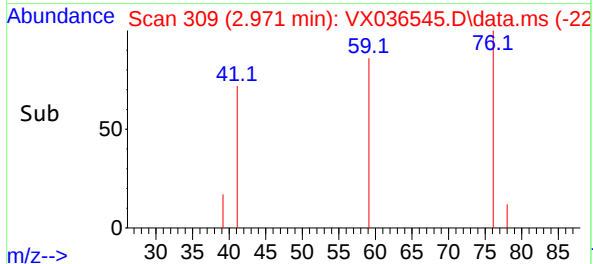
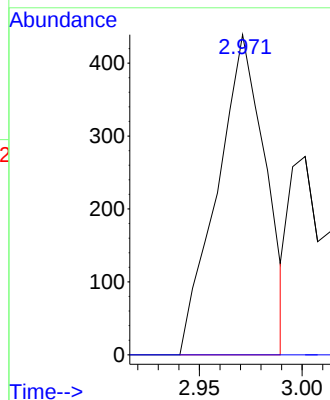


Tgt Ion: 59 Resp: 718

Ion Ratio Lower Upper

59 100

52 0.0 142.6 213.8#



#27

1,2-Dichloroethane-d4

Concen: 29.554 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.006 min

Lab File: VX036545.D

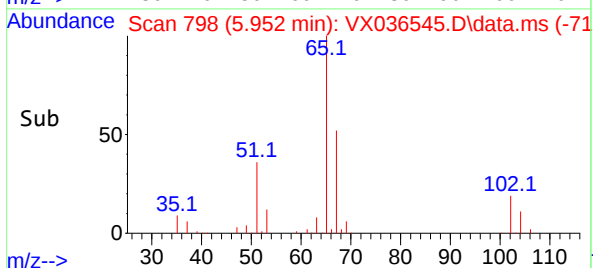
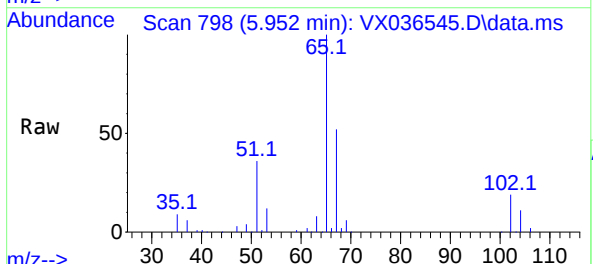
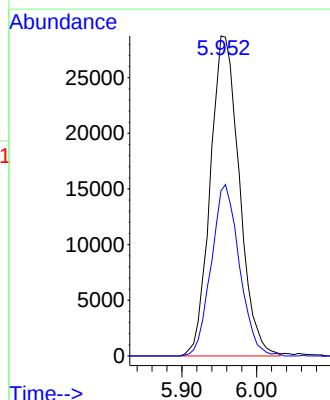
Acq: 13 Jul 2023 23:01

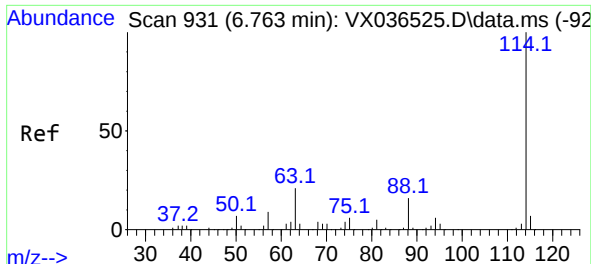
Tgt Ion: 65 Resp: 77491

Ion Ratio Lower Upper

65 100

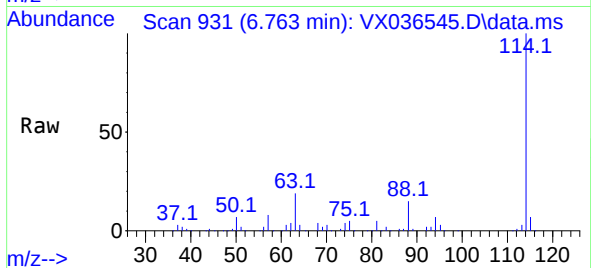
67 51.7 42.1 63.1



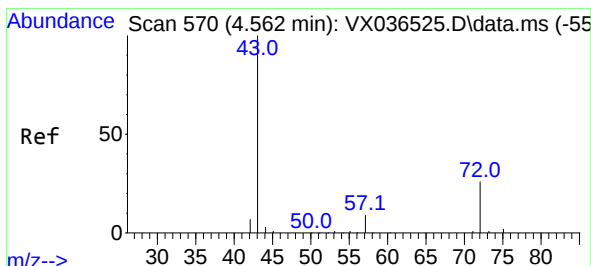
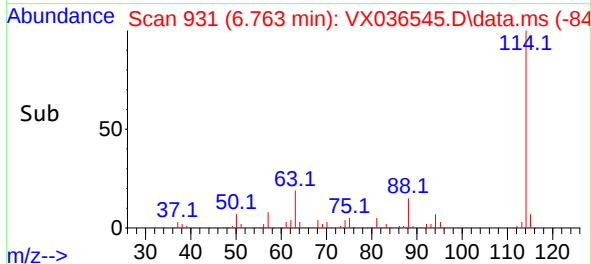
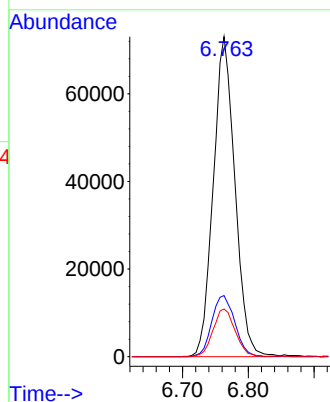


#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.763 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX036545.D
Acq: 13 Jul 2023 23:01

Instrument :
MSVOA_X
ClientSampleId :

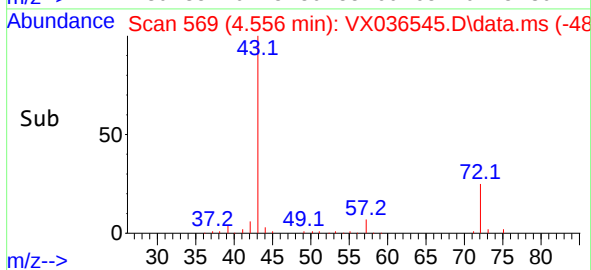
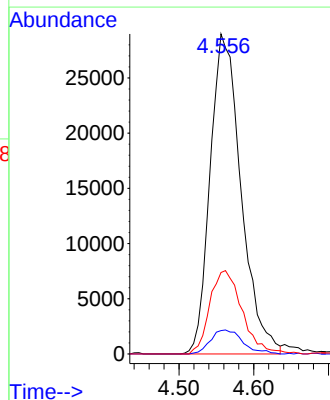
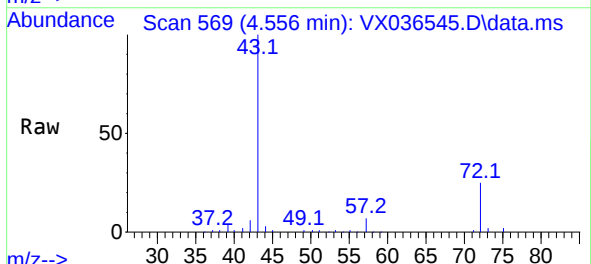


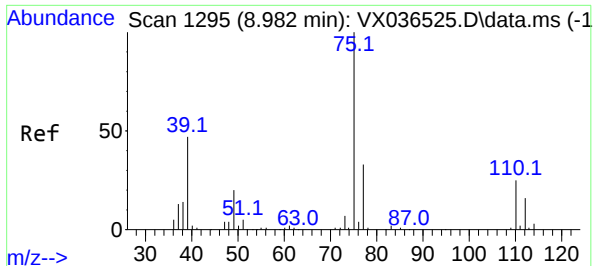
Tgt Ion:114 Resp: 167079
Ion Ratio Lower Upper
114 100
63 20.3 16.6 24.8
88 15.3 12.9 19.3



#30
2-Butanone
Concen: 52.497 ug/l
RT: 4.556 min Scan# 569
Delta R.T. -0.006 min
Lab File: VX036545.D
Acq: 13 Jul 2023 23:01

Tgt Ion: 43 Resp: 83280
Ion Ratio Lower Upper
43 100
57 7.6 6.4 9.6
72 27.2 21.6 32.4





#48

t-1,3-Dichloropropene

Concen: 4.584 ug/l

RT: 8.720 min Scan# 11

Delta R.T. -0.262 min

Lab File: VX036545.D

Acq: 13 Jul 2023 23:01

Instrument :

MSVOA_X

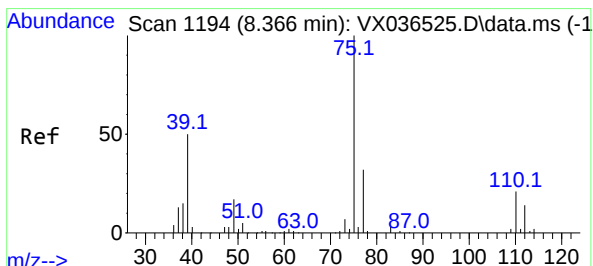
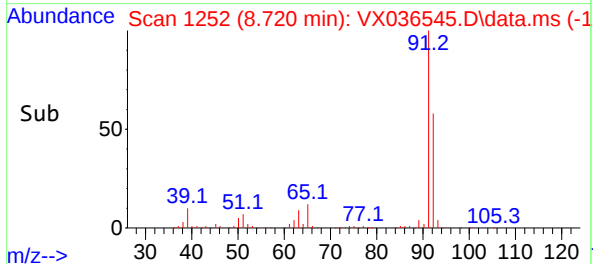
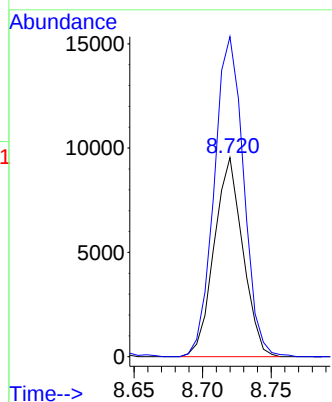
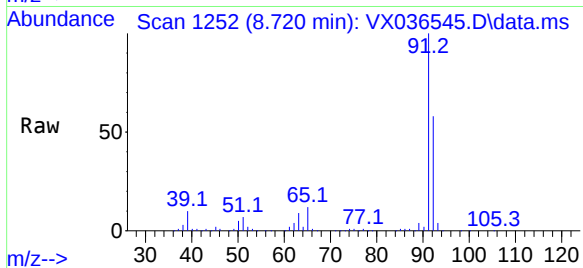
ClientSampleId :

Tgt Ion: 75 Resp: 13915

Ion Ratio Lower Upper

75 100

77 160.8 26.8 40.2#



#49

cis-1,3-Dichloropropene

Concen: 4.244 ug/l

RT: 8.720 min Scan# 1252

Delta R.T. 0.354 min

Lab File: VX036545.D

Acq: 13 Jul 2023 23:01

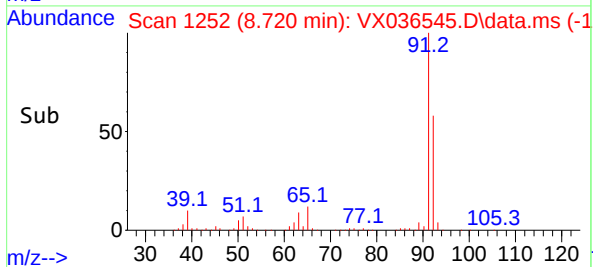
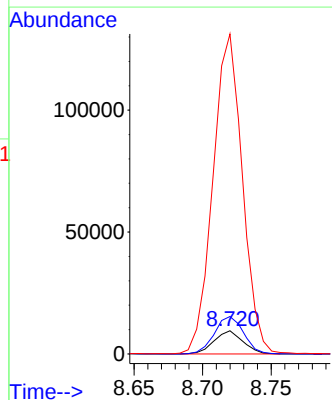
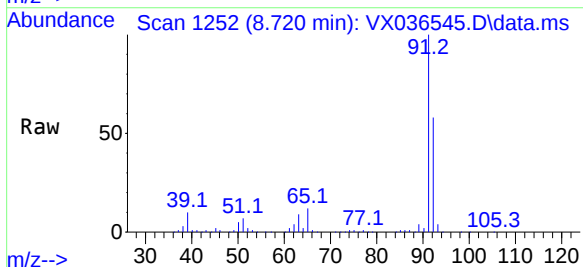
Tgt Ion: 75 Resp: 13915

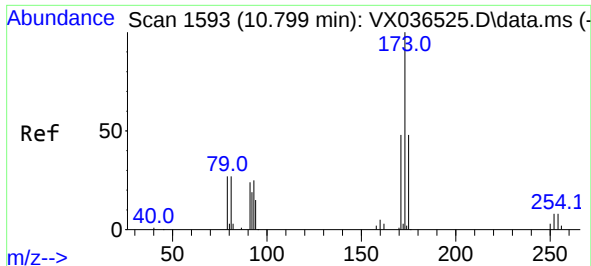
Ion Ratio Lower Upper

75 100

77 160.8 25.4 38.2#

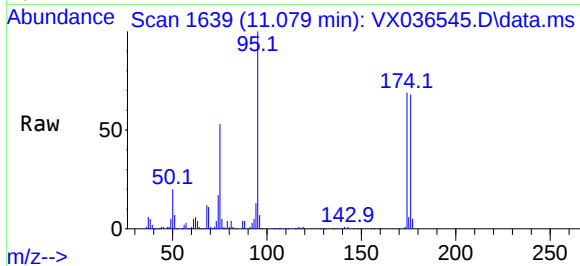
39 1372.0 40.2 60.4#



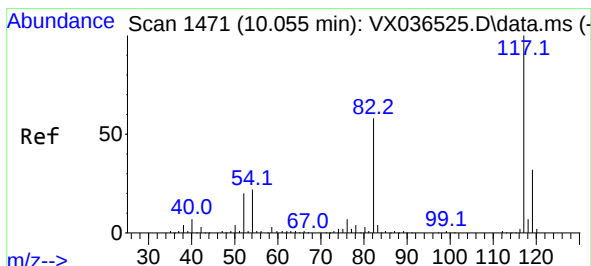
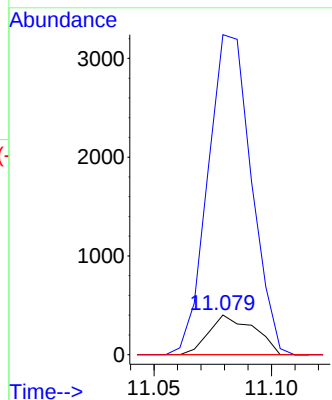
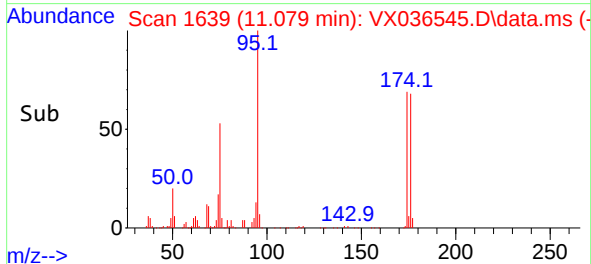


#56
Bromoform
Concen: 0.371 ug/l
RT: 11.079 min Scan# 11
Delta R.T. 0.280 min
Lab File: VX036545.D
Acq: 13 Jul 2023 23:01

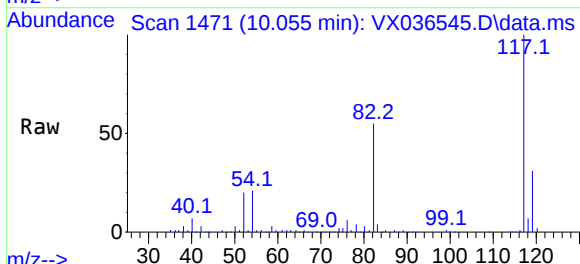
Instrument :
MSVOA_X
ClientSampleId :



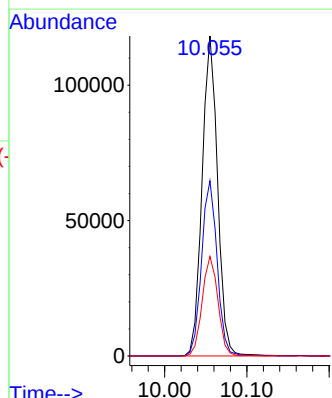
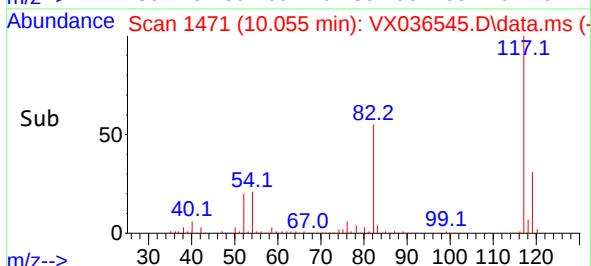
Tgt Ion:173 Resp: 539
Ion Ratio Lower Upper
173 100
175 776.1 38.1 57.1#
254 0.0 6.7 10.1#

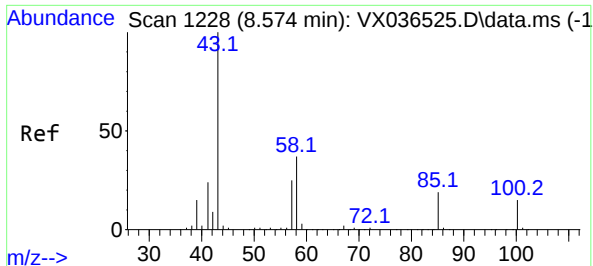


#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX036545.D
Acq: 13 Jul 2023 23:01



Tgt Ion:117 Resp: 154467
Ion Ratio Lower Upper
117 100
82 55.0 44.7 67.1
119 31.5 25.6 38.4





#58

4-Methyl-2-Pentanone

Concen: 4.895 ug/l

RT: 8.574 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX036545.D

Acq: 13 Jul 2023 23:01

Instrument :

MSVOA_X

ClientSampleId :

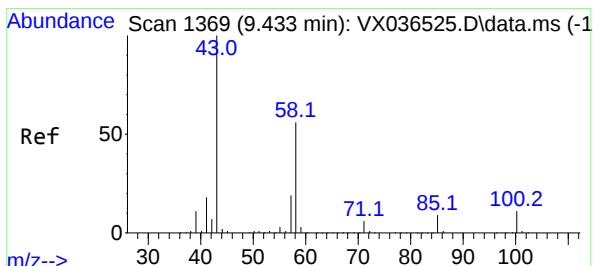
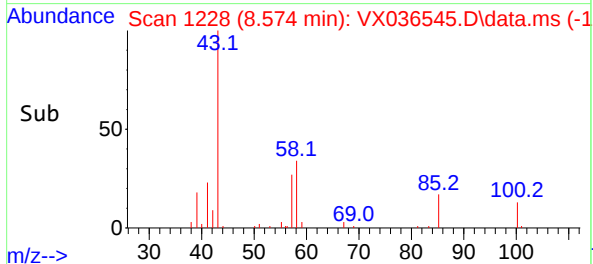
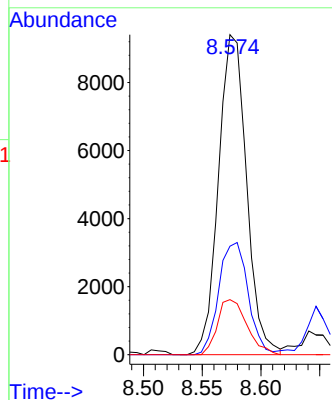
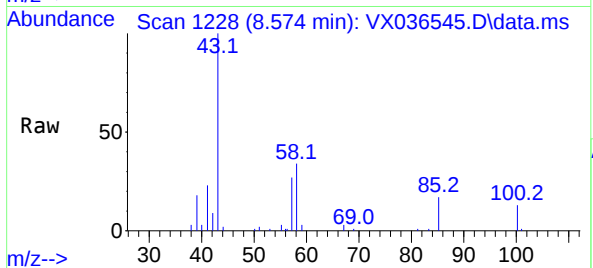
Tgt Ion: 43 Resp: 15635

Ion Ratio Lower Upper

43 100

58 36.6 30.9 46.3

85 18.1 14.4 21.6



#59

2-Hexanone

Concen: 0.574 ug/l

RT: 9.439 min Scan# 1370

Delta R.T. 0.006 min

Lab File: VX036545.D

Acq: 13 Jul 2023 23:01

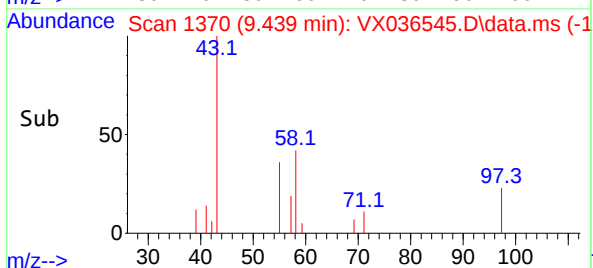
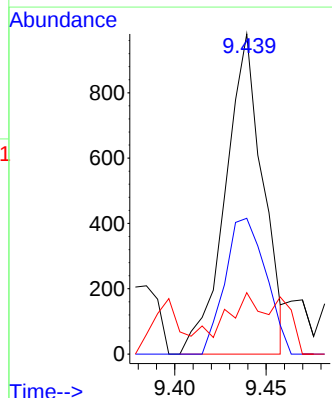
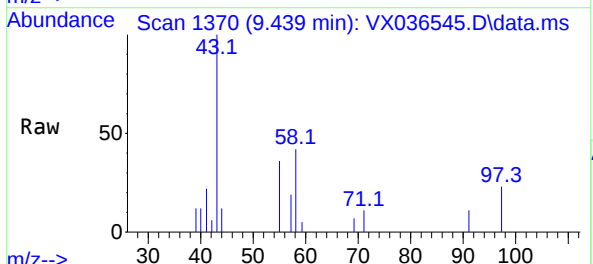
Tgt Ion: 43 Resp: 1394

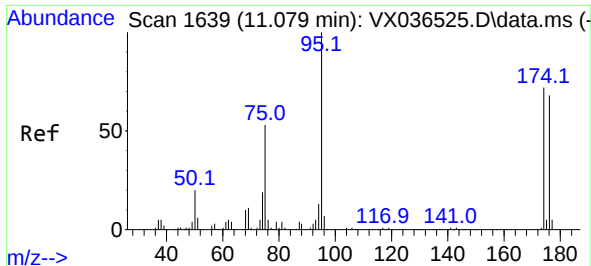
Ion Ratio Lower Upper

43 100

58 46.4 43.4 65.2

57 18.0 15.1 22.7

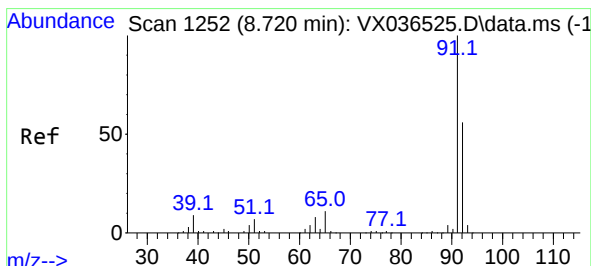
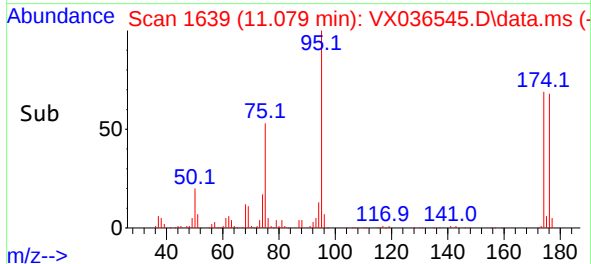
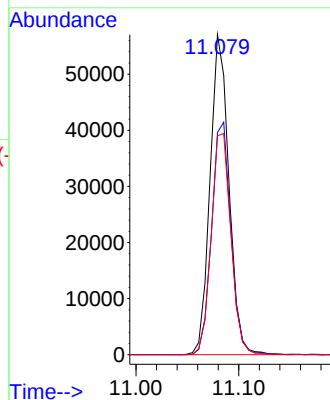
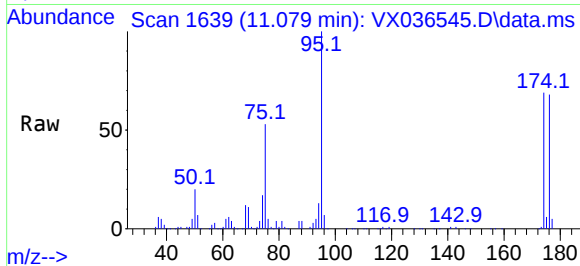




#60
4-Bromofluorobenzene
Concen: 28.983 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX036545.D
Acq: 13 Jul 2023 23:01

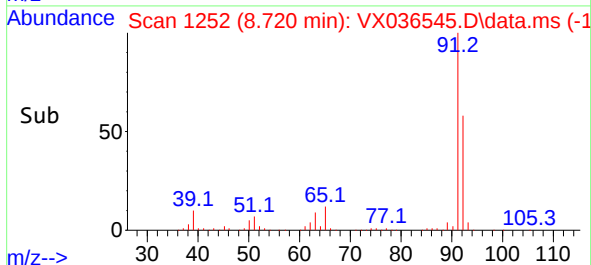
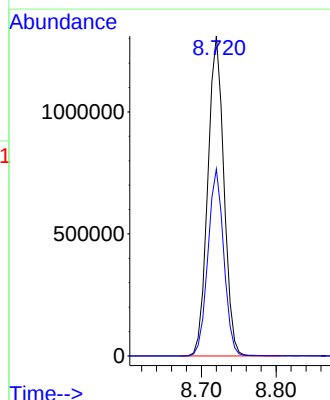
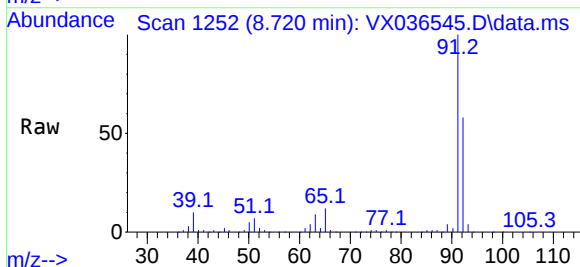
Instrument :
MSVOA_X
ClientSampleId :

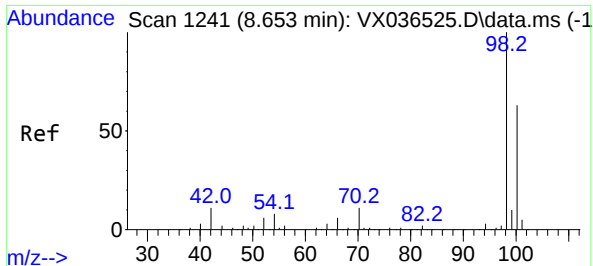
Tgt Ion: 95 Resp: 72621
Ion Ratio Lower Upper
95 100
174 74.2 60.5 90.7
176 71.9 58.2 87.4



#62
Toluene
Concen: 225.994 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.000 min
Lab File: VX036545.D
Acq: 13 Jul 2023 23:01

Tgt Ion: 91 Resp: 1958651
Ion Ratio Lower Upper
91 100
92 57.5 44.9 67.3

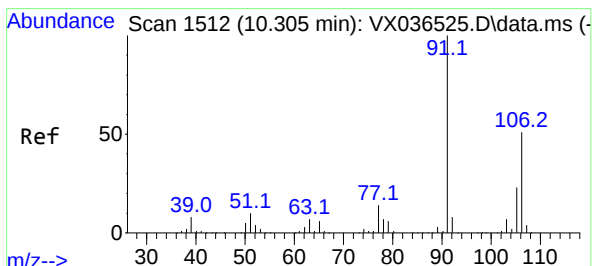
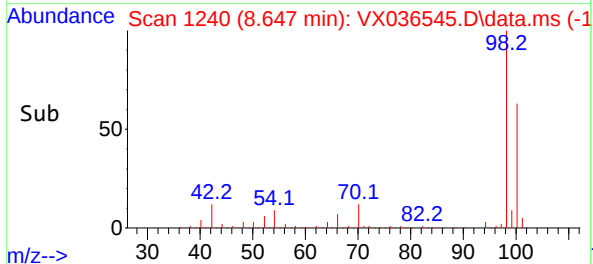
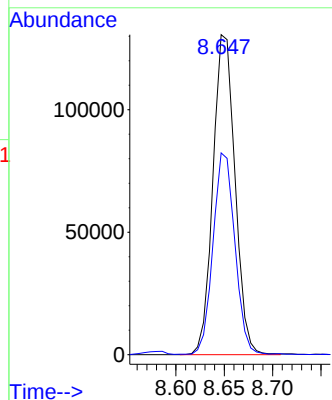
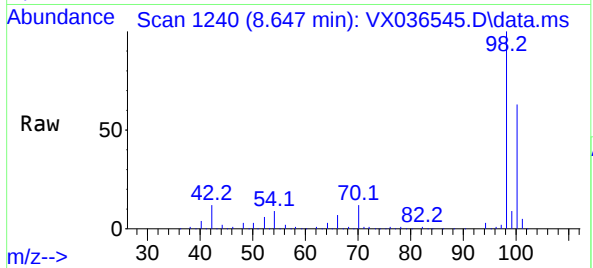




#63
Toluene-d8
Concen: 29.164 ug/l
RT: 8.647 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX036545.D
Acq: 13 Jul 2023 23:01

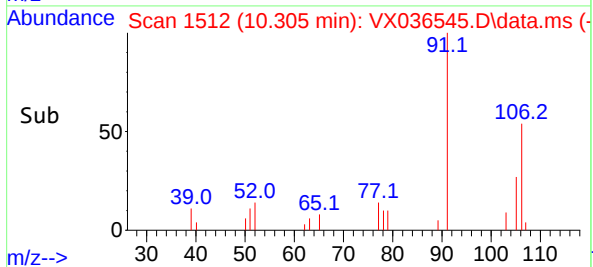
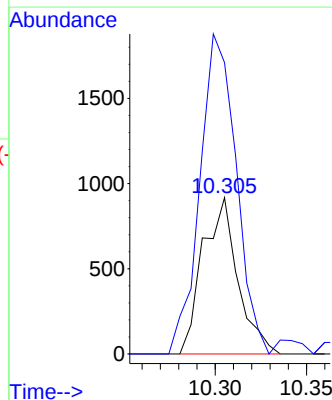
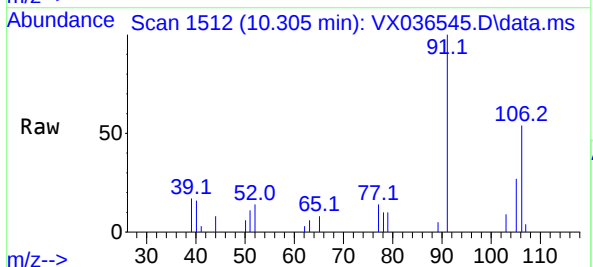
Instrument :
MSVOA_X
ClientSampleId :

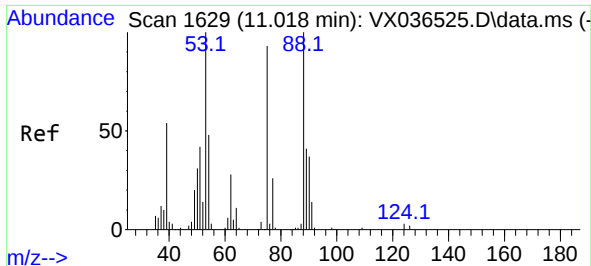
Tgt Ion: 98 Resp: 207294
Ion Ratio Lower Upper
98 100
100 62.4 51.6 77.4



#67
m/p-Xylenes
Concen: 0.333 ug/l
RT: 10.305 min Scan# 1512
Delta R.T. -0.000 min
Lab File: VX036545.D
Acq: 13 Jul 2023 23:01

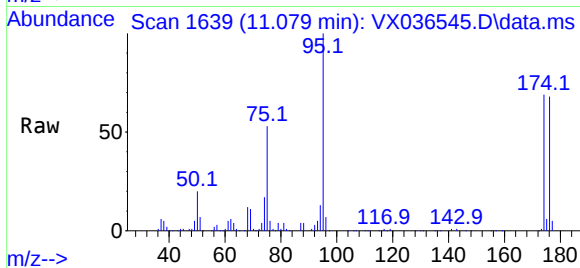
Tgt Ion:106 Resp: 1221
Ion Ratio Lower Upper
106 100
91 213.2 160.5 240.7



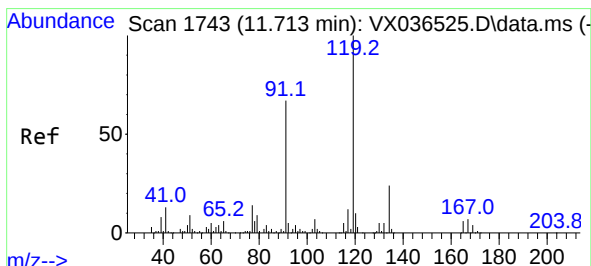
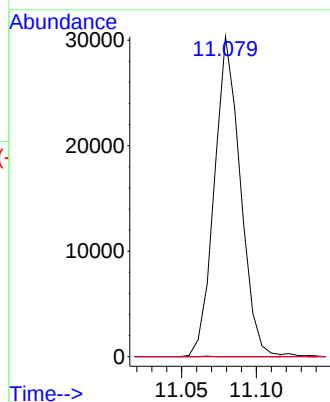
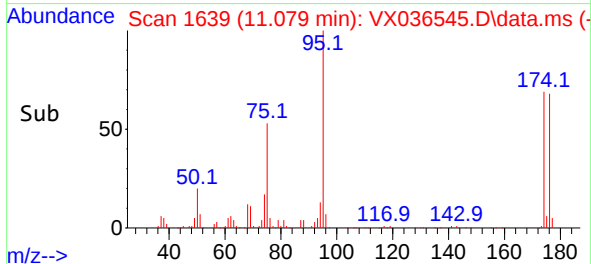


#77
t-1,4-Dichloro-2-butene
Concen: 36.327 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX036545.D
Acq: 13 Jul 2023 23:01

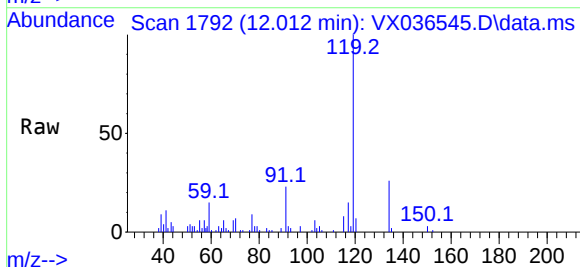
Instrument :
MSVOA_X
ClientSampleId :



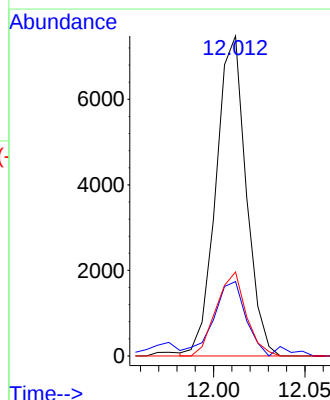
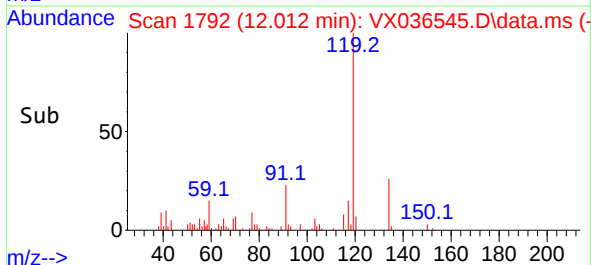
Tgt Ion: 75 Resp: 36621
Ion Ratio Lower Upper
75 100
53 0.0 53.9 161.7#
89 0.0 22.1 66.1#

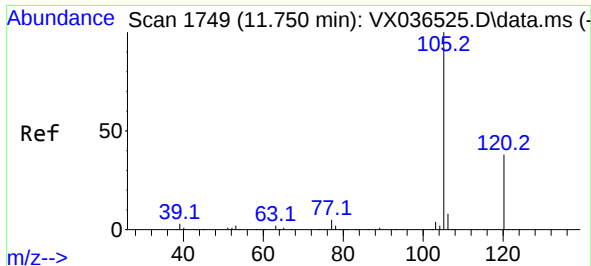


#79
tert-butylbenzene
Concen: 1.160 ug/l
RT: 12.012 min Scan# 1792
Delta R.T. 0.299 min
Lab File: VX036545.D
Acq: 13 Jul 2023 23:01



Tgt Ion: 119 Resp: 8590
Ion Ratio Lower Upper
119 100
91 24.9 0.0 124.4
134 25.9 0.0 47.2

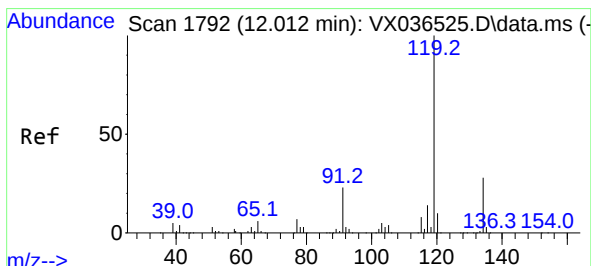
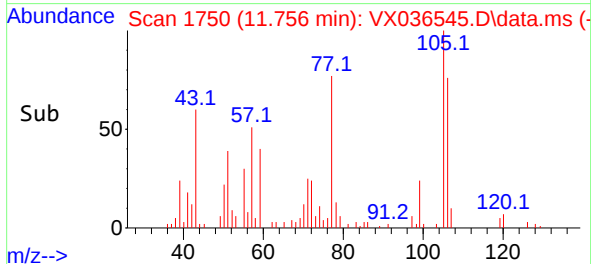
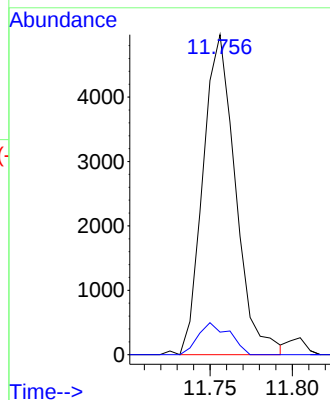
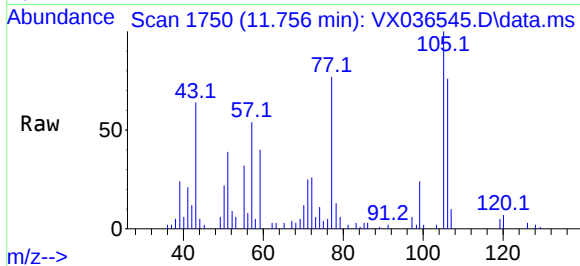




#80
1,2,4-Trimethylbenzene
Concen: 0.883 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VX036545.D
Acq: 13 Jul 2023 23:01

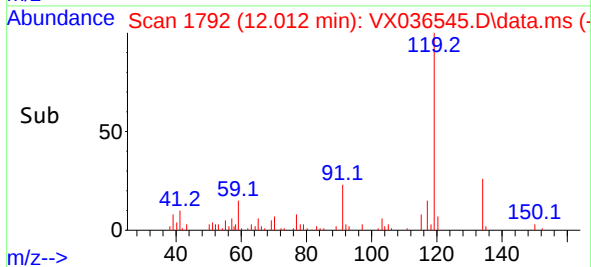
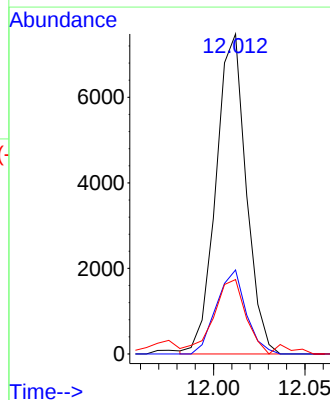
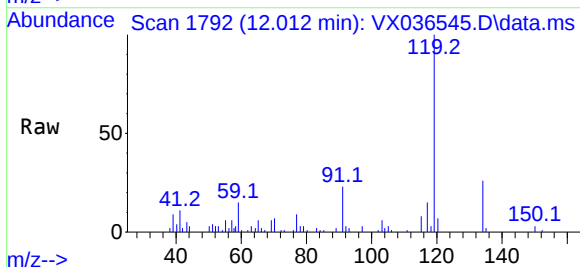
Instrument :
MSVOA_X
ClientSampleId :

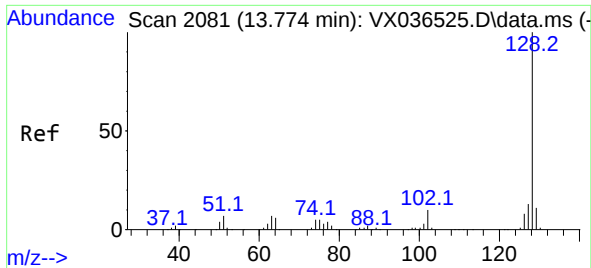
Tgt Ion:105 Resp: 6827
Ion Ratio Lower Upper
105 100
120 9.6 0.0 90.2



#82
p-Isopropyltoluene
Concen: 1.108 ug/l
RT: 12.012 min Scan# 1792
Delta R.T. -0.000 min
Lab File: VX036545.D
Acq: 13 Jul 2023 23:01

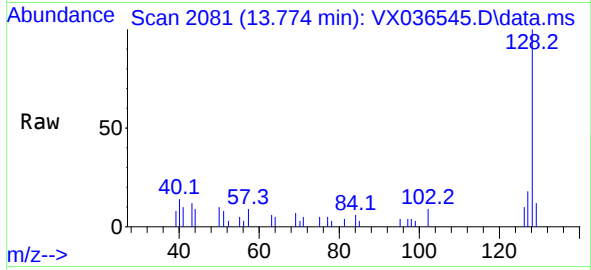
Tgt Ion:119 Resp: 8590
Ion Ratio Lower Upper
119 100
134 25.9 0.0 53.2
91 24.9 0.0 49.4





#91
Naphthalene
Concen: 0.309 ug/l
RT: 13.774 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX036545.D
Acq: 13 Jul 2023 23:01

Instrument :
MSVOA_X
ClientSampleId :



Tgt Ion:	128	Resp:	2865
Ion	Ratio	Lower	Upper
128	100		
127	18.1	10.3	15.5#
129	13.5	8.7	13.1#

