

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071423\
 Data File : VX036539.D
 Acq On : 13 Jul 2023 20:39
 Operator : JC/MD
 Sample : 03610-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 230712058-02-VOA

Quant Time: Jul 14 04:38:41 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)

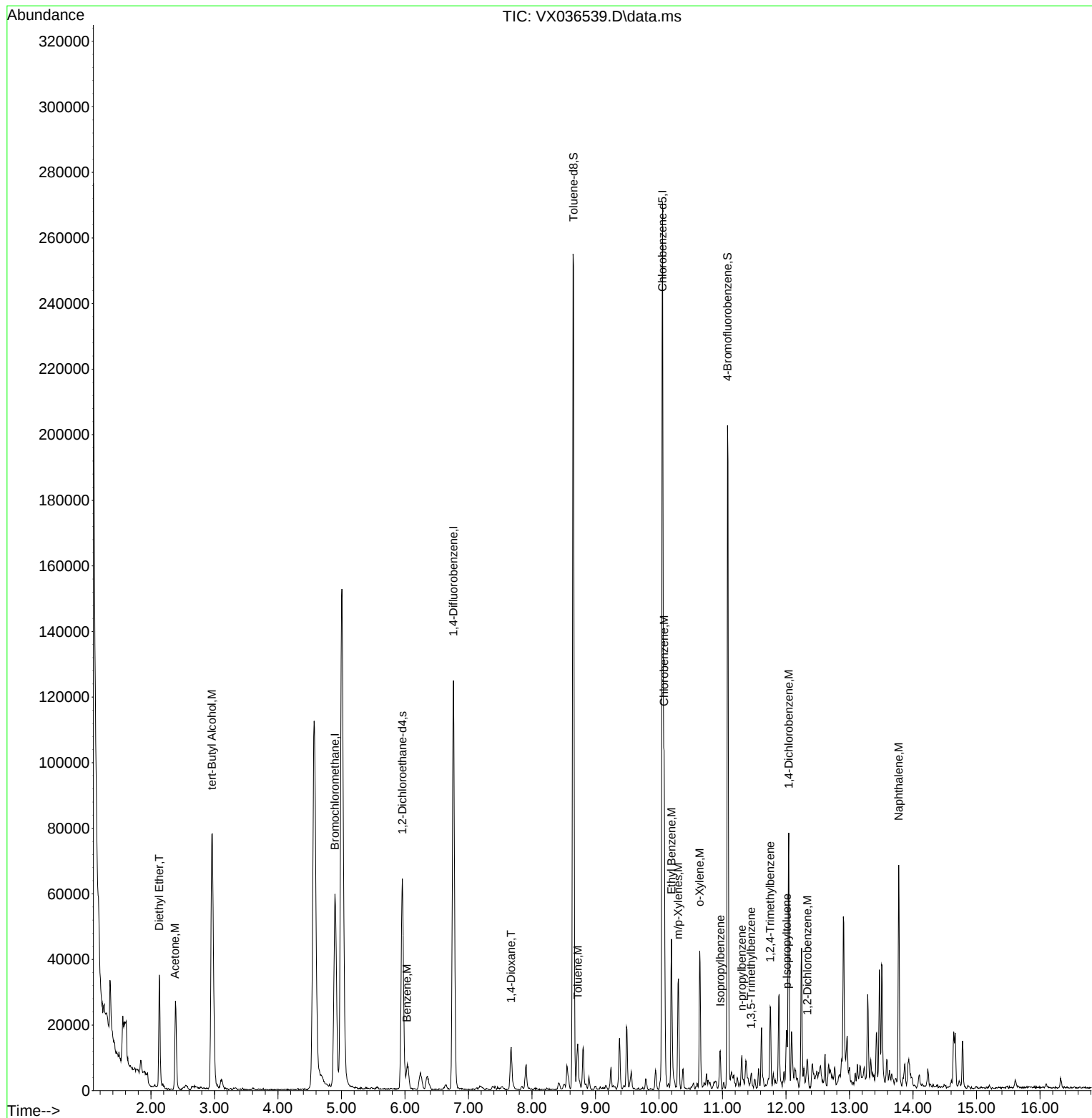
Internal Standards						
1) Bromochloromethane	4.898	128	24495	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	125018	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	115558	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	59223	29.131	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	97.100%
60) 4-Bromofluorobenzene	11.079	95	53701	28.649	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	95.500%
63) Toluene-d8	8.653	98	155573	29.257	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.533%
Target Compounds						
					Qvalue	
8) Diethyl Ether	2.130	74	11240	8.636	ug/l	98
15) Acetone	2.380	58	3022	11.302	ug/l	96
23) tert-Butyl Alcohol	2.959	59	111444	254.106	ug/l #	1
34) Benzene	6.032	78	9266	1.595	ug/l #	85
45) 1,4-Dioxane	7.671	88	10046	240.182	ug/l #	1
62) Toluene	8.720	91	6048	0.933	ug/l	97
64) Chlorobenzene	10.080	112	40986	10.154	ug/l	97
66) Ethyl Benzene	10.195	91	24535	3.482	ug/l	96
67) m/p-Xylenes	10.299	106	6603	2.404	ug/l	89
68) o-Xylene	10.640	106	8893	3.262	ug/l	96
70) Isopropylbenzene	10.964	105	5313	0.782	ug/l	96
74) n-propylbenzene	11.305	91	2692	0.337	ug/l	91
76) 1,3,5-Trimethylbenzene	11.451	105	1705	0.292	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	10591	1.832	ug/l	94
82) p-Isopropyltoluene	12.012	119	3041	0.524	ug/l	90
84) 1,4-Dichlorobenzene	12.043	146	23934	7.693	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	1485	0.474	ug/l	93
91) Naphthalene	13.774	128	39579	5.712	ug/l	99

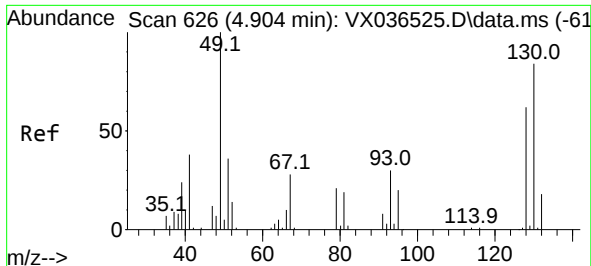
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 14 04:38:41 2023
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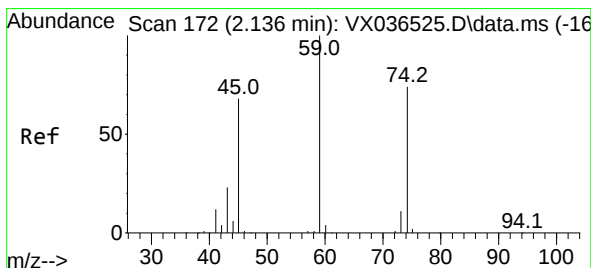
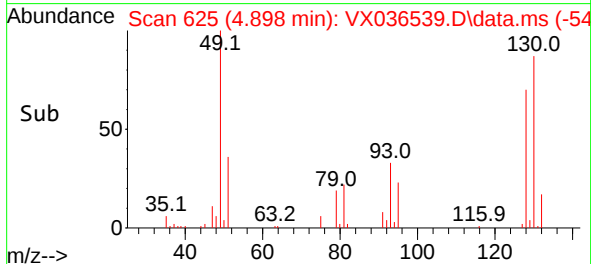
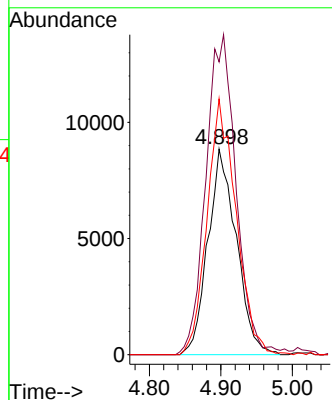
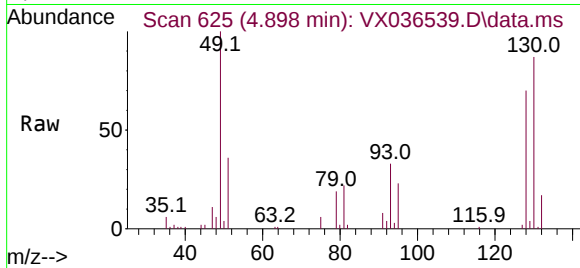




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.898 min Scan# 61
Delta R.T. -0.006 min
Lab File: VX036539.D
Acq: 13 Jul 2023 20:39

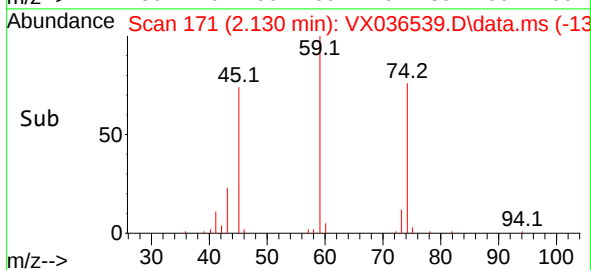
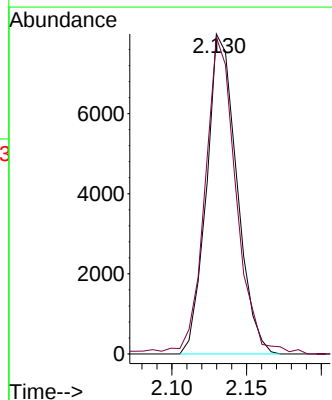
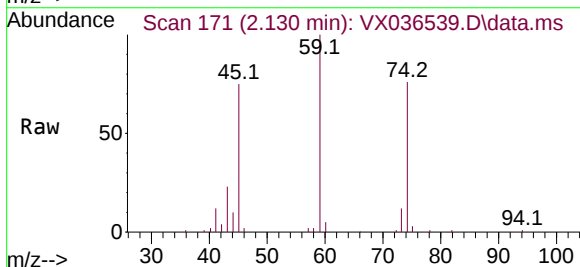
Instrument :
MSVOA_X
ClientSampleId :
230712058-02-VOA

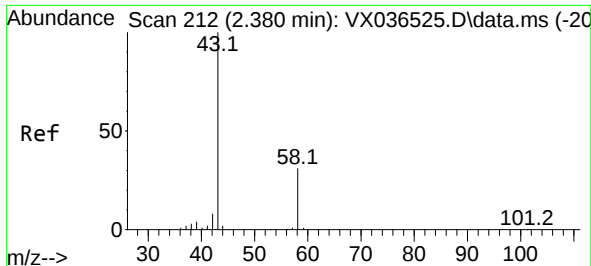
Tgt Ion:128 Resp: 24495
Ion Ratio Lower Upper
128 100
49 163.1 0.0 406.3
130 126.9 0.0 328.0



#8
Diethyl Ether
Concen: 8.636 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX036539.D
Acq: 13 Jul 2023 20:39

Tgt Ion: 74 Resp: 11240
Ion Ratio Lower Upper
74 100
45 97.6 19.9 178.9

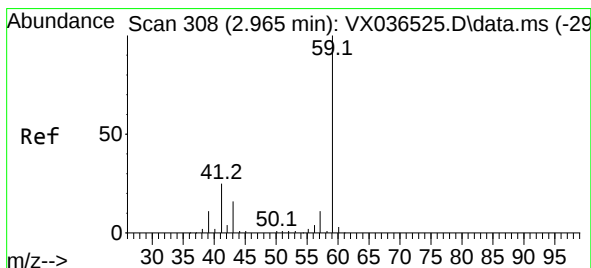
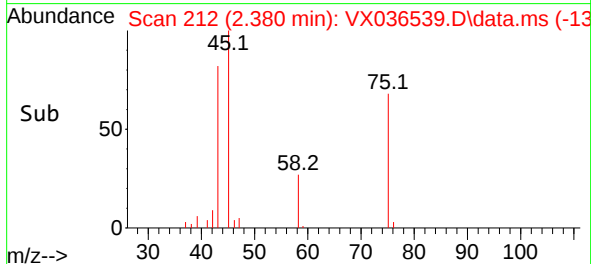
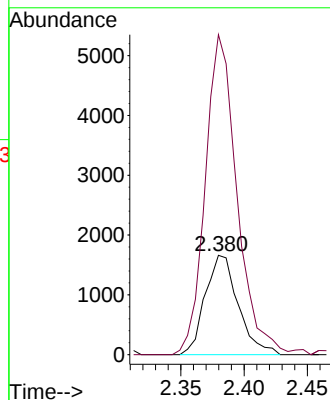
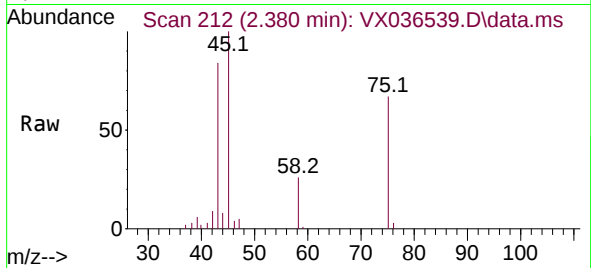




#15
Acetone
Concen: 11.302 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.000 min
Lab File: VX036539.D
Acq: 13 Jul 2023 20:39

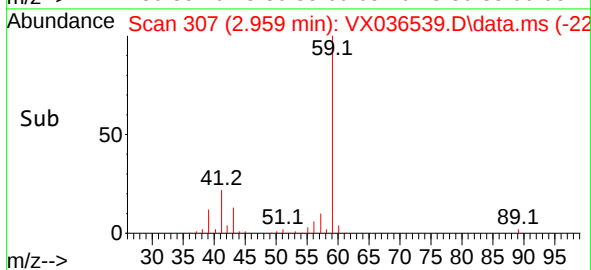
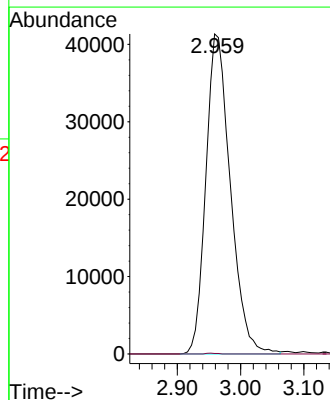
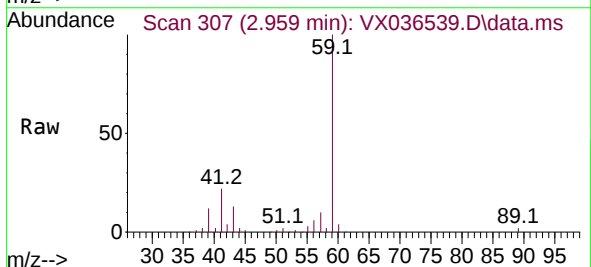
Instrument :
MSVOA_X
ClientSampleId :
230712058-02-VOA

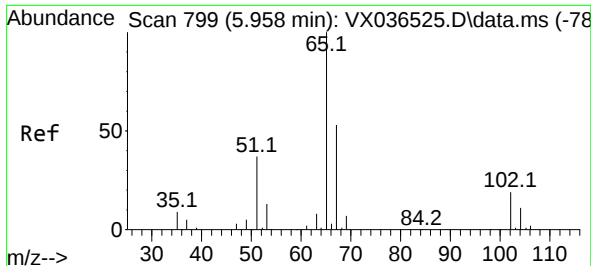
Tgt Ion: 58 Resp: 3022
Ion Ratio Lower Upper
58 100
43 317.8 261.0 391.4



#23
tert-Butyl Alcohol
Concen: 254.106 ug/l
RT: 2.959 min Scan# 307
Delta R.T. -0.006 min
Lab File: VX036539.D
Acq: 13 Jul 2023 20:39

Tgt Ion: 59 Resp: 111444
Ion Ratio Lower Upper
59 100
52 0.1 142.6 213.8#





#27

1,2-Dichloroethane-d4

Concen: 29.131 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.000 min

Lab File: VX036539.D

Acq: 13 Jul 2023 20:39

Instrument :

MSVOA_X

ClientSampleId :

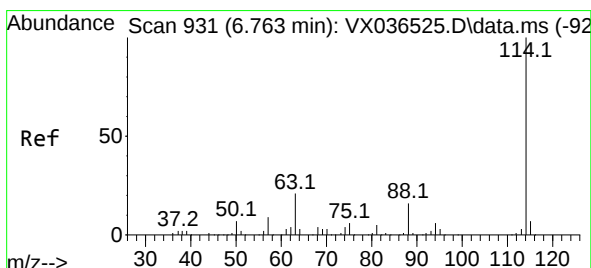
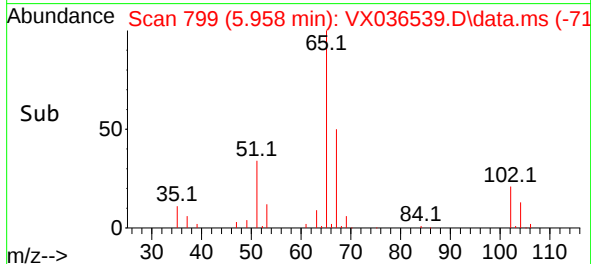
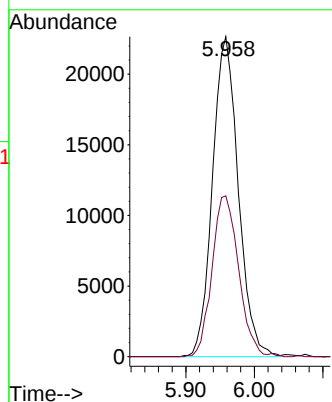
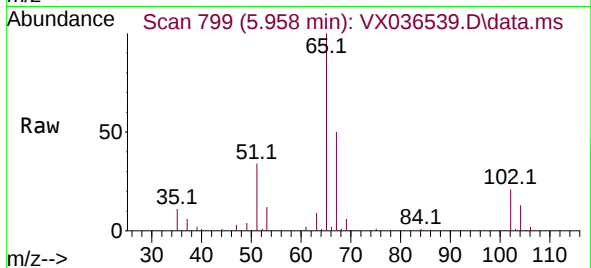
230712058-02-VOA

Tgt Ion: 65 Resp: 59223

Ion Ratio Lower Upper

65 100

67 51.6 42.1 63.1



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. 0.000 min

Lab File: VX036539.D

Acq: 13 Jul 2023 20:39

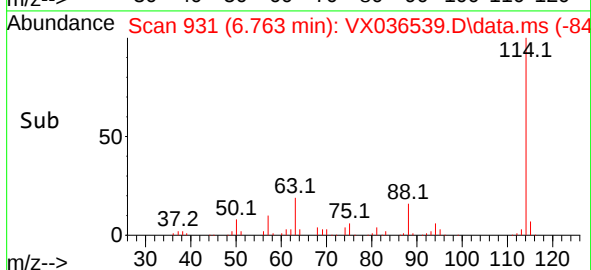
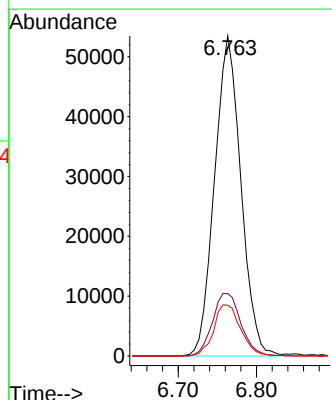
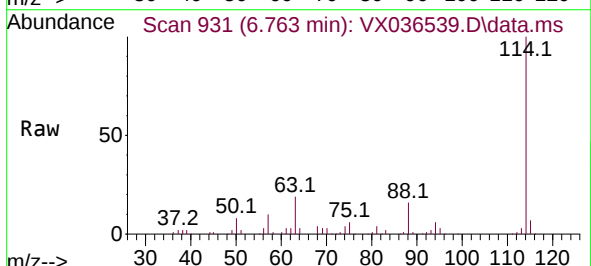
Tgt Ion: 114 Resp: 125018

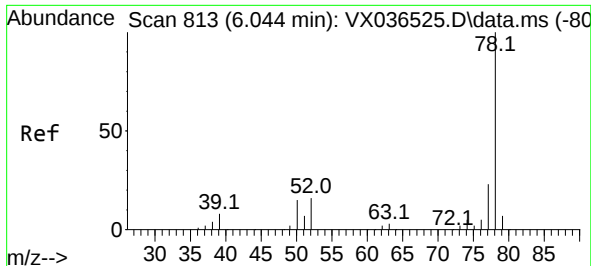
Ion Ratio Lower Upper

114 100

63 21.0 16.6 24.8

88 16.3 12.9 19.3





#34

Benzene

Concen: 1.595 ug/l

RT: 6.032 min Scan# 81

Delta R.T. -0.012 min

Lab File: VX036539.D

Acq: 13 Jul 2023 20:39

Instrument :

MSVOA_X

ClientSampleId :

230712058-02-VOA

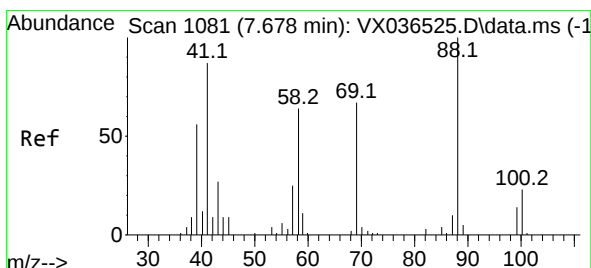
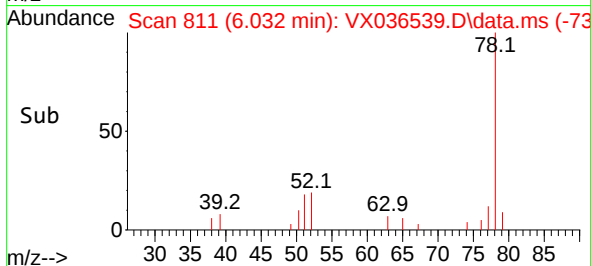
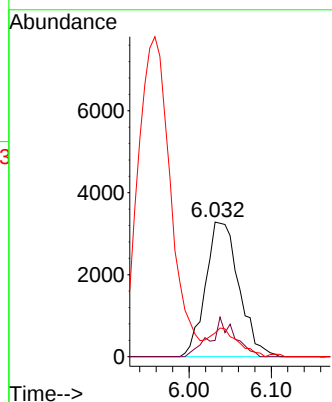
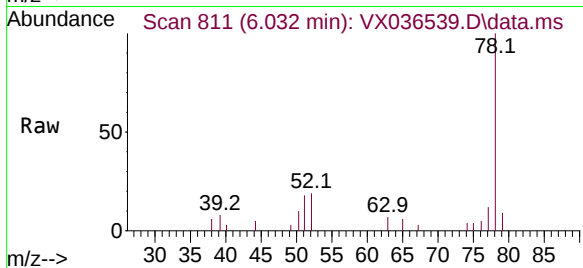
Tgt Ion: 78 Resp: 9266

Ion Ratio Lower Upper

78 100

77 12.1 18.7 28.1#

51 16.0 14.2 21.4



#45

1,4-Dioxane

Concen: 240.182 ug/l

RT: 7.671 min Scan# 1080

Delta R.T. -0.006 min

Lab File: VX036539.D

Acq: 13 Jul 2023 20:39

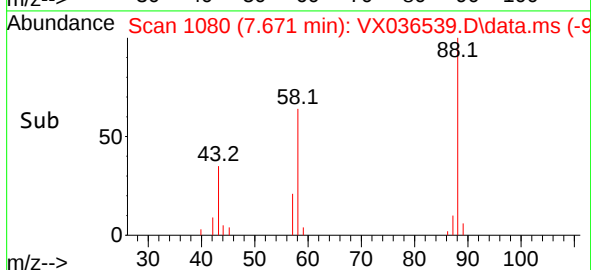
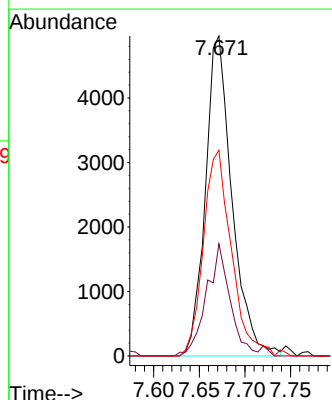
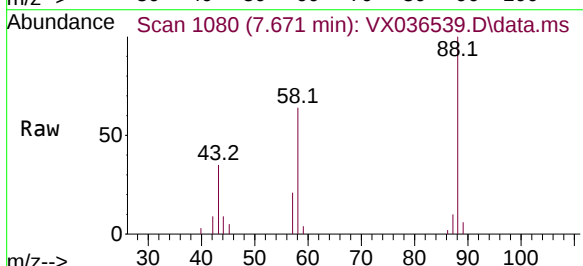
Tgt Ion: 88 Resp: 10046

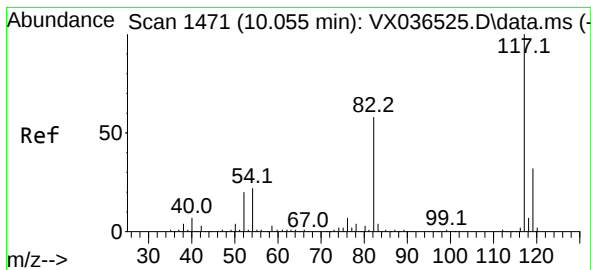
Ion Ratio Lower Upper

88 100

43 31.1 297.5 446.3#

58 67.7 1.0 1.4#

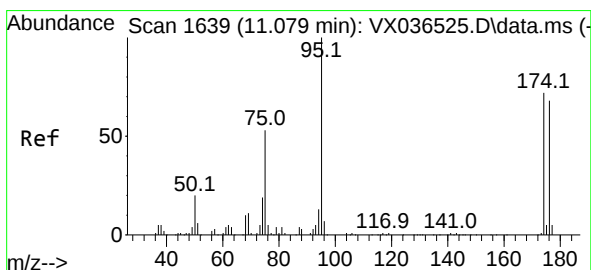
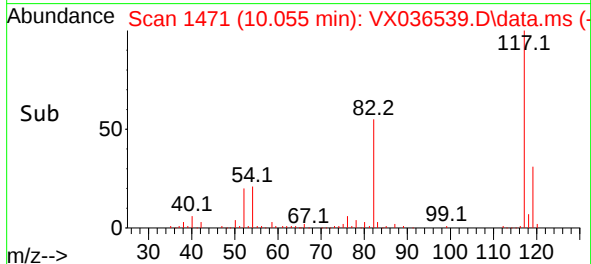
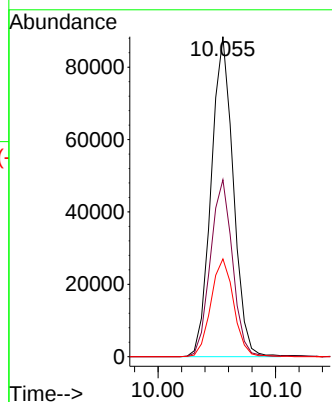
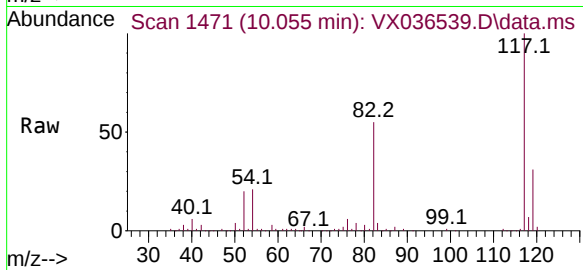




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX036539.D
Acq: 13 Jul 2023 20:39

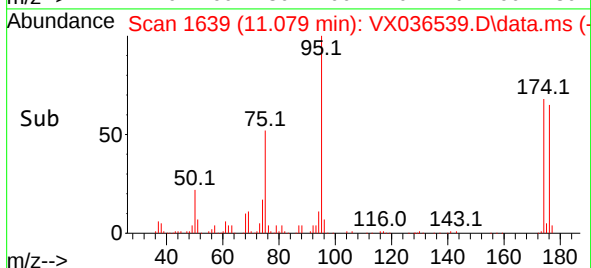
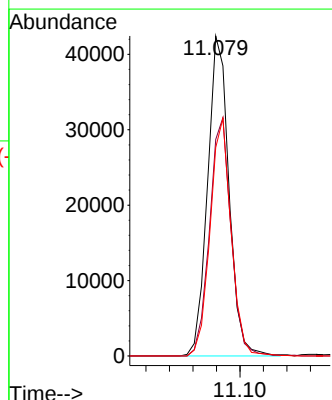
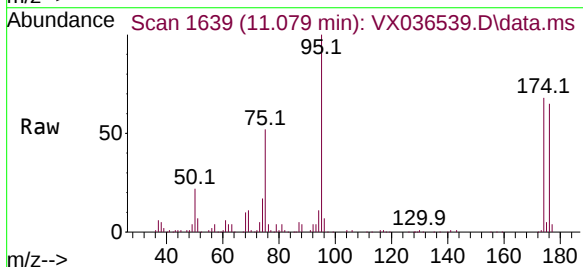
Instrument :
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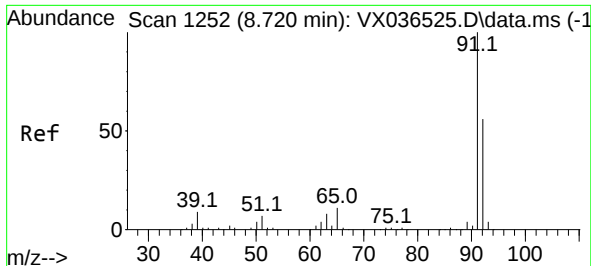
Tgt Ion:117 Resp: 115558
Ion Ratio Lower Upper
117 100
82 55.4 44.7 67.1
119 31.4 25.6 38.4



#60
4-Bromofluorobenzene
Concen: 28.649 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX036539.D
Acq: 13 Jul 2023 20:39

Tgt Ion: 95 Resp: 53701
Ion Ratio Lower Upper
95 100
174 74.3 60.5 90.7
176 72.6 58.2 87.4





#62

Toluene

Concen: 0.933 ug/l

RT: 8.720 min Scan# 1252

Delta R.T. 0.000 min

Lab File: VX036539.D

Acq: 13 Jul 2023 20:39

Instrument :

MSVOA_X

ClientSampleId :

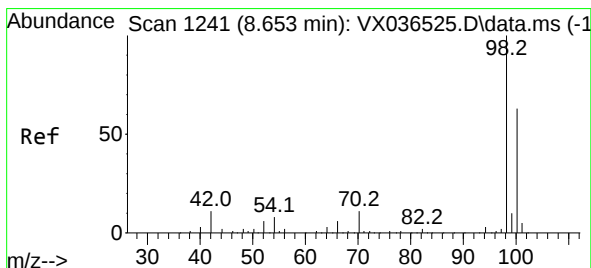
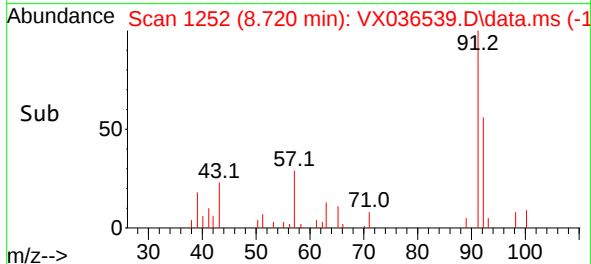
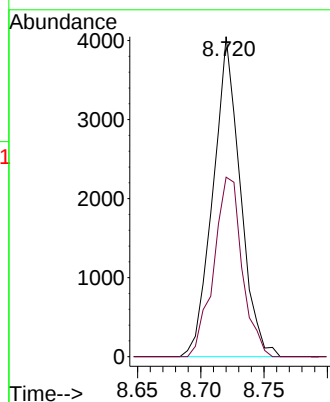
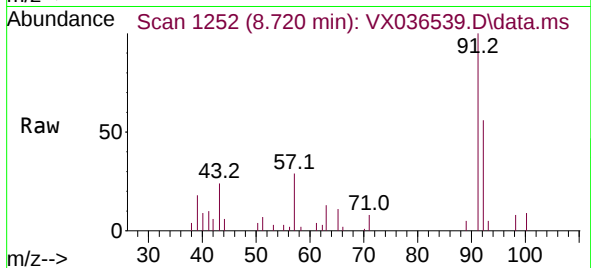
230712058-02-VOA

Tgt Ion: 91 Resp: 6048

Ion Ratio Lower Upper

91 100

92 58.6 44.9 67.3



#63

Toluene-d8

Concen: 29.257 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. 0.000 min

Lab File: VX036539.D

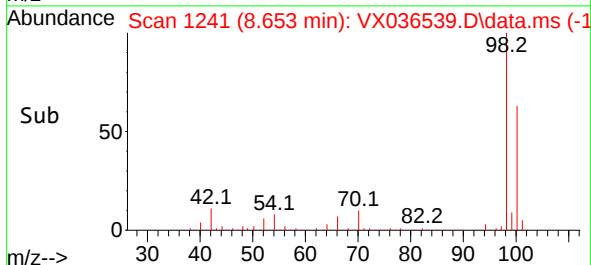
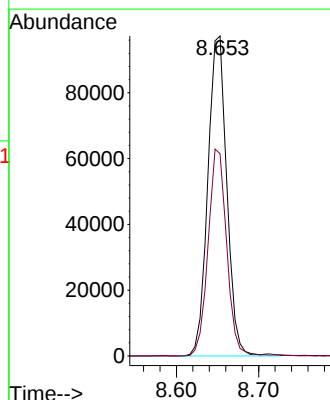
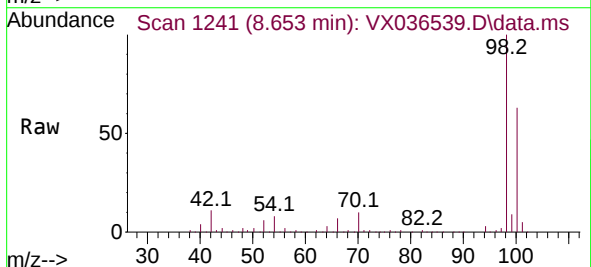
Acq: 13 Jul 2023 20:39

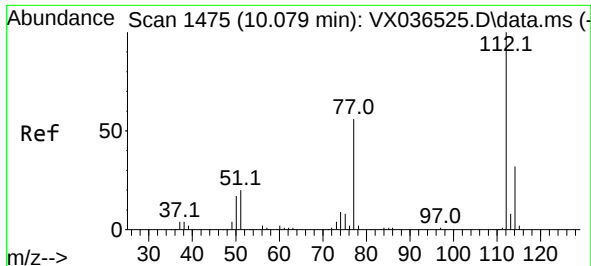
Tgt Ion: 98 Resp: 155573

Ion Ratio Lower Upper

98 100

100 62.9 51.6 77.4

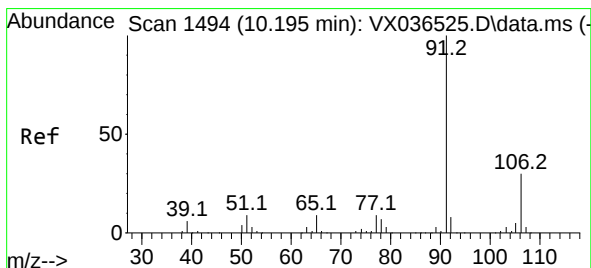
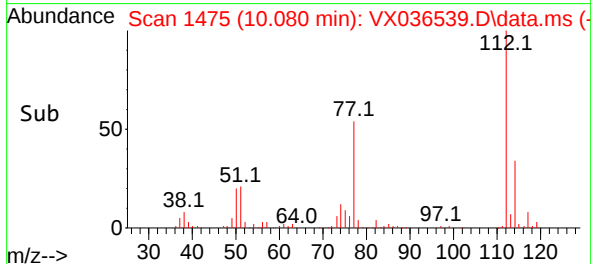
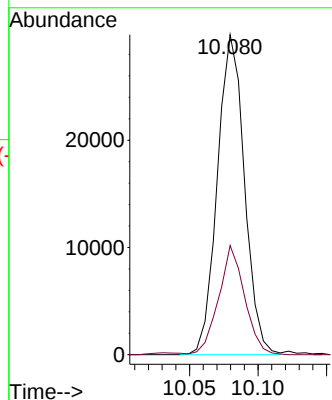
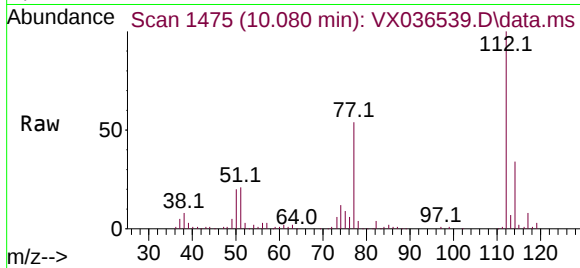




#64
Chlorobenzene
Concen: 10.154 ug/l
RT: 10.080 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX036539.D
Acq: 13 Jul 2023 20:39

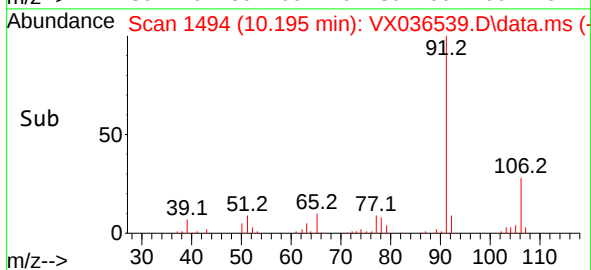
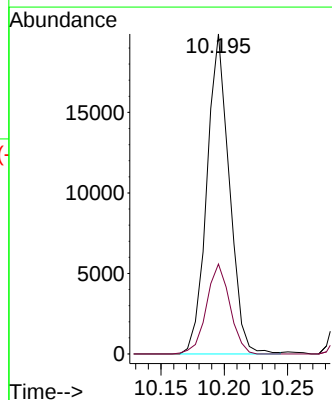
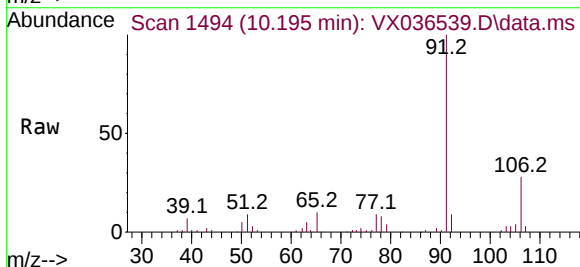
Instrument :
MSVOA_X
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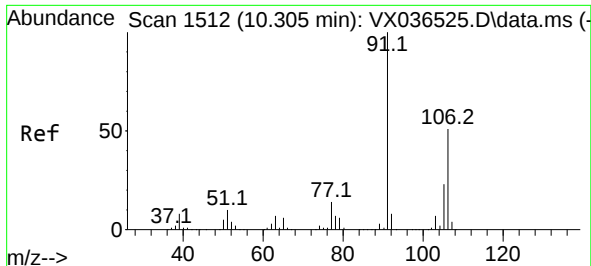
Tgt Ion:112 Resp: 40986
Ion Ratio Lower Upper
112 100
114 33.9 25.8 38.6



#66
Ethyl Benzene
Concen: 3.482 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.000 min
Lab File: VX036539.D
Acq: 13 Jul 2023 20:39

Tgt Ion: 91 Resp: 24535
Ion Ratio Lower Upper
91 100
106 28.1 24.2 36.4

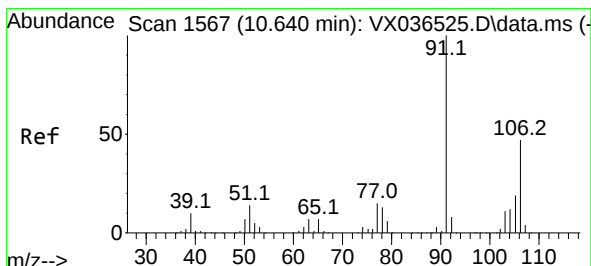
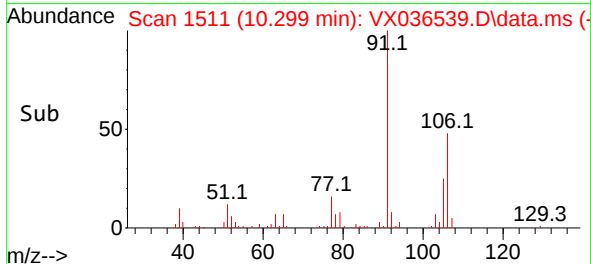
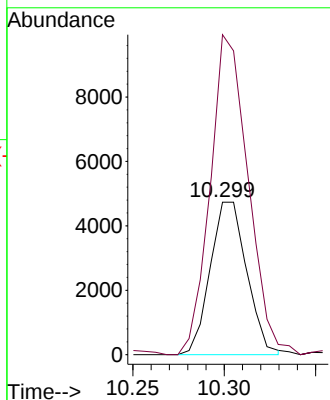
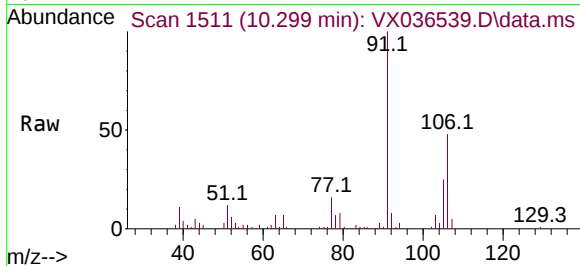




#67
m/p-Xylenes
Concen: 2.404 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.006 min
Lab File: VX036539.D
Acq: 13 Jul 2023 20:39

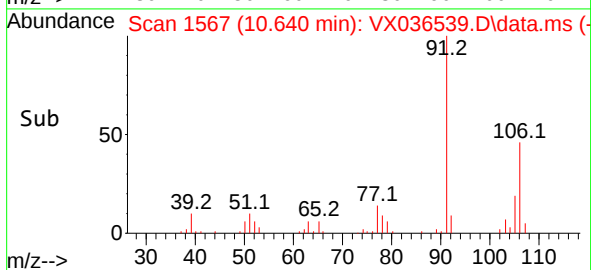
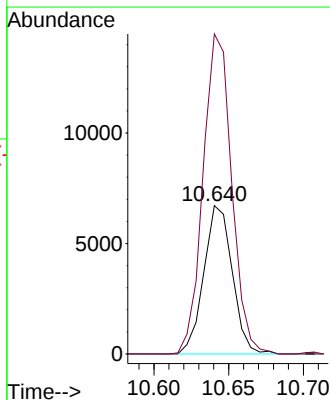
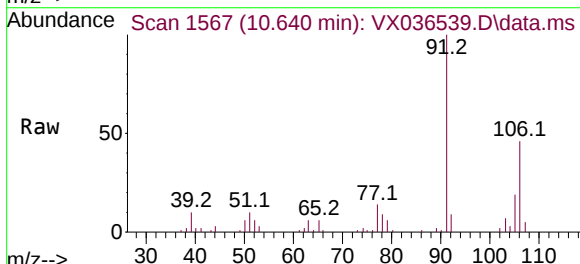
Instrument :
MSVOA_X
ClientSampleId :
230712058-02-VOA

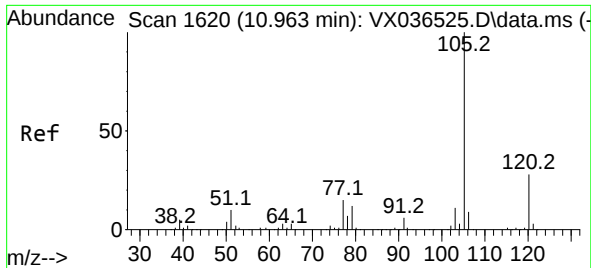
Tgt Ion:106 Resp: 6603
Ion Ratio Lower Upper
106 100
91 217.6 160.5 240.7



#68
o-Xylene
Concen: 3.262 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX036539.D
Acq: 13 Jul 2023 20:39

Tgt Ion:106 Resp: 8893
Ion Ratio Lower Upper
106 100
91 217.0 105.4 316.1

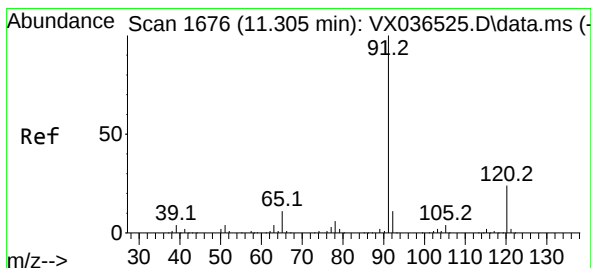
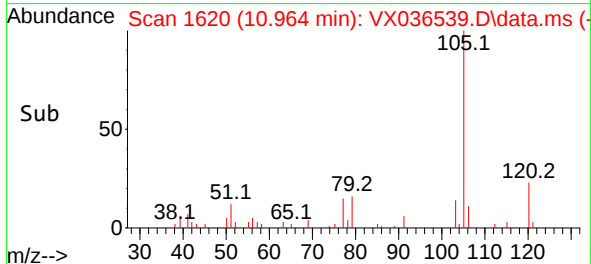
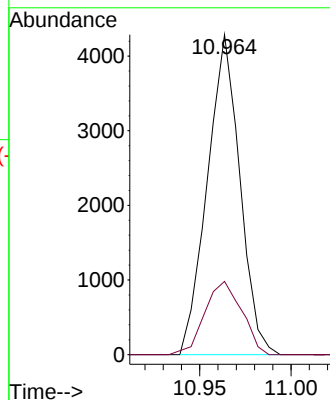
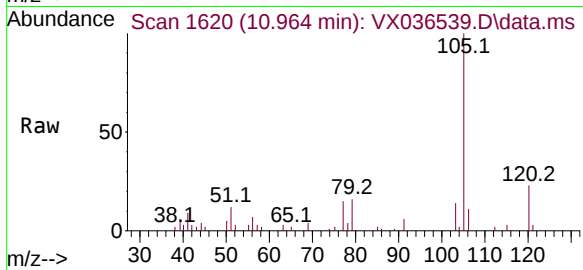




#70
Isopropylbenzene
Concen: 0.782 ug/l
RT: 10.964 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VX036539.D
Acq: 13 Jul 2023 20:39

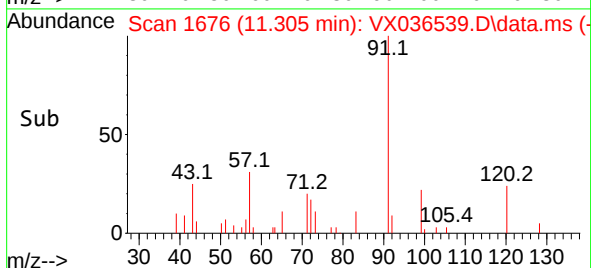
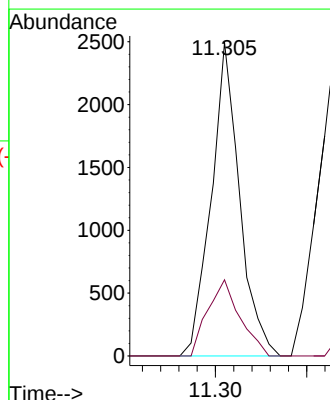
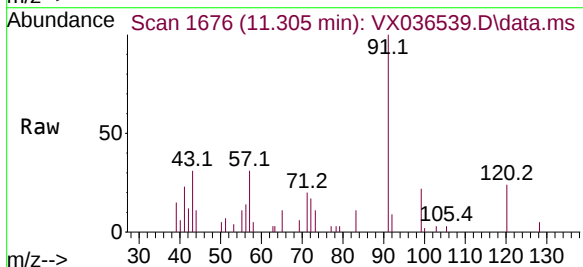
Instrument :
MSVOA_X
ClientSampleId :
230712058-02-VOA

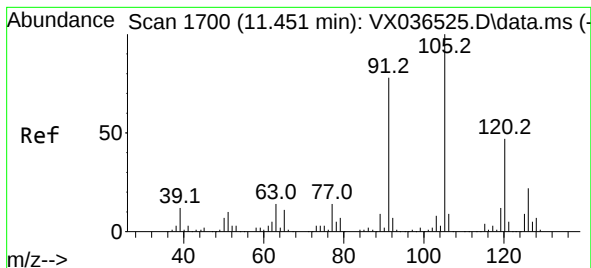
Tgt Ion:105 Resp: 5313
Ion Ratio Lower Upper
105 100
120 26.0 19.5 36.3



#74
n-propylbenzene
Concen: 0.337 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VX036539.D
Acq: 13 Jul 2023 20:39

Tgt Ion: 91 Resp: 2692
Ion Ratio Lower Upper
91 100
120 27.7 0.0 46.6





#76

1,3,5-Trimethylbenzene

Concen: 0.292 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX036539.D

Acq: 13 Jul 2023 20:39

Instrument :

MSVOA_X

ClientSampleId :

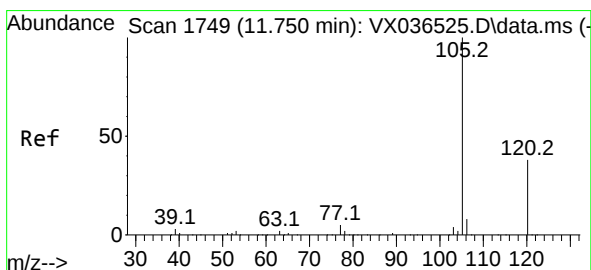
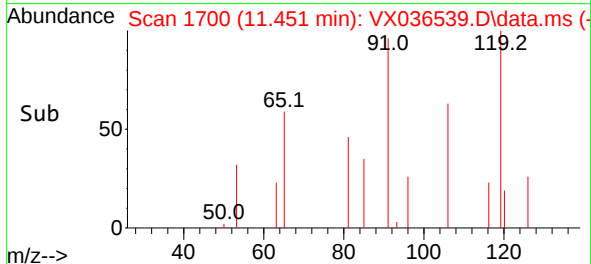
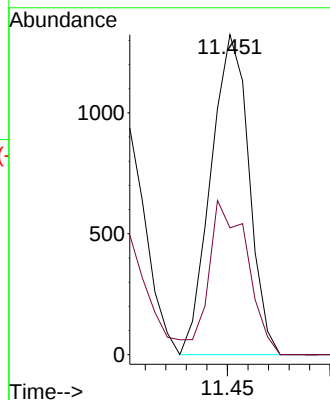
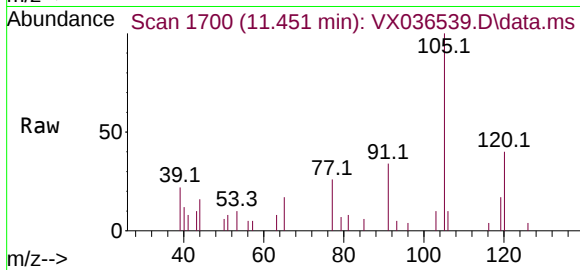
230712058-02-VOA

Tgt Ion:105 Resp: 1705

Ion Ratio Lower Upper

105 100

120 48.7 0.0 96.4



#80

1,2,4-Trimethylbenzene

Concen: 1.832 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. 0.000 min

Lab File: VX036539.D

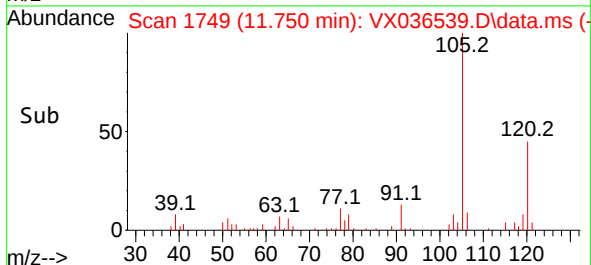
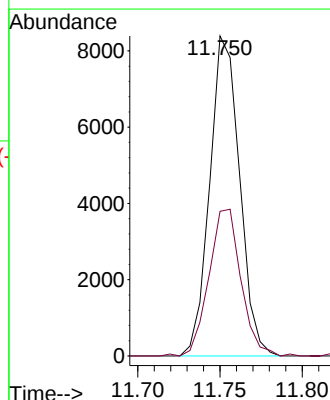
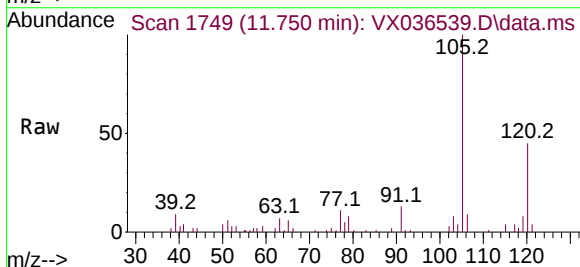
Acq: 13 Jul 2023 20:39

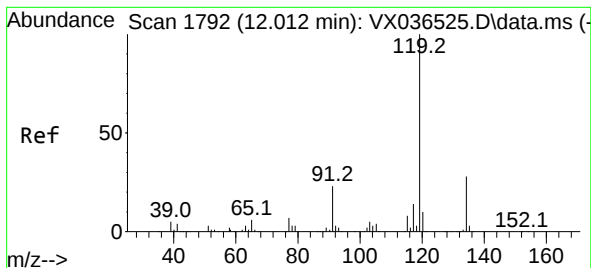
Tgt Ion:105 Resp: 10591

Ion Ratio Lower Upper

105 100

120 48.9 0.0 90.2





#82

p-Isopropyltoluene

Concen: 0.524 ug/l

RT: 12.012 min Scan# 1792

Delta R.T. 0.000 min

Lab File: VX036539.D

Acq: 13 Jul 2023 20:39

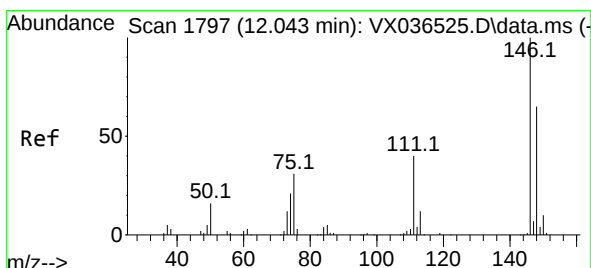
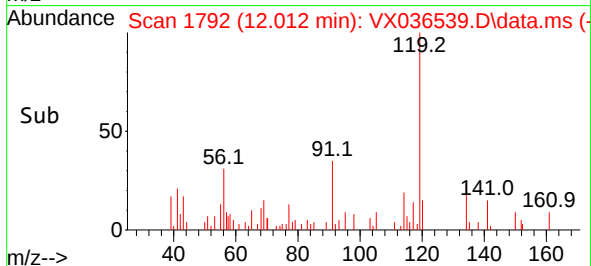
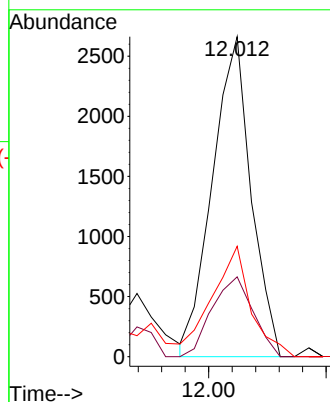
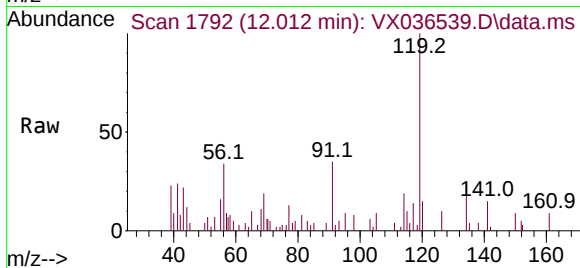
Instrument :

MSVOA_X

ClientSampleId :

230712058-02-VOA

Tgt Ion:119	Resp:	3041
Ion	Ratio	Lower Upper
119	100	
134	26.5	0.0 53.2
91	34.5	0.0 49.4



#84

1,4-Dichlorobenzene

Concen: 7.693 ug/l

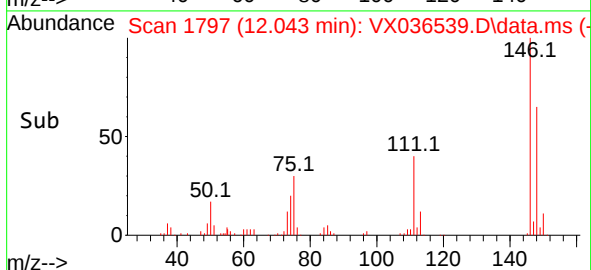
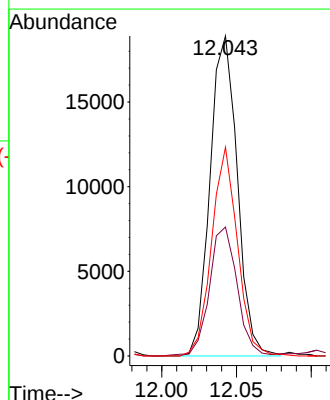
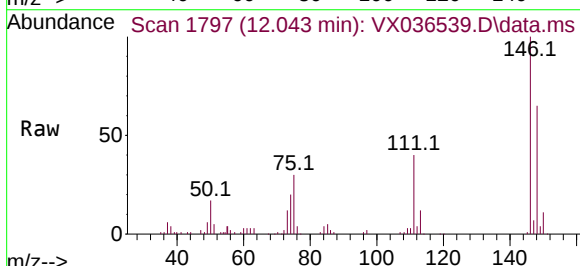
RT: 12.043 min Scan# 1797

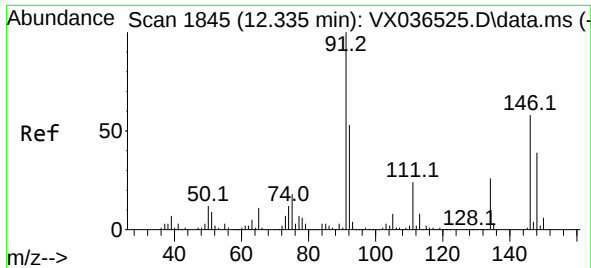
Delta R.T. 0.000 min

Lab File: VX036539.D

Acq: 13 Jul 2023 20:39

Tgt Ion:146	Resp:	23934
Ion	Ratio	Lower Upper
146	100	
111	40.8	20.2 60.6
148	62.0	32.1 96.3

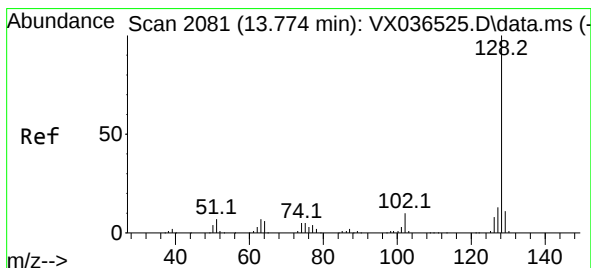
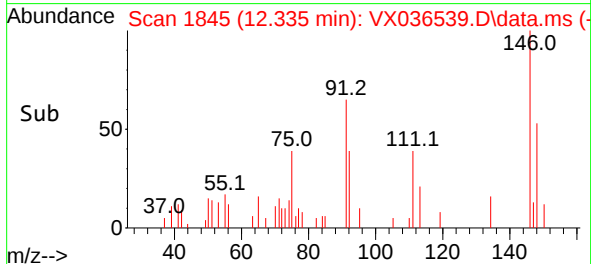
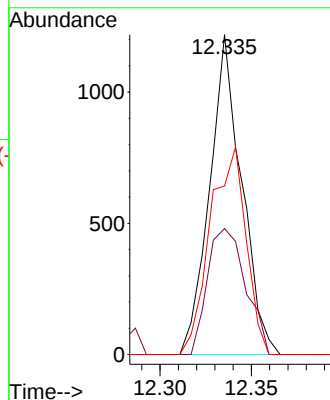
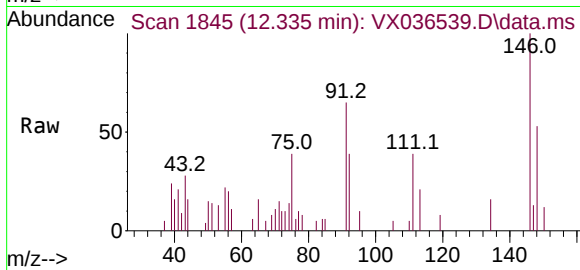




#87
1,2-Dichlorobenzene
Concen: 0.474 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX036539.D
Acq: 13 Jul 2023 20:39

Instrument :
MSVOA_X
ClientSampleId :
230712058-02-VOA

Tgt Ion:146	Resp:	1485
Ion	Ratio	Lower Upper
146	100	
111	47.1	21.4 64.3
148	72.5	33.2 99.6



#91
Naphthalene
Concen: 5.712 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX036539.D
Acq: 13 Jul 2023 20:39

Tgt Ion:128	Resp:	39579
Ion	Ratio	Lower Upper
128	100	
127	13.4	10.3 15.5
129	11.1	8.7 13.1

