

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080421\
 Data File : VX023541.D
 Acq On : 04 Aug 2021 14:21
 Operator : JC/MD
 Sample : M3281-03
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TWP01

Quant Time: Aug 05 05:18:48 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X080321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Aug 03 12:05:42 2021
 Response via : Initial Calibration

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

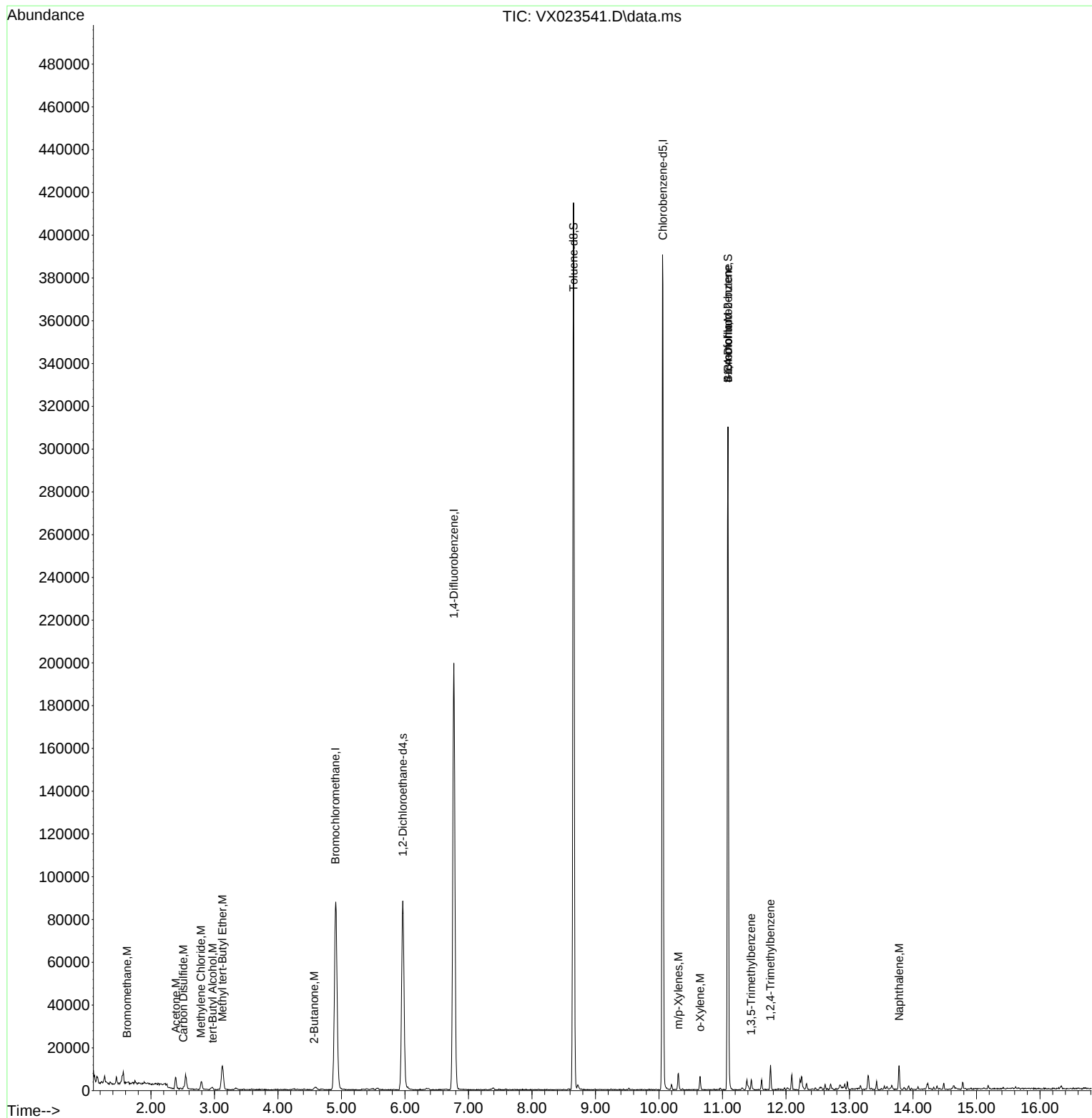
Internal Standards						
1) Bromochloromethane	4.904	128	36962	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	200831	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.061	117	175800	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	84078	29.414	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	98.033%
60) 4-Bromofluorobenzene	11.085	95	77703	26.985	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	89.967%
63) Toluene-d8	8.653	98	240949	30.454	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.500%
Target Compounds					Qvalue	
5) Bromomethane	1.624	94	649	0.449	ug/l	81
15) Acetone	2.392	58	1781	4.159	ug/l	81
16) Carbon Disulfide	2.508	76	1212	0.229	ug/l	98
18) Methylene Chloride	2.788	84	1615	0.641	ug/l	87
23) tert-Butyl Alcohol	2.971	59	348	0.543	ug/l #	100
24) Methyl tert-Butyl Ether	3.123	73	11918	1.587	ug/l	96
30) 2-Butanone	4.568	43	429	0.205	ug/l #	80
56) Bromoform	11.085	173	847	0.465	ug/l #	1
67) m/p-Xylenes	10.305	106	2008	0.473	ug/l	76
68) o-Xylene	10.647	106	1315	0.314	ug/l	94
76) 1,3,5-Trimethylbenzene	11.451	105	1936	0.212	ug/l	99
77) t-1,4-Dichloro-2-butene	11.085	75	41828	35.417	ug/l #	7
80) 1,2,4-Trimethylbenzene	11.756	105	4882	0.540	ug/l	93
91) Naphthalene	13.780	128	7112	0.715	ug/l	98

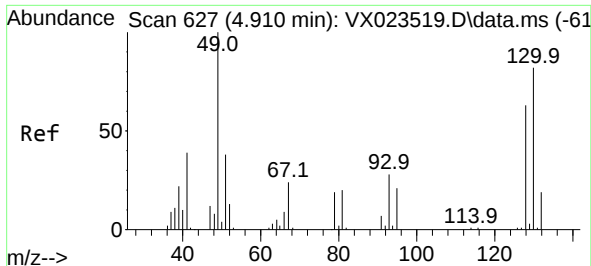
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080421\
Data File : VX023541.D
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Sample : M3281-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TWP01

Quant Time: Aug 05 05:18:48 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X080321W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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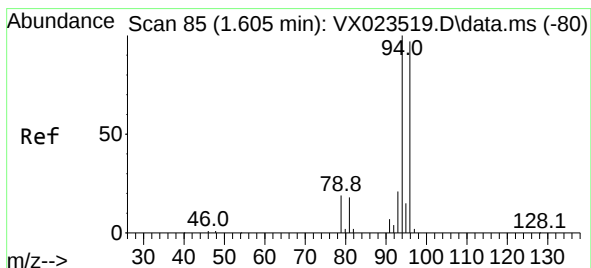
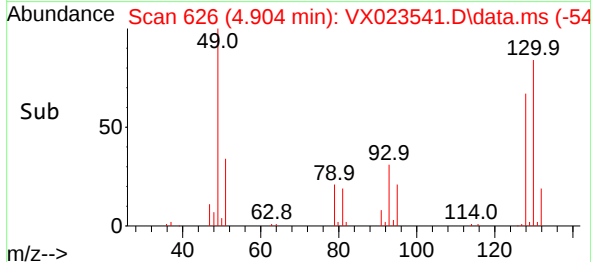
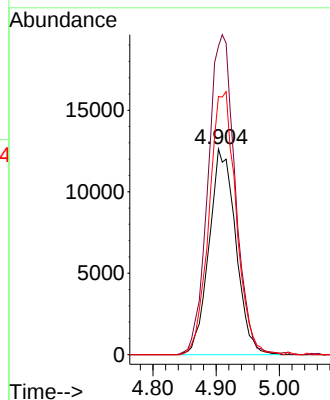
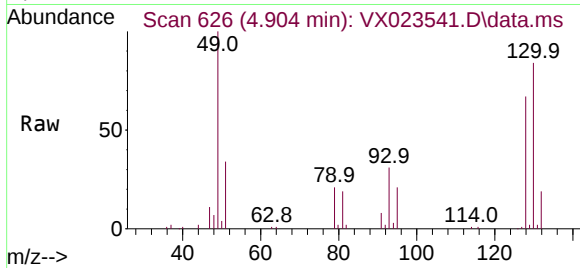




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.904 min Scan# 626
Delta R.T. -0.006 min
Lab File: VX023541.D
Acq: 04 Aug 2021 14:21

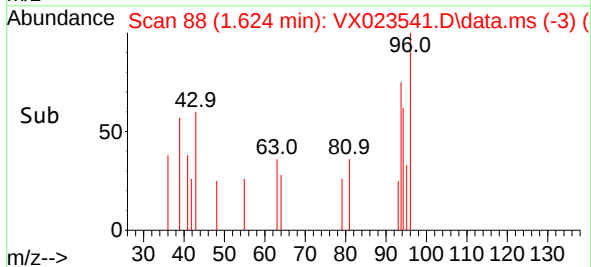
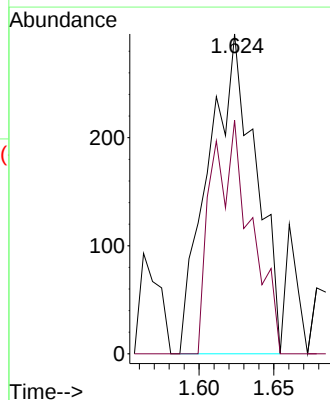
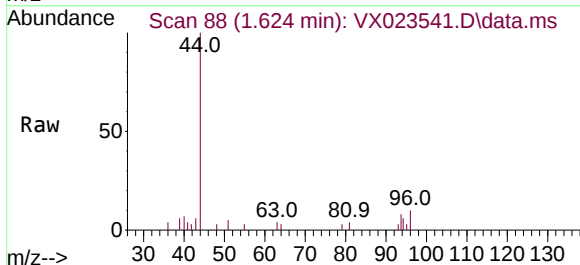
Instrument :
MSVOA_X
ClientSampleId :
TWP01

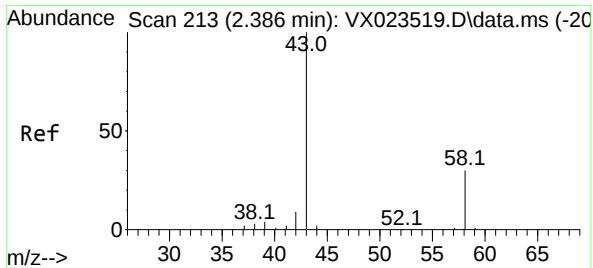
Tgt Ion:128 Resp: 36962
Ion Ratio Lower Upper
128 100
49 158.3 0.0 402.5
130 129.7 0.0 326.5



#5
Bromomethane
Concen: 0.449 ug/l
RT: 1.624 min Scan# 88
Delta R.T. 0.018 min
Lab File: VX023541.D
Acq: 04 Aug 2021 14:21

Tgt Ion: 94 Resp: 649
Ion Ratio Lower Upper
94 100
96 73.0 72.8 109.2

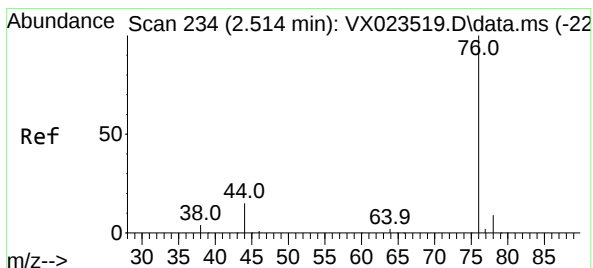
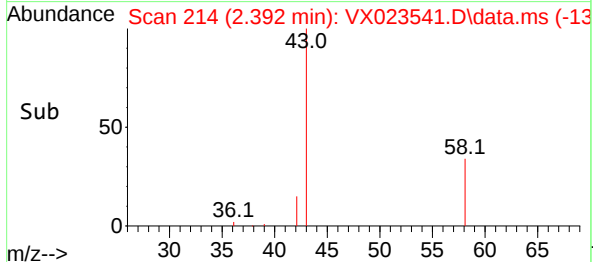
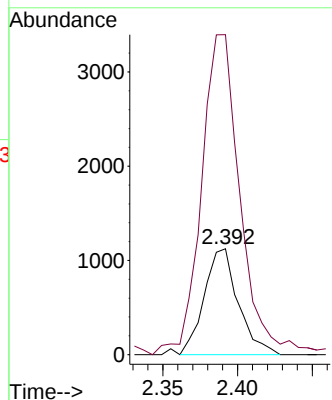
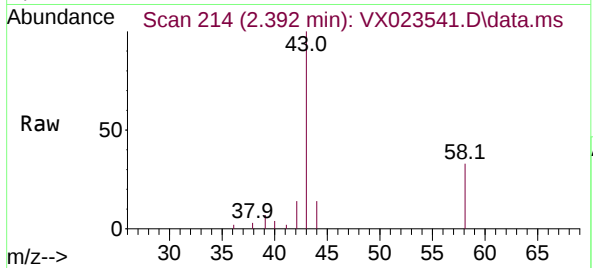




#15
Acetone
Concen: 4.159 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.006 min
Lab File: VX023541.D
Acq: 04 Aug 2021 14:21

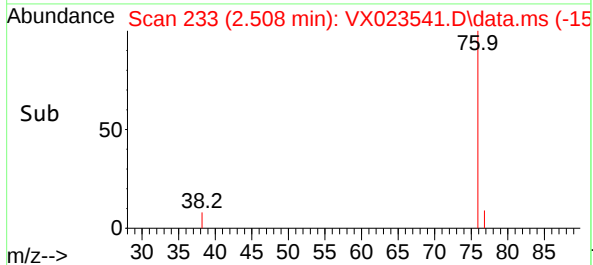
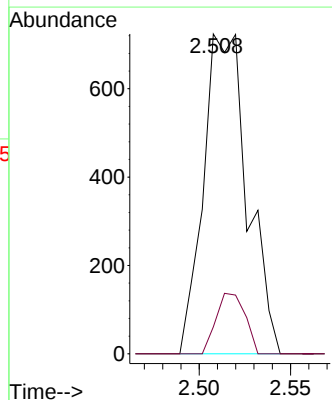
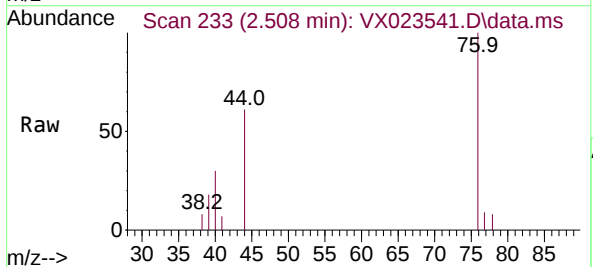
Instrument :
MSVOA_X
ClientSampleId :
TWP01

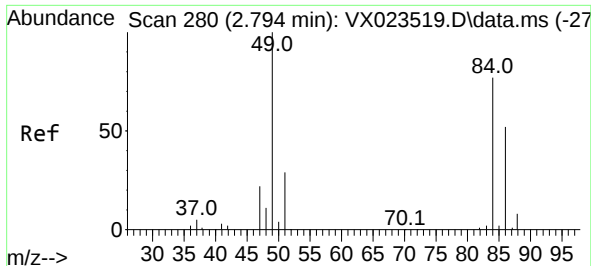
Tgt Ion: 58 Resp: 1781
Ion Ratio Lower Upper
58 100
43 292.3 266.6 400.0



#16
Carbon Disulfide
Concen: 0.229 ug/l
RT: 2.508 min Scan# 233
Delta R.T. -0.006 min
Lab File: VX023541.D
Acq: 04 Aug 2021 14:21

Tgt Ion: 76 Resp: 1212
Ion Ratio Lower Upper
76 100
78 8.4 7.3 10.9





#18

Methylene Chloride

Concen: 0.641 ug/l

RT: 2.788 min Scan# 279

Delta R.T. -0.006 min

Lab File: VX023541.D

Acq: 04 Aug 2021 14:21

Tgt Ion: 84 Resp: 1615

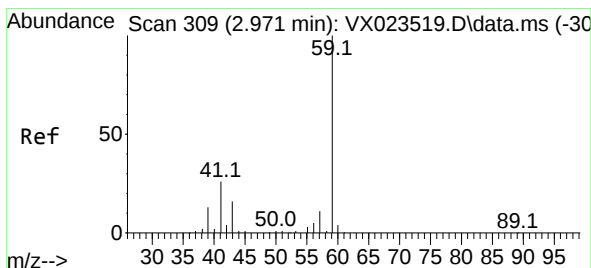
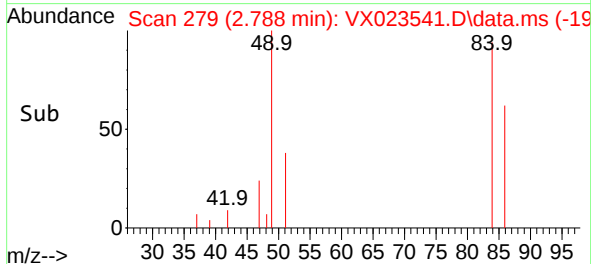
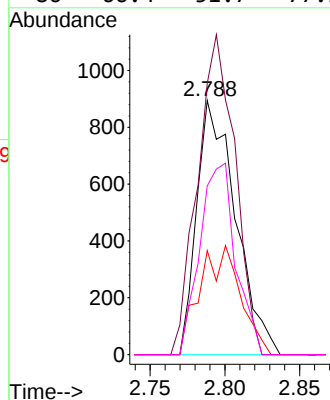
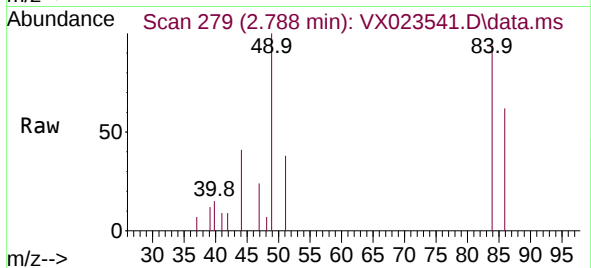
Ion Ratio Lower Upper

84 100

49 106.7 104.3 156.5

51 40.9 30.3 45.5

86 66.4 51.7 77.5



#23

tert-Butyl Alcohol

Concen: 0.543 ug/l

RT: 2.971 min Scan# 309

Delta R.T. 0.000 min

Lab File: VX023541.D

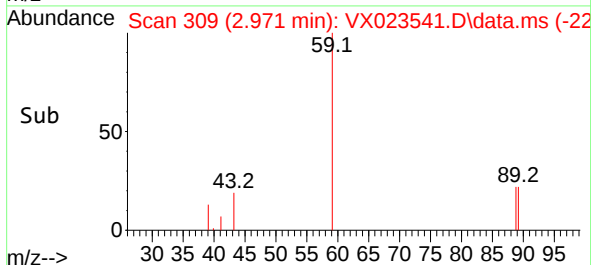
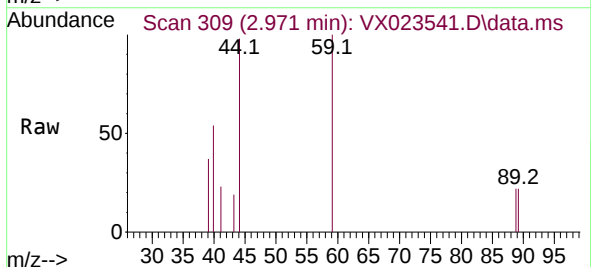
Acq: 04 Aug 2021 14:21

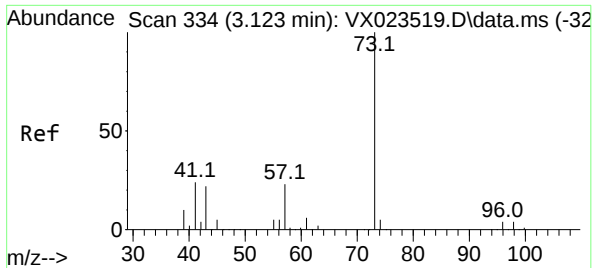
Tgt Ion: 59 Resp: 348

Ion Ratio Lower Upper

59 100

52 0.0 0.1 0.1#

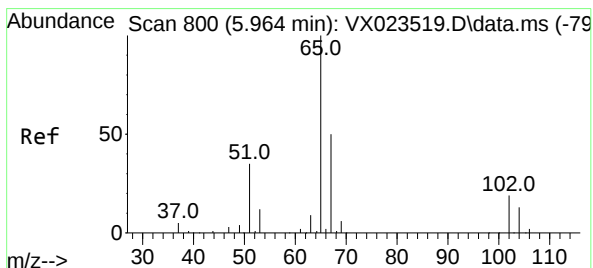
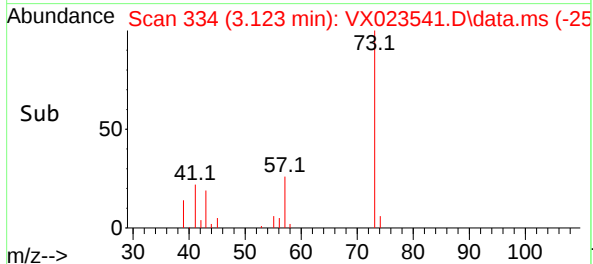
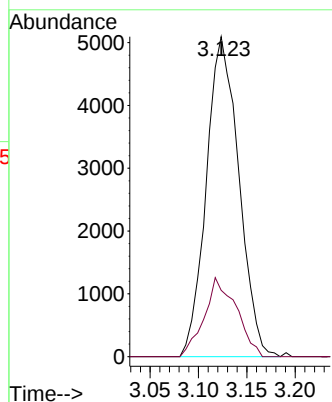
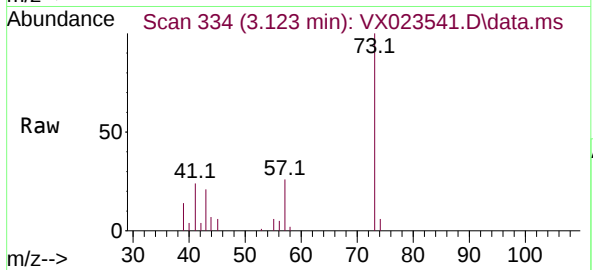




#24
Methyl tert-Butyl Ether
Concen: 1.587 ug/l
RT: 3.123 min Scan# 334
Delta R.T. 0.000 min
Lab File: VX023541.D
Acq: 04 Aug 2021 14:21

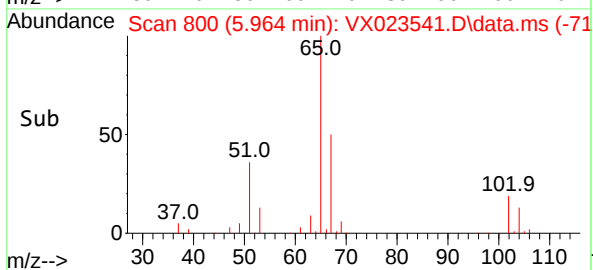
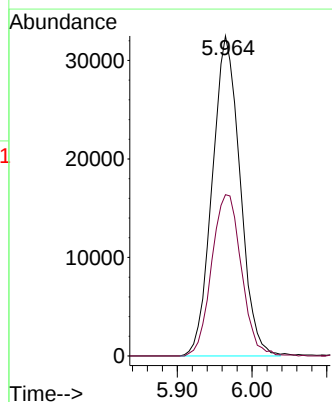
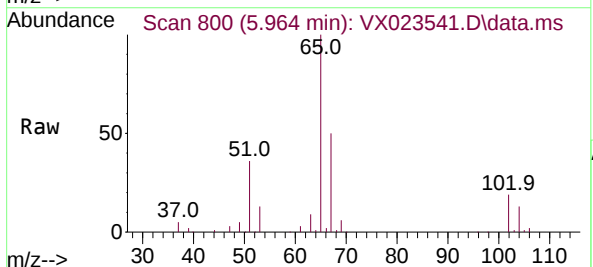
Instrument :
MSVOA_X
ClientSampled :
TWP01

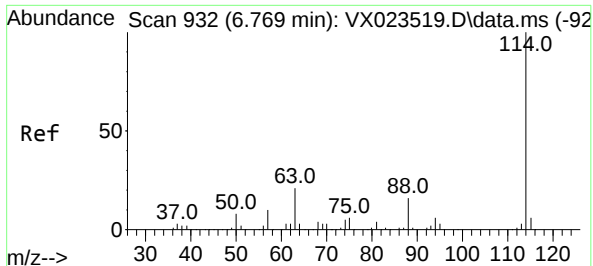
Tgt Ion: 73 Resp: 11918
Ion Ratio Lower Upper
73 100
43 24.4 17.9 26.9



#27
1,2-Dichloroethane-d4
Concen: 29.414 ug/l
RT: 5.964 min Scan# 800
Delta R.T. 0.000 min
Lab File: VX023541.D
Acq: 04 Aug 2021 14:21

Tgt Ion: 65 Resp: 84078
Ion Ratio Lower Upper
65 100
67 53.8 42.4 63.6





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. 0.000 min

Lab File: VX023541.D

Acq: 04 Aug 2021 14:21

Tgt Ion: 114 Resp: 200831

Ion Ratio Lower Upper

114 100

63 20.3 16.4 24.6

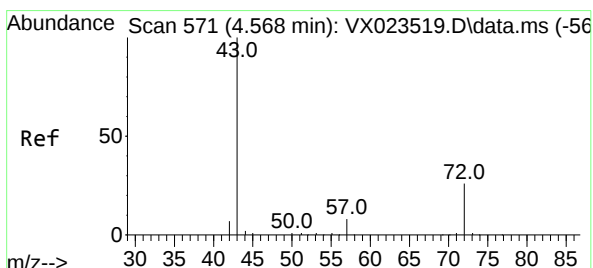
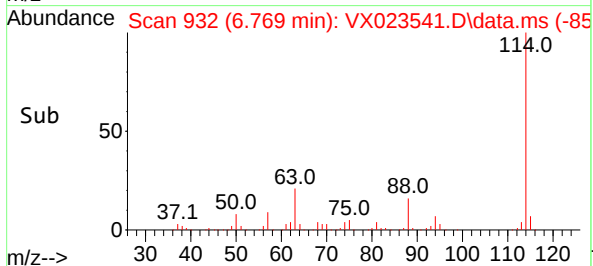
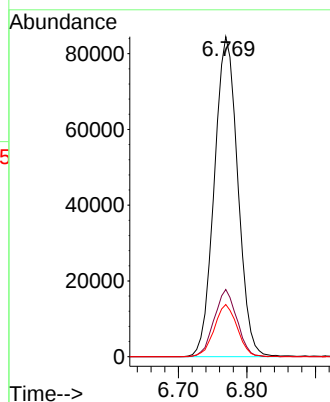
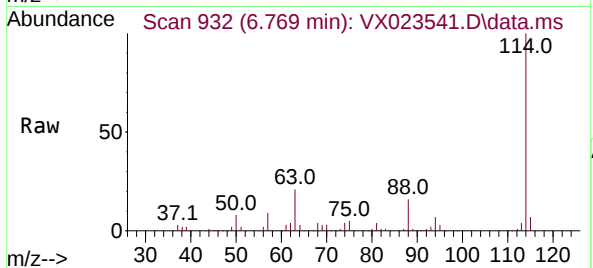
88 15.9 12.7 19.1

Instrument :

MSVOA_X

ClientSampleId :

TWP01



#30

2-Butanone

Concen: 0.205 ug/l

RT: 4.568 min Scan# 571

Delta R.T. 0.000 min

Lab File: VX023541.D

Acq: 04 Aug 2021 14:21

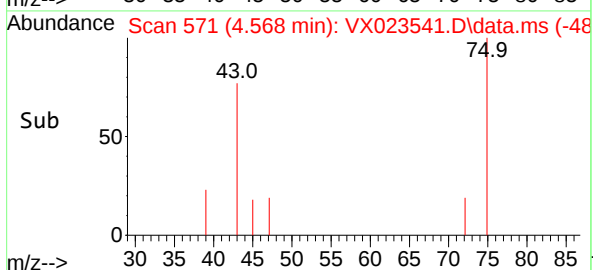
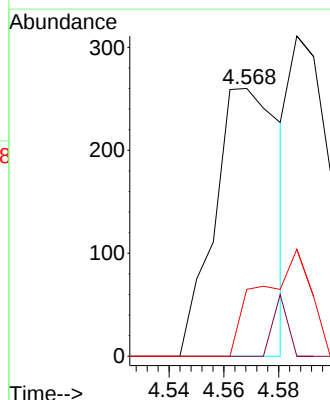
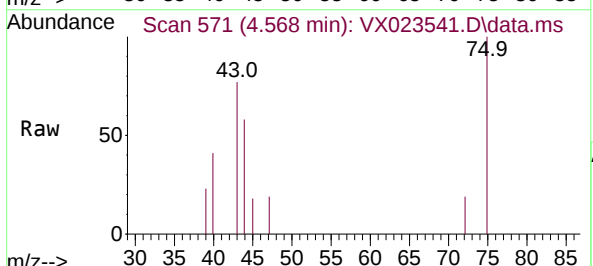
Tgt Ion: 43 Resp: 429

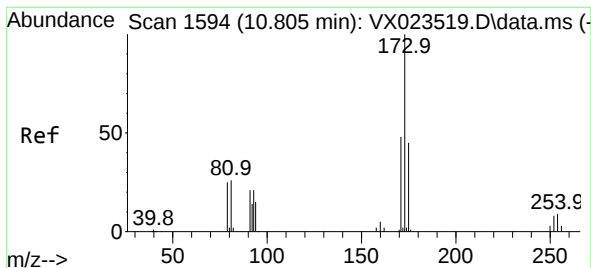
Ion Ratio Lower Upper

43 100

57 0.0 6.6 9.8#

72 16.8 21.0 31.4#

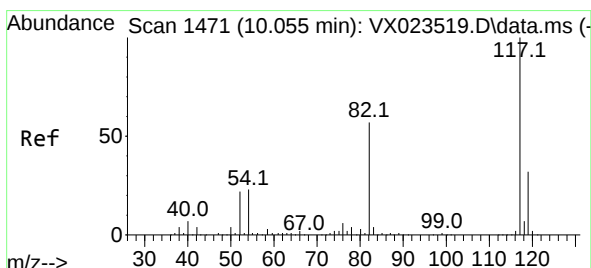
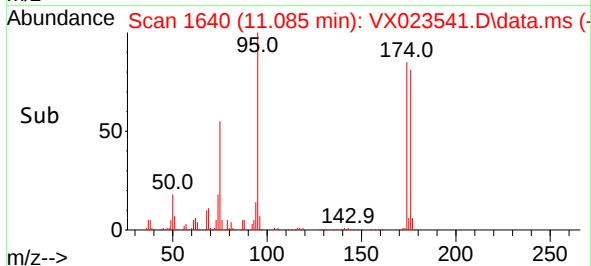
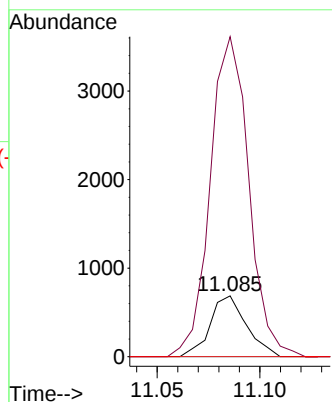
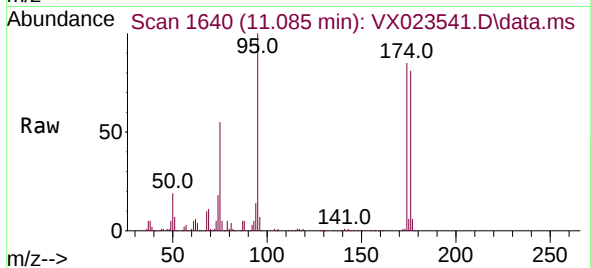




#56
Bromoform
Concen: 0.465 ug/l
RT: 11.085 min Scan# 1640
Delta R.T. 0.281 min
Lab File: VX023541.D
Acq: 04 Aug 2021 14:21

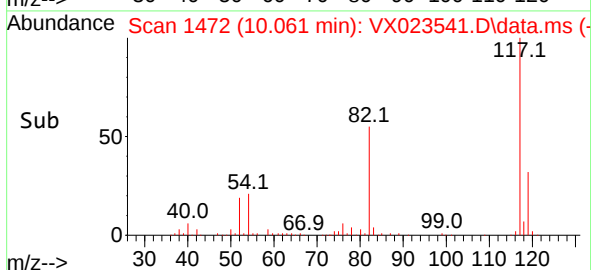
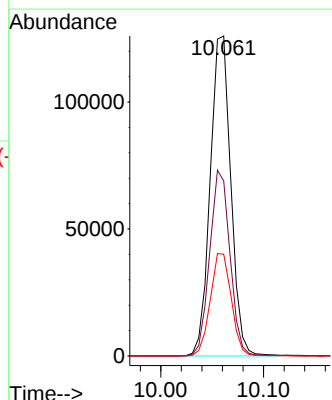
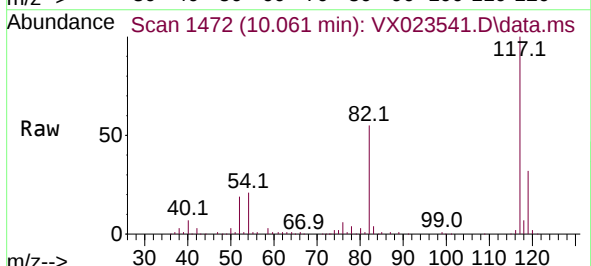
Instrument :
MSVOA_X
ClientSampleId :
TWP01

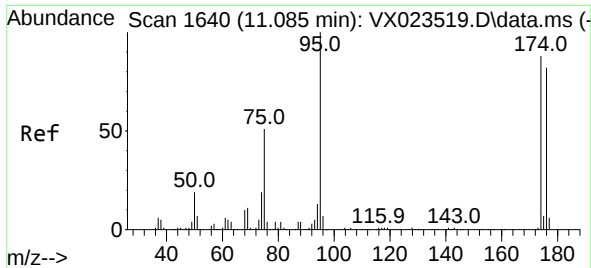
Tgt Ion:173 Resp: 847
Ion Ratio Lower Upper
173 100
175 556.9 38.4 57.6#
254 0.0 7.3 10.9#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.061 min Scan# 1472
Delta R.T. 0.006 min
Lab File: VX023541.D
Acq: 04 Aug 2021 14:21

Tgt Ion:117 Resp: 175800
Ion Ratio Lower Upper
117 100
82 57.1 45.0 67.4
119 32.6 26.2 39.2

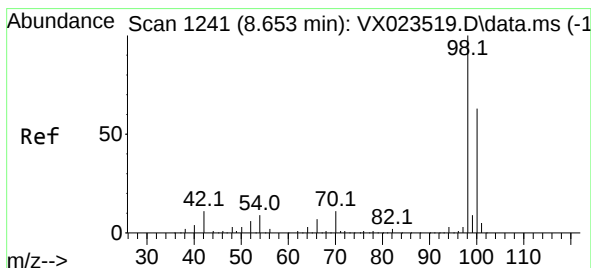
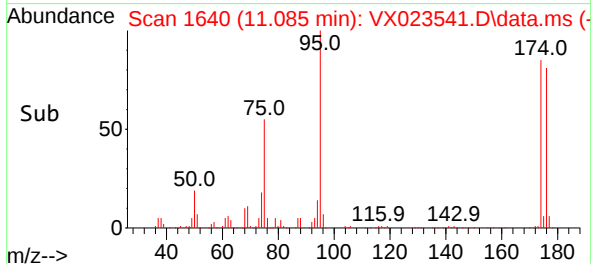
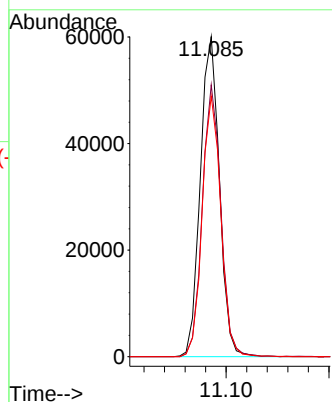
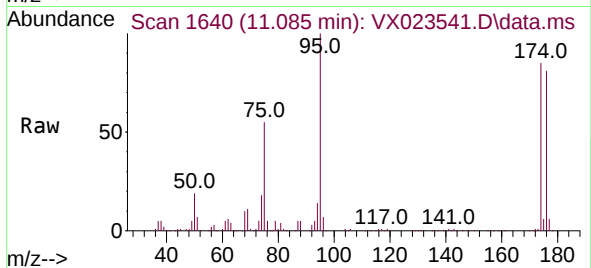




#60
4-Bromofluorobenzene
Concen: 26.985 ug/l
RT: 11.085 min Scan# 1640
Delta R.T. 0.000 min
Lab File: VX023541.D
Acq: 04 Aug 2021 14:21

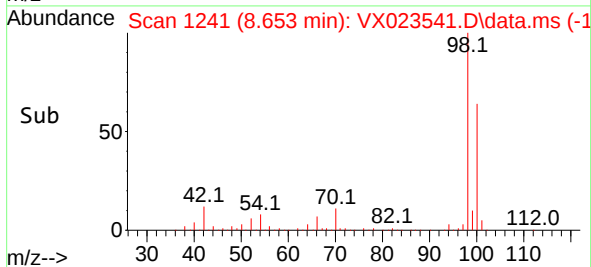
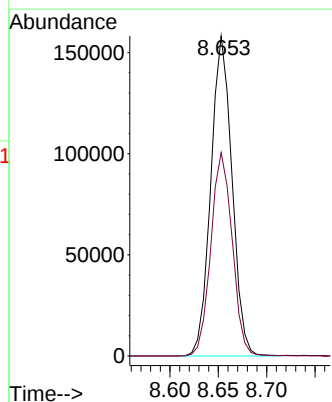
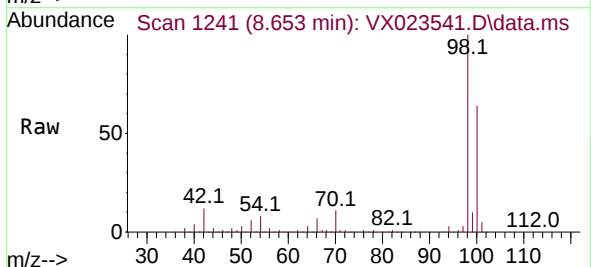
Instrument :
MSVOA_X
ClientSampleId :
TWP01

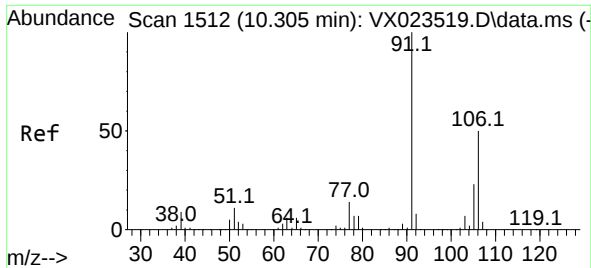
Tgt Ion: 95 Resp: 77703
Ion Ratio Lower Upper
95 100
174 82.5 63.5 95.3
176 79.7 63.0 94.4



#63
Toluene-d8
Concen: 30.454 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.000 min
Lab File: VX023541.D
Acq: 04 Aug 2021 14:21

Tgt Ion: 98 Resp: 240949
Ion Ratio Lower Upper
98 100
100 63.9 51.4 77.0

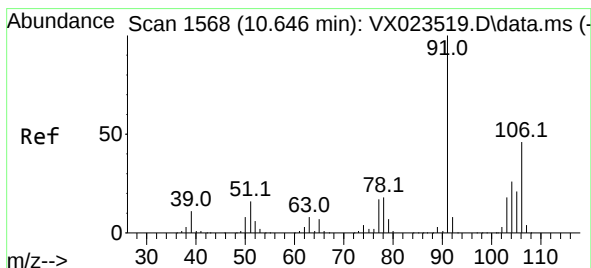
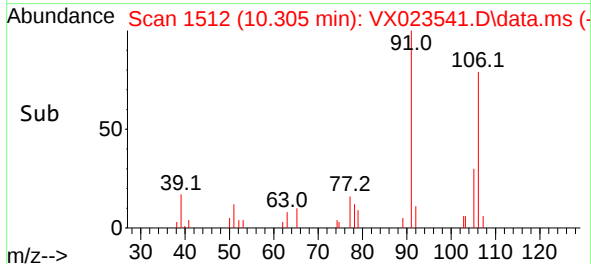
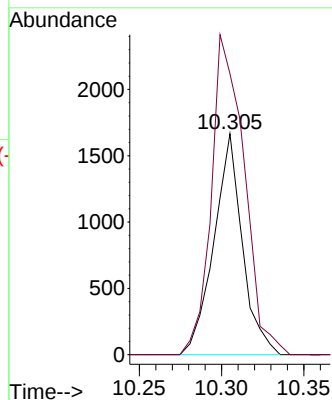
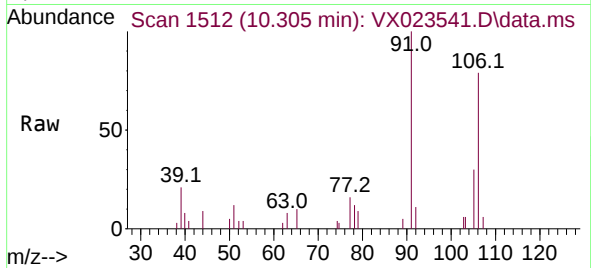




#67
m/p-Xylenes
Concen: 0.473 ug/l
RT: 10.305 min Scan# 1512
Delta R.T. 0.000 min
Lab File: VX023541.D
Acq: 04 Aug 2021 14:21

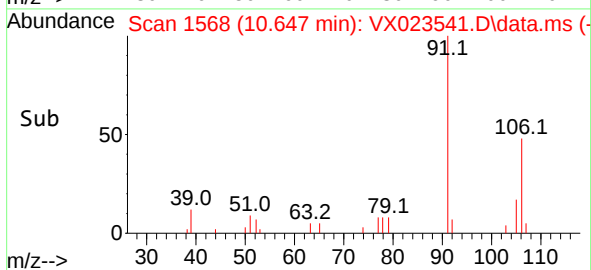
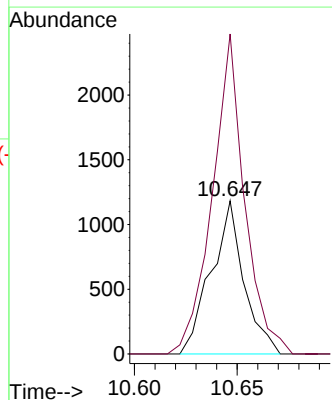
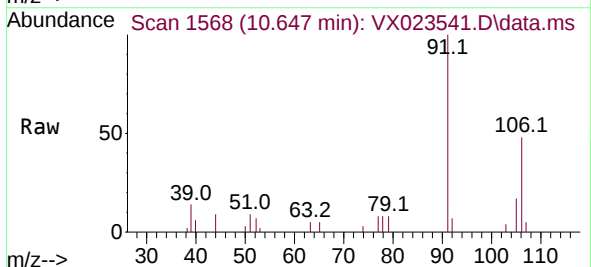
Instrument :
MSVOA_X
ClientSampleId :
TWP01

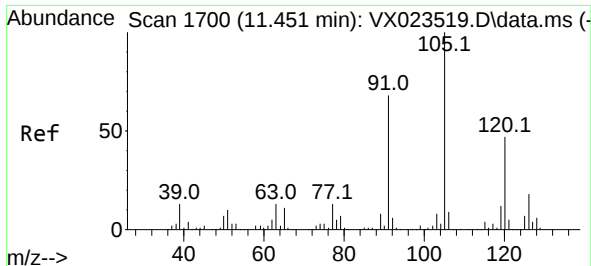
Tgt Ion:106 Resp: 2008
Ion Ratio Lower Upper
106 100
91 166.6 162.4 243.6



#68
o-Xylene
Concen: 0.314 ug/l
RT: 10.647 min Scan# 1568
Delta R.T. 0.000 min
Lab File: VX023541.D
Acq: 04 Aug 2021 14:21

Tgt Ion:106 Resp: 1315
Ion Ratio Lower Upper
106 100
91 205.1 107.3 321.8

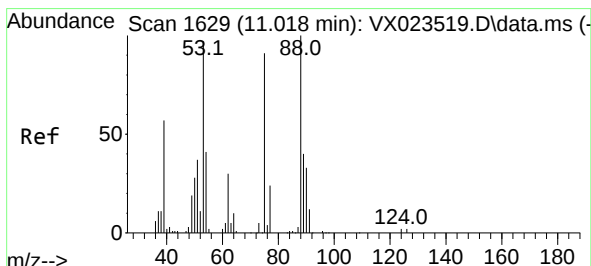
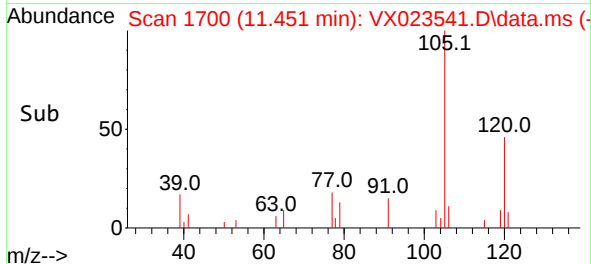
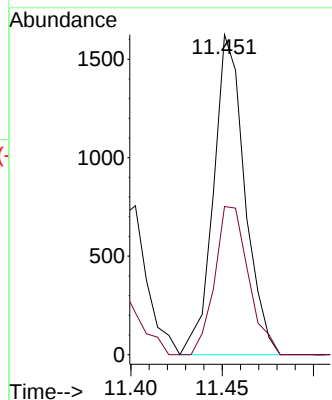
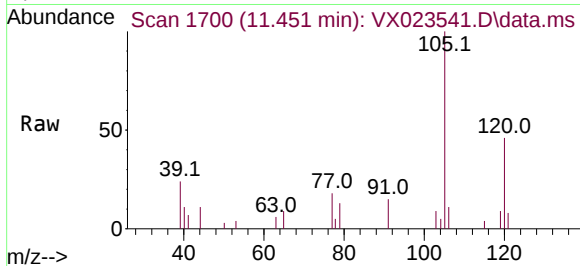




#76
1,3,5-Trimethylbenzene
Concen: 0.212 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX023541.D
Acq: 04 Aug 2021 14:21

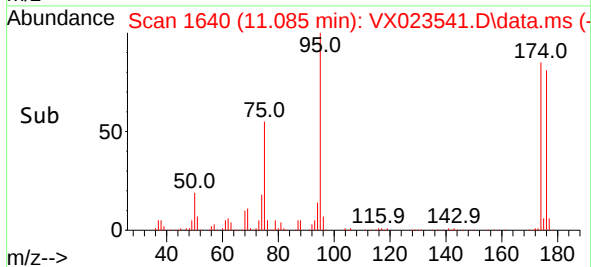
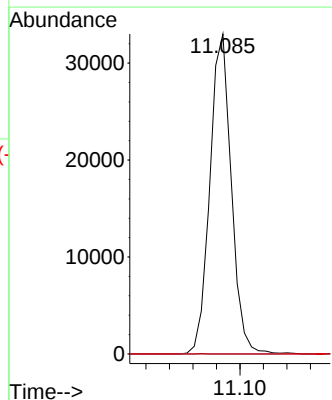
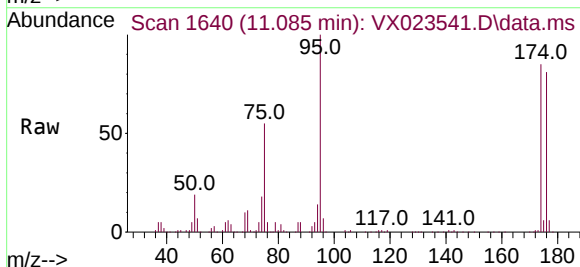
Instrument :
MSVOA_X
ClientSampled :
TWP01

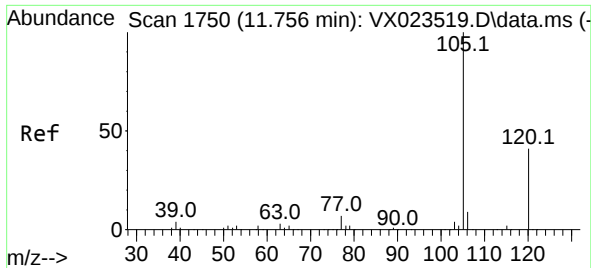
Tgt Ion:105 Resp: 1936
Ion Ratio Lower Upper
105 100
120 49.9 0.0 98.0



#77
t-1,4-Dichloro-2-butene
Concen: 35.417 ug/l
RT: 11.085 min Scan# 1640
Delta R.T. 0.067 min
Lab File: VX023541.D
Acq: 04 Aug 2021 14:21

Tgt Ion: 75 Resp: 41828
Ion Ratio Lower Upper
75 100
53 0.0 53.9 161.7#
89 0.0 22.9 68.7#

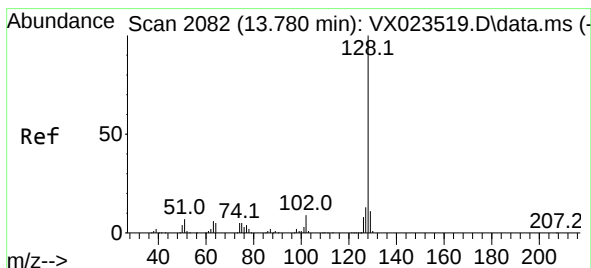
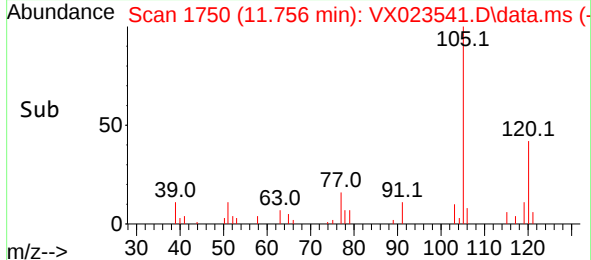
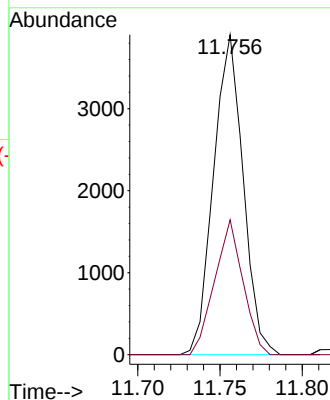
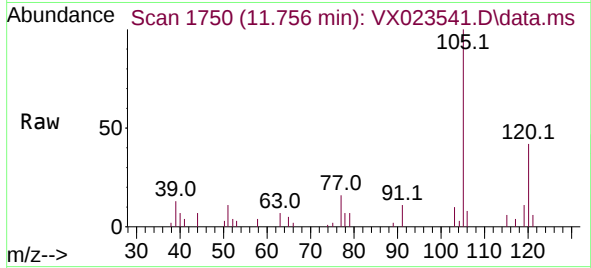




#80
1,2,4-Trimethylbenzene
Concen: 0.540 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. 0.000 min
Lab File: VX023541.D
Acq: 04 Aug 2021 14:21

Instrument :
MSVOA_X
ClientSampled :
TWP01

Tgt Ion:105 Resp: 4882
Ion Ratio Lower Upper
105 100
120 40.4 0.0 90.4



#91
Naphthalene
Concen: 0.715 ug/l
RT: 13.780 min Scan# 2082
Delta R.T. 0.000 min
Lab File: VX023541.D
Acq: 04 Aug 2021 14:21

Tgt Ion:128 Resp: 7112
Ion Ratio Lower Upper
128 100
127 13.6 10.1 15.1
129 10.8 8.6 12.8

