

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082221\
 Data File : VX023895.D
 Acq On : 20 Aug 2021 22:16
 Operator : JC/MD
 Sample : M3479-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 210818092-02-VOA

Quant Time: Aug 21 01:11:42 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)

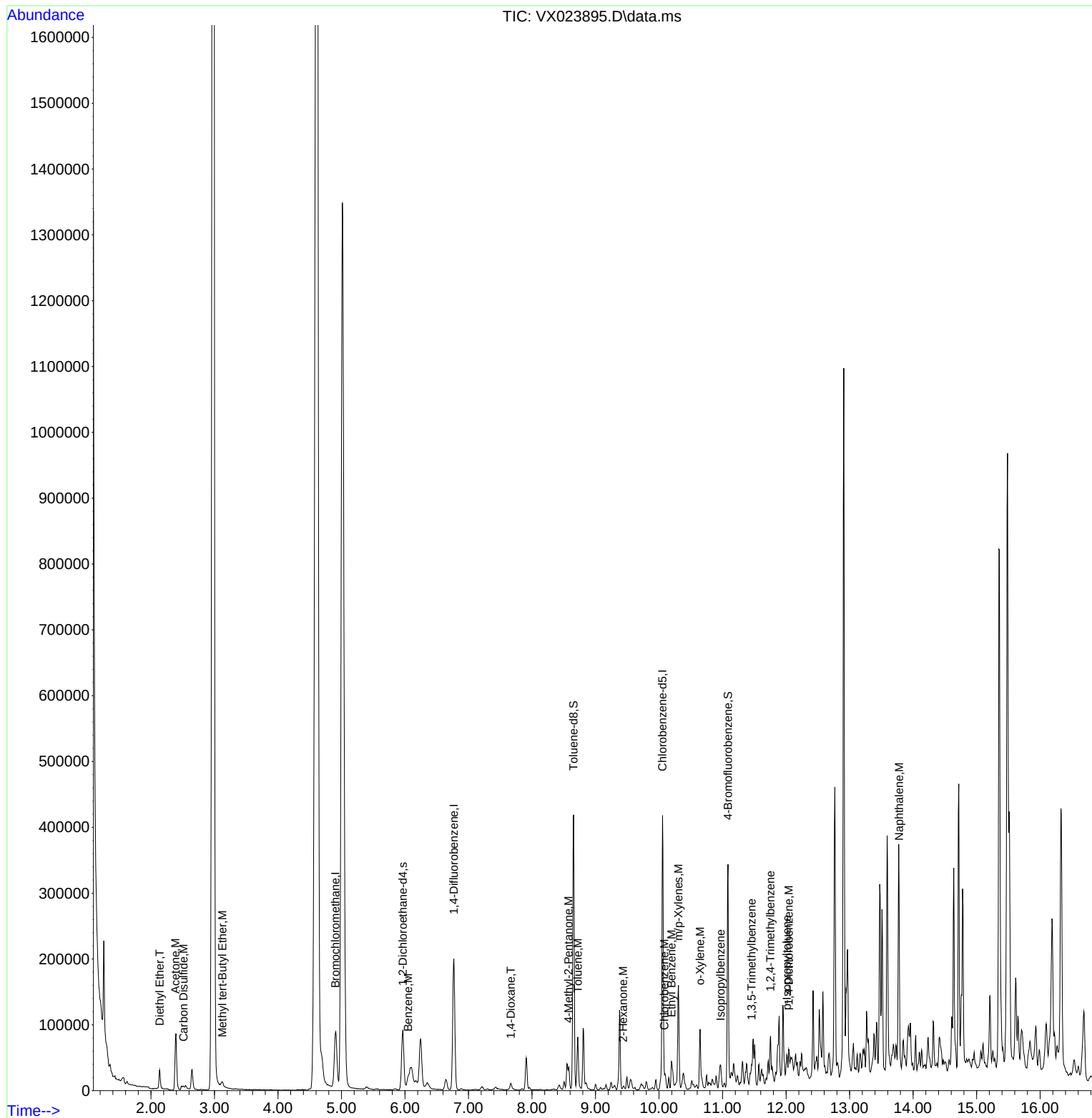
Internal Standards						
1) Bromochloromethane	4.904	128	36219	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	199529	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	177111	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	87579	31.267	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	104.233%
60) 4-Bromofluorobenzene	11.085	95	82291	28.367	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	94.567%
63) Toluene-d8	8.653	98	238930	29.975	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.900%
Target Compounds						
					Qvalue	
8) Diethyl Ether	2.136	74	9242	6.648	ug/l	94
15) Acetone	2.386	58	12296	29.306	ug/l	98
16) Carbon Disulfide	2.514	76	1725	0.333	ug/l #	90
24) Methyl tert-Butyl Ether	3.123	73	7281	0.989	ug/l #	76
34) Benzene	6.050	78	19157	2.045	ug/l #	90
45) 1,4-Dioxane	7.665	88	6832	107.027	ug/l	97
58) 4-Methyl-2-Pentanone	8.574	43	18214	4.770	ug/l	99
59) 2-Hexanone	9.433	43	2560	0.863	ug/l #	83
62) Toluene	8.720	91	34265	3.429	ug/l	99
64) Chlorobenzene	10.086	112	2479	0.392	ug/l #	72
66) Ethyl Benzene	10.195	91	21844	1.976	ug/l	98
67) m/p-Xylenes	10.305	106	32951	7.706	ug/l	98
68) o-Xylene	10.646	106	17998	4.269	ug/l	98
70) Isopropylbenzene	10.970	105	13231	1.194	ug/l	100
76) 1,3,5-Trimethylbenzene	11.457	105	7697	0.837	ug/l	97
80) 1,2,4-Trimethylbenzene	11.756	105	25680	2.819	ug/l	96
82) p-Isopropyltoluene	12.012	119	4021	0.428	ug/l	90
84) 1,4-Dichlorobenzene	12.043	146	8027	1.661	ug/l	95
91) Naphthalene	13.780	128	106813	10.658	ug/l	99

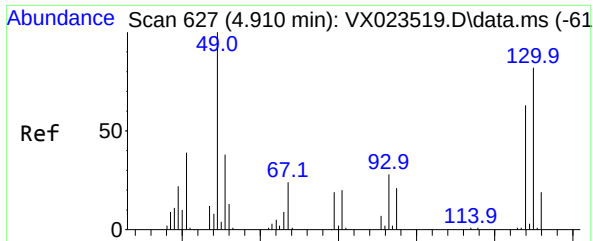
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Tue Aug 03 12:05:42 2021
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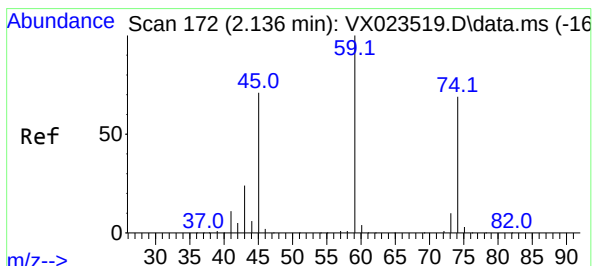
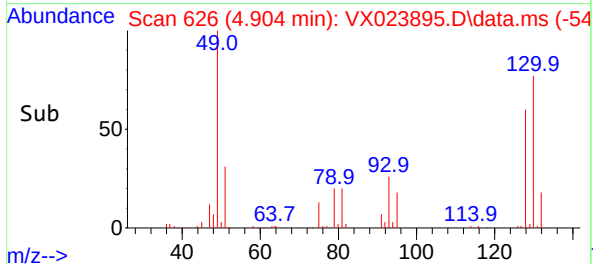
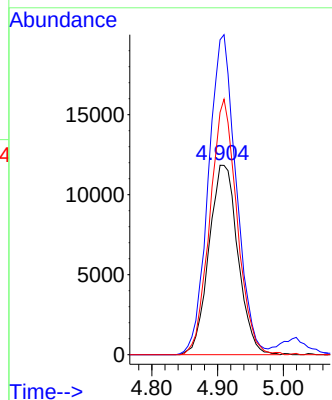
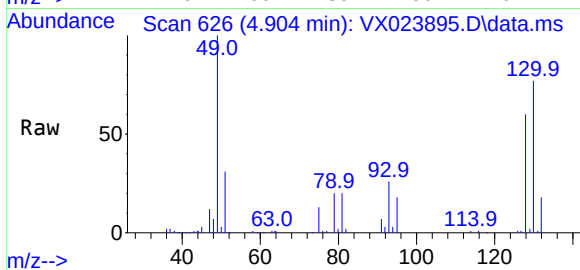




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.904 min Scan# 626
Delta R.T. -0.006 min
Lab File: VX023895.D
Acq: 20 Aug 2021 22:16

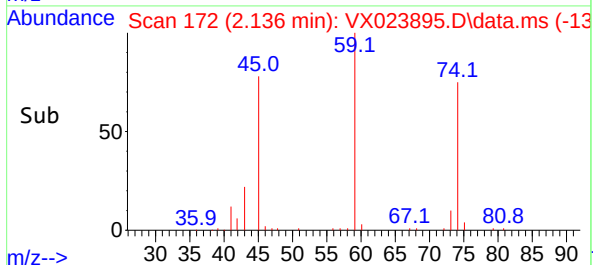
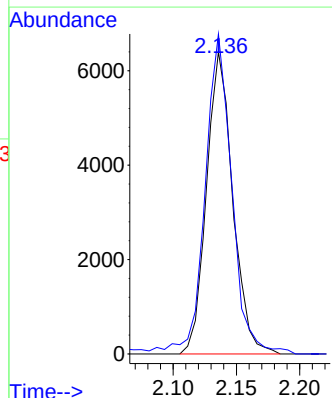
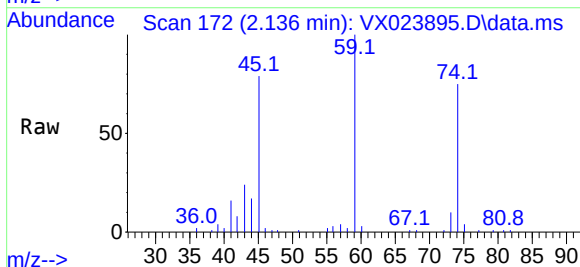
Instrument :
MSVOA_X
ClientSampleId :
210818092-02-VOA

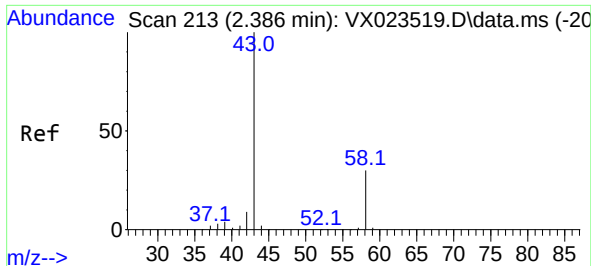
Tgt Ion:	128	Resp:	36219
Ion	Ratio	Lower	Upper
128	100		
49	162.3	0.0	402.5
130	126.0	0.0	326.5



#8
Diethyl Ether
Concen: 6.648 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX023895.D
Acq: 20 Aug 2021 22:16

Tgt Ion:	74	Resp:	9242
Ion	Ratio	Lower	Upper
74	100		
45	105.3	19.9	179.1

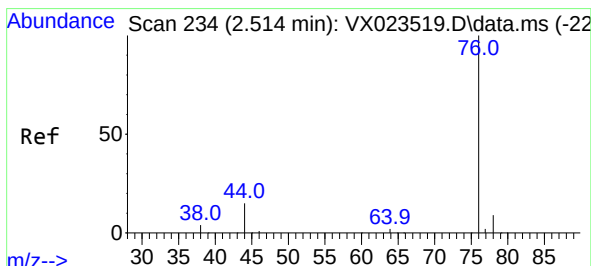
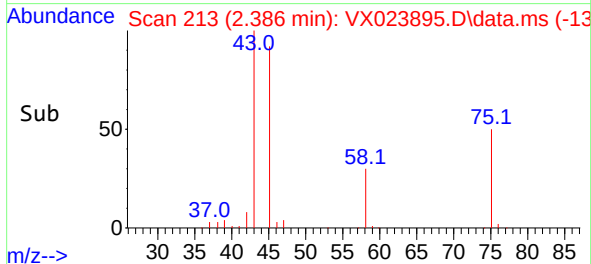
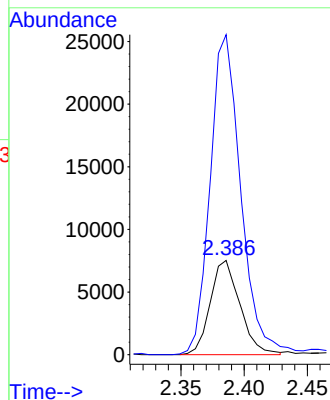
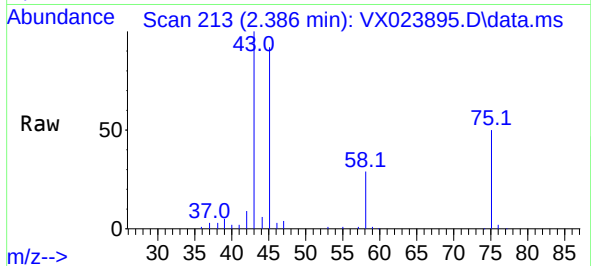




#15
Acetone
Concen: 29.306 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX023895.D
Acq: 20 Aug 2021 22:16

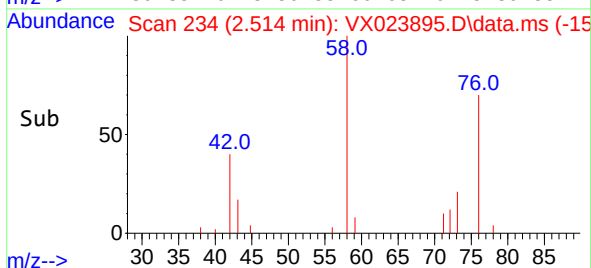
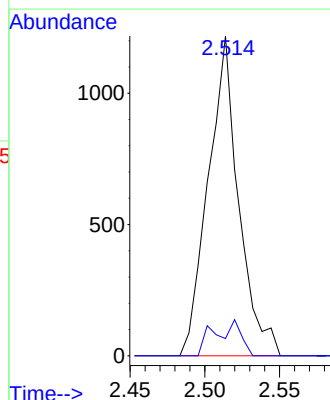
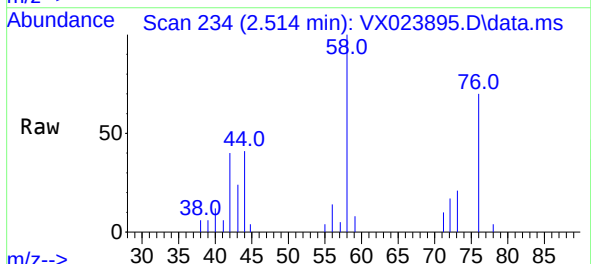
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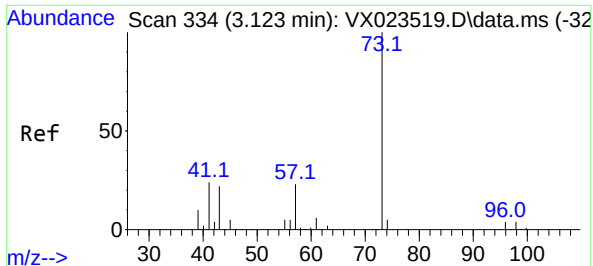
Tgt Ion: 58 Resp: 12296
Ion Ratio Lower Upper
58 100
43 338.5 266.6 400.0



#16
Carbon Disulfide
Concen: 0.333 ug/l
RT: 2.514 min Scan# 234
Delta R.T. 0.000 min
Lab File: VX023895.D
Acq: 20 Aug 2021 22:16

Tgt Ion: 76 Resp: 1725
Ion Ratio Lower Upper
76 100
78 5.4 7.3 10.9#

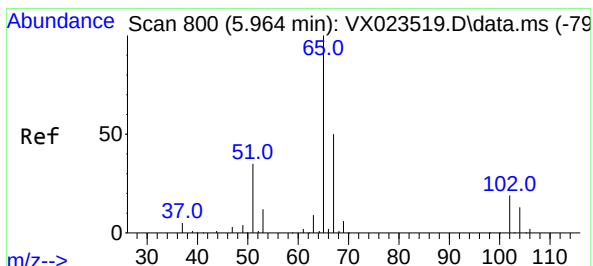
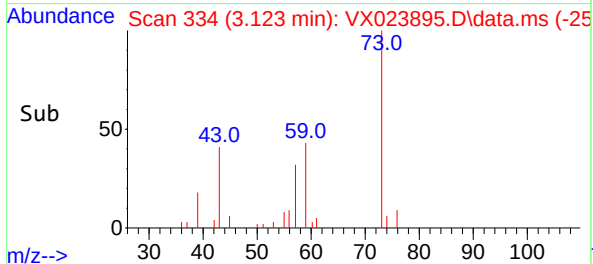
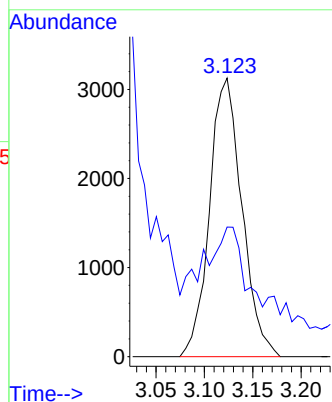
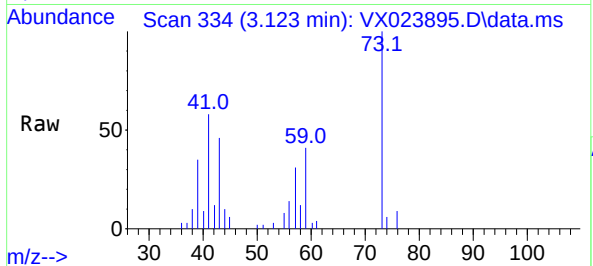




#24
Methyl tert-Butyl Ether
Concen: 0.989 ug/l
RT: 3.123 min Scan# 334
Delta R.T. 0.000 min
Lab File: VX023895.D
Acq: 20 Aug 2021 22:16

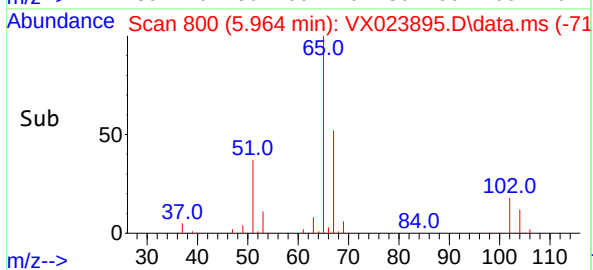
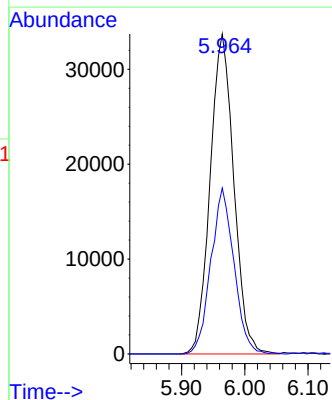
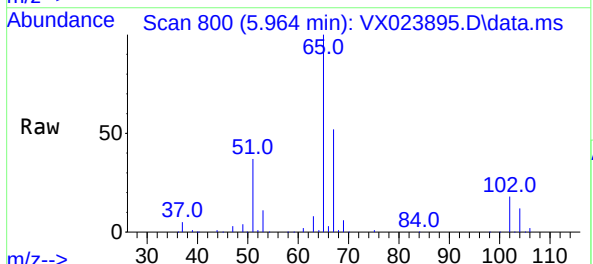
Instrument :
MSVOA_X
ClientSampleId :
210818092-02-VOA

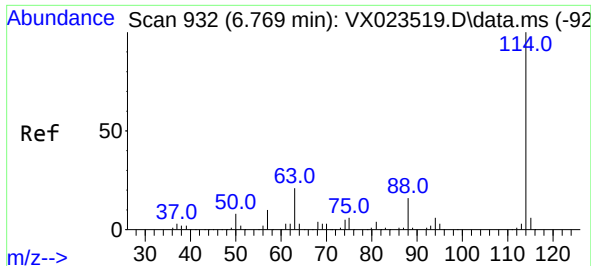
Tgt Ion: 73 Resp: 7281
Ion Ratio Lower Upper
73 100
43 33.9 17.9 26.9#



#27
1,2-Dichloroethane-d4
Concen: 31.267 ug/l
RT: 5.964 min Scan# 800
Delta R.T. 0.000 min
Lab File: VX023895.D
Acq: 20 Aug 2021 22:16

Tgt Ion: 65 Resp: 87579
Ion Ratio Lower Upper
65 100
67 50.5 42.4 63.6



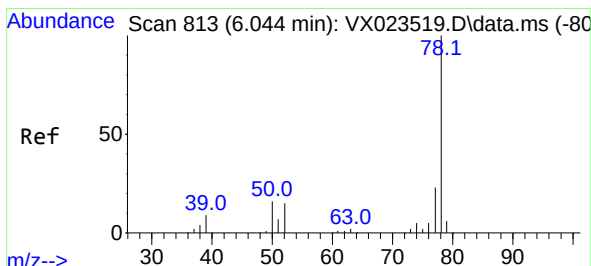
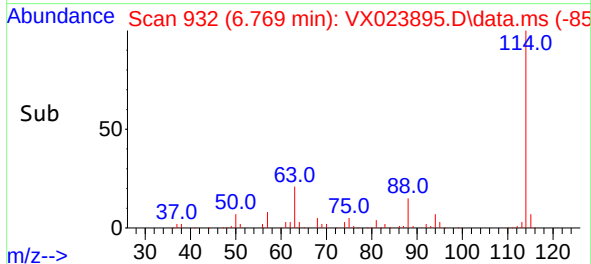
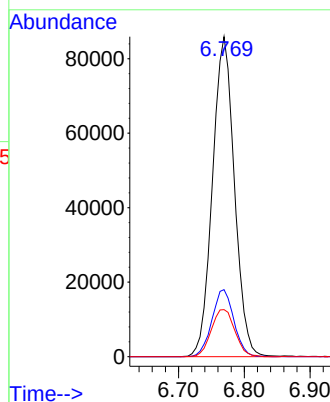
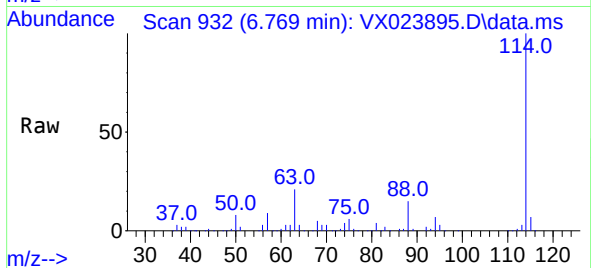


#28

1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.769 min Scan# 932
Delta R.T. 0.000 min
Lab File: VX023895.D
Acq: 20 Aug 2021 22:16

Instrument :
MSVOA_X
ClientSampleId :
210818092-02-VOA

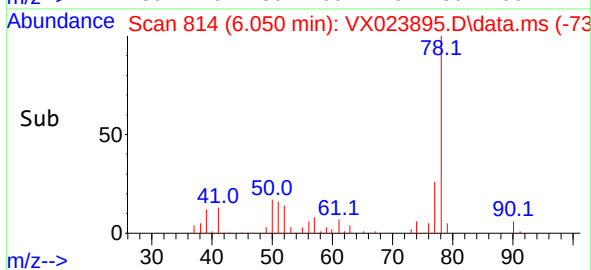
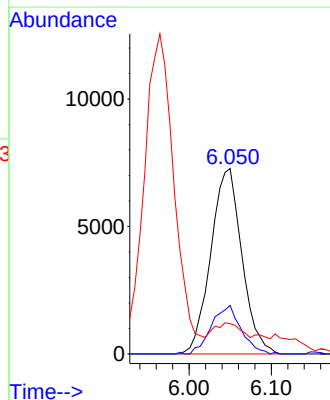
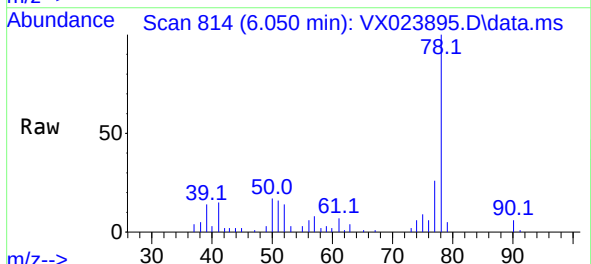
Tgt Ion:114 Resp: 199529
Ion Ratio Lower Upper
114 100
63 20.9 16.4 24.6
88 15.8 12.7 19.1

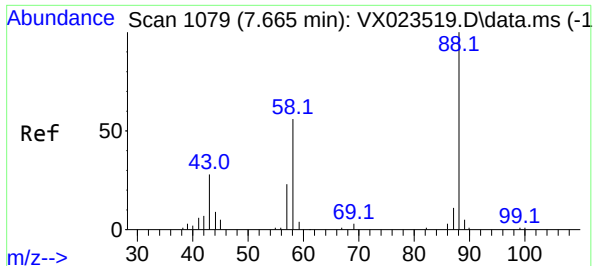


#34

Benzene
Concen: 2.045 ug/l
RT: 6.050 min Scan# 814
Delta R.T. 0.006 min
Lab File: VX023895.D
Acq: 20 Aug 2021 22:16

Tgt Ion: 78 Resp: 19157
Ion Ratio Lower Upper
78 100
77 26.1 19.3 28.9
51 7.6 12.2 18.4#

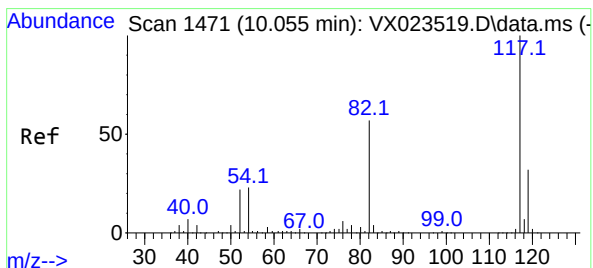
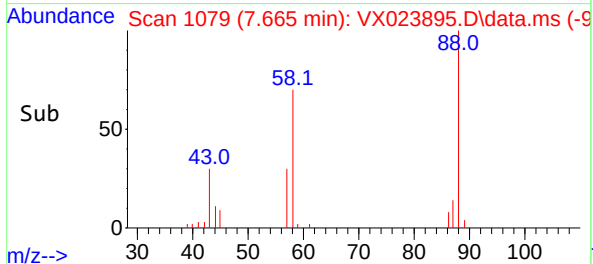
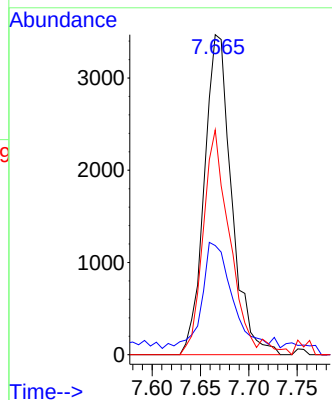
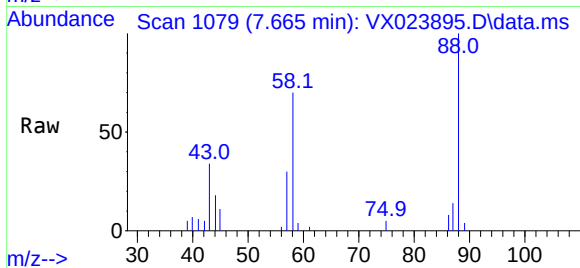




#45
1,4-Dioxane
Concen: 107.027 ug/l
RT: 7.665 min Scan# 1079
Delta R.T. 0.000 min
Lab File: VX023895.D
Acq: 20 Aug 2021 22:16

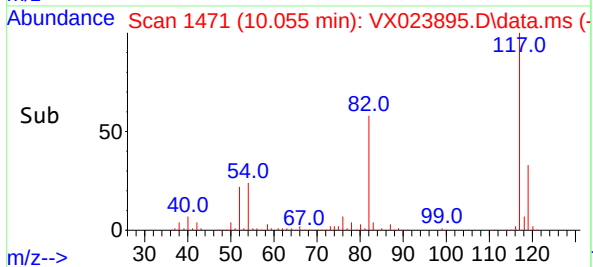
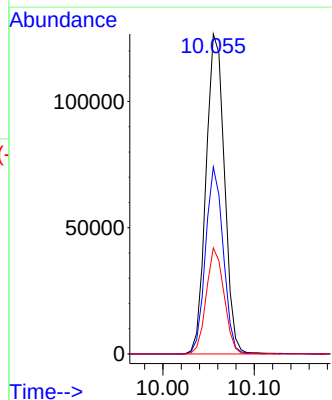
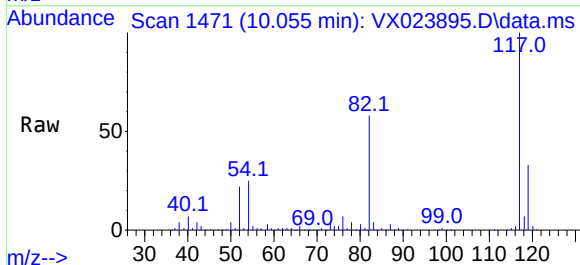
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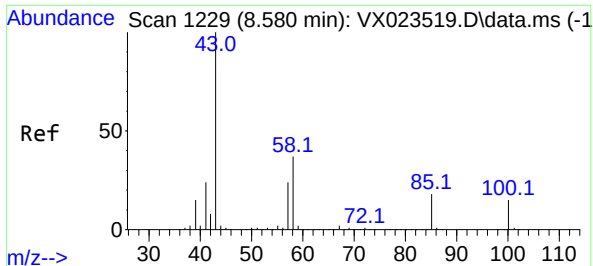
Tgt Ion:	88	Resp:	6832
Ion	Ratio	Lower	Upper
88	100		
43	36.2	25.3	37.9
58	66.9	53.1	79.7



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX023895.D
Acq: 20 Aug 2021 22:16

Tgt Ion:	117	Resp:	177111
Ion	Ratio	Lower	Upper
117	100		
82	56.2	45.0	67.4
119	32.0	26.2	39.2

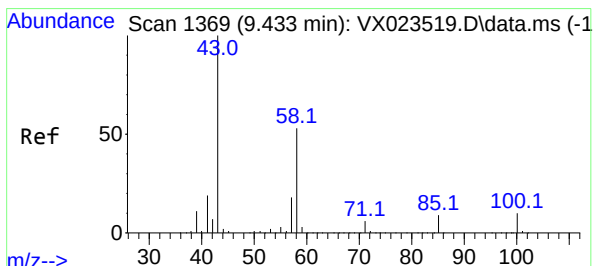
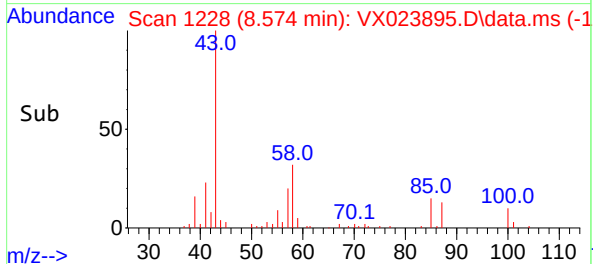
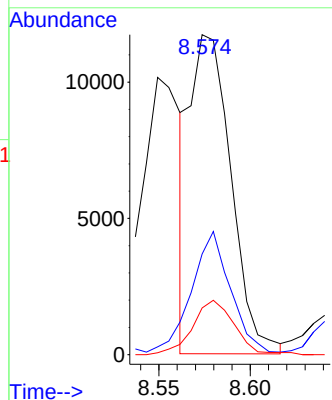
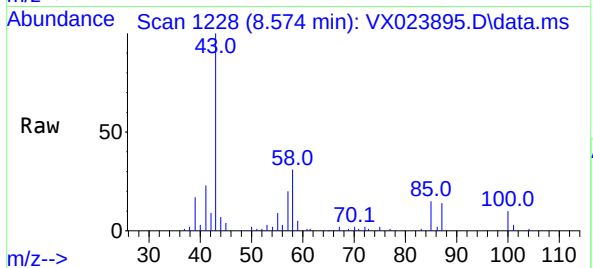




#58
4-Methyl-2-Pentanone
Concen: 4.770 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. -0.006 min
Lab File: VX023895.D
Acq: 20 Aug 2021 22:16

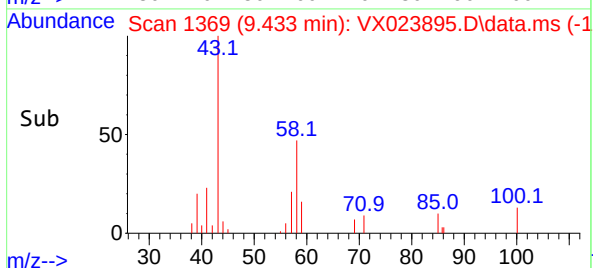
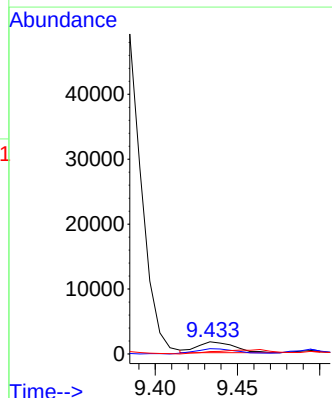
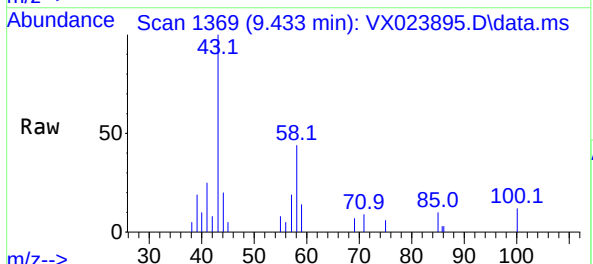
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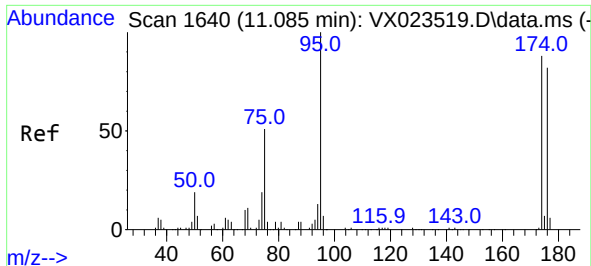
Tgt Ion: 43 Resp: 18214
Ion Ratio Lower Upper
43 100
58 38.4 30.5 45.7
85 17.2 14.0 21.0



#59
2-Hexanone
Concen: 0.863 ug/l
RT: 9.433 min Scan# 1369
Delta R.T. 0.000 min
Lab File: VX023895.D
Acq: 20 Aug 2021 22:16

Tgt Ion: 43 Resp: 2560
Ion Ratio Lower Upper
43 100
58 57.1 42.1 63.1
57 39.6 14.9 22.3#

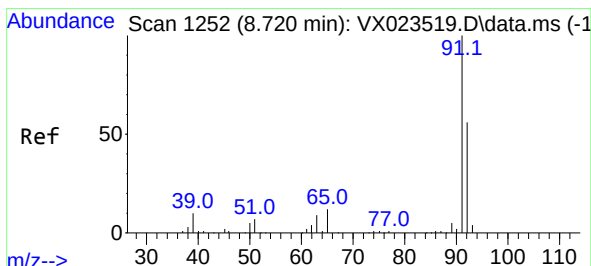
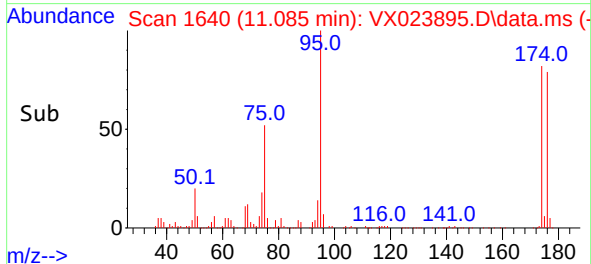
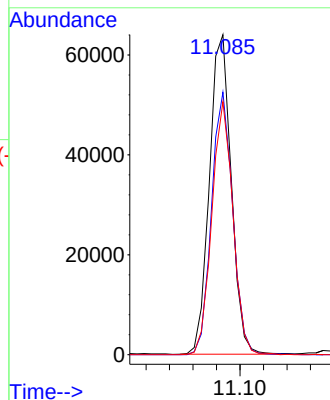
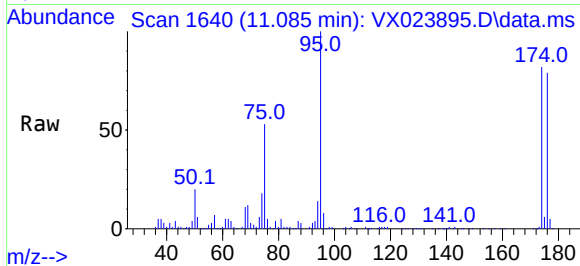




#60
4-Bromofluorobenzene
Concen: 28.367 ug/l
RT: 11.085 min Scan# 1640
Delta R.T. 0.000 min
Lab File: VX023895.D
Acq: 20 Aug 2021 22:16

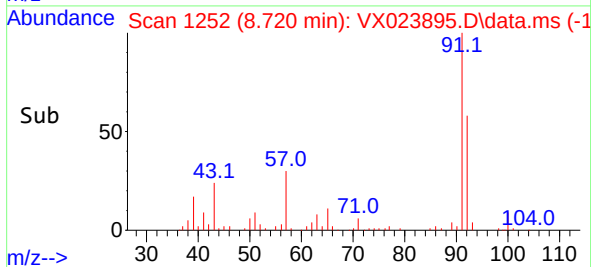
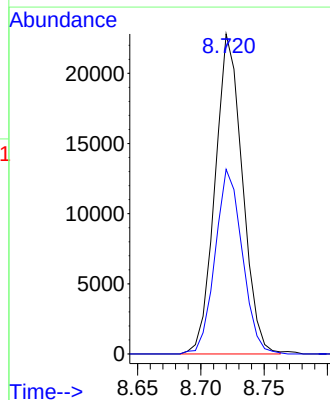
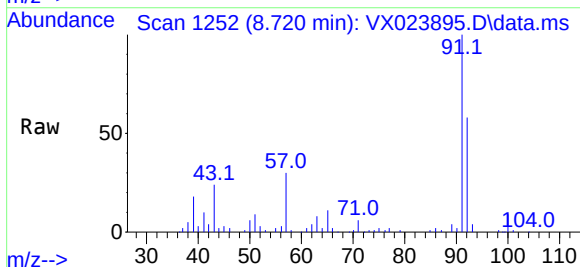
Instrument :
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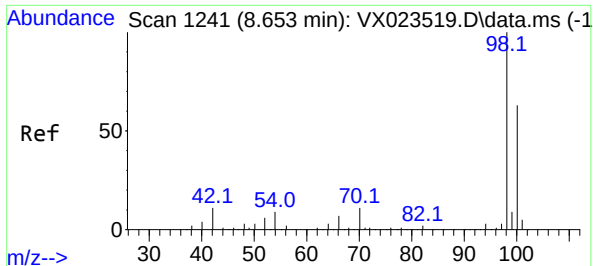
Tgt Ion:	95	Resp:	82291
Ion	Ratio	Lower	Upper
95	100		
174	79.7	63.5	95.3
176	76.3	63.0	94.4



#62
Toluene
Concen: 3.429 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX023895.D
Acq: 20 Aug 2021 22:16

Tgt Ion:	91	Resp:	34265
Ion	Ratio	Lower	Upper
91	100		
92	57.3	46.5	69.7

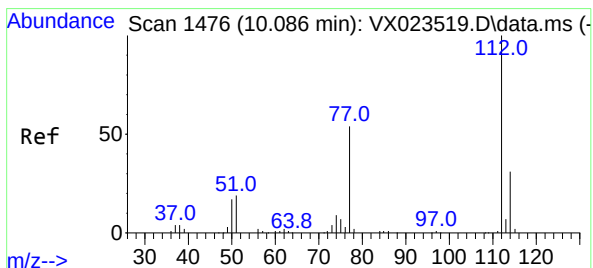
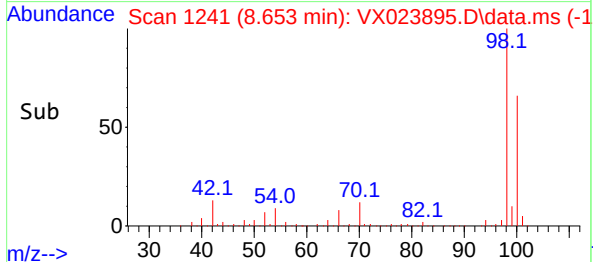
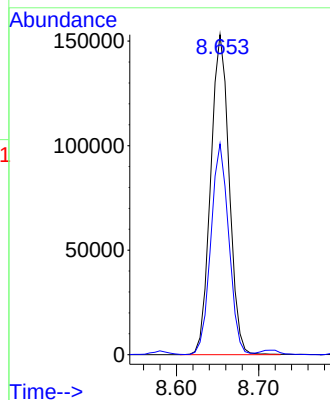
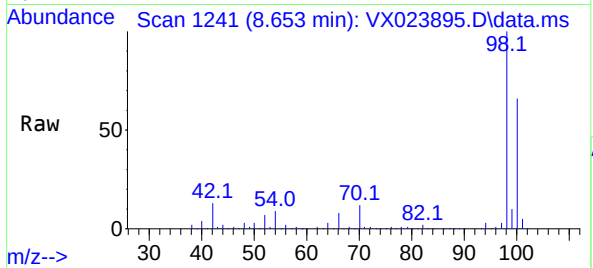




#63
Toluene-d8
Concen: 29.975 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.000 min
Lab File: VX023895.D
Acq: 20 Aug 2021 22:16

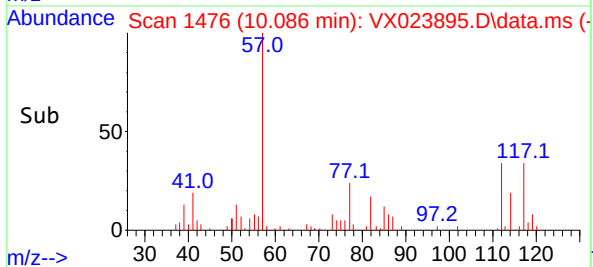
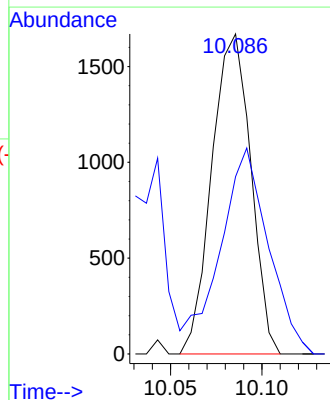
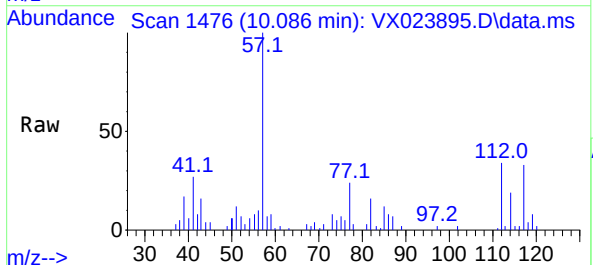
Instrument :
MSVOA_X
ClientSampleId :
210818092-02-VOA

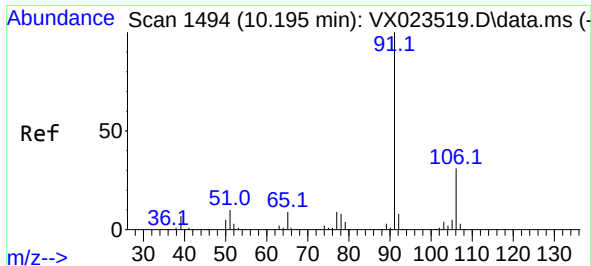
Tgt Ion: 98 Resp: 238930
Ion Ratio Lower Upper
98 100
100 63.9 51.4 77.0



#64
Chlorobenzene
Concen: 0.392 ug/l
RT: 10.086 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VX023895.D
Acq: 20 Aug 2021 22:16

Tgt Ion: 112 Resp: 2479
Ion Ratio Lower Upper
112 100
114 48.1 26.0 39.0#

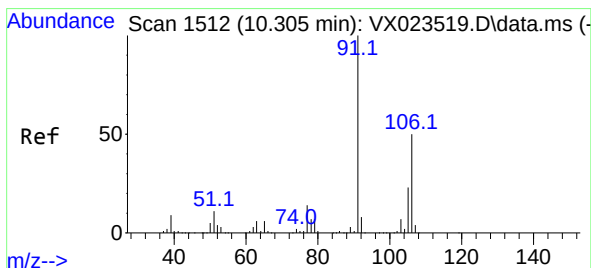
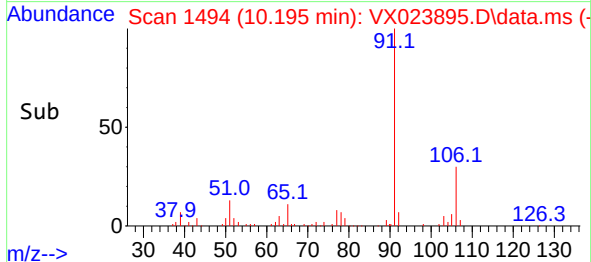
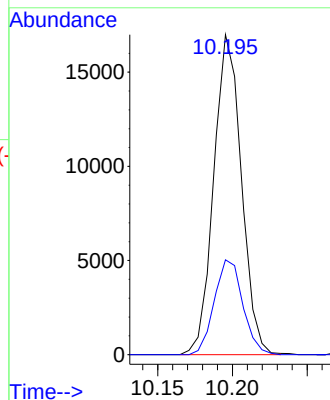
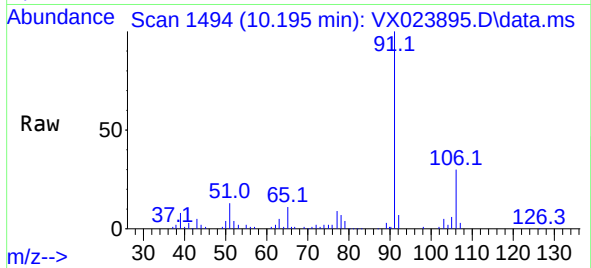




#66
Ethyl Benzene
Concen: 1.976 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.000 min
Lab File: VX023895.D
Acq: 20 Aug 2021 22:16

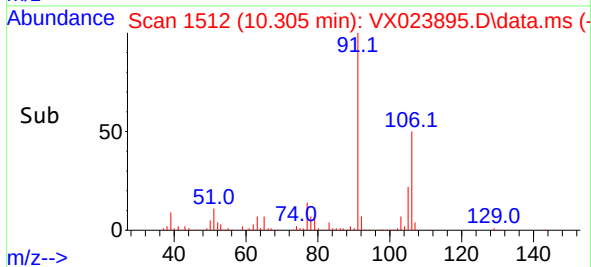
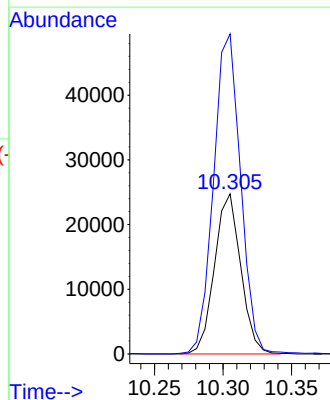
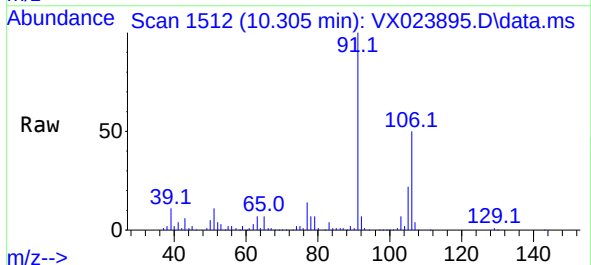
Instrument :
MSVOA_X
ClientSampleId :
210818092-02-VOA

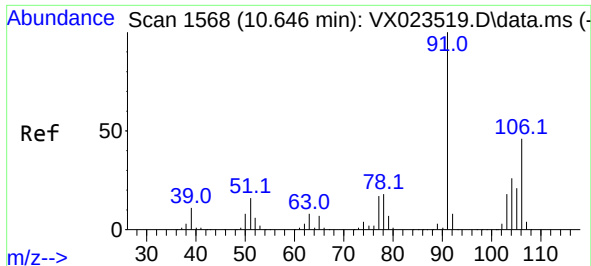
Tgt Ion: 91 Resp: 21844
Ion Ratio Lower Upper
91 100
106 29.6 24.7 37.1



#67
m/p-Xylenes
Concen: 7.706 ug/l
RT: 10.305 min Scan# 1512
Delta R.T. 0.000 min
Lab File: VX023895.D
Acq: 20 Aug 2021 22:16

Tgt Ion: 106 Resp: 32951
Ion Ratio Lower Upper
106 100
91 205.5 162.4 243.6

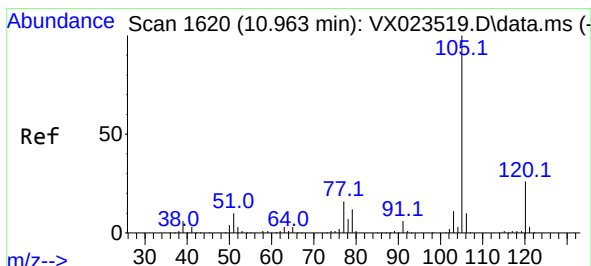
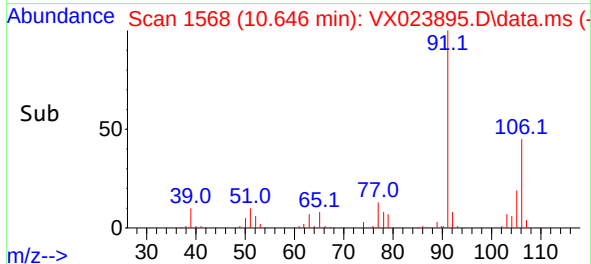
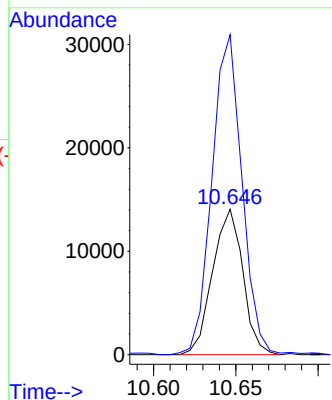
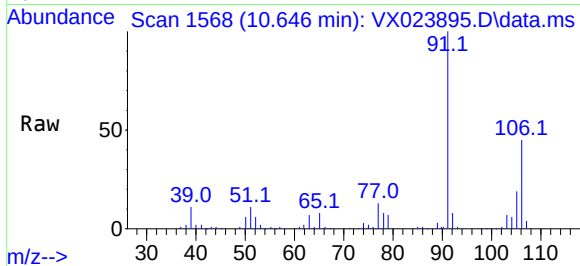




#68
o-Xylene
Concen: 4.269 ug/l
RT: 10.646 min Scan# 1568
Delta R.T. 0.000 min
Lab File: VX023895.D
Acq: 20 Aug 2021 22:16

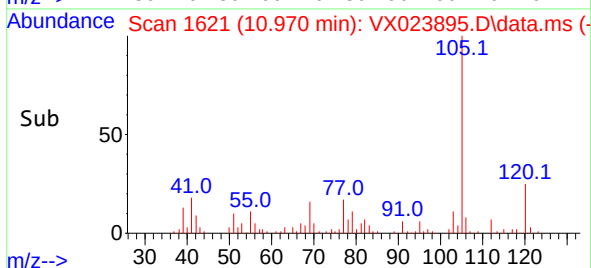
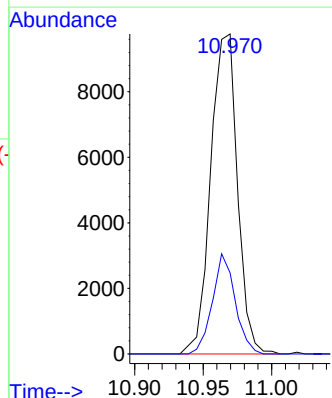
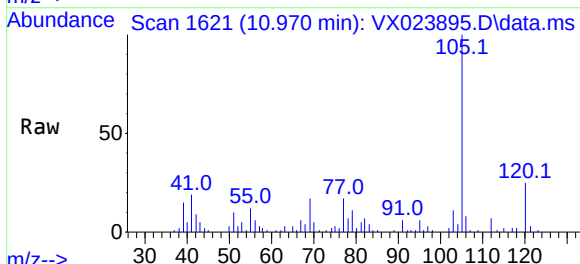
Instrument :
MSVOA_X
ClientSampleId :
210818092-02-VOA

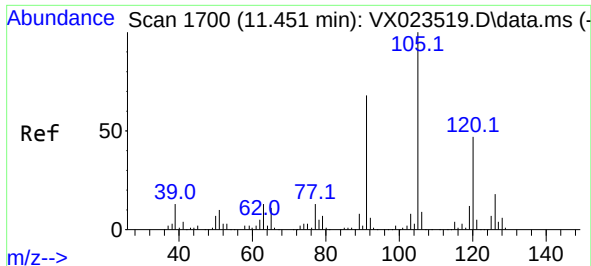
Tgt Ion:106 Resp: 17998
Ion Ratio Lower Upper
106 100
91 218.0 107.3 321.8



#70
Isopropylbenzene
Concen: 1.194 ug/l
RT: 10.970 min Scan# 1621
Delta R.T. 0.006 min
Lab File: VX023895.D
Acq: 20 Aug 2021 22:16

Tgt Ion:105 Resp: 13231
Ion Ratio Lower Upper
105 100
120 26.6 18.7 34.7

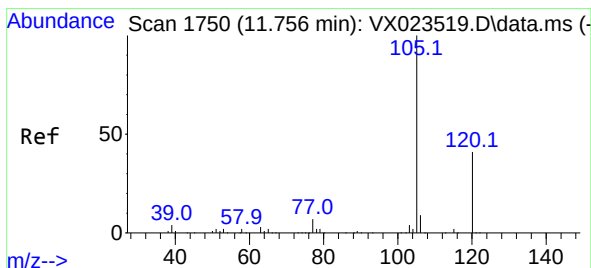
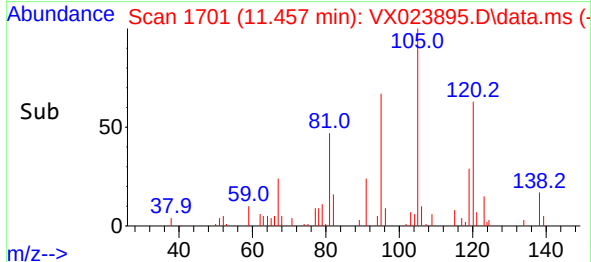
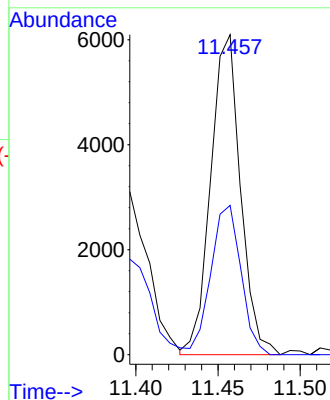
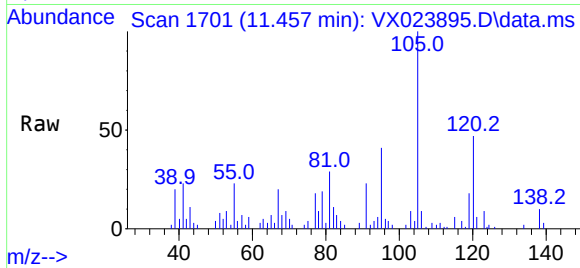




#76
1,3,5-Trimethylbenzene
Concen: 0.837 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX023895.D
Acq: 20 Aug 2021 22:16

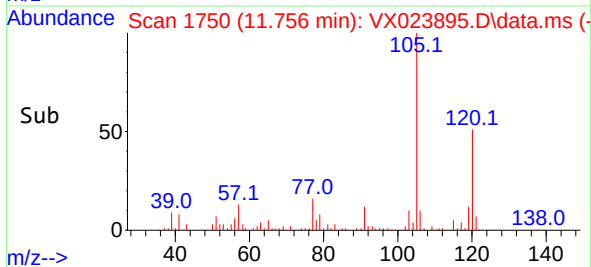
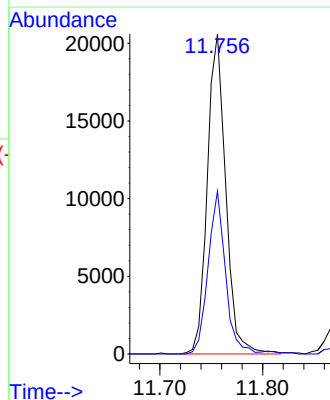
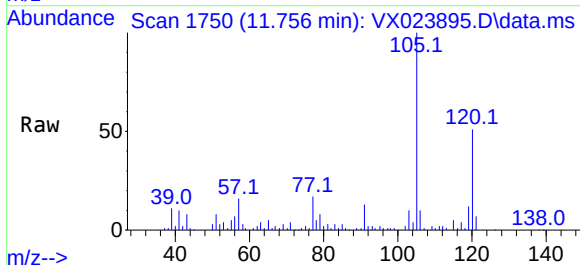
Instrument :
MSVOA_X
ClientSampleId :
210818092-02-VOA

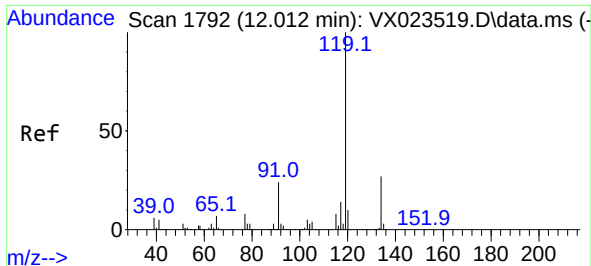
Tgt Ion:105 Resp: 7697
Ion Ratio Lower Upper
105 100
120 46.8 0.0 98.0



#80
1,2,4-Trimethylbenzene
Concen: 2.819 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. 0.000 min
Lab File: VX023895.D
Acq: 20 Aug 2021 22:16

Tgt Ion:105 Resp: 25680
Ion Ratio Lower Upper
105 100
120 47.7 0.0 90.4

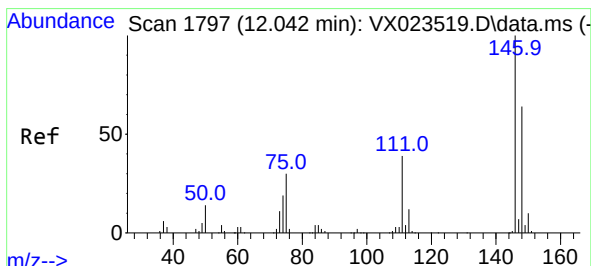
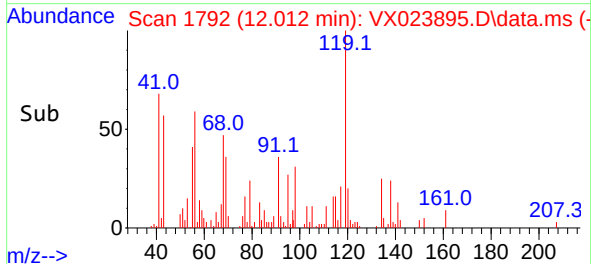
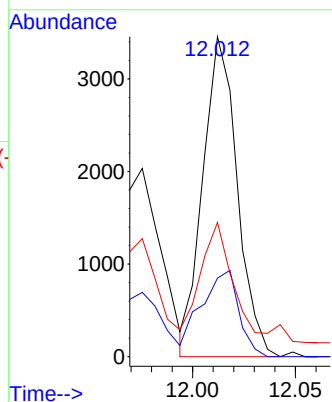
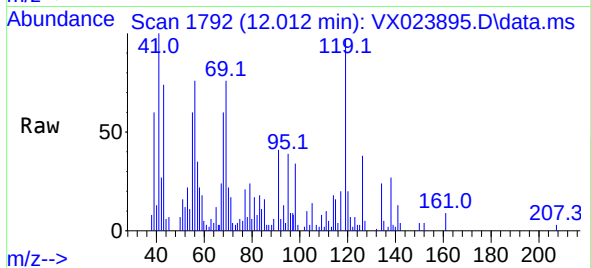




#82
p-Isopropyltoluene
Concen: 0.428 ug/l
RT: 12.012 min Scan# 1792
Delta R.T. 0.000 min
Lab File: VX023895.D
Acq: 20 Aug 2021 22:16

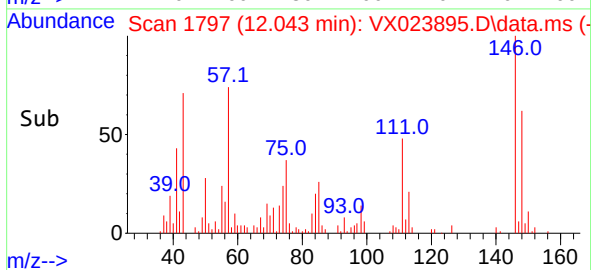
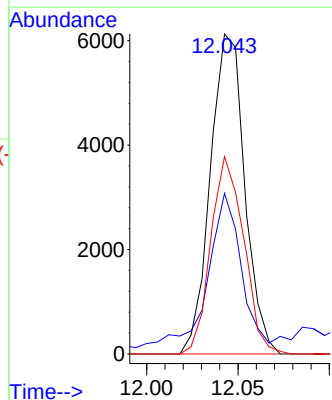
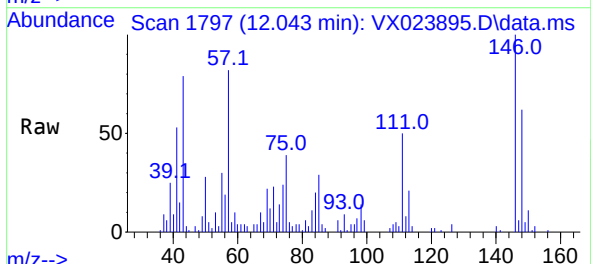
Instrument :
MSVOA_X
ClientSampleId :
210818092-02-VOA

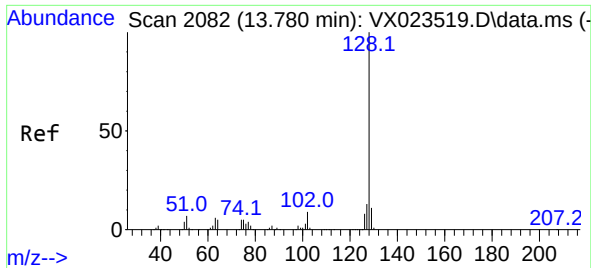
Tgt Ion:	119	Resp:	4021
Ion	Ratio	Lower	Upper
119	100		
134	29.4	0.0	52.8
91	31.6	0.0	48.6



#84
1,4-Dichlorobenzene
Concen: 1.661 ug/l
RT: 12.043 min Scan# 1797
Delta R.T. 0.000 min
Lab File: VX023895.D
Acq: 20 Aug 2021 22:16

Tgt Ion:	146	Resp:	8027
Ion	Ratio	Lower	Upper
146	100		
111	40.5	18.9	56.9
148	59.1	31.4	94.2





#91
Naphthalene
Concen: 10.658 ug/l
RT: 13.780 min Scan# 2082
Delta R.T. 0.000 min
Lab File: VX023895.D
Acq: 20 Aug 2021 22:16

Instrument :
MSVOA_X
ClientSampleId :
210818092-02-VOA

Tgt Ion:128 Resp: 106813
Ion Ratio Lower Upper
128 100
127 13.4 10.1 15.1
129 11.0 8.6 12.8

