

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011422\
 Data File : VX026449.D
 Acq On : 14 Jan 2022 12:38
 Operator : JC/MD
 Sample : N1123-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 220112013-02-VOA

Quant Time: Jan 17 05:57:00 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X011022W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jan 10 12:50:55 2022
 Response via : Initial Calibration

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

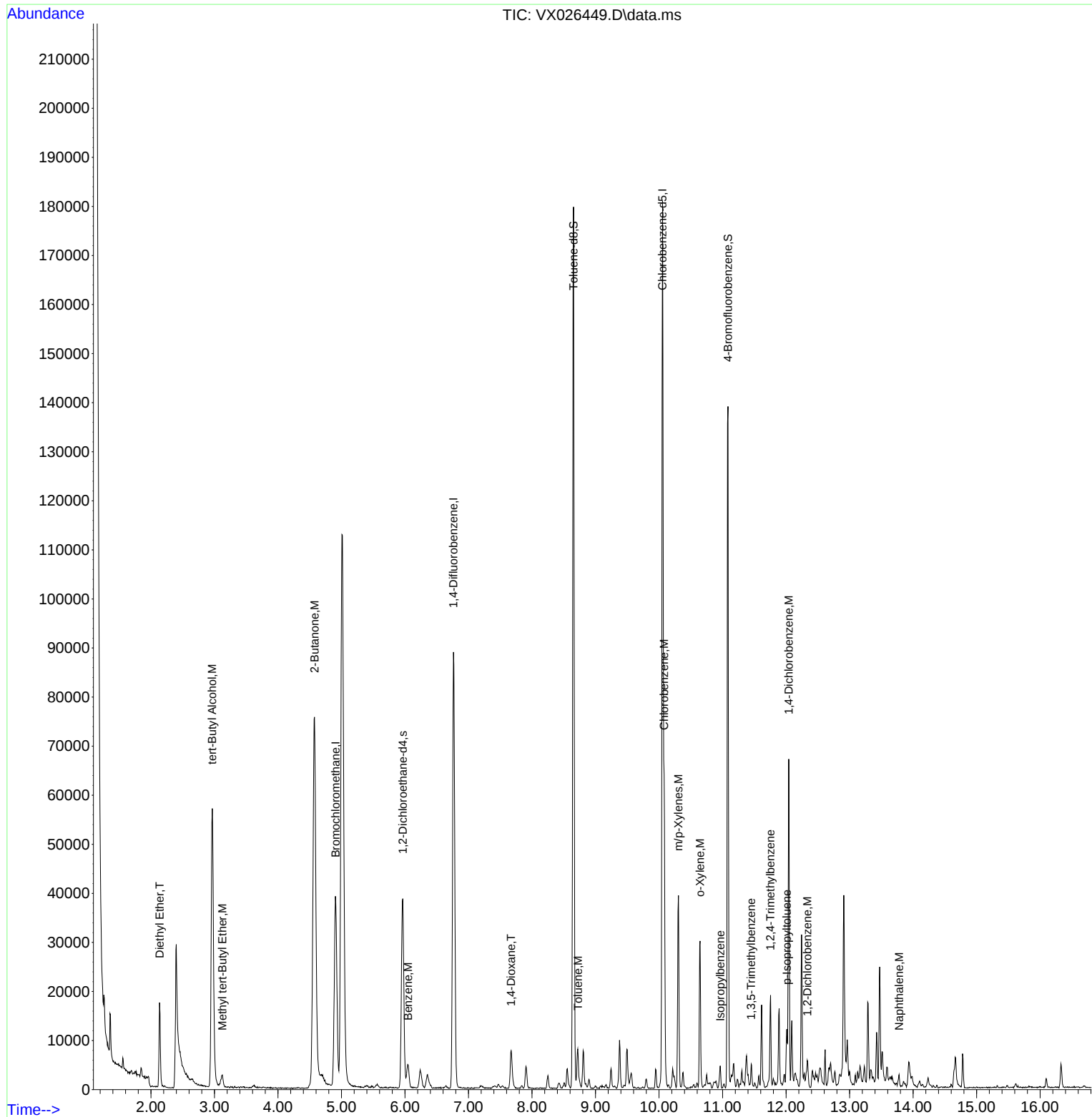
Internal Standards						
1) Bromochloromethane	4.910	128	16170	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	89664	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	77148	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	39059	30.040	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	100.133%
60) 4-Bromofluorobenzene	11.085	95	38744	30.092	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	100.300%
63) Toluene-d8	8.653	98	103815	29.292	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.633%
Target Compounds						
					Qvalue	
8) Diethyl Ether	2.136	74	5748	10.806	ug/l	96
23) tert-Butyl Alcohol	2.965	59	74537	404.582	ug/l #	100
24) Methyl tert-Butyl Ether	3.123	73	2390	0.739	ug/l #	85
30) 2-Butanone	4.574	43	5753	7.153	ug/l #	72
34) Benzene	6.050	78	5637	1.468	ug/l #	93
45) 1,4-Dioxane	7.671	88	6330	338.389	ug/l	97
62) Toluene	8.726	91	3333	0.809	ug/l	98
64) Chlorobenzene	10.079	112	24467	9.785	ug/l	96
67) m/p-Xylenes	10.305	106	8322	4.860	ug/l	97
68) o-Xylene	10.646	106	6067	3.653	ug/l	89
70) Isopropylbenzene	10.963	105	1847	0.415	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	1838	0.494	ug/l	99
80) 1,2,4-Trimethylbenzene	11.756	105	7759	2.111	ug/l	97
82) p-Isopropyltoluene	12.012	119	2895	0.759	ug/l	94
84) 1,4-Dichlorobenzene	12.042	146	19601	10.306	ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	1308	0.717	ug/l	94
91) Naphthalene	13.780	128	1261	0.306	ug/l #	95

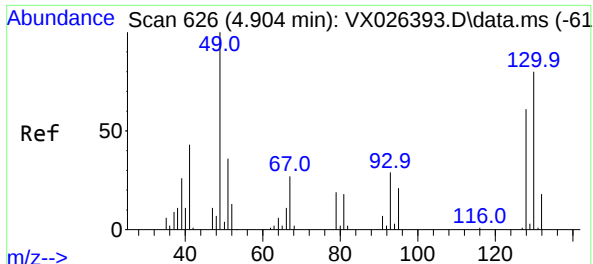
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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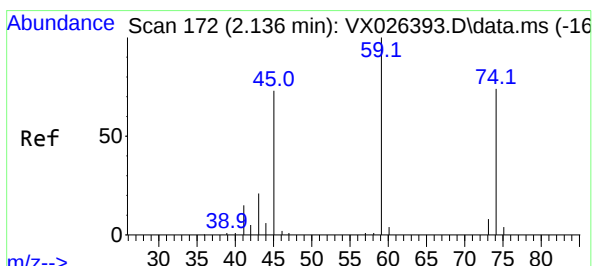
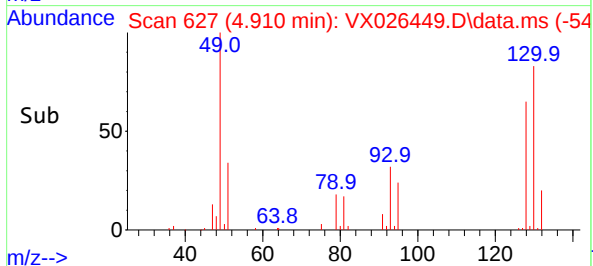
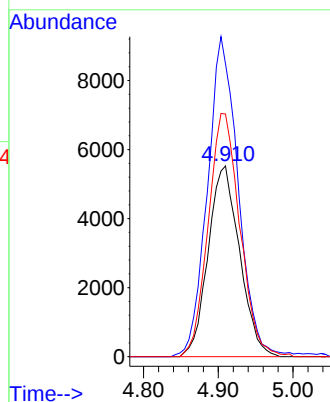
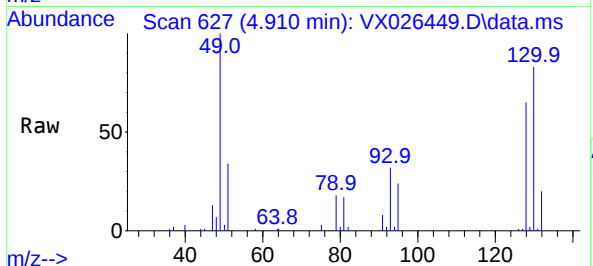




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.910 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX026449.D
Acq: 14 Jan 2022 12:38

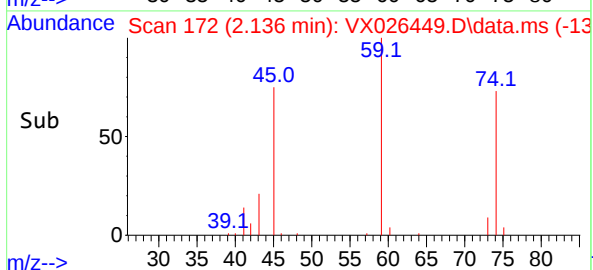
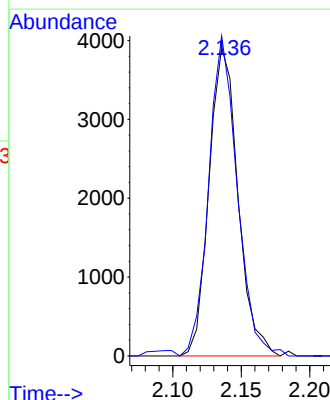
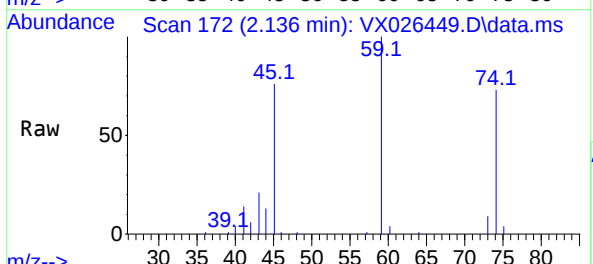
Instrument :
MSVOA_X
ClientSampleId :
220112013-02-VOA

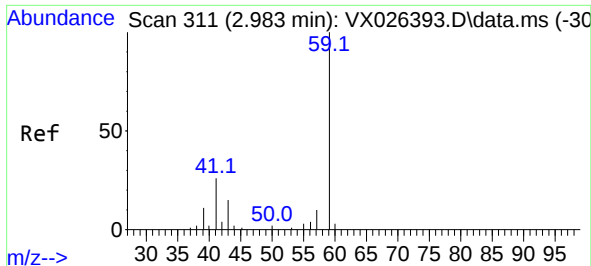
Tgt Ion:128 Resp: 16170
Ion Ratio Lower Upper
128 100
49 163.1 0.0 413.5
130 128.4 0.0 326.0



#8
Diethyl Ether
Concen: 10.806 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX026449.D
Acq: 14 Jan 2022 12:38

Tgt Ion: 74 Resp: 5748
Ion Ratio Lower Upper
74 100
45 101.9 19.5 175.5

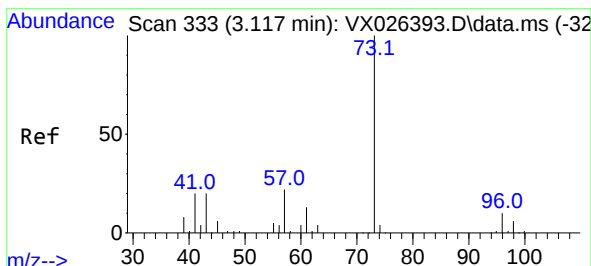
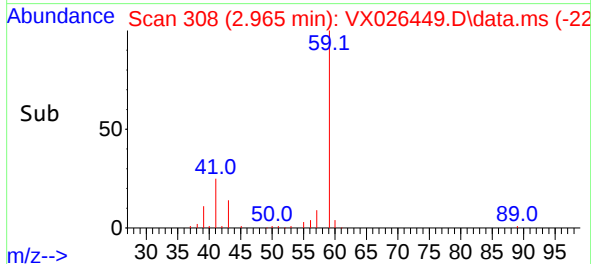
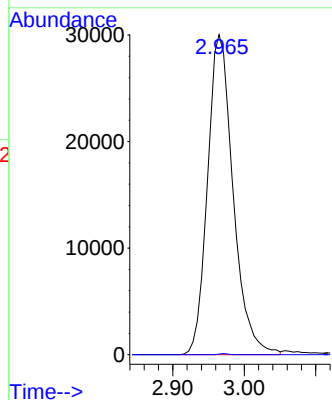
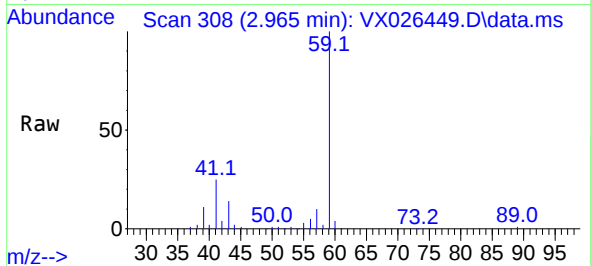




#23
tert-Butyl Alcohol
Concen: 404.582 ug/l
RT: 2.965 min Scan# 30
Delta R.T. -0.018 min
Lab File: VX026449.D
Acq: 14 Jan 2022 12:38

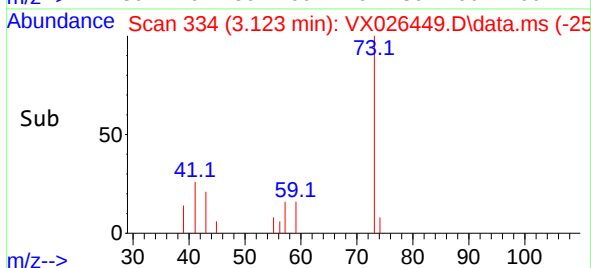
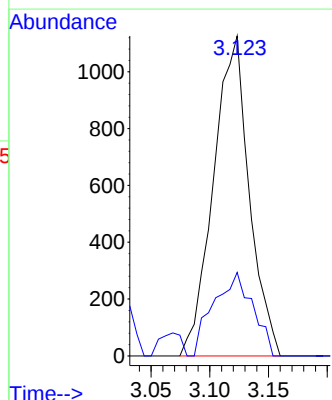
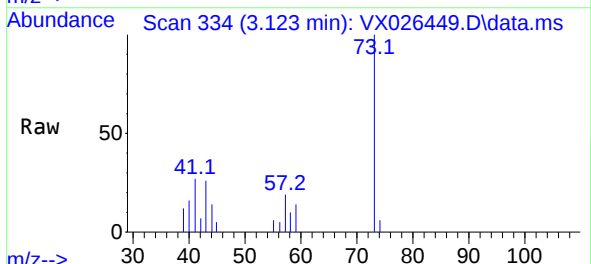
Instrument :
MSVOA_X
ClientSampleId :
220112013-02-VOA

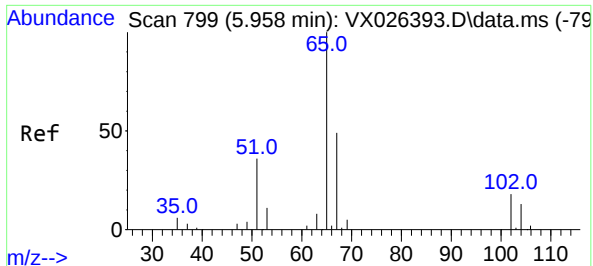
Tgt Ion: 59 Resp: 74537
Ion Ratio Lower Upper
59 100
52 0.1 0.0 0.0#



#24
Methyl tert-Butyl Ether
Concen: 0.739 ug/l
RT: 3.123 min Scan# 334
Delta R.T. 0.006 min
Lab File: VX026449.D
Acq: 14 Jan 2022 12:38

Tgt Ion: 73 Resp: 2390
Ion Ratio Lower Upper
73 100
43 28.4 17.1 25.7#

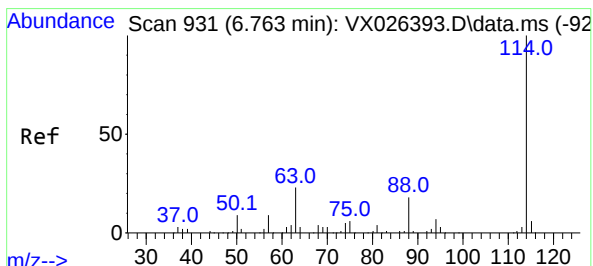
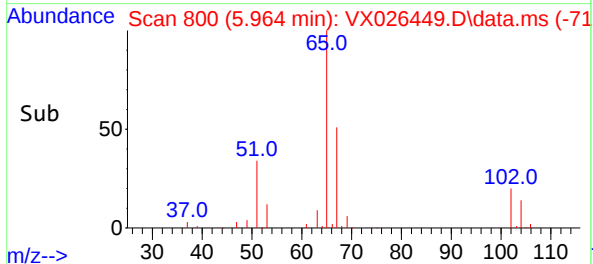
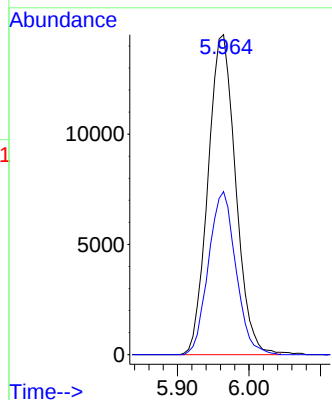
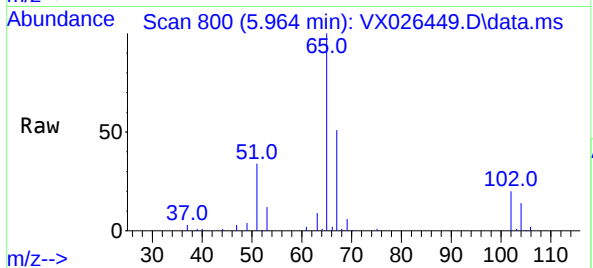




#27
1,2-Dichloroethane-d4
Concen: 30.040 ug/l
RT: 5.964 min Scan# 800
Delta R.T. 0.006 min
Lab File: VX026449.D
Acq: 14 Jan 2022 12:38

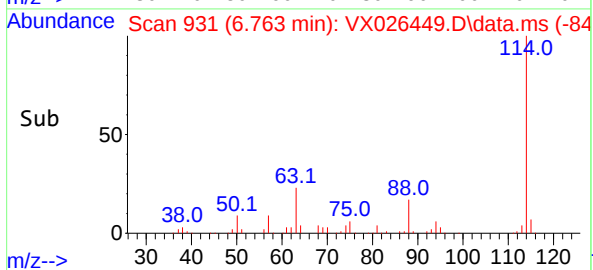
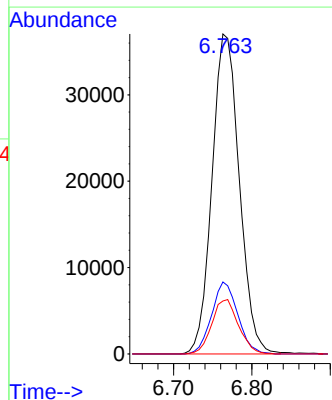
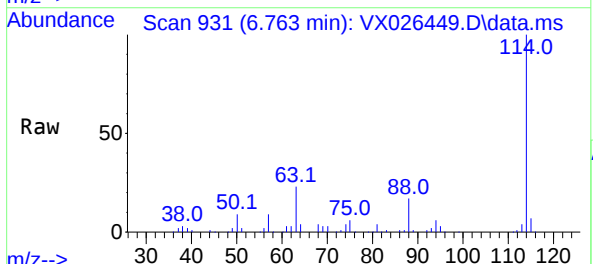
Instrument :
MSVOA_X
ClientSampleId :
220112013-02-VOA

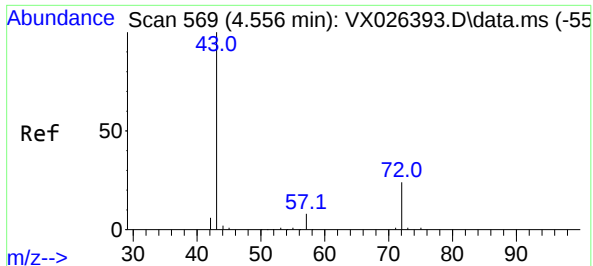
Tgt Ion: 65 Resp: 39059
Ion Ratio Lower Upper
65 100
67 50.4 39.6 59.4



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.763 min Scan# 931
Delta R.T. -0.000 min
Lab File: VX026449.D
Acq: 14 Jan 2022 12:38

Tgt Ion: 114 Resp: 89664
Ion Ratio Lower Upper
114 100
63 21.6 17.4 26.2
88 16.6 13.5 20.3





#30

2-Butanone

Concen: 7.153 ug/l

RT: 4.574 min Scan# 51

Delta R.T. 0.018 min

Lab File: VX026449.D

Acq: 14 Jan 2022 12:38

Instrument :

MSVOA_X

ClientSampleId :

220112013-02-VOA

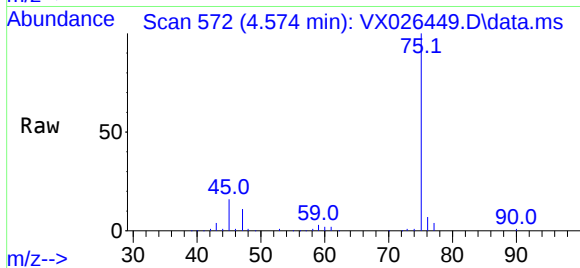
Tgt Ion: 43 Resp: 5753

Ion Ratio Lower Upper

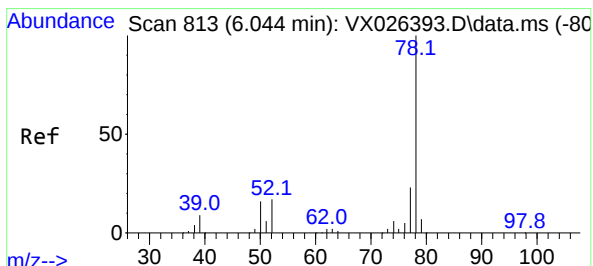
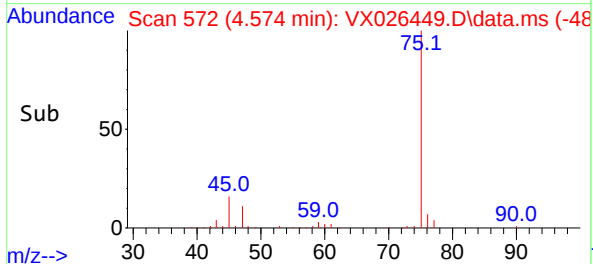
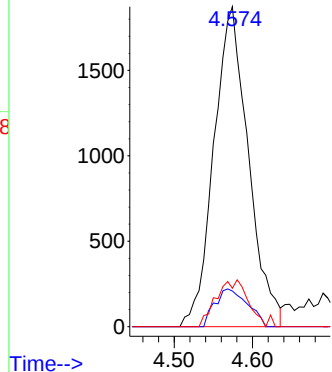
43 100

57 11.1 6.3 9.5#

72 7.6 19.8 29.6#



Abundance



#34

Benzene

Concen: 1.468 ug/l

RT: 6.050 min Scan# 814

Delta R.T. 0.006 min

Lab File: VX026449.D

Acq: 14 Jan 2022 12:38

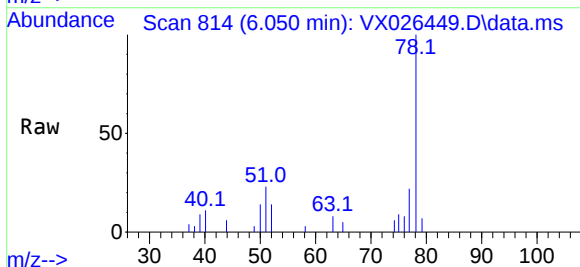
Tgt Ion: 78 Resp: 5637

Ion Ratio Lower Upper

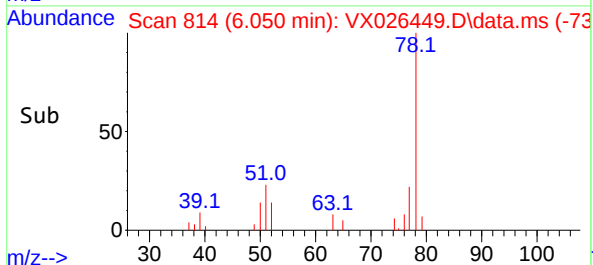
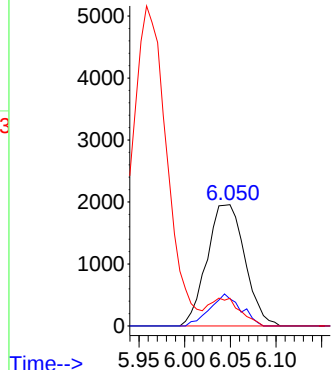
78 100

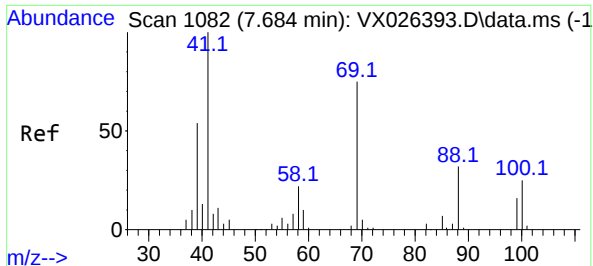
77 22.3 18.7 28.1

51 22.8 13.5 20.3#



Abundance



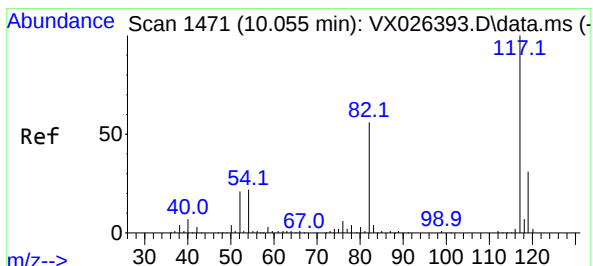
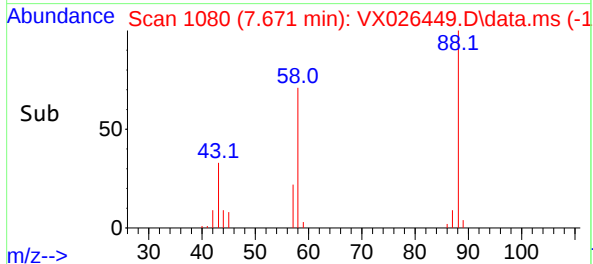
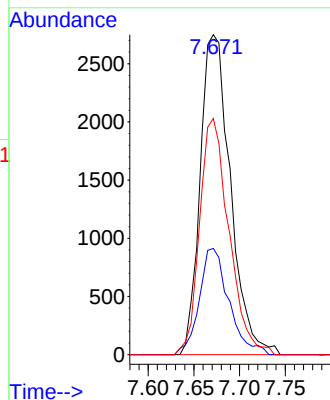
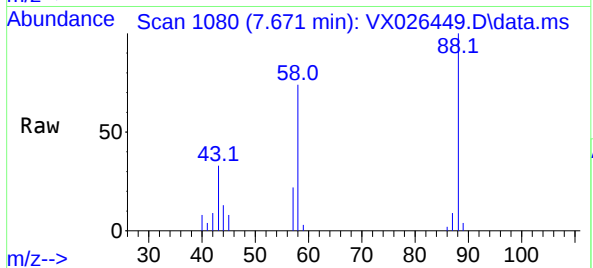


#45
1,4-Dioxane
Concen: 338.389 ug/l
RT: 7.671 min Scan# 1080
Delta R.T. -0.012 min
Lab File: VX026449.D
Acq: 14 Jan 2022 12:38

Instrument :
MSVOA_X
ClientSampleId :
220112013-02-VOA

Tgt Ion: 88 Resp: 6330

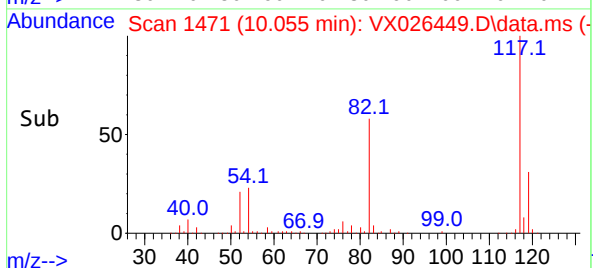
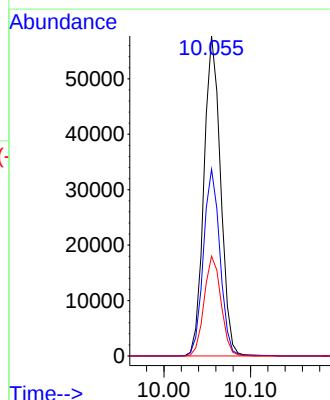
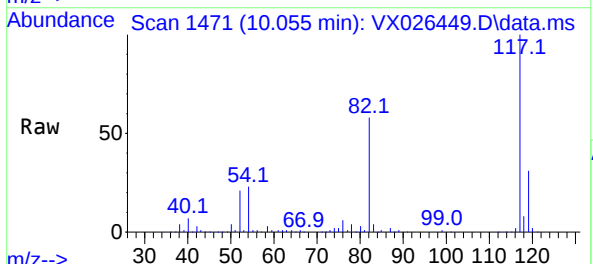
Ion	Ratio	Lower	Upper
88	100		
43	32.5	29.0	43.6
58	71.0	56.2	84.4

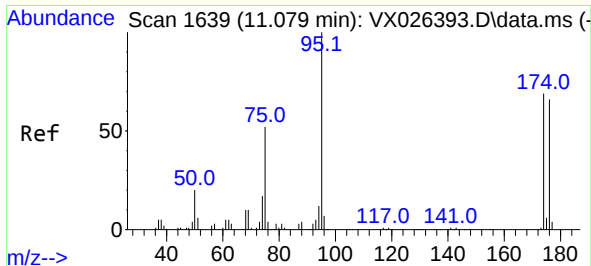


#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX026449.D
Acq: 14 Jan 2022 12:38

Tgt Ion: 117 Resp: 77148

Ion	Ratio	Lower	Upper
117	100		
82	57.9	46.2	69.4
119	31.5	25.4	38.2

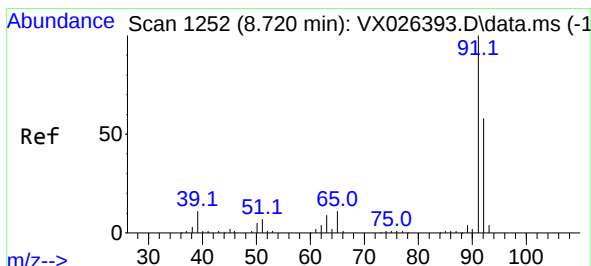
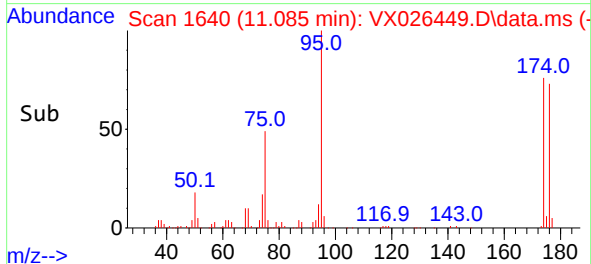
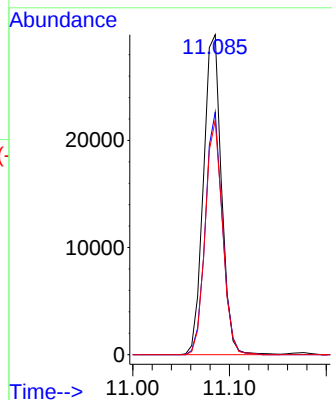
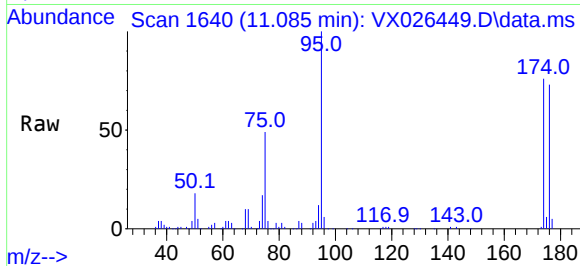




#60
4-Bromofluorobenzene
Concen: 30.092 ug/l
RT: 11.085 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX026449.D
Acq: 14 Jan 2022 12:38

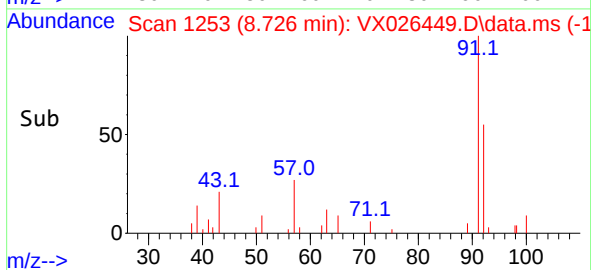
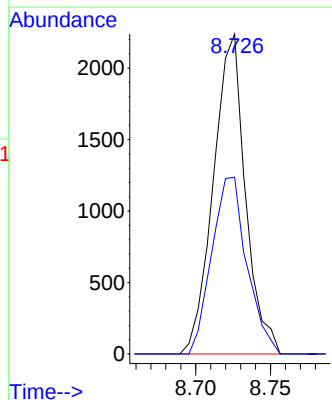
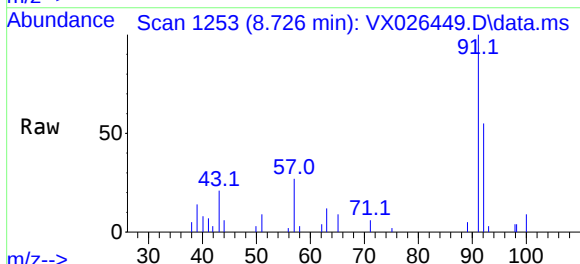
Instrument :
MSVOA_X
ClientSampleId :
220112013-02-VOA

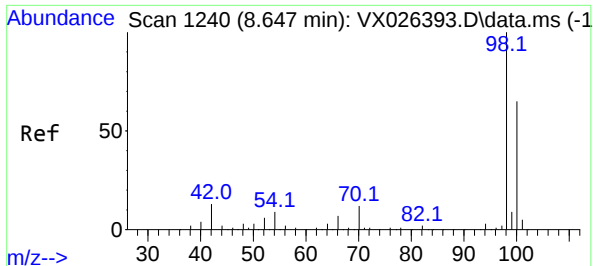
Tgt Ion: 95 Resp: 38744
Ion Ratio Lower Upper
95 100
174 71.8 58.0 87.0
176 70.0 56.5 84.7



#62
Toluene
Concen: 0.809 ug/l
RT: 8.726 min Scan# 1253
Delta R.T. 0.006 min
Lab File: VX026449.D
Acq: 14 Jan 2022 12:38

Tgt Ion: 91 Resp: 3333
Ion Ratio Lower Upper
91 100
92 60.5 47.2 70.8

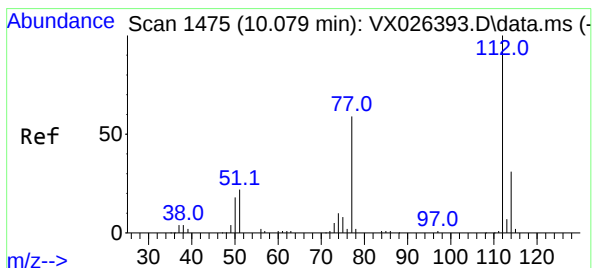
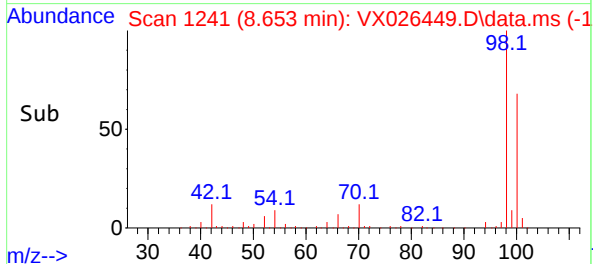
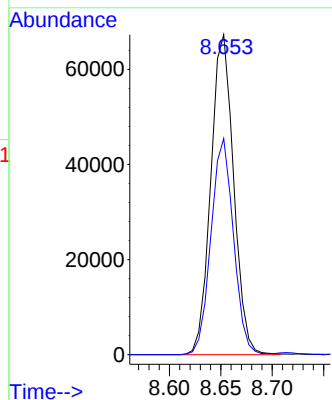
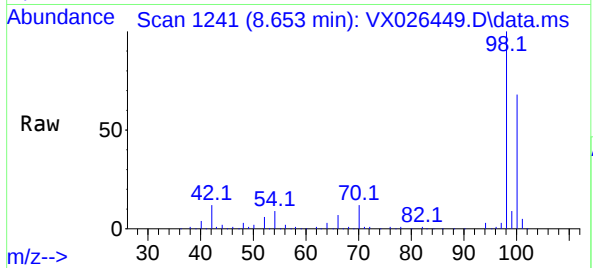




#63
Toluene-d8
Concen: 29.292 ug/l
RT: 8.653 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX026449.D
Acq: 14 Jan 2022 12:38

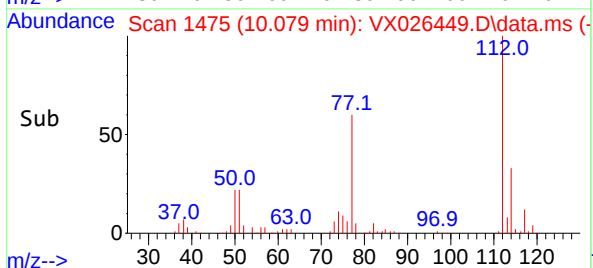
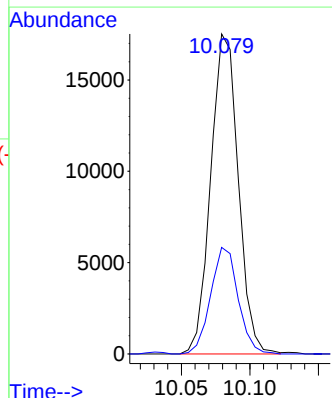
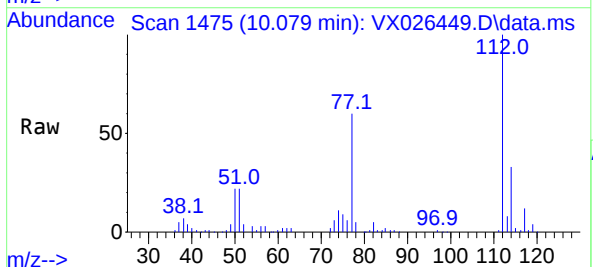
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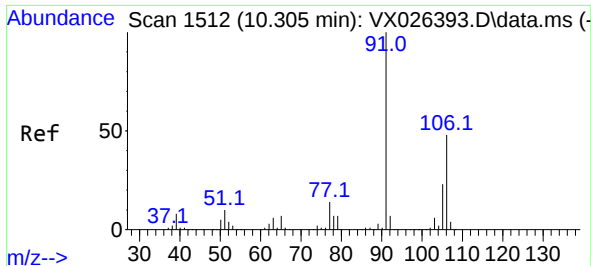
Tgt Ion: 98 Resp: 103815
Ion Ratio Lower Upper
98 100
100 66.4 52.5 78.7



#64
Chlorobenzene
Concen: 9.785 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VX026449.D
Acq: 14 Jan 2022 12:38

Tgt Ion: 112 Resp: 24467
Ion Ratio Lower Upper
112 100
114 33.3 25.0 37.4

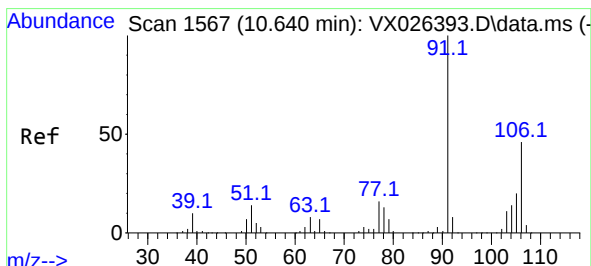
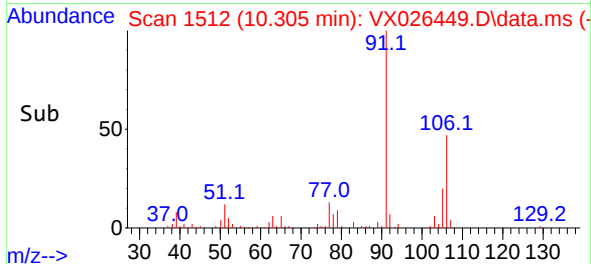
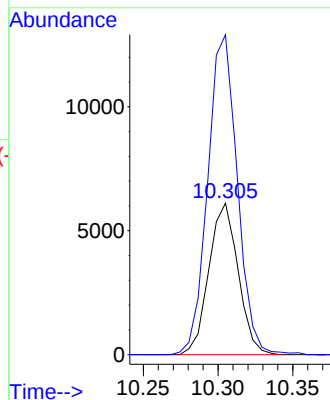
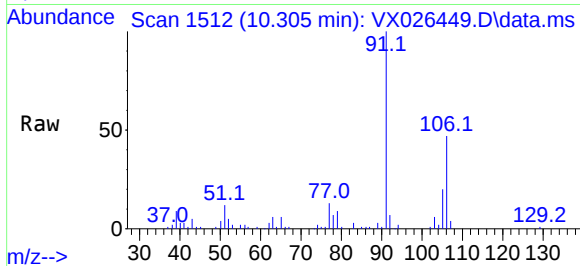




#67
m/p-Xylenes
Concen: 4.860 ug/l
RT: 10.305 min Scan# 1512
Delta R.T. -0.000 min
Lab File: VX026449.D
Acq: 14 Jan 2022 12:38

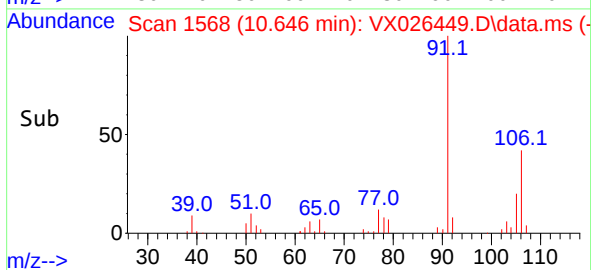
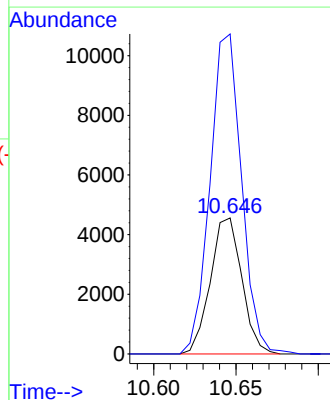
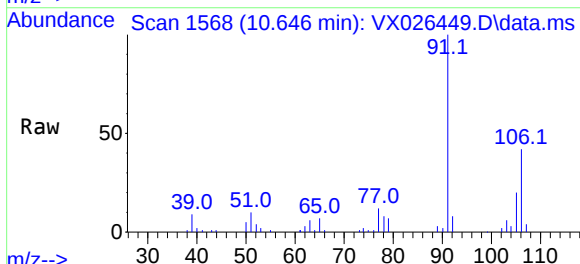
Instrument :
MSVOA_X
ClientSampleId :
220112013-02-VOA

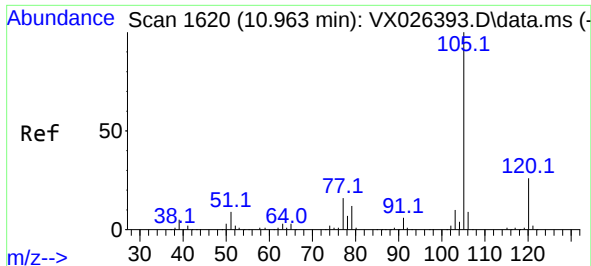
Tgt Ion:106 Resp: 8322
Ion Ratio Lower Upper
106 100
91 214.0 167.2 250.8



#68
o-Xylene
Concen: 3.653 ug/l
RT: 10.646 min Scan# 1568
Delta R.T. 0.006 min
Lab File: VX026449.D
Acq: 14 Jan 2022 12:38

Tgt Ion:106 Resp: 6067
Ion Ratio Lower Upper
106 100
91 234.9 108.7 326.3

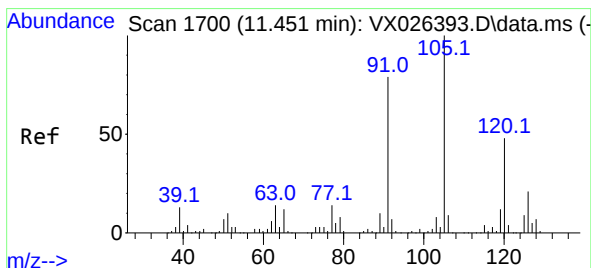
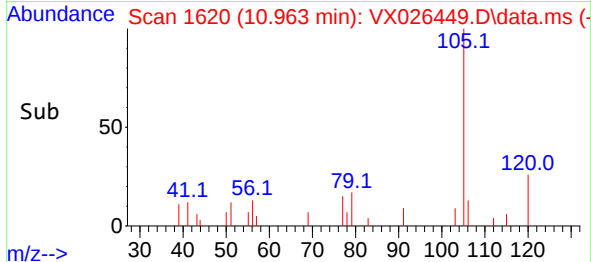
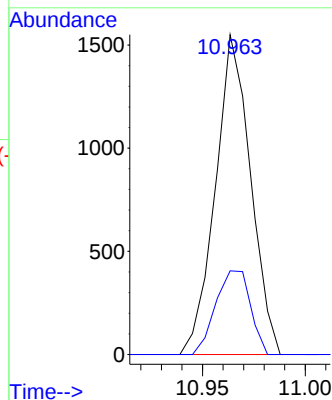
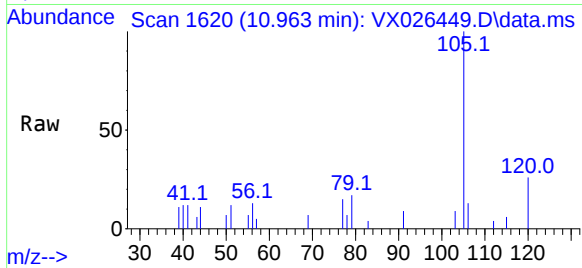




#70
Isopropylbenzene
Concen: 0.415 ug/l
RT: 10.963 min Scan# 1100
Delta R.T. -0.000 min
Lab File: VX026449.D
Acq: 14 Jan 2022 12:38

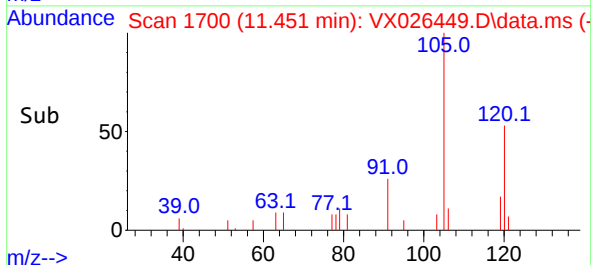
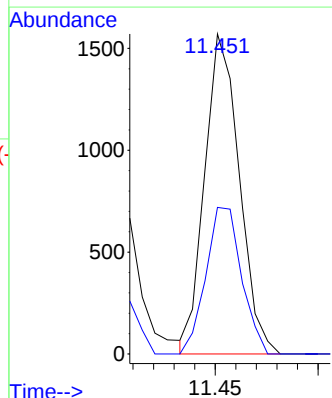
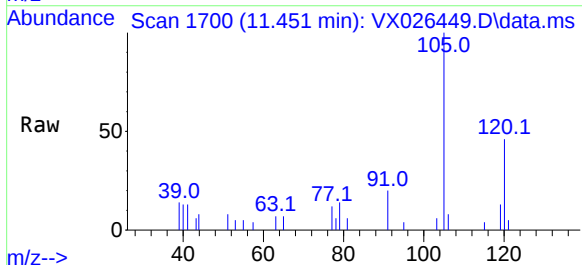
Instrument :
MSVOA_X
ClientSampleId :
220112013-02-VOA

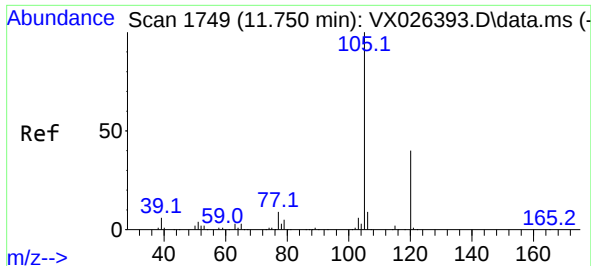
Tgt Ion:105 Resp: 1847
Ion Ratio Lower Upper
105 100
120 25.9 18.1 33.5



#76
1,3,5-Trimethylbenzene
Concen: 0.494 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX026449.D
Acq: 14 Jan 2022 12:38

Tgt Ion:105 Resp: 1838
Ion Ratio Lower Upper
105 100
120 47.3 0.0 95.6

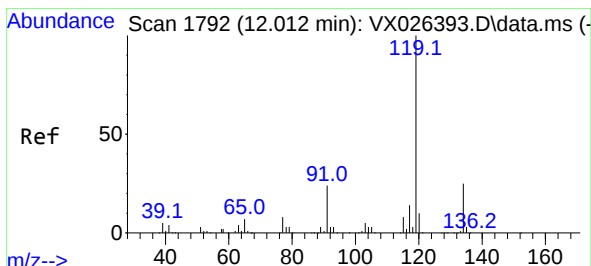
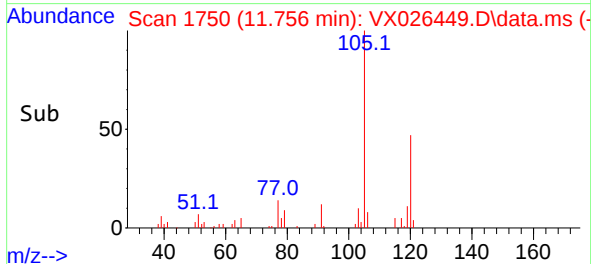
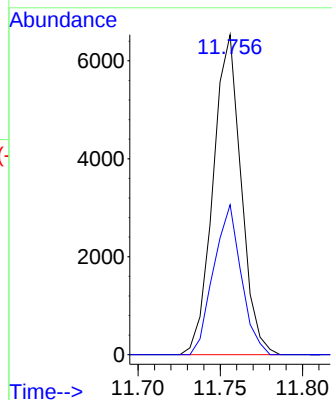
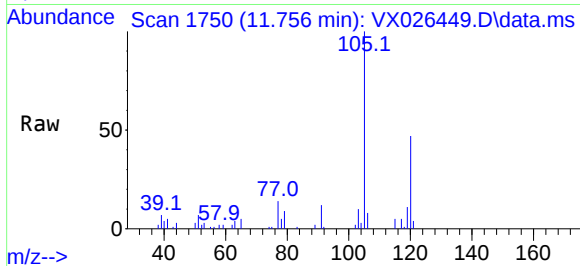




#80
1,2,4-Trimethylbenzene
Concen: 2.111 ug/l
RT: 11.756 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX026449.D
Acq: 14 Jan 2022 12:38

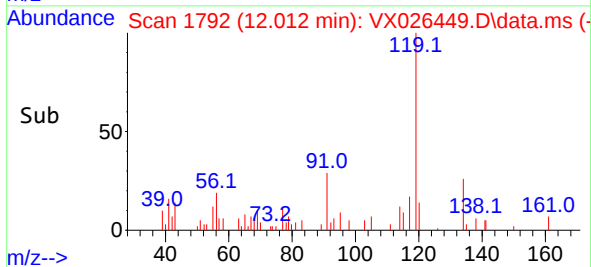
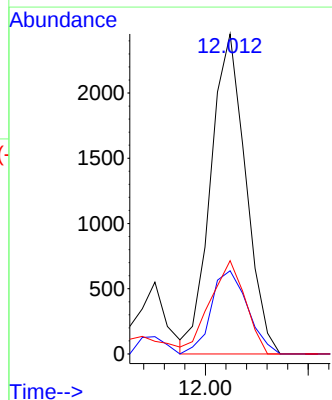
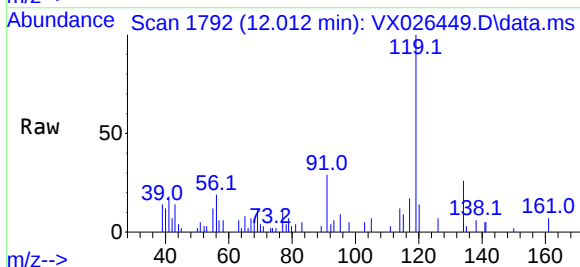
Instrument :
MSVOA_X
ClientSampleId :
220112013-02-VOA

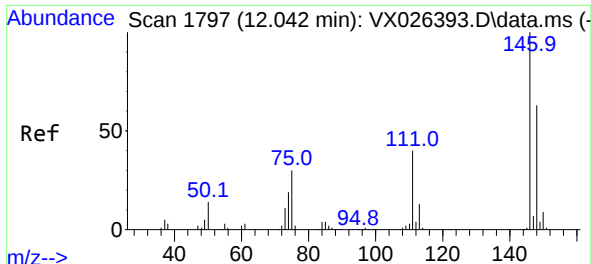
Tgt Ion:105 Resp: 7759
Ion Ratio Lower Upper
105 100
120 46.1 0.0 88.4



#82
p-Isopropyltoluene
Concen: 0.759 ug/l
RT: 12.012 min Scan# 1792
Delta R.T. -0.000 min
Lab File: VX026449.D
Acq: 14 Jan 2022 12:38

Tgt Ion:119 Resp: 2895
Ion Ratio Lower Upper
119 100
134 27.2 0.0 50.8
91 29.4 0.0 50.2

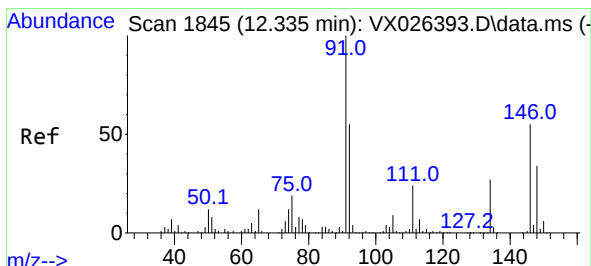
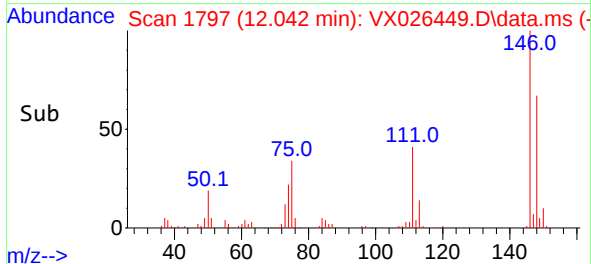
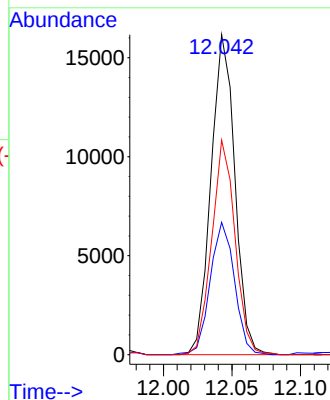
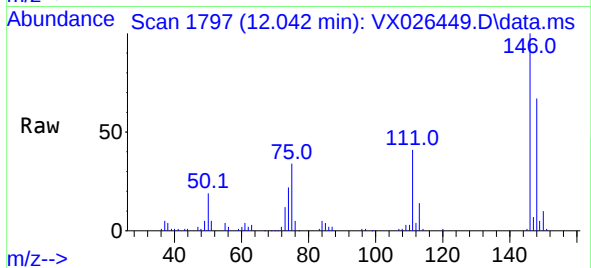




#84
1,4-Dichlorobenzene
Concen: 10.306 ug/l
RT: 12.042 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX026449.D
Acq: 14 Jan 2022 12:38

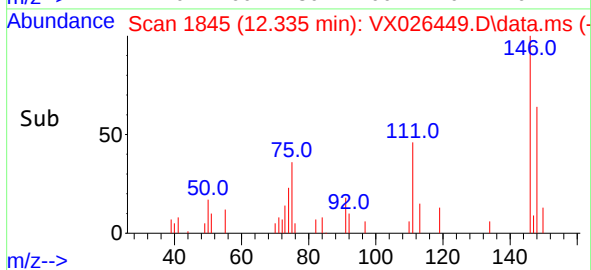
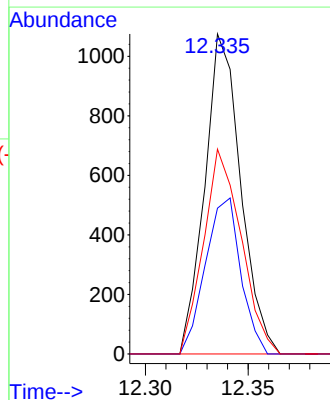
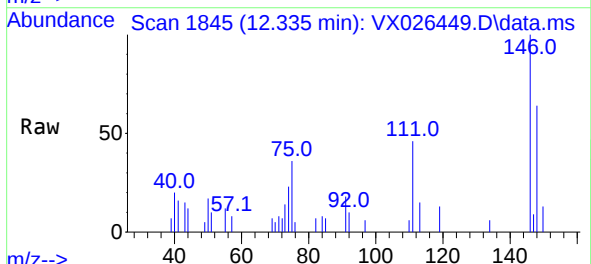
Instrument :
MSVOA_X
ClientSampleId :
220112013-02-VOA

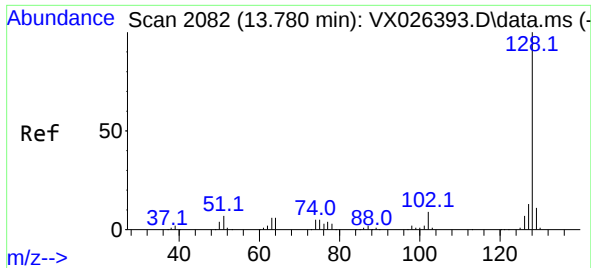
Tgt Ion:146 Resp: 19601
Ion Ratio Lower Upper
146 100
111 42.1 20.0 60.0
148 65.5 31.6 94.7



#87
1,2-Dichlorobenzene
Concen: 0.717 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. -0.000 min
Lab File: VX026449.D
Acq: 14 Jan 2022 12:38

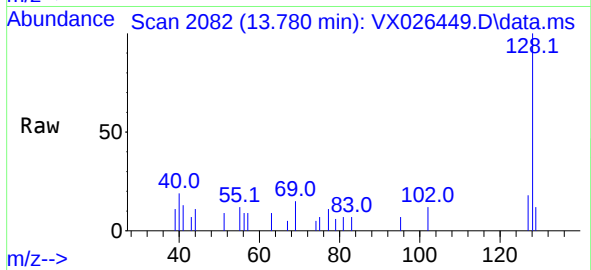
Tgt Ion:146 Resp: 1308
Ion Ratio Lower Upper
146 100
111 47.9 21.9 65.8
148 67.0 31.6 94.7





#91
Naphthalene
Concen: 0.306 ug/l
RT: 13.780 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX026449.D
Acq: 14 Jan 2022 12:38

Instrument :
MSVOA_X
ClientSampleId :
220112013-02-VOA



Tgt Ion:128 Resp: 1261
Ion Ratio Lower Upper
128 100
127 12.3 10.6 15.8
129 7.8 8.8 13.2#

