

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112822\
 Data File : VX033094.D
 Acq On : 28 Nov 2022 17:01
 Operator : JC/MD
 Sample : N5655-01 20X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SEMI-ANNUAL-CONDENSATE

Quant Time: Nov 29 03:44:48 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X111022W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 11 05:24:06 2022
 Response via : Initial Calibration

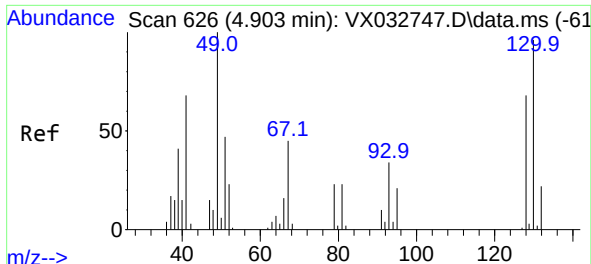
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	4.898	128	11739	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	82512	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	87725	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	33351	29.449	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	98.167%
60) 4-Bromofluorobenzene	11.079	95	46726	27.845	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	92.833%
63) Toluene-d8	8.647	98	86302	29.151	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.167%
Target Compounds						
					Qvalue	
8) Diethyl Ether	2.136	74	189	0.260	ug/l	45
15) Acetone	2.392	58	20450	129.684	ug/l	74
16) Carbon Disulfide	2.514	76	964	0.339	ug/l #	95
17) Allyl chloride	2.666	41	1025	0.565	ug/l #	44
18) Methylene Chloride	2.788	84	492	0.374	ug/l	96
23) tert-Butyl Alcohol	2.989	59	20008	101.614	ug/l #	100
30) 2-Butanone	4.562	43	132981	155.849	ug/l #	90
31) 2,2-Dichloropropane	4.562	77	4157	2.656	ug/l #	50
34) Benzene	6.038	78	4455	0.864	ug/l #	87
35) Methacrylonitrile	5.019	41	6549	6.777	ug/l #	42
45) 1,4-Dioxane	7.720	88	347	12.559	ug/l	92
47) n-amyl Acetate	10.890	43	1882	0.736	ug/l	91
55) 2-Chloroethyl vinyl ether	8.245	63	219	0.221	ug/l #	88
56) Bromoform	11.079	173	358	0.336	ug/l #	1
58) 4-Methyl-2-Pentanone	8.574	43	5314	3.094	ug/l #	92
59) 2-Hexanone	9.439	43	2179	1.723	ug/l #	81
62) Toluene	8.720	91	15250	2.673	ug/l	98
64) Chlorobenzene	10.080	112	1068	0.303	ug/l	90
66) Ethyl Benzene	10.195	91	7357	1.150	ug/l	92
67) m/p-Xylenes	10.299	106	2871	1.153	ug/l	85
68) o-Xylene	10.640	106	1752	0.717	ug/l	93
76) 1,3,5-Trimethylbenzene	11.451	105	1410	0.256	ug/l	94
77) t-1,4-Dichloro-2-butene	11.079	75	25392	48.417	ug/l #	8
80) 1,2,4-Trimethylbenzene	11.750	105	4339	0.805	ug/l	96
81) sec-Butylbenzene	12.091	105	3007	0.466	ug/l	61
82) p-Isopropyltoluene	12.012	119	15739	2.894	ug/l	96
84) 1,4-Dichlorobenzene	12.043	146	5274	1.806	ug/l	94
89) 1,2,4-Trichlorobenzene	13.585	180	392	0.221	ug/l #	85
90) Hexachlorobutadiene	13.725	225	375	0.525	ug/l	90
91) Naphthalene	13.780	128	23502	3.922	ug/l	98

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

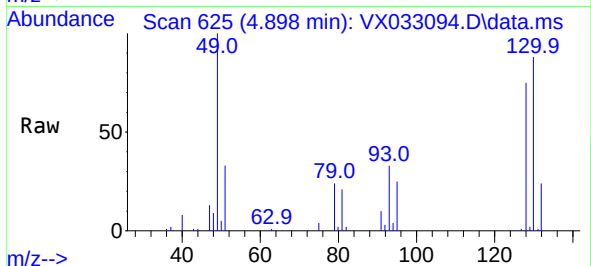
Quant Time: Nov 29 03:44:48 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X111022W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 11 05:24:06 2022
Response via : Initial Calibration



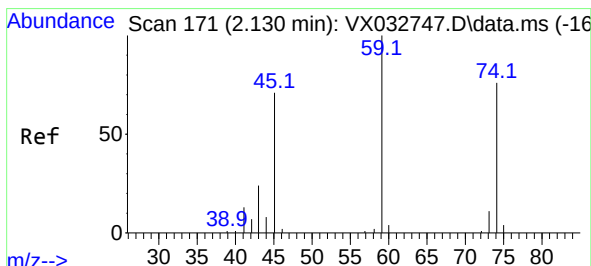
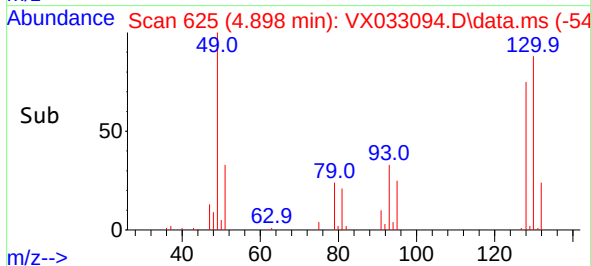
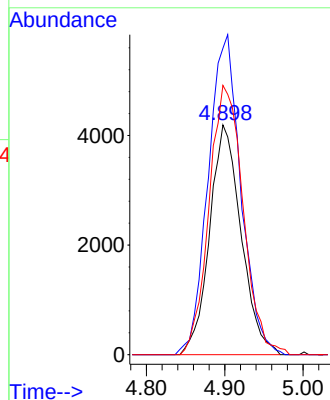


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.898 min Scan# 61
Delta R.T. -0.005 min
Lab File: VX033094.D
Acq: 28 Nov 2022 17:01

Instrument :
MSVOA_X
ClientSampleId :
SEMI-ANNUAL-CONDENSATE

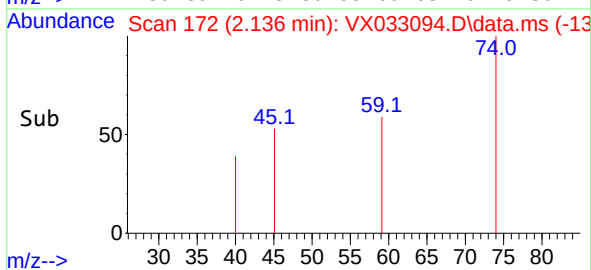
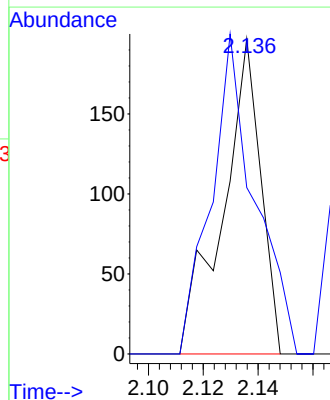
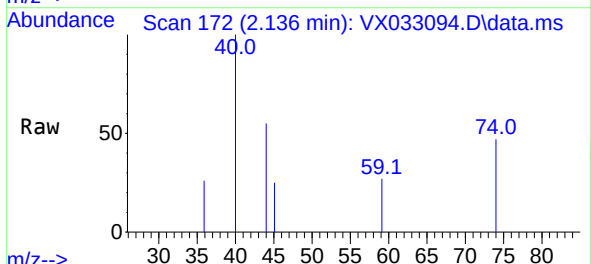


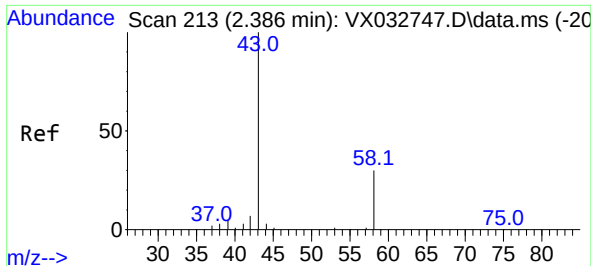
Tgt Ion:128 Resp: 11739
Ion Ratio Lower Upper
128 100
49 144.2 0.0 293.0
130 126.7 0.0 321.5



#8
Diethyl Ether
Concen: 0.260 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.006 min
Lab File: VX033094.D
Acq: 28 Nov 2022 17:01

Tgt Ion: 74 Resp: 189
Ion Ratio Lower Upper
74 100
45 116.4 14.2 127.8

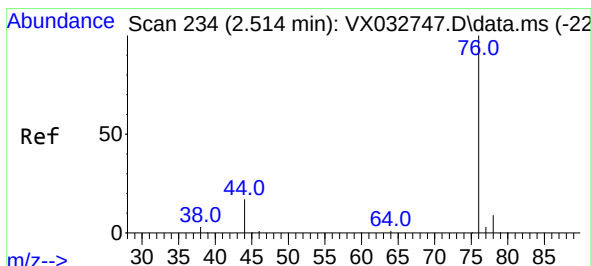
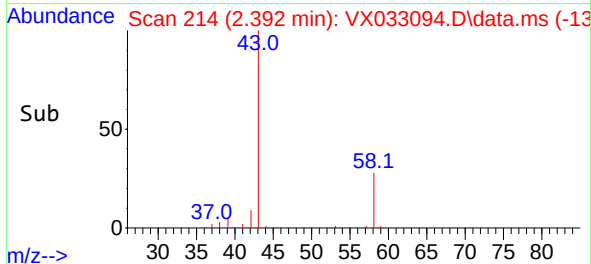
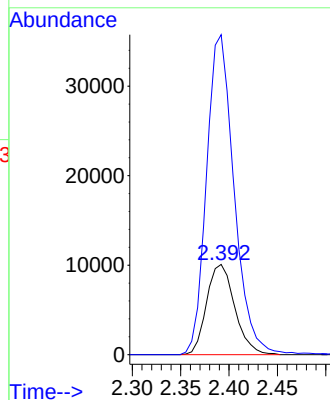
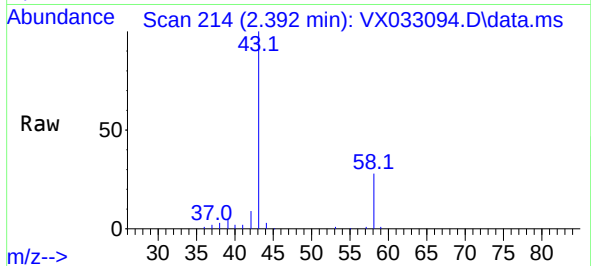




#15
Acetone
Concen: 129.684 ug/l
RT: 2.392 min Scan# 213
Delta R.T. 0.006 min
Lab File: VX033094.D
Acq: 28 Nov 2022 17:01

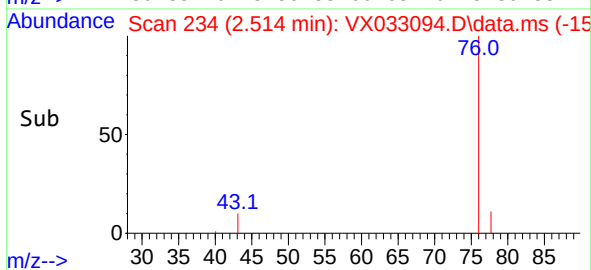
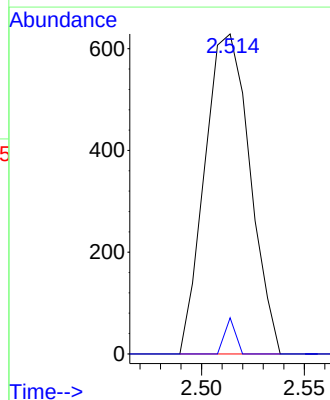
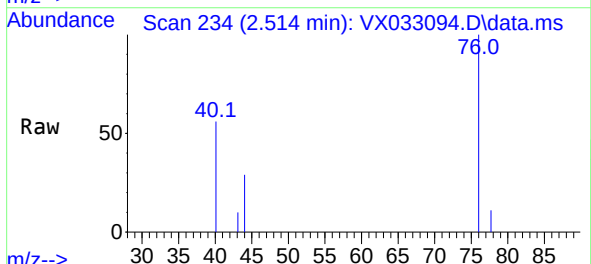
Instrument :
MSVOA_X
ClientSampleId :
SEMI-ANNUAL-CONDENSATE

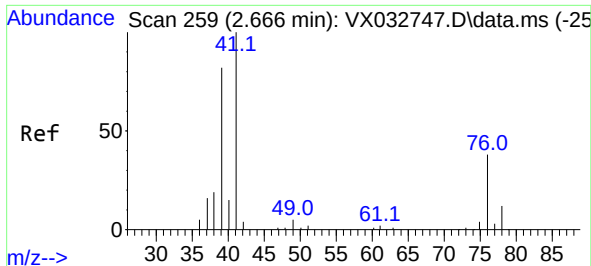
Tgt Ion: 58 Resp: 20450
Ion Ratio Lower Upper
58 100
43 354.7 242.6 364.0



#16
Carbon Disulfide
Concen: 0.339 ug/l
RT: 2.514 min Scan# 234
Delta R.T. 0.000 min
Lab File: VX033094.D
Acq: 28 Nov 2022 17:01

Tgt Ion: 76 Resp: 964
Ion Ratio Lower Upper
76 100
78 11.3 7.5 11.3#





#17

Allyl chloride

Concen: 0.565 ug/l

RT: 2.666 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX033094.D

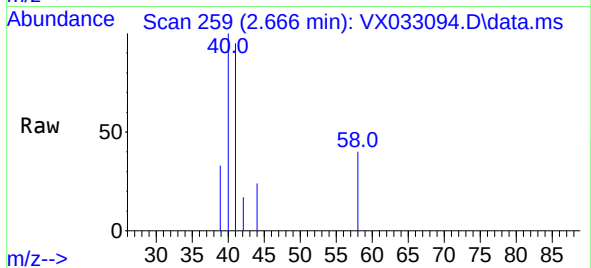
Acq: 28 Nov 2022 17:01

Instrument :

MSVOA_X

ClientSampleId :

SEMI-ANNUAL-CONDENSATE



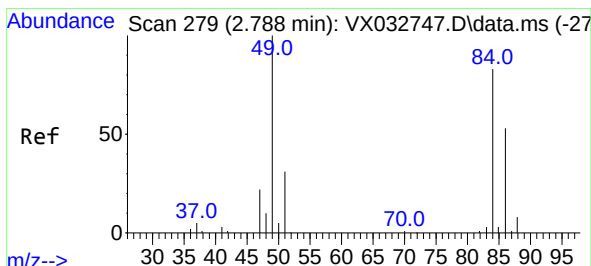
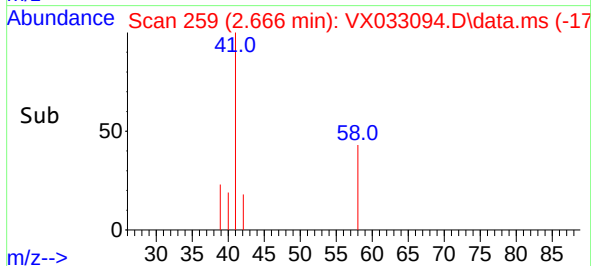
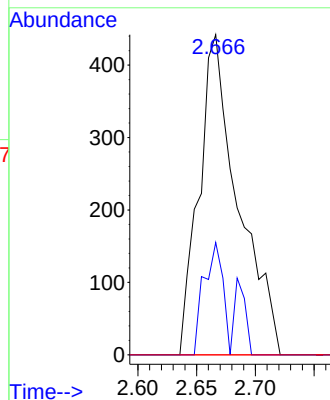
Tgt Ion: 41 Resp: 1025

Ion Ratio Lower Upper

41 100

39 35.1 37.0 111.0#

76 0.0 23.8 71.5#



#18

Methylene Chloride

Concen: 0.374 ug/l

RT: 2.788 min Scan# 279

Delta R.T. 0.000 min

Lab File: VX033094.D

Acq: 28 Nov 2022 17:01

Tgt Ion: 84 Resp: 492

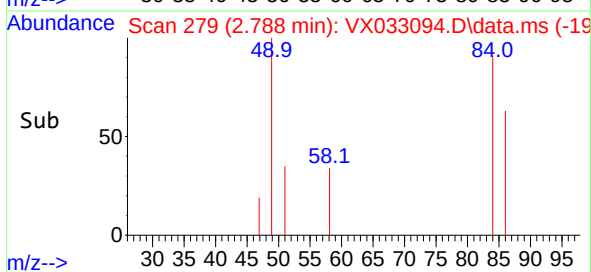
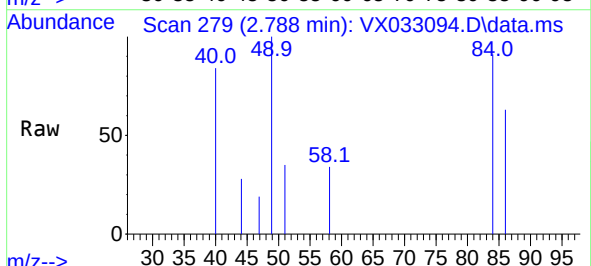
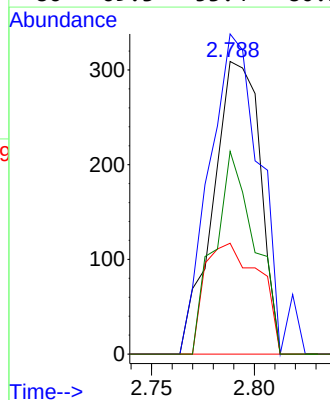
Ion Ratio Lower Upper

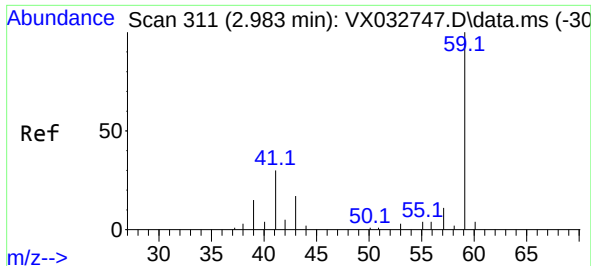
84 100

49 109.4 84.6 127.0

51 37.9 26.5 39.7

86 69.3 53.4 80.2

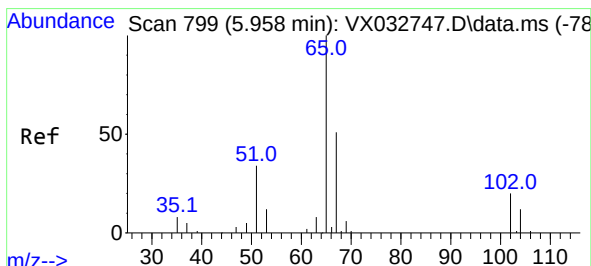
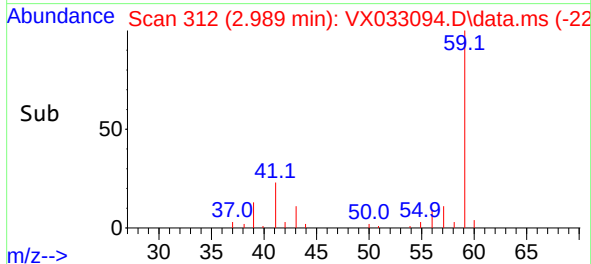
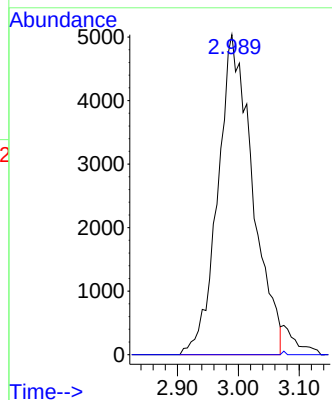
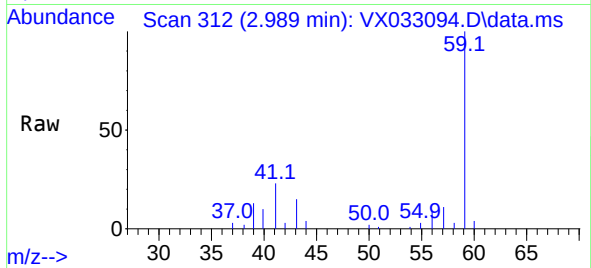




#23
tert-Butyl Alcohol
Concen: 101.614 ug/l
RT: 2.989 min Scan# 311
Delta R.T. 0.006 min
Lab File: VX033094.D
Acq: 28 Nov 2022 17:01

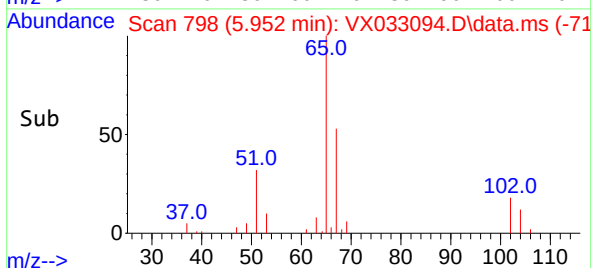
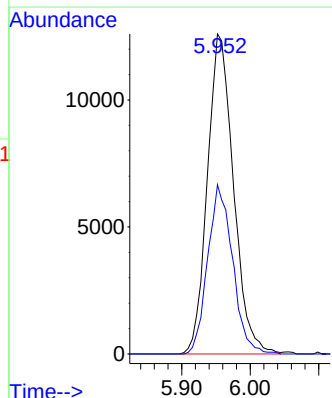
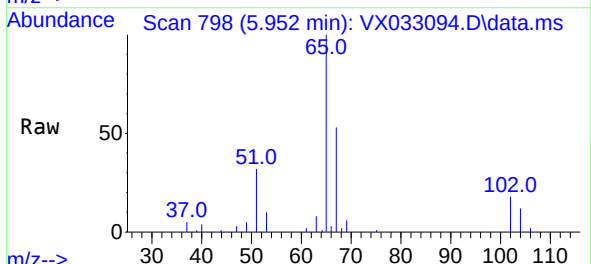
Instrument :
MSVOA_X
ClientSampleId :
SEMI-ANNUAL-CONDENSATE

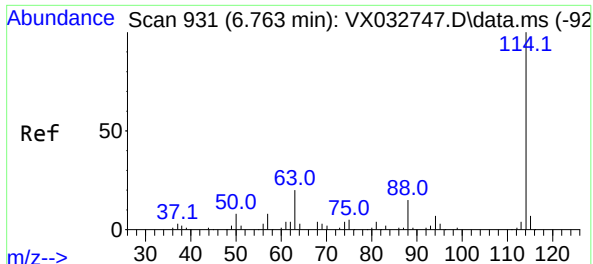
Tgt Ion: 59 Resp: 20008
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#27
1,2-Dichloroethane-d4
Concen: 29.449 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.006 min
Lab File: VX033094.D
Acq: 28 Nov 2022 17:01

Tgt Ion: 65 Resp: 33351
Ion Ratio Lower Upper
65 100
67 50.4 41.8 62.6



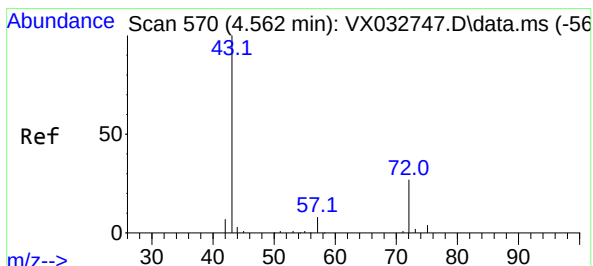
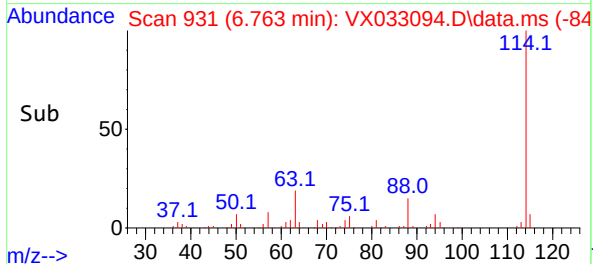
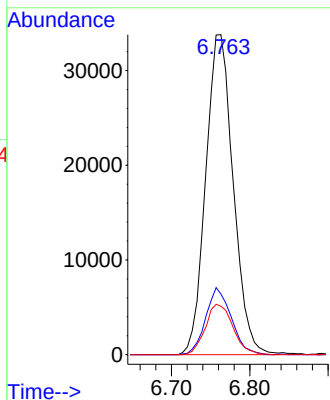
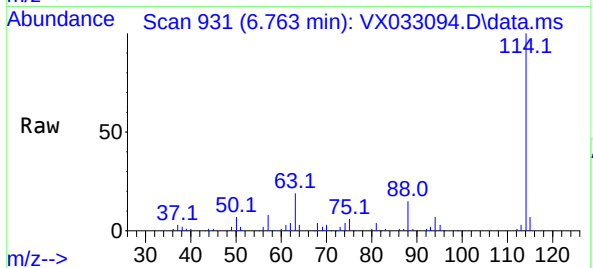


#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.763 min Scan# 91
Delta R.T. 0.000 min
Lab File: VX033094.D
Acq: 28 Nov 2022 17:01

Instrument :
MSVOA_X
ClientSampleId :
SEMI-ANNUAL-CONDENSATE

Tgt Ion:114 Resp: 82512

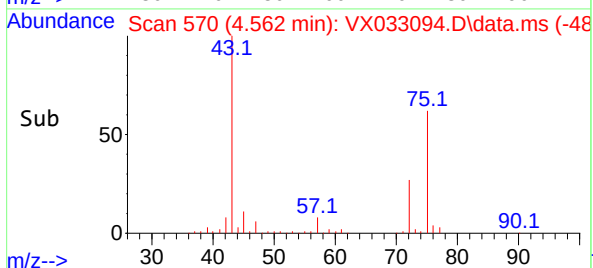
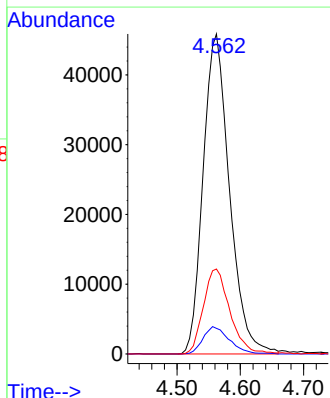
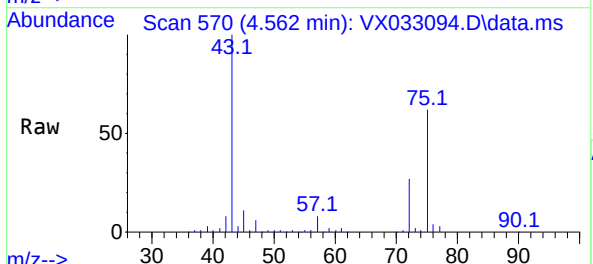
Ion	Ratio	Lower	Upper
114	100		
63	19.5	13.6	20.4
88	15.7	11.8	17.6

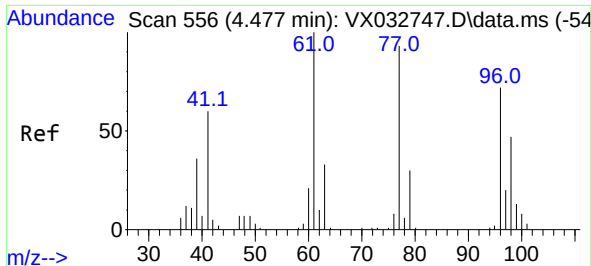


#30
2-Butanone
Concen: 155.849 ug/l
RT: 4.562 min Scan# 570
Delta R.T. 0.000 min
Lab File: VX033094.D
Acq: 28 Nov 2022 17:01

Tgt Ion: 43 Resp: 132981

Ion	Ratio	Lower	Upper
43	100		
57	8.4	7.5	11.3
72	26.3	26.6	39.8





#31

2,2-Dichloropropane

Concen: 2.656 ug/l

RT: 4.562 min Scan# 51

Delta R.T. 0.086 min

Lab File: VX033094.D

Acq: 28 Nov 2022 17:01

Instrument :

MSVOA_X

ClientSampleId :

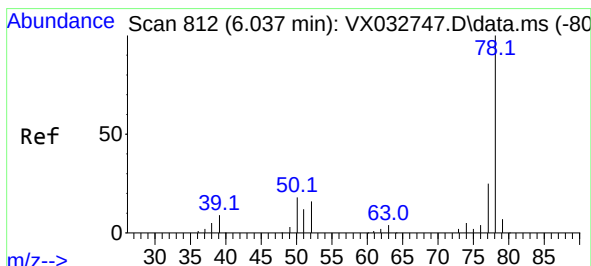
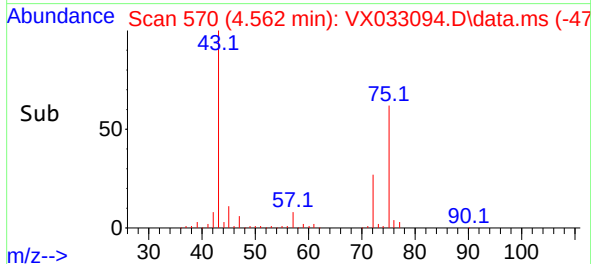
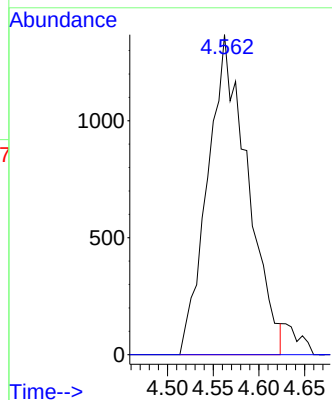
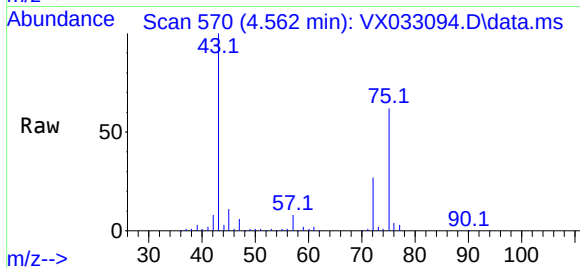
SEMI-ANNUAL-CONDENSATE

Tgt Ion: 77 Resp: 4157

Ion Ratio Lower Upper

77 100

97 0.0 20.0 30.0#



#34

Benzene

Concen: 0.864 ug/l

RT: 6.038 min Scan# 812

Delta R.T. 0.000 min

Lab File: VX033094.D

Acq: 28 Nov 2022 17:01

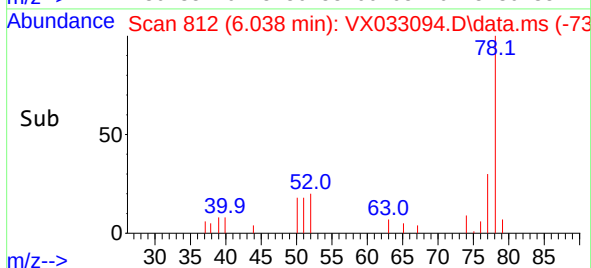
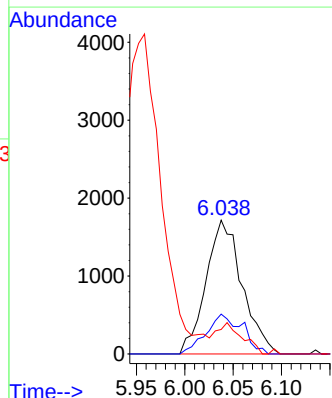
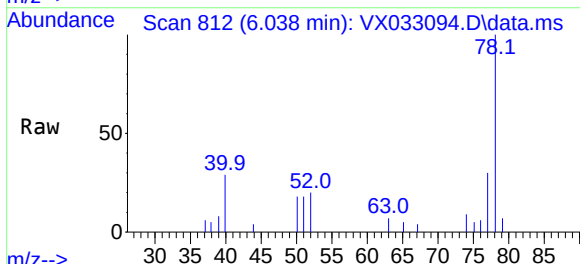
Tgt Ion: 78 Resp: 4455

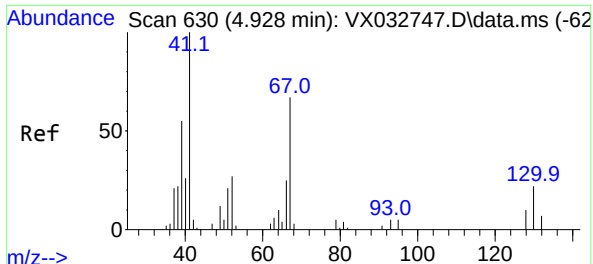
Ion Ratio Lower Upper

78 100

77 29.8 19.0 28.6#

51 18.4 10.6 15.8#

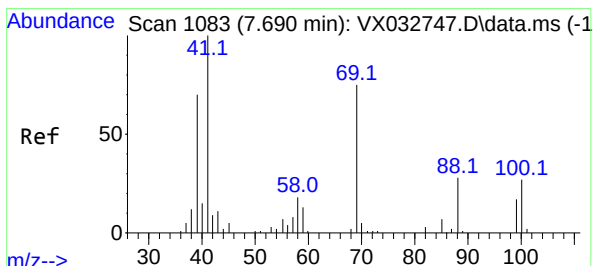
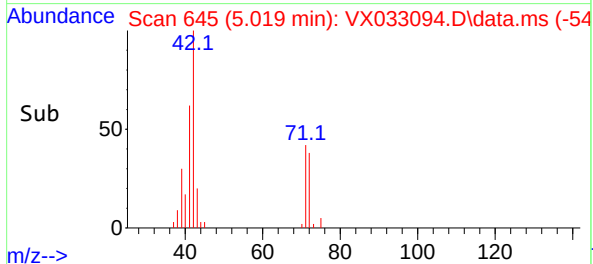
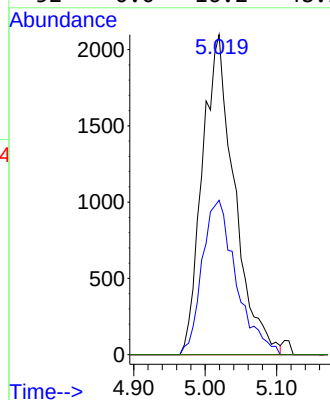
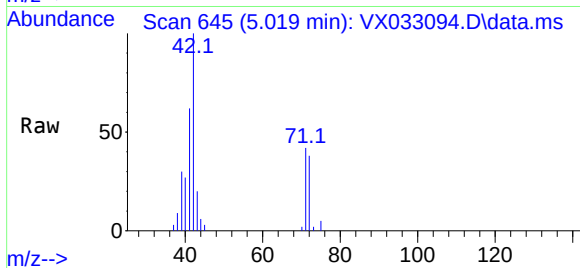




#35
Methacrylonitrile
Concen: 6.777 ug/l
RT: 5.019 min Scan# 645
Delta R.T. 0.092 min
Lab File: VX033094.D
Acq: 28 Nov 2022 17:01

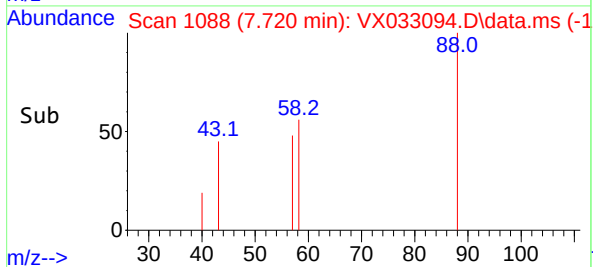
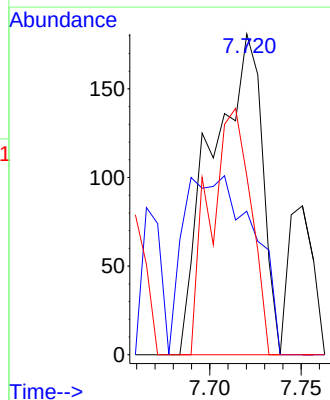
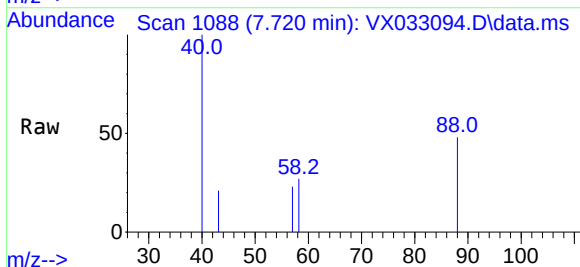
Instrument :
MSVOA_X
ClientSampleId :
SEMI-ANNUAL-CONDENSATE

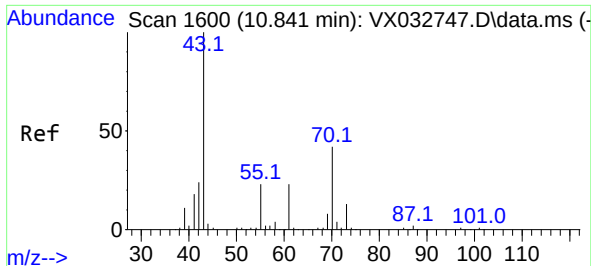
Tgt Ion:	41	Resp:	6549
Ion	Ratio	Lower	Upper
41	100		
39	48.2	26.9	80.7
67	0.0	40.6	121.8#
52	0.0	16.2	48.5#



#45
1,4-Dioxane
Concen: 12.559 ug/l
RT: 7.720 min Scan# 1088
Delta R.T. 0.031 min
Lab File: VX033094.D
Acq: 28 Nov 2022 17:01

Tgt Ion:	88	Resp:	347
Ion	Ratio	Lower	Upper
88	100		
43	27.4	20.4	30.6
58	62.2	44.0	66.0





#47

n-amyl Acetate

Concen: 0.736 ug/l

RT: 10.890 min Scan# 1608

Delta R.T. 0.049 min

Lab File: VX033094.D

Acq: 28 Nov 2022 17:01

Instrument :

MSVOA_X

ClientSampleId :

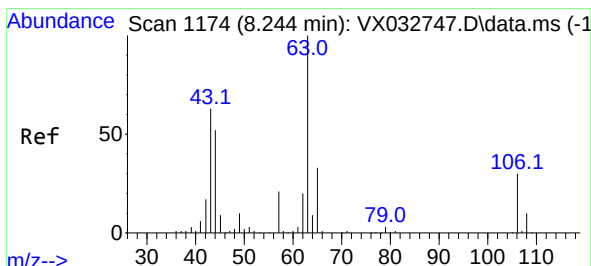
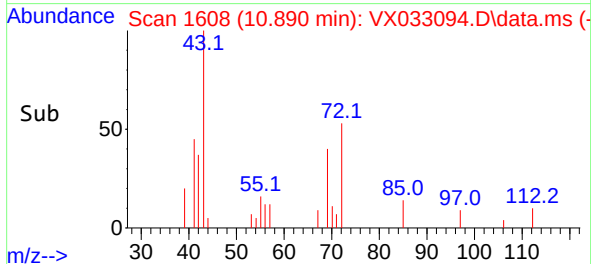
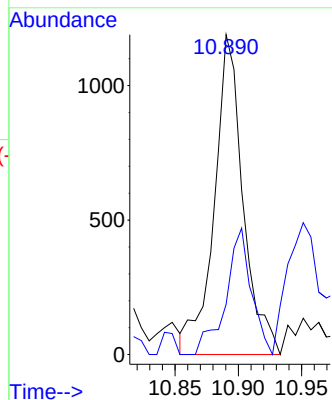
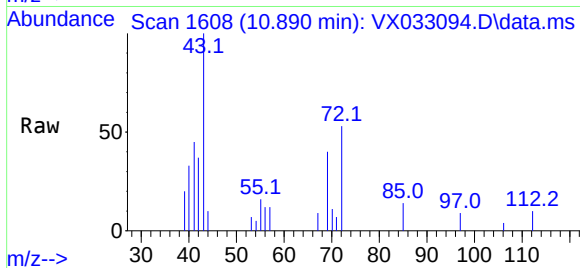
SEMI-ANNUAL-CONDENSATE

Tgt Ion: 43 Resp: 1882

Ion Ratio Lower Upper

43 100

55 31.6 21.6 32.4



#55

2-Chloroethyl vinyl ether

Concen: 0.221 ug/l

RT: 8.245 min Scan# 1174

Delta R.T. 0.000 min

Lab File: VX033094.D

Acq: 28 Nov 2022 17:01

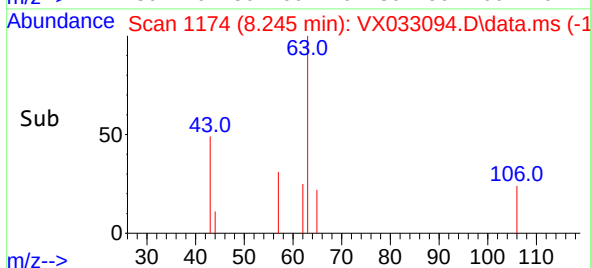
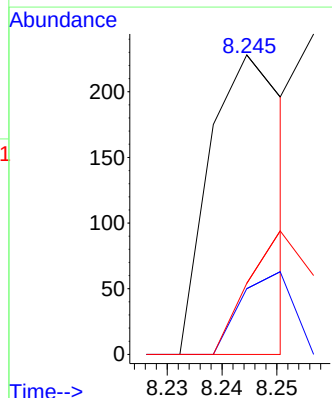
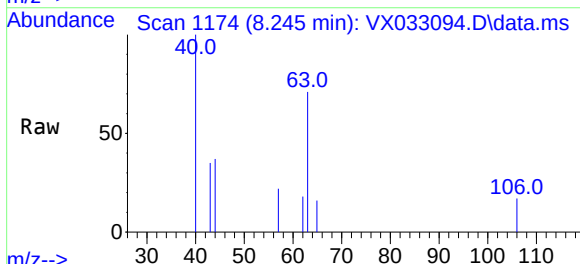
Tgt Ion: 63 Resp: 219

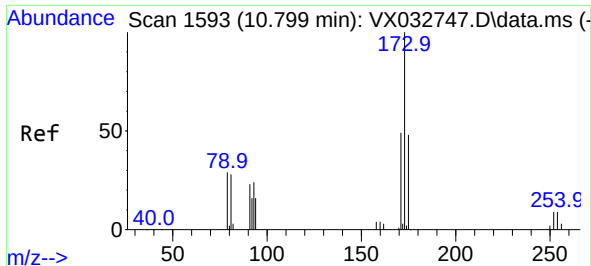
Ion Ratio Lower Upper

63 100

65 18.7 25.5 38.3

106 34.7 28.9 43.3

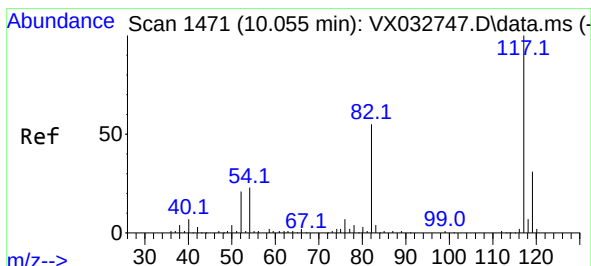
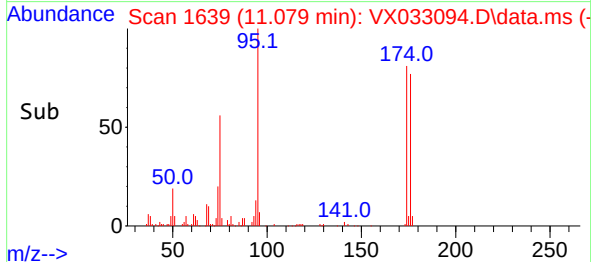
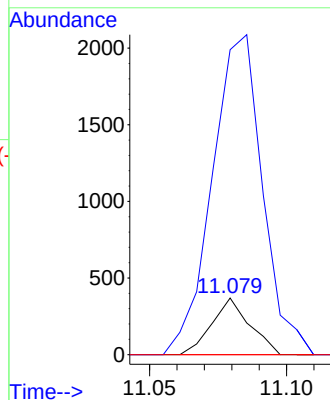
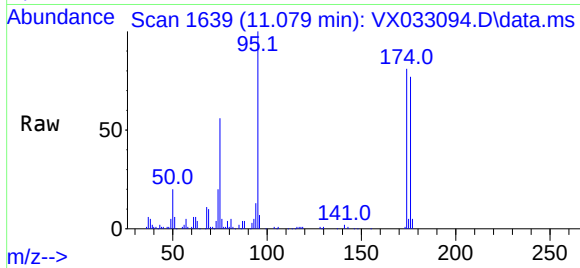




#56
Bromoform
Concen: 0.336 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.281 min
Lab File: VX033094.D
Acq: 28 Nov 2022 17:01

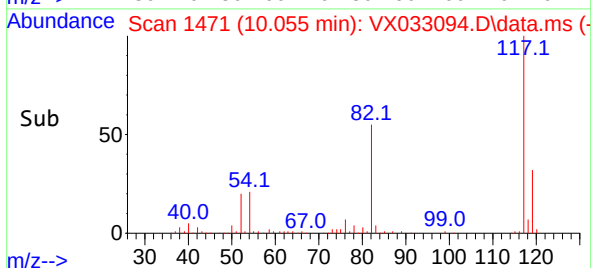
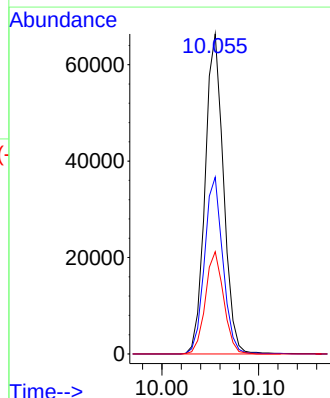
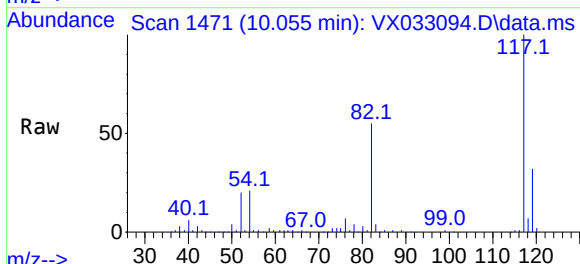
Instrument :
MSVOA_X
ClientSampleId :
SEMI-ANNUAL-CONDENSATE

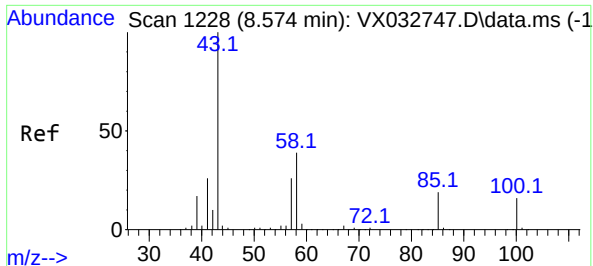
Tgt Ion:173 Resp: 358
Ion Ratio Lower Upper
173 100
175 747.5 38.6 58.0#
254 0.0 6.8 10.2#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX033094.D
Acq: 28 Nov 2022 17:01

Tgt Ion:117 Resp: 87725
Ion Ratio Lower Upper
117 100
82 55.1 40.0 60.0
119 31.8 26.0 39.0





#58

4-Methyl-2-Pentanone

Concen: 3.094 ug/l

RT: 8.574 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX033094.D

Acq: 28 Nov 2022 17:01

Instrument :

MSVOA_X

ClientSampleId :

SEMI-ANNUAL-CONDENSATE

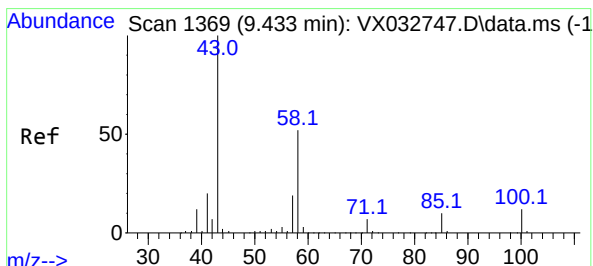
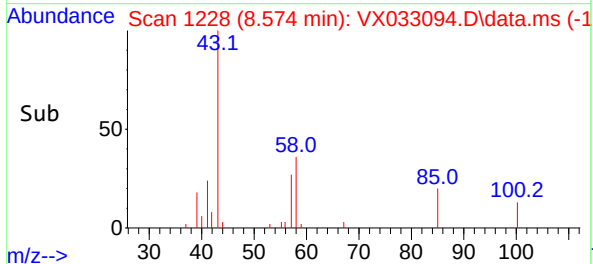
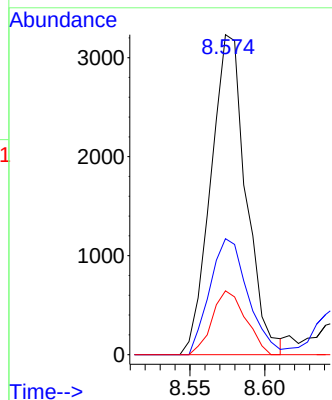
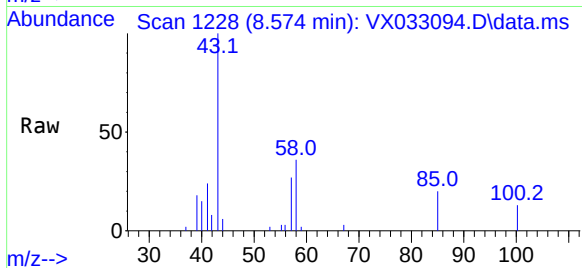
Tgt Ion: 43 Resp: 5314

Ion Ratio Lower Upper

43 100

58 39.1 34.9 52.3

85 18.9 19.4 29.2#



#59

2-Hexanone

Concen: 1.723 ug/l

RT: 9.439 min Scan# 1370

Delta R.T. 0.006 min

Lab File: VX033094.D

Acq: 28 Nov 2022 17:01

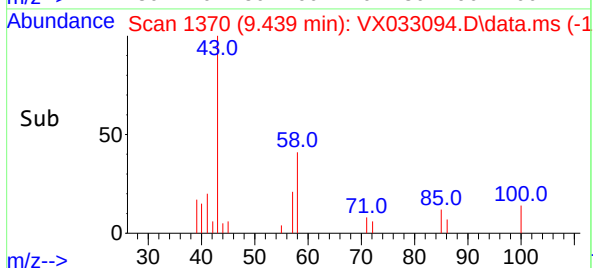
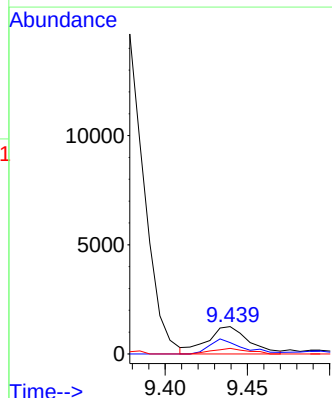
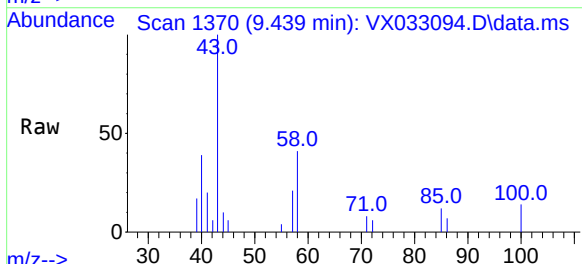
Tgt Ion: 43 Resp: 2179

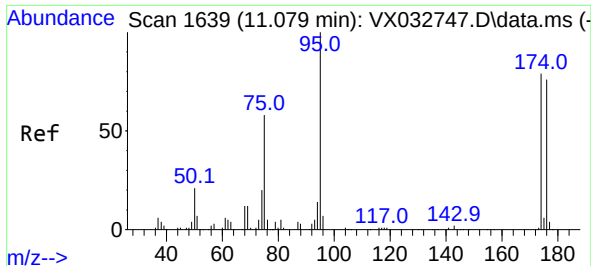
Ion Ratio Lower Upper

43 100

58 43.2 49.0 73.6#

57 17.8 17.0 25.4

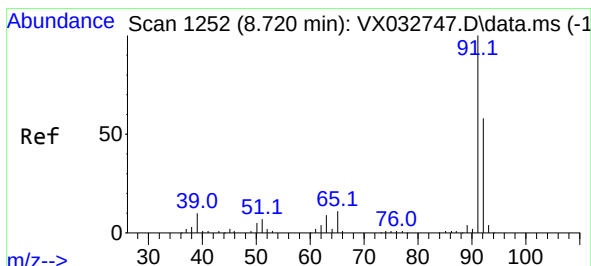
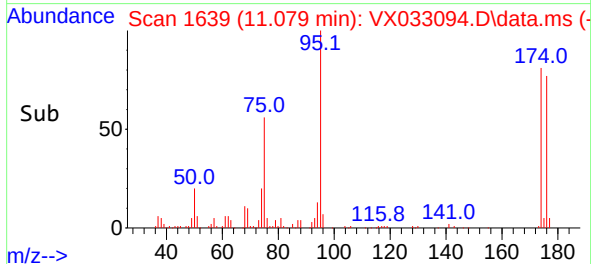
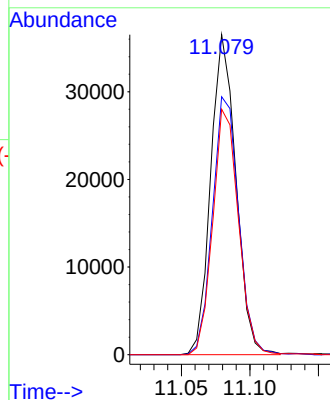
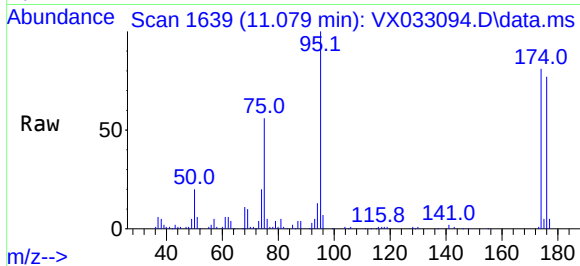




#60
4-Bromofluorobenzene
Concen: 27.845 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX033094.D
Acq: 28 Nov 2022 17:01

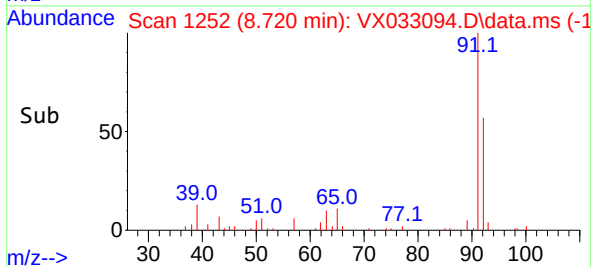
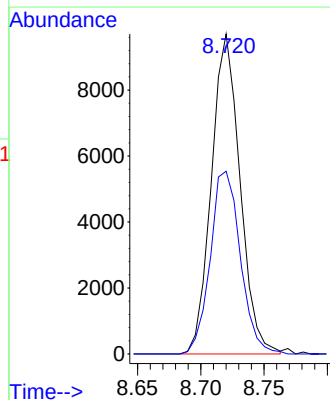
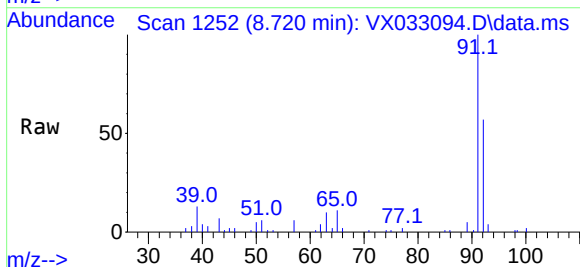
Instrument :
MSVOA_X
ClientSampleId :
SEMI-ANNUAL-CONDENSATE

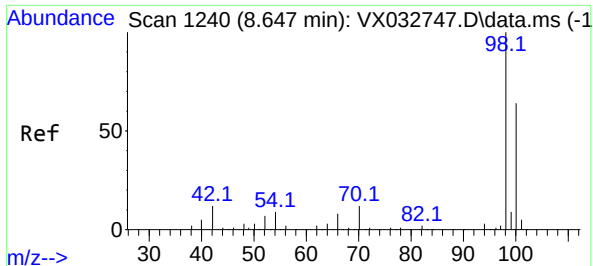
Tgt Ion: 95 Resp: 46726
Ion Ratio Lower Upper
95 100
174 83.4 68.2 102.2
176 78.3 68.1 102.1



#62
Toluene
Concen: 2.673 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX033094.D
Acq: 28 Nov 2022 17:01

Tgt Ion: 91 Resp: 15250
Ion Ratio Lower Upper
91 100
92 60.2 47.3 70.9

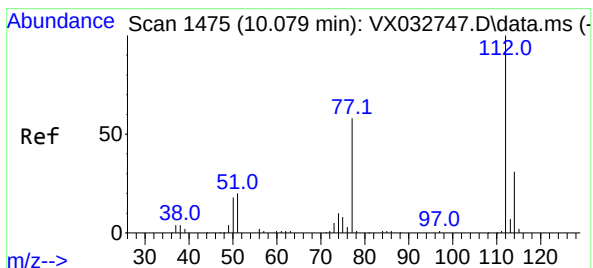
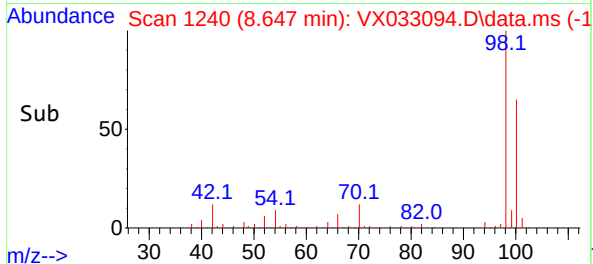
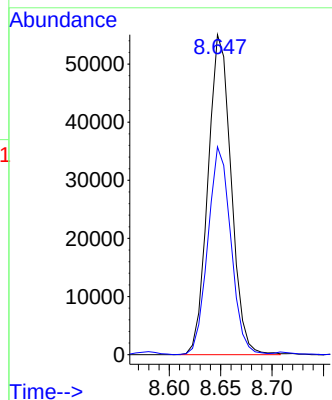
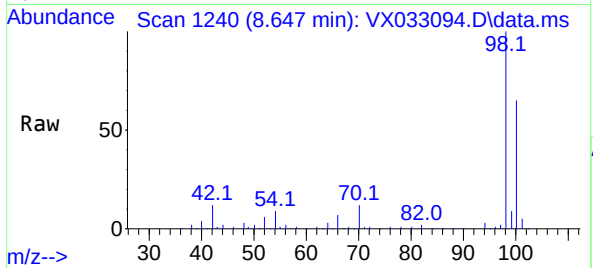




#63
Toluene-d8
Concen: 29.151 ug/l
RT: 8.647 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX033094.D
Acq: 28 Nov 2022 17:01

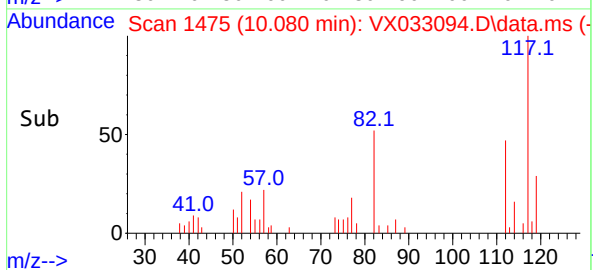
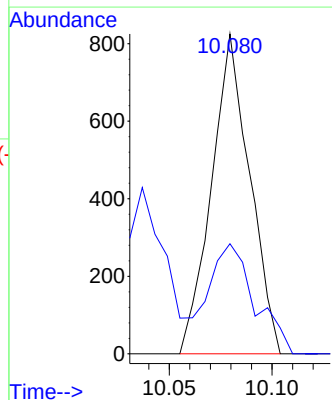
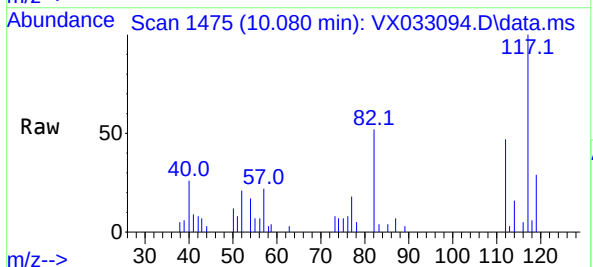
Instrument :
MSVOA_X
ClientSampleId :
SEMI-ANNUAL-CONDENSATE

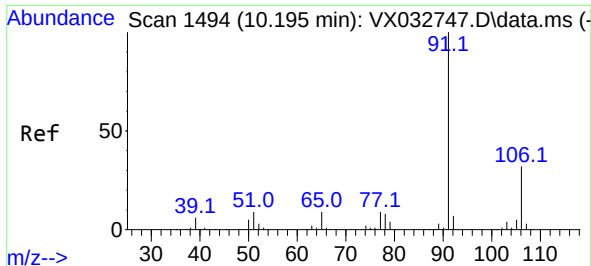
Tgt Ion: 98 Resp: 86302
Ion Ratio Lower Upper
98 100
100 64.5 53.8 80.8



#64
Chlorobenzene
Concen: 0.303 ug/l
RT: 10.080 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX033094.D
Acq: 28 Nov 2022 17:01

Tgt Ion: 112 Resp: 1068
Ion Ratio Lower Upper
112 100
114 26.3 25.7 38.5

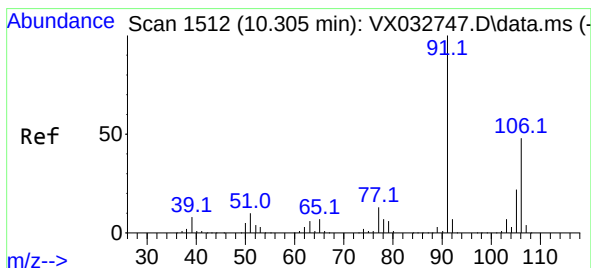
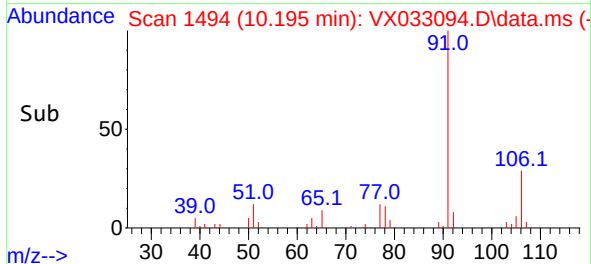
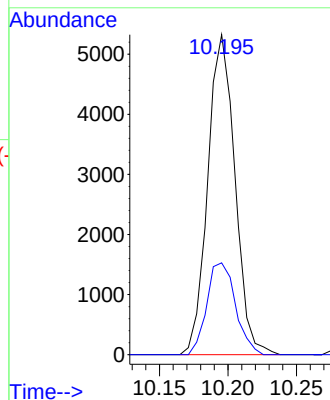
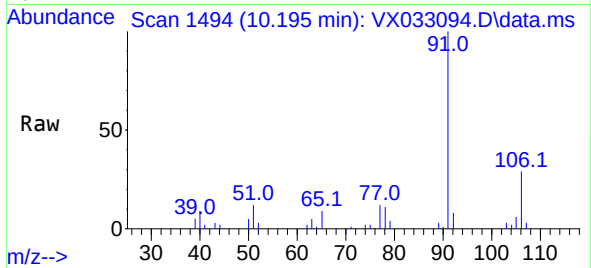




#66
Ethyl Benzene
Concen: 1.150 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.000 min
Lab File: VX033094.D
Acq: 28 Nov 2022 17:01

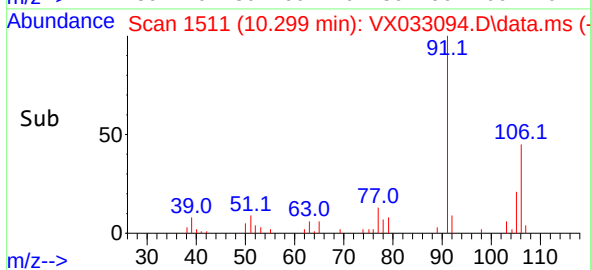
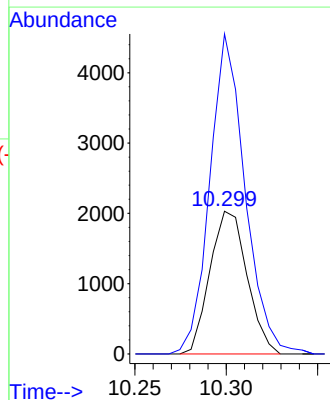
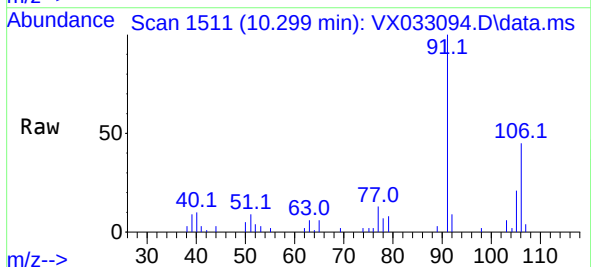
Instrument :
MSVOA_X
ClientSampleId :
SEMI-ANNUAL-CONDENSATE

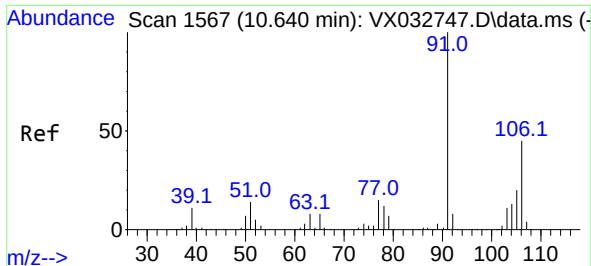
Tgt Ion: 91 Resp: 7357
Ion Ratio Lower Upper
91 100
106 28.7 26.7 40.1



#67
m/p-Xylenes
Concen: 1.153 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.006 min
Lab File: VX033094.D
Acq: 28 Nov 2022 17:01

Tgt Ion: 106 Resp: 2871
Ion Ratio Lower Upper
106 100
91 212.7 152.3 228.5

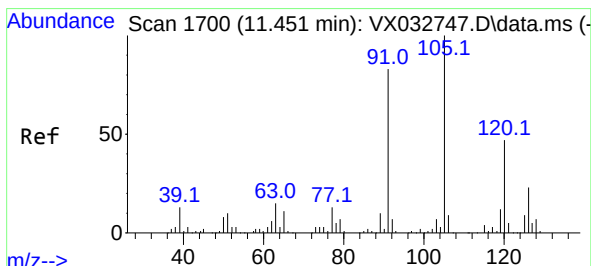
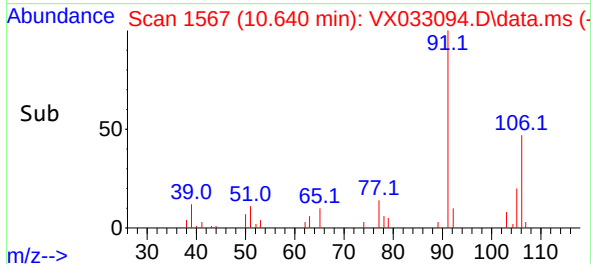
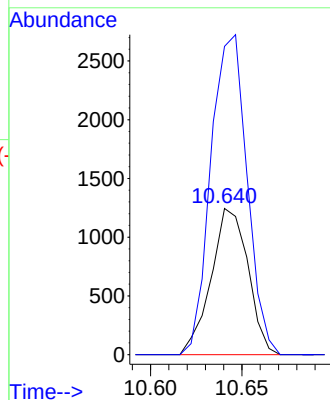
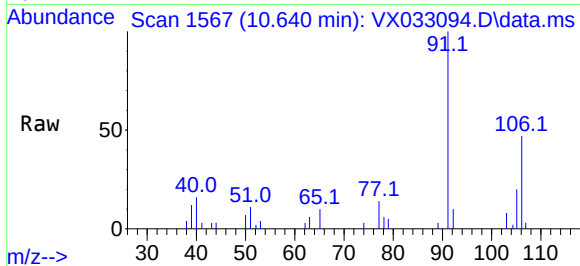




#68
o-Xylene
Concen: 0.717 ug/l
RT: 10.640 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX033094.D
Acq: 28 Nov 2022 17:01

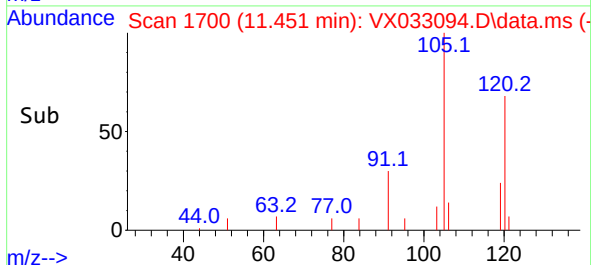
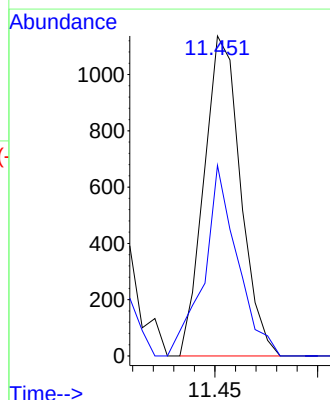
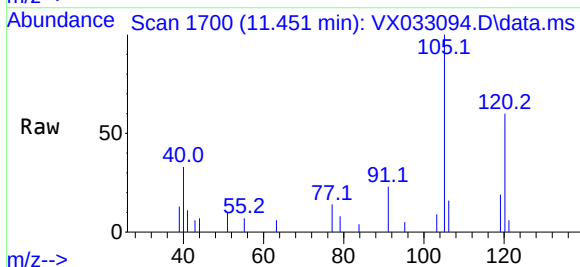
Instrument :
MSVOA_X
ClientSampleId :
SEMI-ANNUAL-CONDENSATE

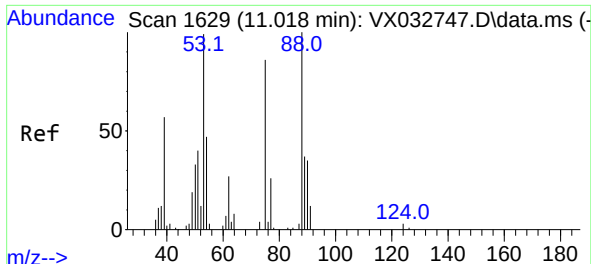
Tgt Ion:106 Resp: 1752
Ion Ratio Lower Upper
106 100
91 214.4 101.9 305.7



#76
1,3,5-Trimethylbenzene
Concen: 0.256 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX033094.D
Acq: 28 Nov 2022 17:01

Tgt Ion:105 Resp: 1410
Ion Ratio Lower Upper
105 100
120 54.5 0.0 100.6

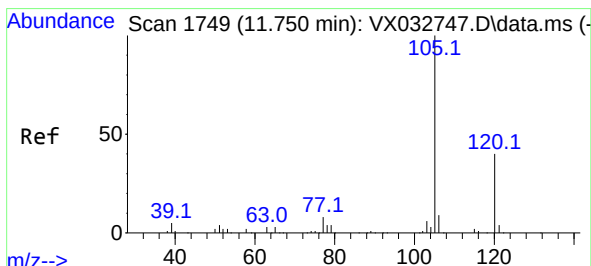
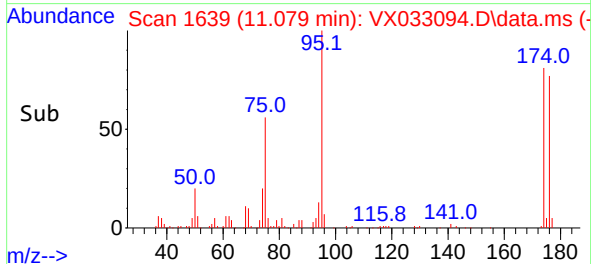
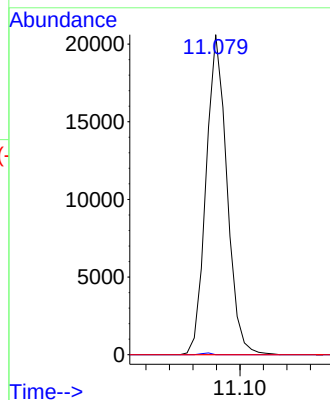
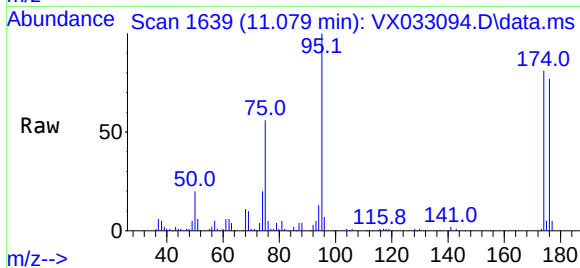




#77
t-1,4-Dichloro-2-butene
Concen: 48.417 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX033094.D
Acq: 28 Nov 2022 17:01

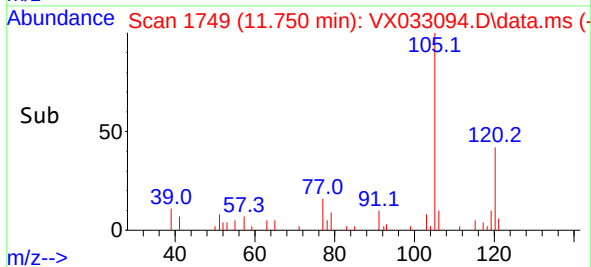
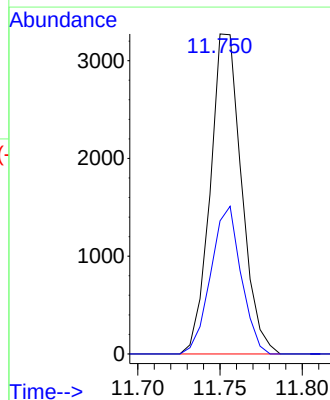
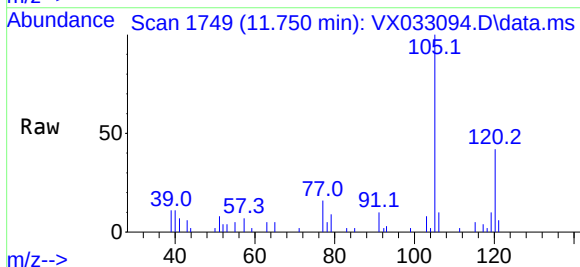
Instrument :
MSVOA_X
ClientSampleId :
SEMI-ANNUAL-CONDENSATE

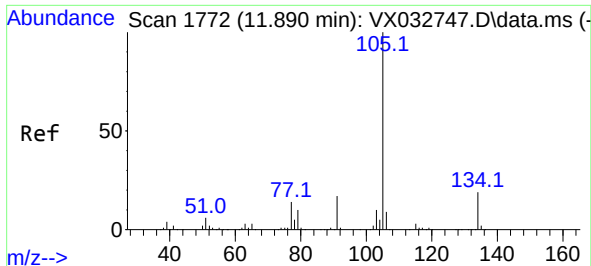
Tgt Ion: 75 Resp: 25392
Ion Ratio Lower Upper
75 100
53 0.0 51.8 155.4#
89 0.0 22.9 68.8#



#80
1,2,4-Trimethylbenzene
Concen: 0.805 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX033094.D
Acq: 28 Nov 2022 17:01

Tgt Ion: 105 Resp: 4339
Ion Ratio Lower Upper
105 100
120 44.7 0.0 95.0

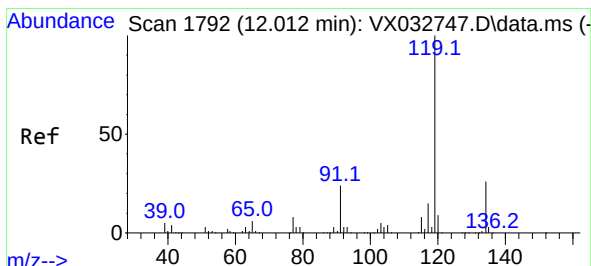
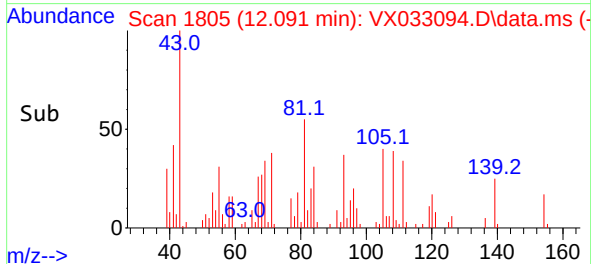
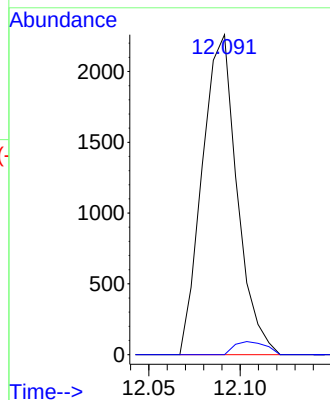
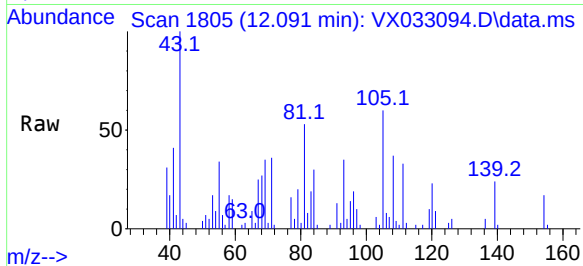




#81
 sec-Butylbenzene
 Concen: 0.466 ug/l
 RT: 12.091 min Scan# 1772
 Delta R.T. 0.201 min
 Lab File: VX033094.D
 Acq: 28 Nov 2022 17:01

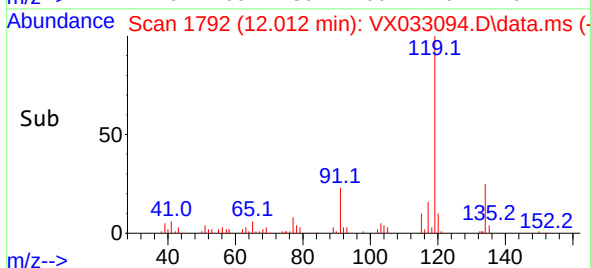
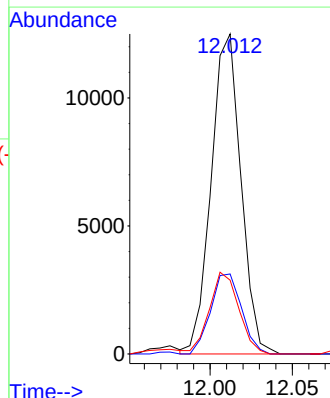
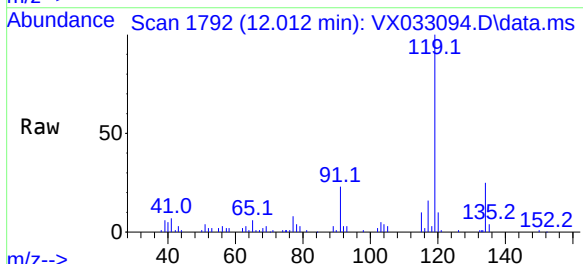
Instrument :
 MSVOA_X
 ClientSampleId :
 SEMI-ANNUAL-CONDENSATE

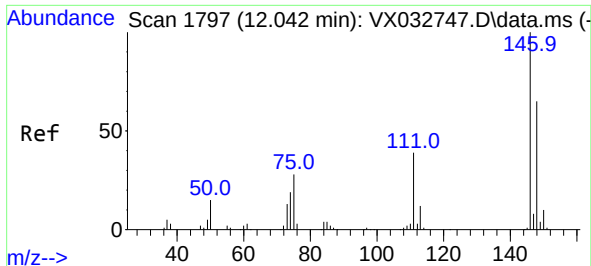
Tgt Ion:105 Resp: 3007
 Ion Ratio Lower Upper
 105 100
 134 3.7 0.0 44.4



#82
 p-Isopropyltoluene
 Concen: 2.894 ug/l
 RT: 12.012 min Scan# 1792
 Delta R.T. 0.000 min
 Lab File: VX033094.D
 Acq: 28 Nov 2022 17:01

Tgt Ion:119 Resp: 15739
 Ion Ratio Lower Upper
 119 100
 134 26.0 0.0 55.4
 91 25.1 0.0 45.6

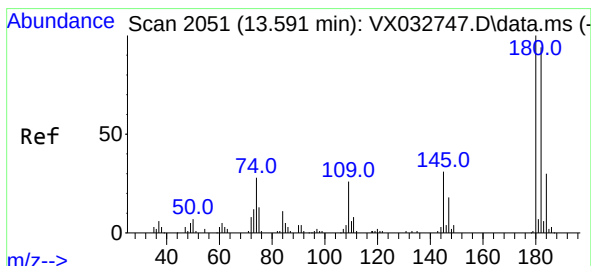
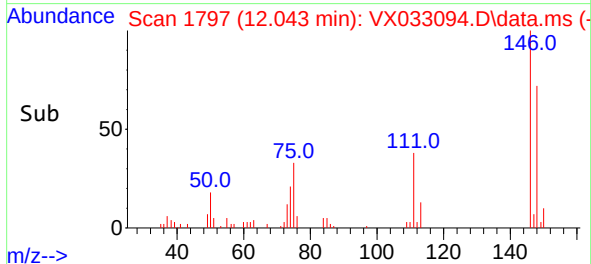
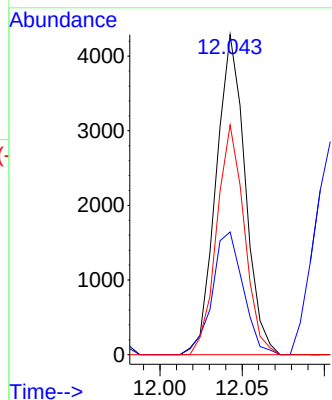
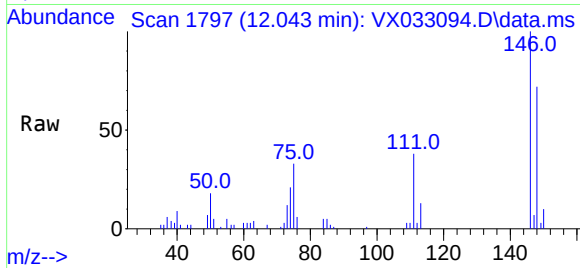




#84
1,4-Dichlorobenzene
Concen: 1.806 ug/l
RT: 12.043 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX033094.D
Acq: 28 Nov 2022 17:01

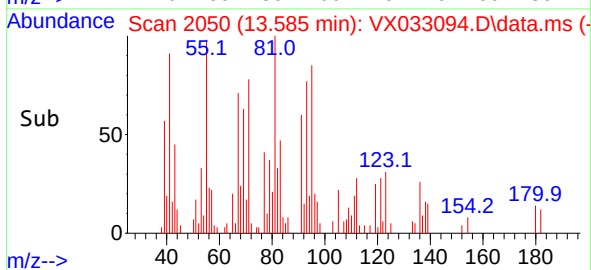
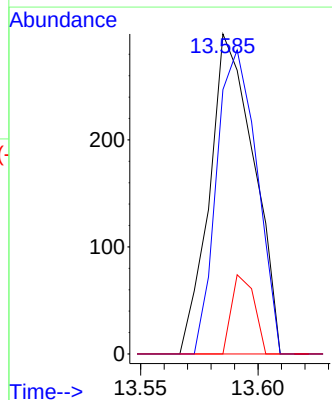
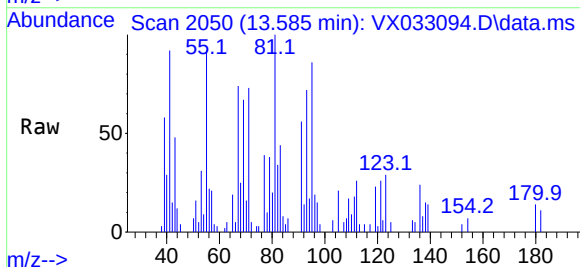
Instrument :
MSVOA_X
ClientSampleId :
SEMI-ANNUAL-CONDENSATE

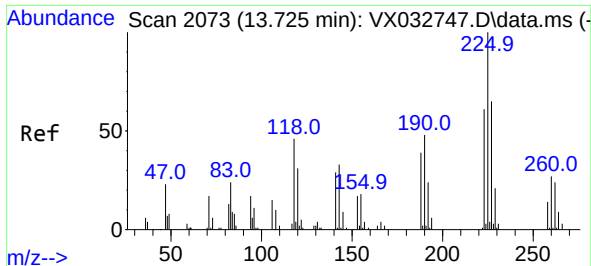
Tgt Ion:146 Resp: 5274
Ion Ratio Lower Upper
146 100
111 40.7 18.9 56.5
148 68.3 31.6 95.0



#89
1,2,4-Trichlorobenzene
Concen: 0.221 ug/l
RT: 13.585 min Scan# 2050
Delta R.T. -0.006 min
Lab File: VX033094.D
Acq: 28 Nov 2022 17:01

Tgt Ion:180 Resp: 392
Ion Ratio Lower Upper
180 100
182 86.2 75.3 112.9
145 12.5 25.9 38.9#

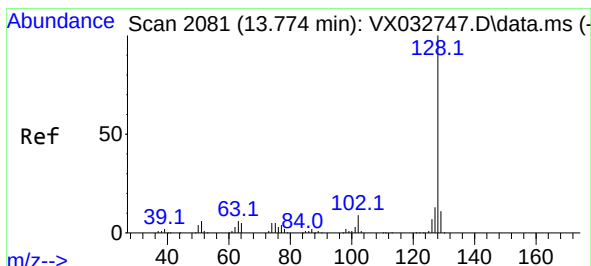
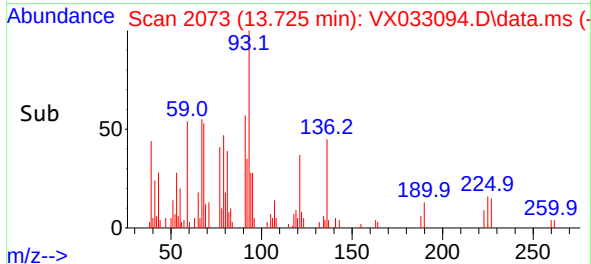
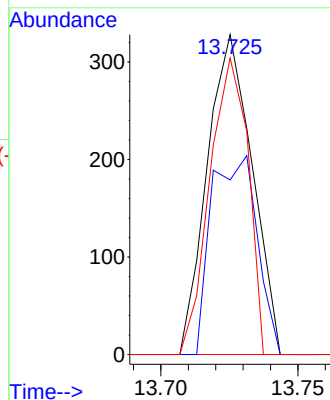
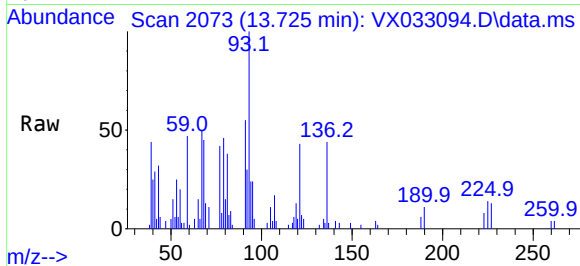




#90
Hexachlorobutadiene
Concen: 0.525 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX033094.D
Acq: 28 Nov 2022 17:01

Instrument :
MSVOA_X
ClientSampleId :
SEMI-ANNUAL-CONDENSATE

Tgt Ion:	225	Resp:	375
Ion	Ratio	Lower	Upper
225	100		
223	63.2	0.0	126.0
227	78.9	0.0	127.6



#91
Naphthalene
Concen: 3.922 ug/l
RT: 13.780 min Scan# 2082
Delta R.T. 0.006 min
Lab File: VX033094.D
Acq: 28 Nov 2022 17:01

Tgt Ion:	128	Resp:	23502
Ion	Ratio	Lower	Upper
128	100		
127	13.4	9.9	14.9
129	10.9	8.4	12.6

