

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU100922\
 Data File : VU051304.D
 Acq On : 09 Oct 2022 16:51
 Operator : JC/MD
 Sample : N5013-03
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BHA40

Quant Time: Oct 10 01:28:16 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR100722WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Mon Oct 10 01:25:26 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.247	114	218008	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.417	117	216302	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.809	152	117827	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.594	65	65524	3.726	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	74.600%
7) Chloroethane-d5	1.909	69	63002	4.170	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	83.400%
11) 1,1-Dichloroethene-d2	2.562	65	26591	3.825	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	76.600%
20) 2-Butanone-d5	4.620	46	232007	59.923	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	119.840%
24) Chloroform-d	5.063	84	146990	4.483	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.600%
26) 1,2-Dichloroethane-d4	5.703	65	80975	4.789	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.800%
32) Benzene-d6	5.726	84	288842	4.854	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.000%
36) 1,2-Dichloropropane-d6	6.690	67	99059	4.902	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	98.000%
41) Toluene-d8	7.899	98	235338	4.421	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	88.400%
43) trans-1,3-Dichloroprop...	8.179	79	36036	5.428	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	108.600%
46) 2-Hexanone-d5	8.632	63	153998	68.821	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	137.640%#
56) 1,1,2,2-Tetrachloroeth...	10.754	84	89549	5.547	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	111.000%
66) 1,2-Dichlorobenzene-d4	12.192	152	104306	5.093	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	101.800%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.600	62	87620	3.577	ug/L	98
8) Chloroethane	1.932	64	151238	9.682	ug/L	99
10) 1,1,2-Trichloro-1,2,2-...	2.568	101	1580	0.093	ug/L #	64
13) Acetone	2.626	43	119222	41.056	ug/L	100
17) Methyl tert-butyl Ether	3.362	73	8878	0.244	ug/L #	1
18) trans-1,2-Dichloroethene	3.356	96	1978	0.118	ug/L	89
19) 1,1-Dichloroethane	3.867	63	53820	1.559	ug/L	97
21) 2-Butanone	4.706	43	42302	9.243	ug/L	96
22) cis-1,2-Dichloroethene	4.665	96	635765	34.316	ug/L	98
27) 1,2-Dichloroethane	5.774	62	143727	6.656	ug/L #	74
29) 1,1,1-Trichloroethane	5.321	97	3025	0.117	ug/L #	89
30) Cyclohexane	5.385	56	13090	0.595	ug/L	96
33) Benzene	5.774	78	17019628	235.692	ug/L	100
35) Methylcyclohexane	6.761	83	11577	0.509	ug/L	90
39) cis-1,3-Dichloropropene	7.565	75	2339	0.098	ug/L	91
40) 4-Methyl-2-pentanone	7.790	43	55651	5.359	ug/L	94
44) trans-1,3-Dichloropropene	7.970	75	169816	8.255	ug/L #	1
49) Dibromochloromethane	8.552	129	1959	0.126	ug/L #	11
51) Chlorobenzene	9.446	112	2638235	57.606	ug/L	99

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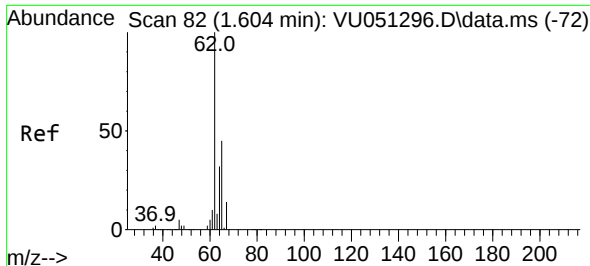
Instrument :
 MSVOA_U
 ClientSampleId :
 BHA40

Quant Time: Oct 10 01:28:16 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR100722WMA.M
 Quant Title : TRACE VOA SFAM1.0
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 Response via : Initial Calibration

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

52) Ethylbenzene	9.568	91	3291300	47.783	ug/L	100
53) m,p-Xylene	9.690	106	3474930	130.079	ug/L	99
54) o-Xylene	10.099	106	1056975	41.816	ug/L	97
55) Styrene	10.099	104	58721	1.350	ug/L #	1
60) Isopropylbenzene	10.484	105	657488	8.810	ug/L	99
61) 1,2,3-Trichloropropane	10.481	75	7958	0.535	ug/L #	1
62) 1,3,5-Trimethylbenzene	11.086	105	201730	10.190	ug/L	99
63) 1,2,4-Trimethylbenzene	11.465	105	904153	16.149	ug/L	100
64) 1,3-Dichlorobenzene	11.745	146	21258	0.576	ug/L	97
65) 1,4-Dichlorobenzene	11.835	146	112327	3.087	ug/L	99
67) 1,2-Dichlorobenzene	12.211	146	134755	3.755	ug/L	99
70) 1,2,4-trichlorobenzene	13.841	180	3020	0.167	ug/L #	89
71) Naphthalene	14.086	128	503120	14.967	ug/L	98

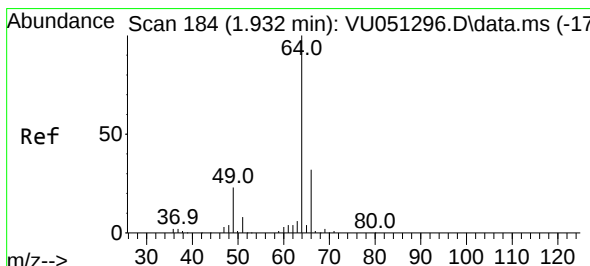
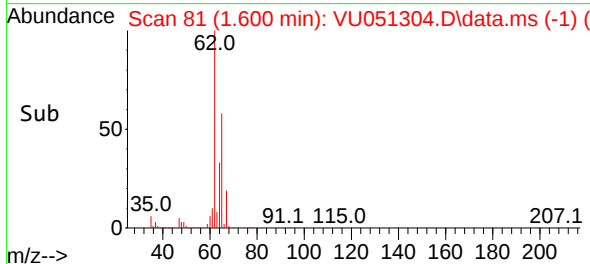
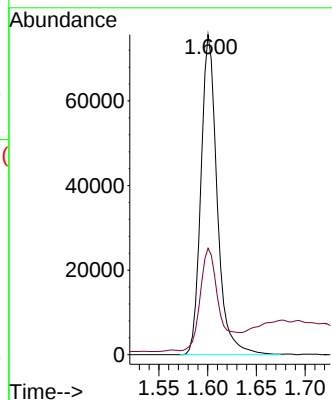
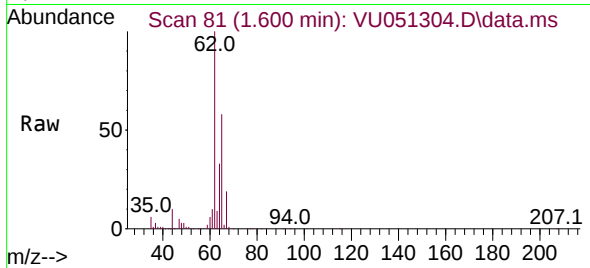
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#5
 Vinyl chloride
 Concen: 3.577 ug/L
 RT: 1.600 min Scan# 81
 Delta R.T. -0.003 min
 Lab File: VU051304.D
 Acq: 09 Oct 2022 16:51

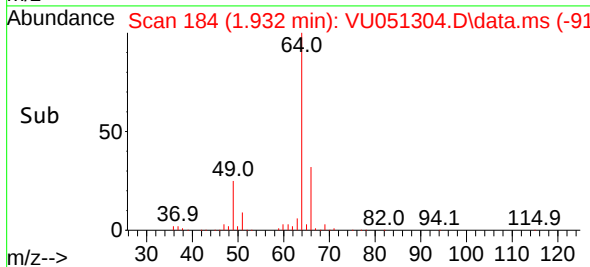
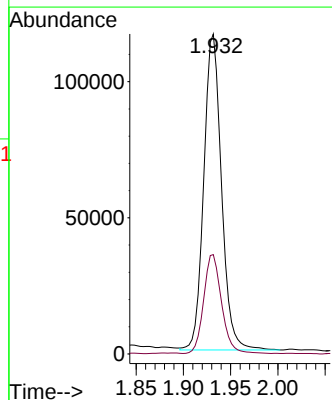
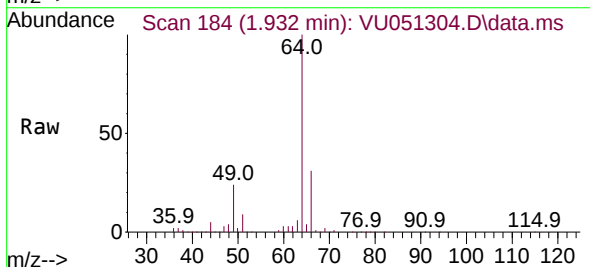
Instrument :
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 ClientSampleId :
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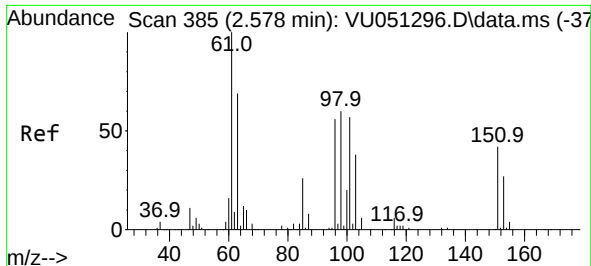
Tgt Ion: 62 Resp: 87620
 Ion Ratio Lower Upper
 62 100
 64 33.2 24.0 44.6



#8
 Chloroethane
 Concen: 9.682 ug/L
 RT: 1.932 min Scan# 184
 Delta R.T. -0.000 min
 Lab File: VU051304.D
 Acq: 09 Oct 2022 16:51

Tgt Ion: 64 Resp: 151238
 Ion Ratio Lower Upper
 64 100
 66 31.0 22.3 41.3

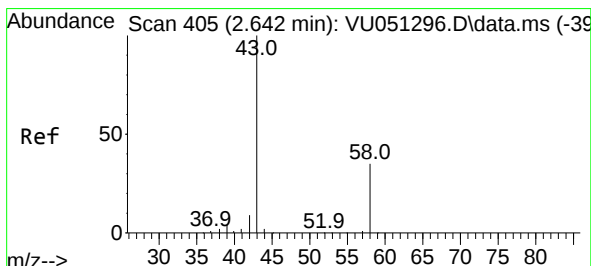
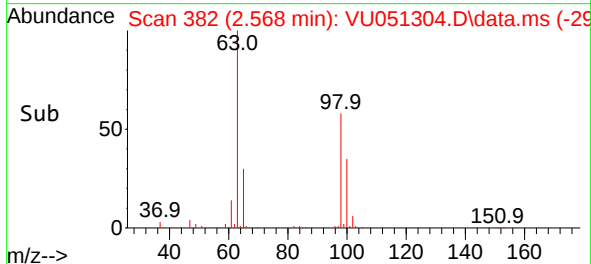
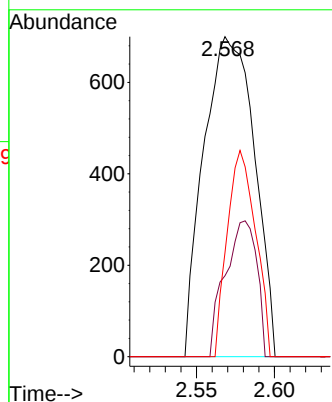
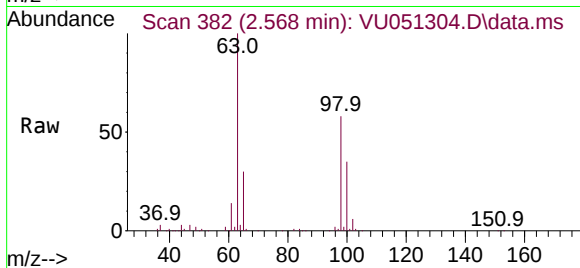




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.093 ug/L
RT: 2.568 min Scan# 31
Delta R.T. -0.010 min
Lab File: VU051304.D
Acq: 09 Oct 2022 16:51

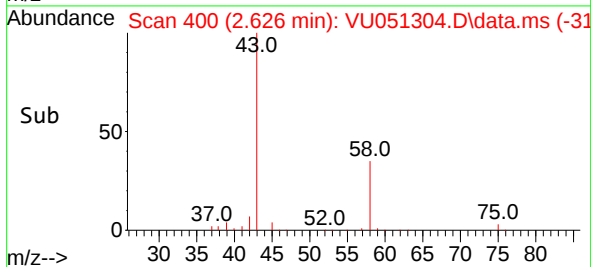
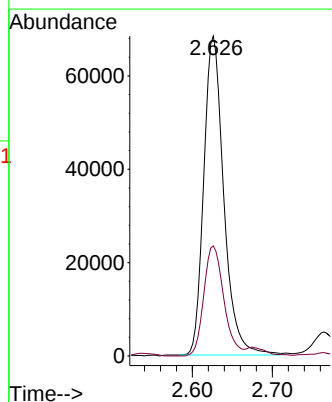
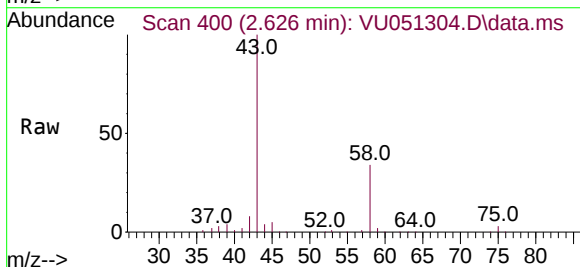
Instrument :
MSVOA_U
ClientSampleId :
BHA40

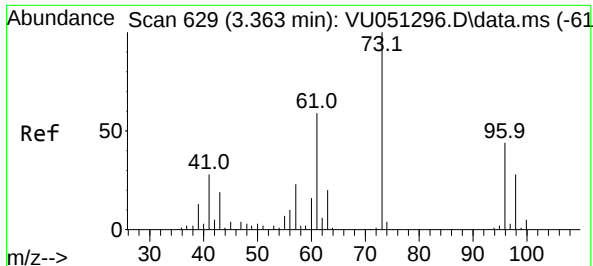
Tgt Ion:101 Resp: 1580
Ion Ratio Lower Upper
101 100
85 26.5 34.6 51.8#
151 36.1 56.5 84.7#



#13
Acetone
Concen: 41.056 ug/L
RT: 2.626 min Scan# 400
Delta R.T. -0.016 min
Lab File: VU051304.D
Acq: 09 Oct 2022 16:51

Tgt Ion: 43 Resp: 119222
Ion Ratio Lower Upper
43 100
58 34.5 0.0 68.8





#17

Methyl tert-butyl Ether

Concen: 0.244 ug/L

RT: 3.362 min Scan# 61

Delta R.T. -0.000 min

Lab File: VU051304.D

Acq: 09 Oct 2022 16:51

Instrument :

MSVOA_U

ClientSampleId :

BHA40

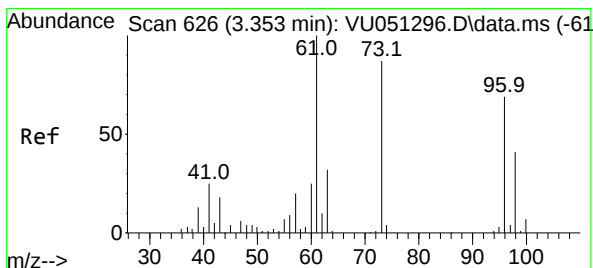
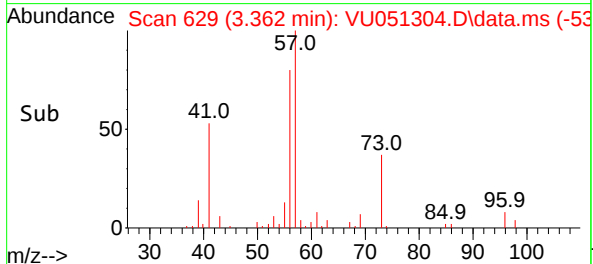
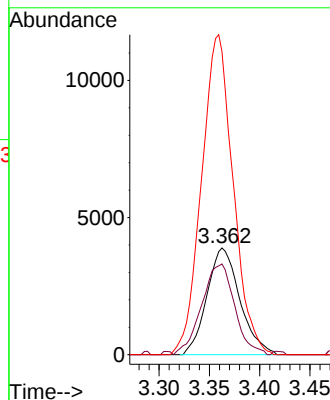
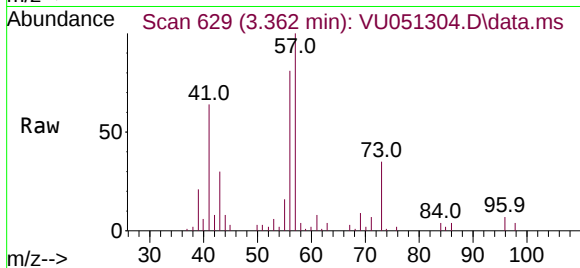
Tgt Ion: 73 Resp: 8878

Ion Ratio Lower Upper

73 100

43 84.7 15.4 23.0#

57 286.9 18.9 28.3#



#18

trans-1,2-Dichloroethene

Concen: 0.118 ug/L

RT: 3.356 min Scan# 627

Delta R.T. 0.003 min

Lab File: VU051304.D

Acq: 09 Oct 2022 16:51

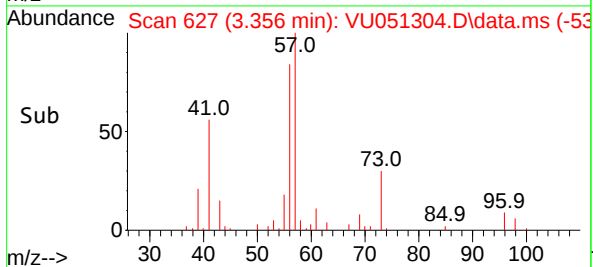
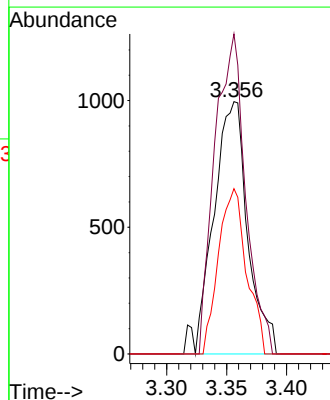
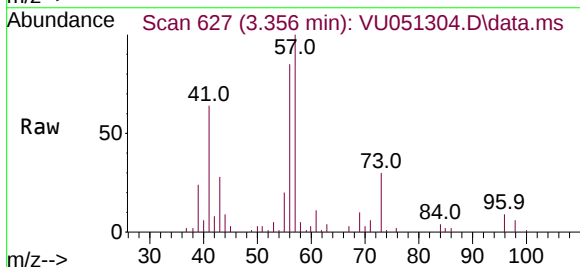
Tgt Ion: 96 Resp: 1978

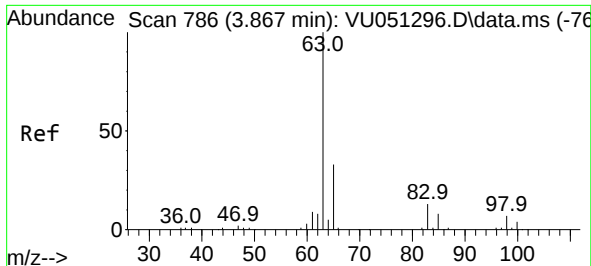
Ion Ratio Lower Upper

96 100

61 126.8 101.4 188.2

98 65.5 44.9 83.5





#19

1,1-Dichloroethane

Concen: 1.559 ug/L

RT: 3.867 min Scan# 786

Delta R.T. -0.000 min

Lab File: VU051304.D

Acq: 09 Oct 2022 16:51

Instrument :

MSVOA_U

ClientSampleId :

BHA40

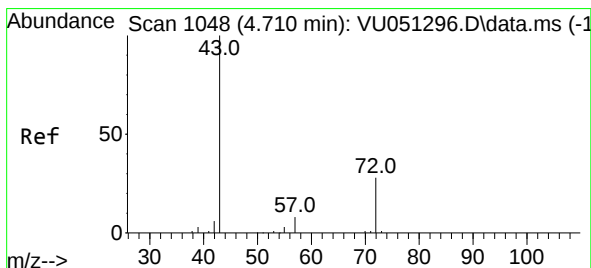
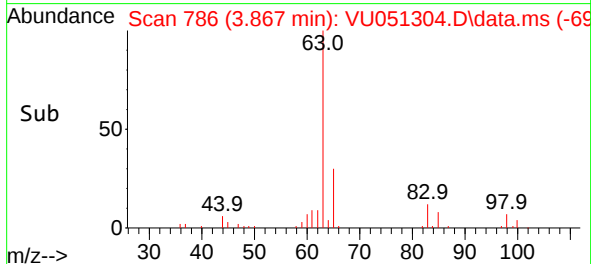
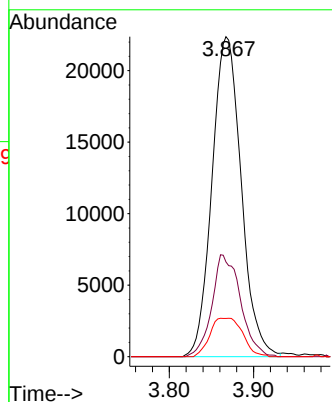
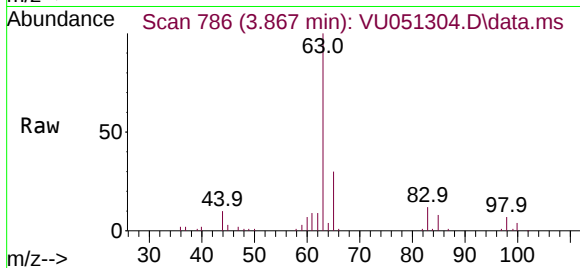
Tgt Ion: 63 Resp: 53820

Ion Ratio Lower Upper

63 100

65 29.6 22.0 41.0

83 12.0 9.0 16.6



#21

2-Butanone

Concen: 9.243 ug/L

RT: 4.706 min Scan# 1047

Delta R.T. -0.003 min

Lab File: VU051304.D

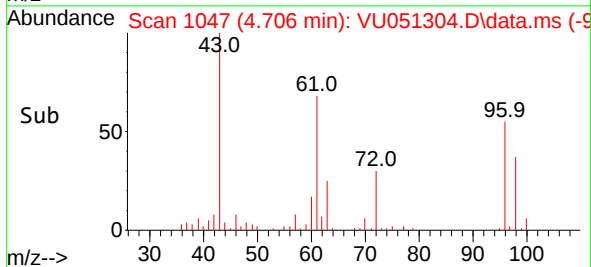
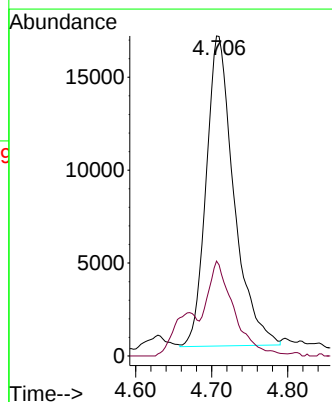
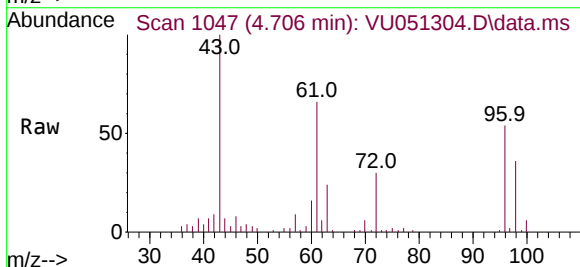
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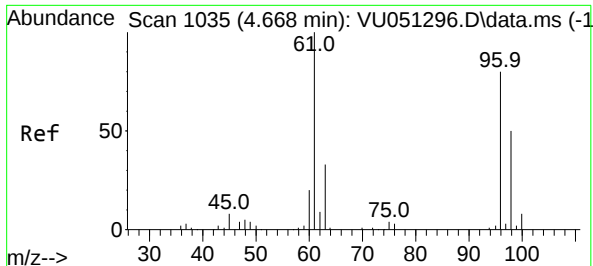
Tgt Ion: 43 Resp: 42302

Ion Ratio Lower Upper

43 100

72 29.8 13.8 41.4

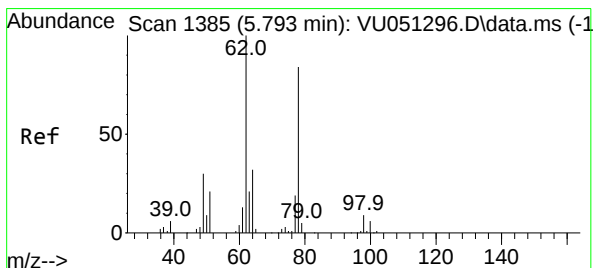
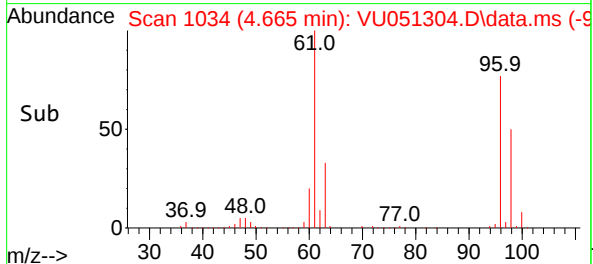
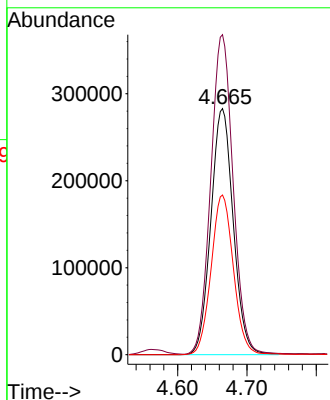
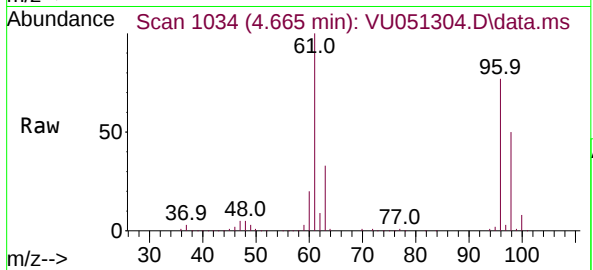




#22
 cis-1,2-Dichloroethene
 Concen: 34.316 ug/L
 RT: 4.665 min Scan# 1034
 Delta R.T. -0.003 min
 Lab File: VU051304.D
 Acq: 09 Oct 2022 16:51

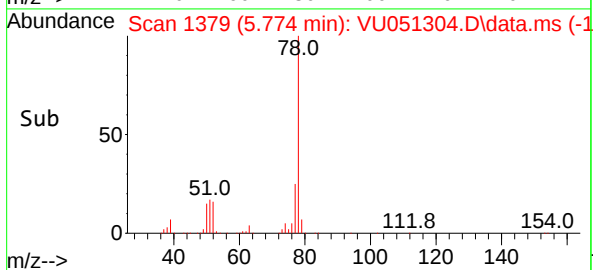
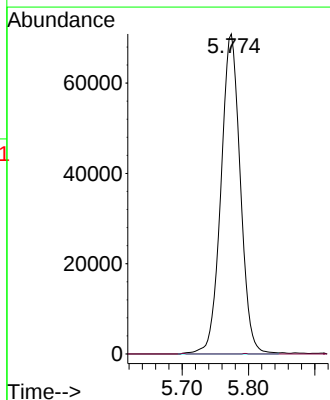
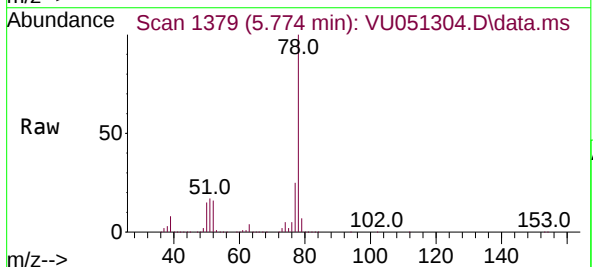
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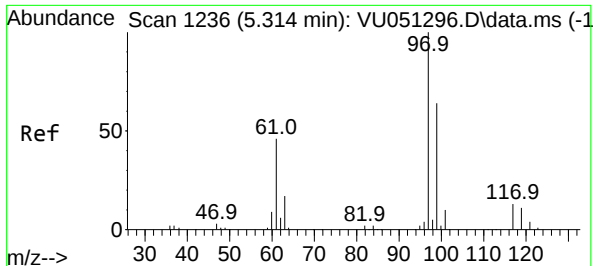
Tgt Ion: 96 Resp: 635765
 Ion Ratio Lower Upper
 96 100
 61 130.0 90.6 168.2
 98 64.9 47.5 88.3



#27
 1,2-Dichloroethane
 Concen: 6.656 ug/L
 RT: 5.774 min Scan# 1379
 Delta R.T. -0.019 min
 Lab File: VU051304.D
 Acq: 09 Oct 2022 16:51

Tgt Ion: 62 Resp: 143727
 Ion Ratio Lower Upper
 62 100
 98 0.0 7.7 11.5#





#29

1,1,1-Trichloroethane

Concen: 0.117 ug/L

RT: 5.321 min Scan# 1

Delta R.T. 0.006 min

Lab File: VU051304.D

Acq: 09 Oct 2022 16:51

Instrument :

MSVOA_U

ClientSampleId :

BHA40

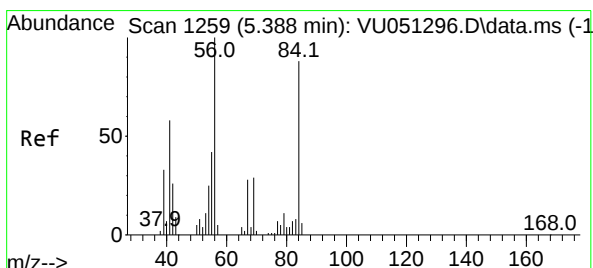
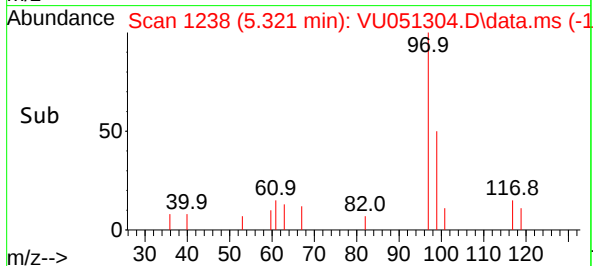
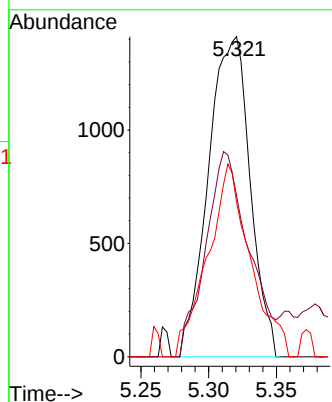
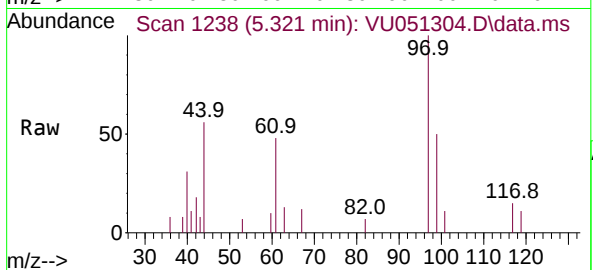
Tgt Ion: 97 Resp: 3025

Ion Ratio Lower Upper

97 100

99 66.2 50.2 75.4

61 61.3 38.7 58.1#



#30

Cyclohexane

Concen: 0.595 ug/L

RT: 5.385 min Scan# 1258

Delta R.T. -0.003 min

Lab File: VU051304.D

Acq: 09 Oct 2022 16:51

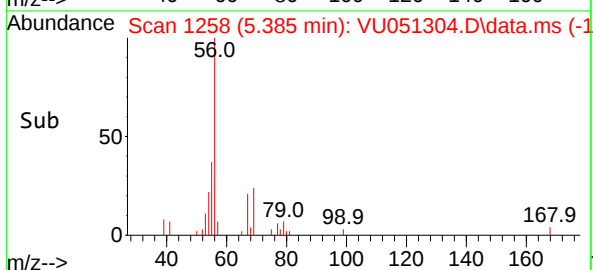
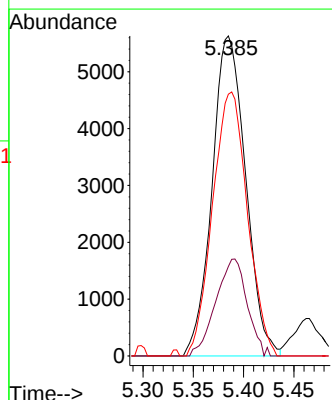
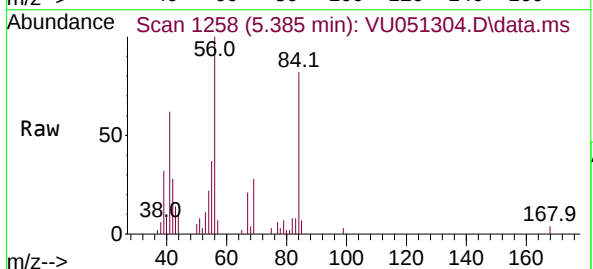
Tgt Ion: 56 Resp: 13090

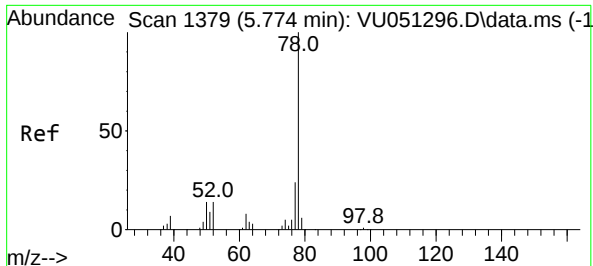
Ion Ratio Lower Upper

56 100

69 28.3 25.1 37.7

84 85.4 70.9 106.3

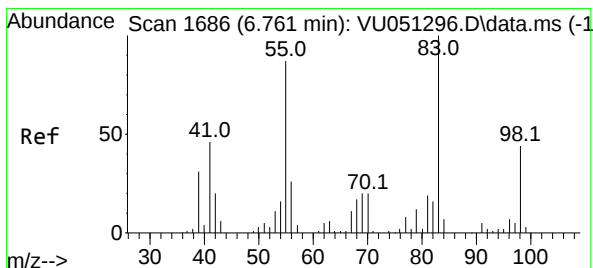
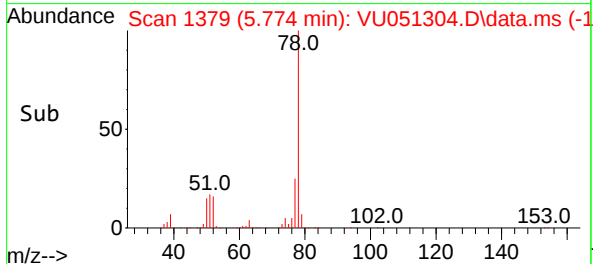
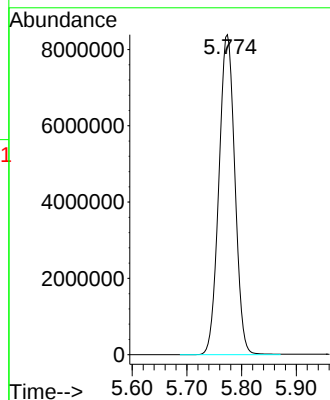
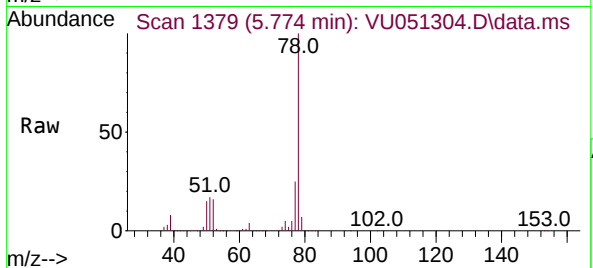




#33
Benzene
Concen: 235.692 ug/L
RT: 5.774 min Scan# 1379
Delta R.T. -0.000 min
Lab File: VU051304.D
Acq: 09 Oct 2022 16:51

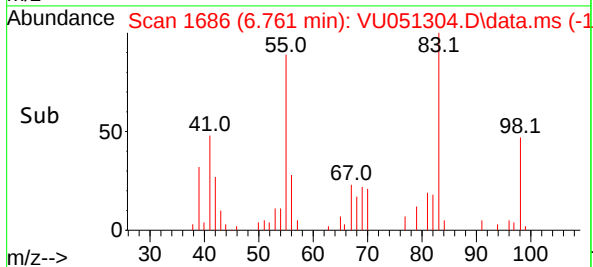
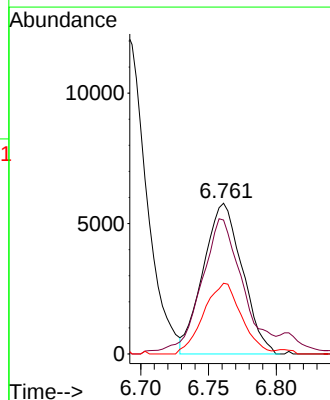
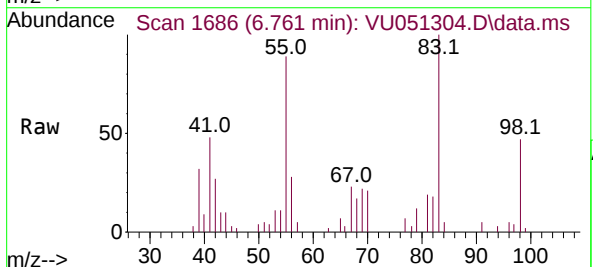
Instrument :
MSVOA_U
ClientSampleId :
BHA40

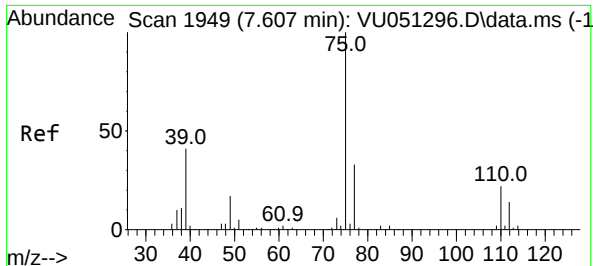
Tgt Ion: 78 Resp:17019628



#35
Methylcyclohexane
Concen: 0.509 ug/L
RT: 6.761 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VU051304.D
Acq: 09 Oct 2022 16:51

Tgt Ion: 83 Resp: 11577
Ion Ratio Lower Upper
83 100
55 95.4 65.8 98.6
98 45.6 35.9 53.9





#39

cis-1,3-Dichloropropene

Concen: 0.098 ug/L

RT: 7.565 min Scan# 1949

Delta R.T. -0.042 min

Lab File: VU051304.D

Acq: 09 Oct 2022 16:51

Instrument :

MSVOA_U

ClientSampleId :

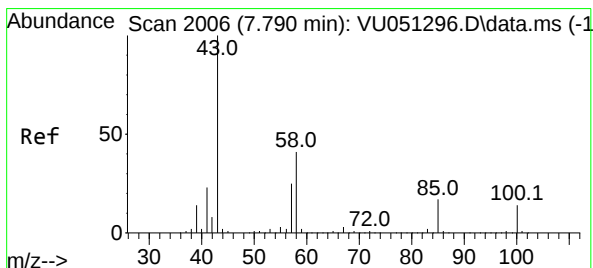
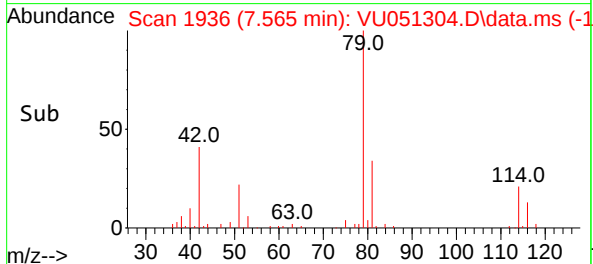
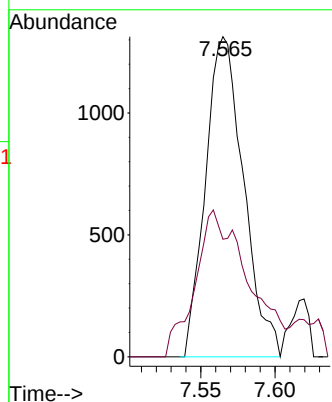
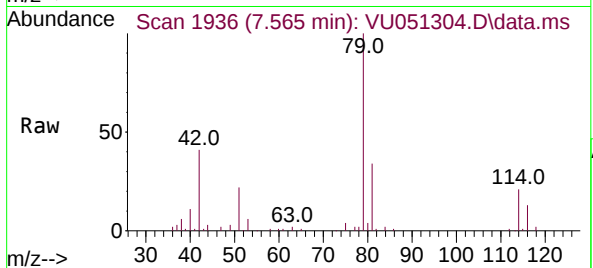
BHA40

Tgt Ion: 75 Resp: 2339

Ion Ratio Lower Upper

75 100

77 36.7 22.0 41.0



#40

4-Methyl-2-pentanone

Concen: 5.359 ug/L

RT: 7.790 min Scan# 2006

Delta R.T. -0.000 min

Lab File: VU051304.D

Acq: 09 Oct 2022 16:51

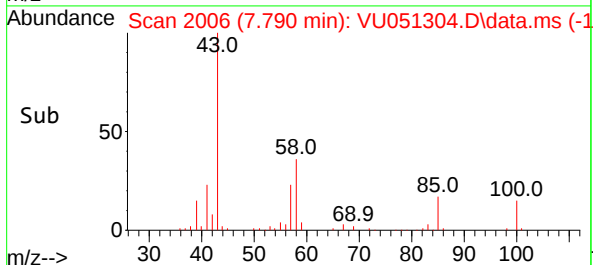
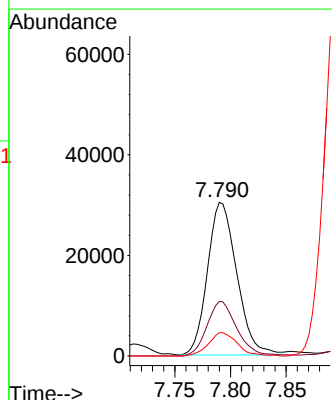
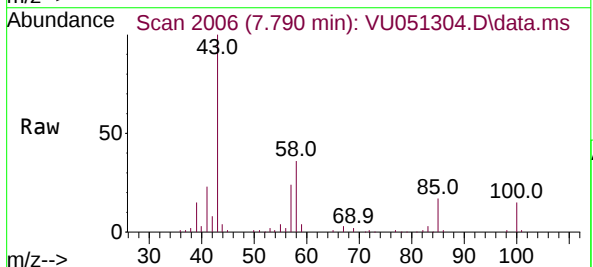
Tgt Ion: 43 Resp: 55651

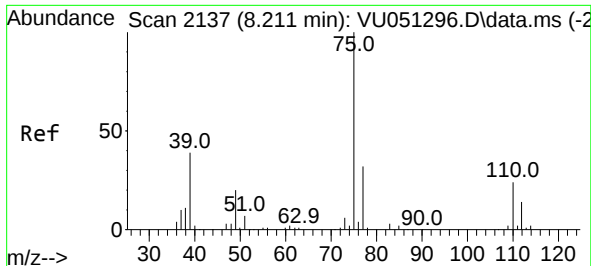
Ion Ratio Lower Upper

43 100

58 36.5 33.0 49.6

100 15.0 11.8 17.6

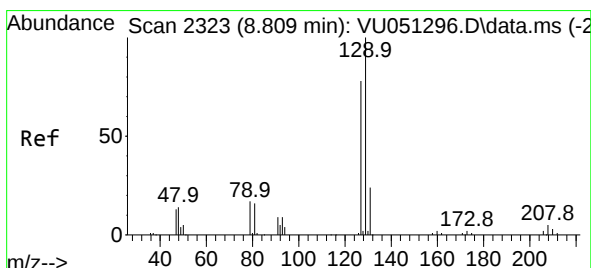
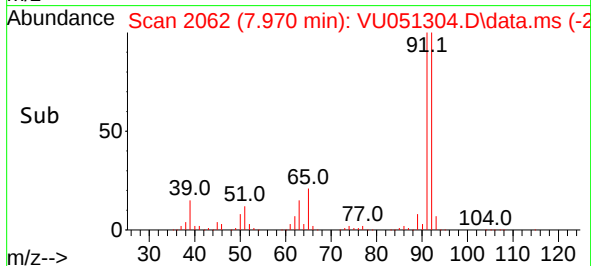
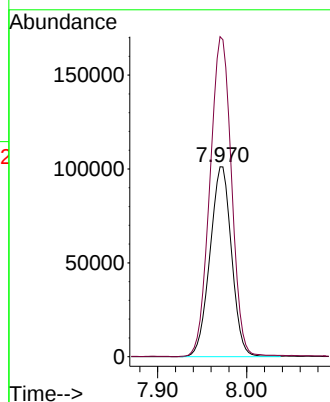
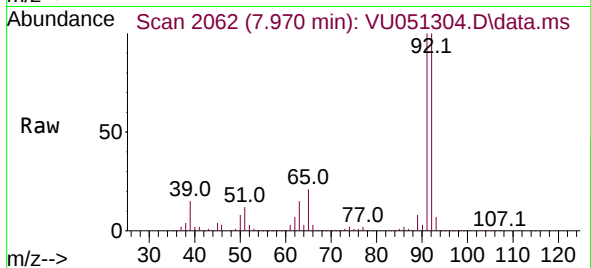




#44
trans-1,3-Dichloropropene
Concen: 8.255 ug/L
RT: 7.970 min Scan# 2062
Delta R.T. -0.241 min
Lab File: VU051304.D
Acq: 09 Oct 2022 16:51

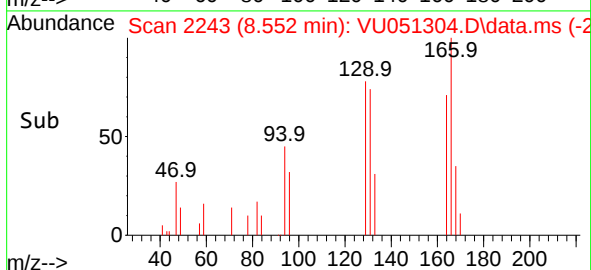
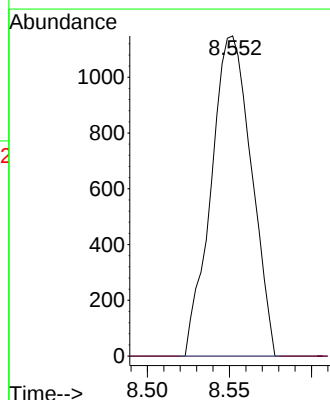
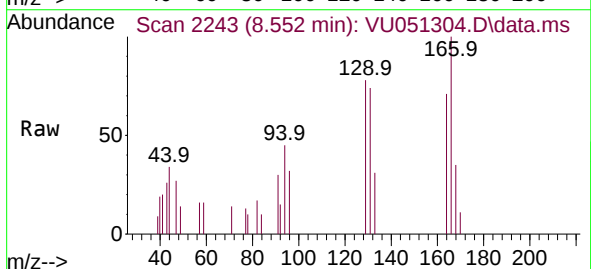
Instrument :
MSVOA_U
ClientSampleId :
BHA40

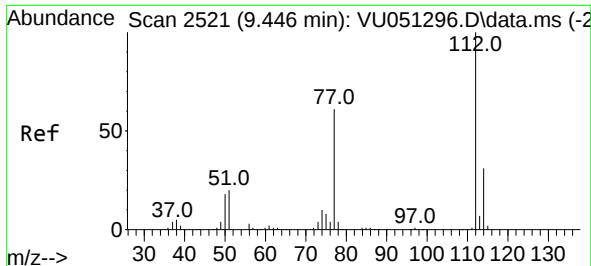
Tgt Ion: 75 Resp: 169816
Ion Ratio Lower Upper
75 100
77 168.6 21.8 40.6#



#49
Dibromochloromethane
Concen: 0.126 ug/L
RT: 8.552 min Scan# 2243
Delta R.T. -0.257 min
Lab File: VU051304.D
Acq: 09 Oct 2022 16:51

Tgt Ion:129 Resp: 1959
Ion Ratio Lower Upper
129 100
127 0.0 53.5 99.3#

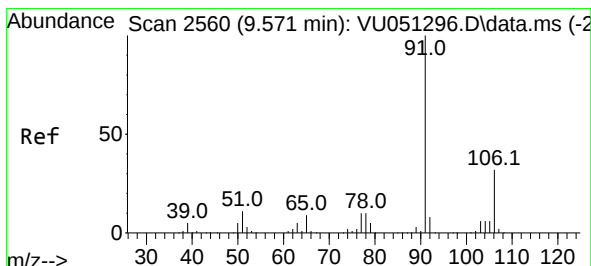
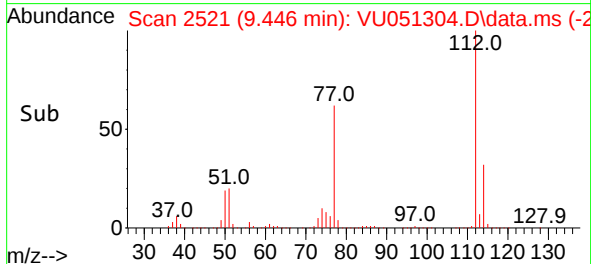
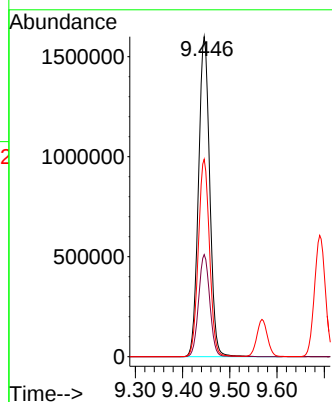
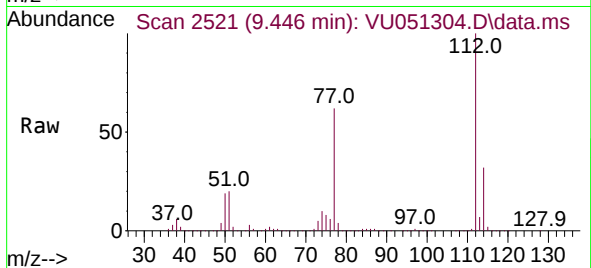




#51
Chlorobenzene
Concen: 57.606 ug/L
RT: 9.446 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU051304.D
Acq: 09 Oct 2022 16:51

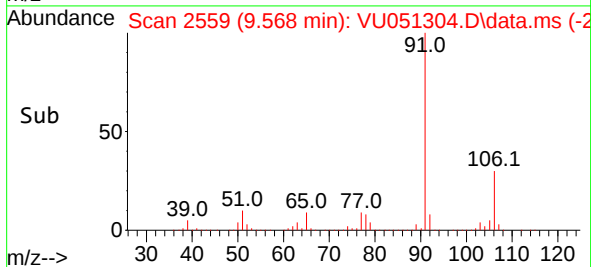
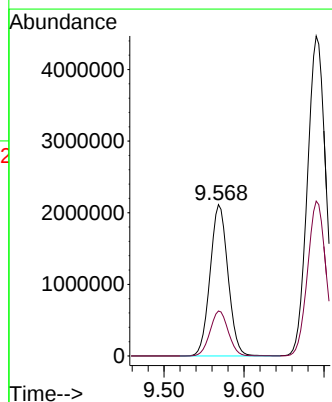
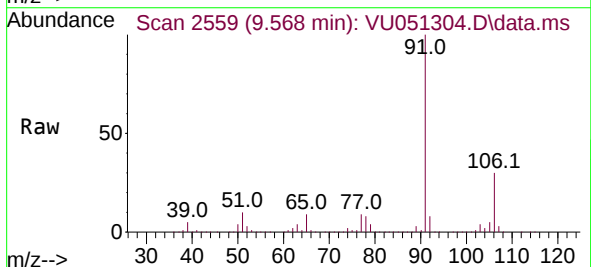
Instrument :
MSVOA_U
ClientSampleId :
BHA40

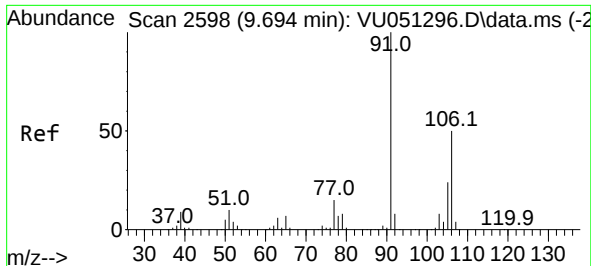
Tgt Ion:112 Resp: 2638235
Ion Ratio Lower Upper
112 100
114 31.9 22.3 41.5
77 61.7 48.1 72.1



#52
Ethylbenzene
Concen: 47.783 ug/L
RT: 9.568 min Scan# 2559
Delta R.T. -0.003 min
Lab File: VU051304.D
Acq: 09 Oct 2022 16:51

Tgt Ion: 91 Resp: 3291300
Ion Ratio Lower Upper
91 100
106 29.7 20.9 38.7

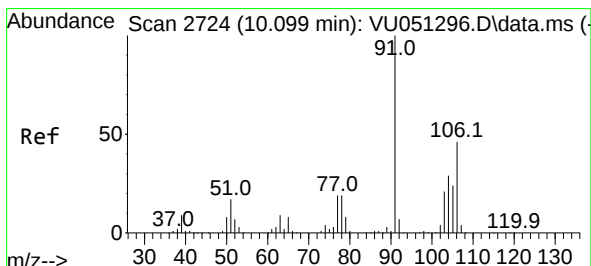
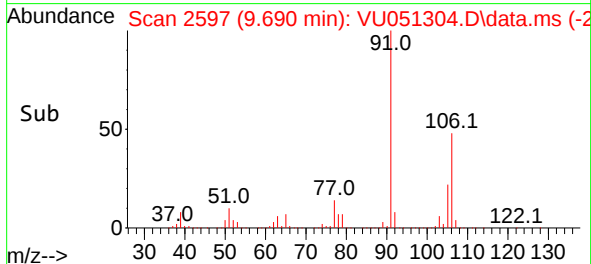
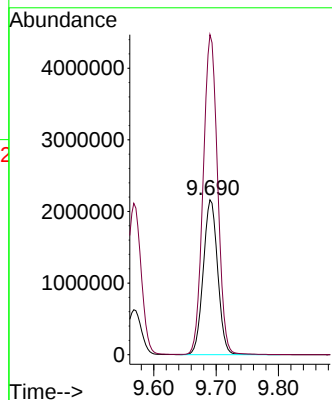
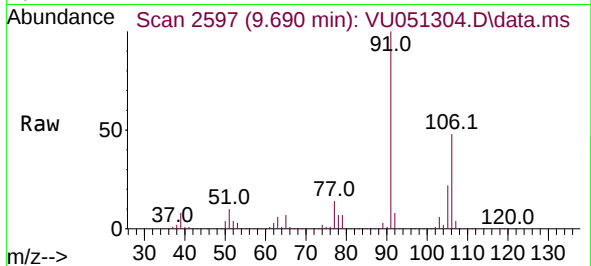




#53
m,p-Xylene
Concen: 130.079 ug/L
RT: 9.690 min Scan# 2598
Delta R.T. -0.003 min
Lab File: VU051304.D
Acq: 09 Oct 2022 16:51

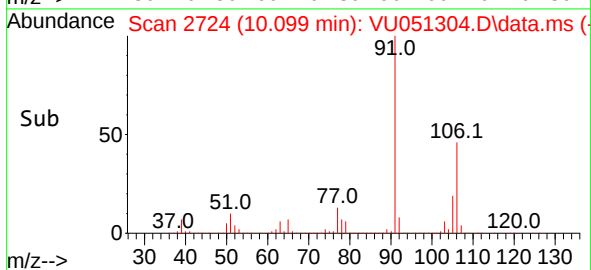
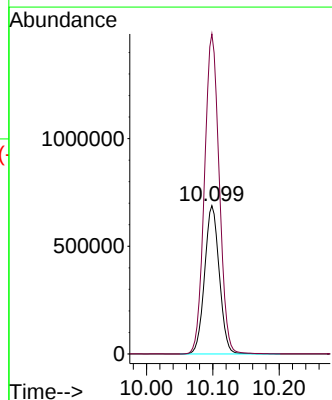
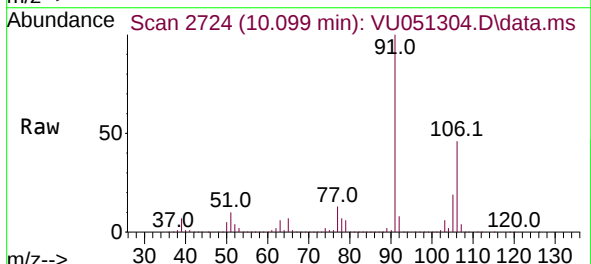
Instrument :
MSVOA_U
ClientSampleId :
BHA40

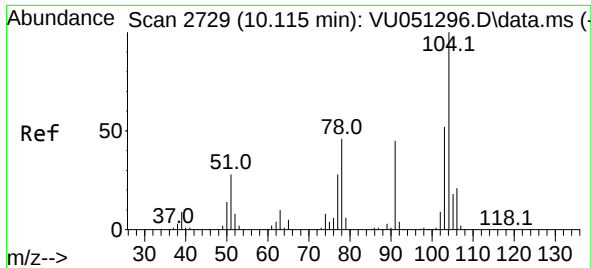
Tgt Ion:106 Resp: 3474930
Ion Ratio Lower Upper
106 100
91 206.7 143.9 267.3



#54
o-Xylene
Concen: 41.816 ug/L
RT: 10.099 min Scan# 2724
Delta R.T. -0.000 min
Lab File: VU051304.D
Acq: 09 Oct 2022 16:51

Tgt Ion:106 Resp: 1056975
Ion Ratio Lower Upper
106 100
91 215.7 154.4 286.8

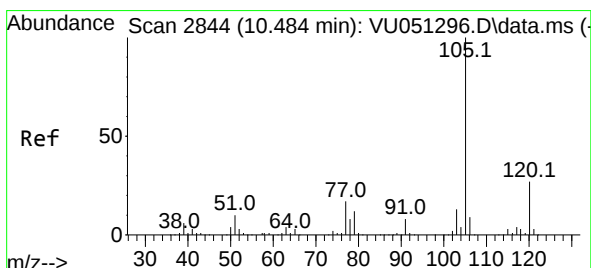
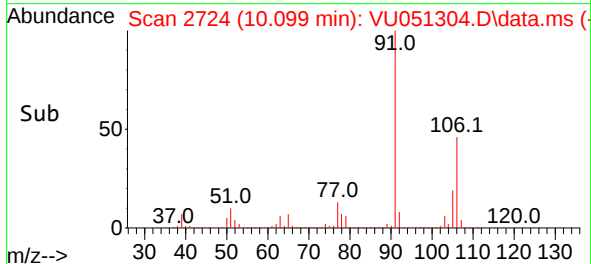
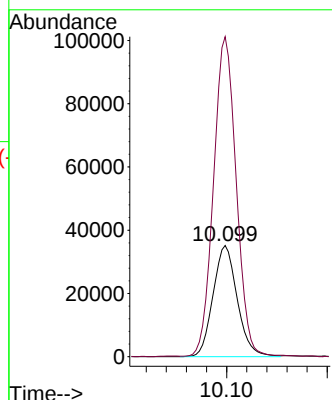
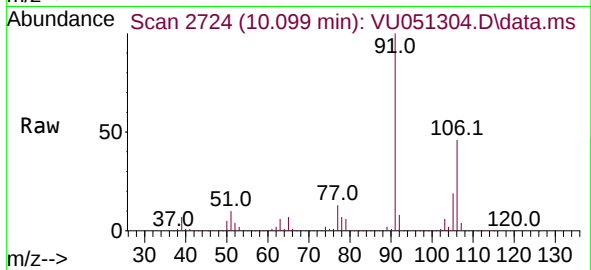




#55
Styrene
Concen: 1.350 ug/L
RT: 10.099 min Scan# 21
Delta R.T. -0.016 min
Lab File: VU051304.D
Acq: 09 Oct 2022 16:51

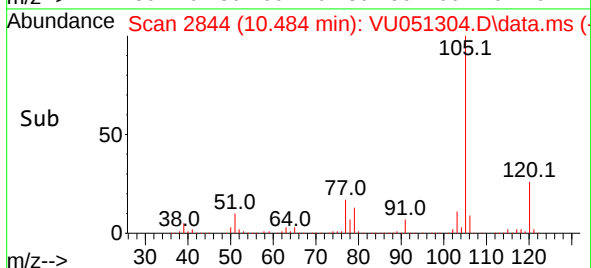
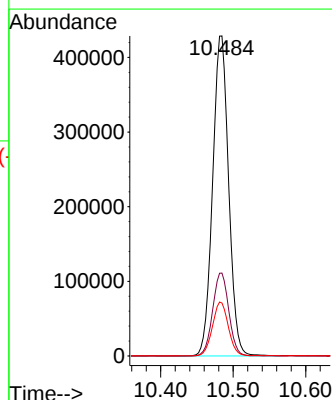
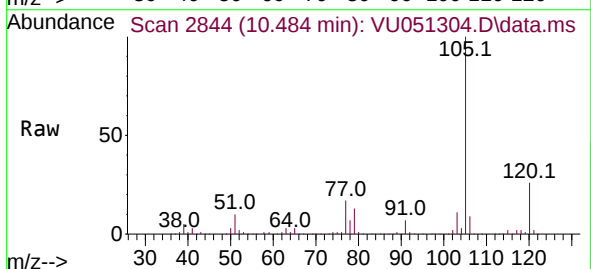
Instrument :
MSVOA_U
ClientSampleId :
BHA40

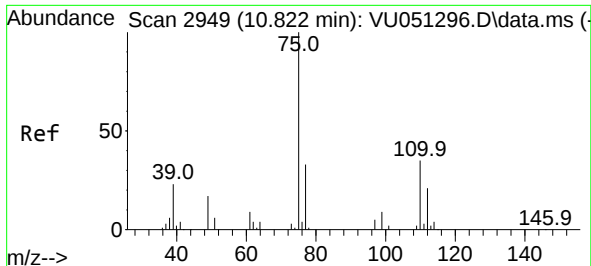
Tgt Ion:104 Resp: 58721
Ion Ratio Lower Upper
104 100
78 287.8 32.1 59.7#



#60
Isopropylbenzene
Concen: 8.810 ug/L
RT: 10.484 min Scan# 2844
Delta R.T. -0.000 min
Lab File: VU051304.D
Acq: 09 Oct 2022 16:51

Tgt Ion:105 Resp: 657488
Ion Ratio Lower Upper
105 100
120 26.2 20.6 30.8
77 16.7 13.5 20.3

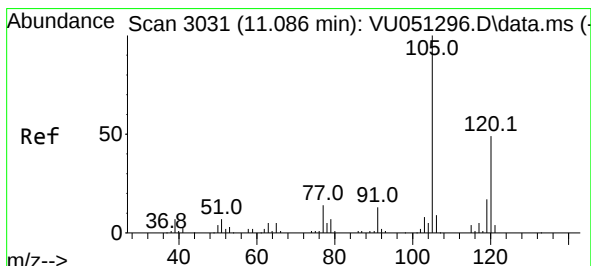
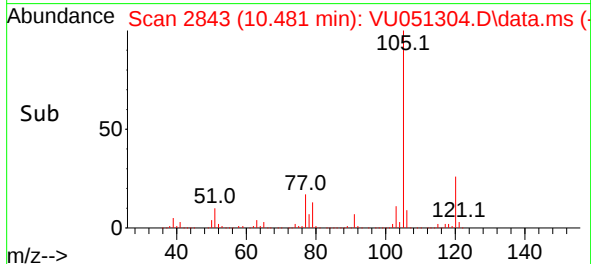
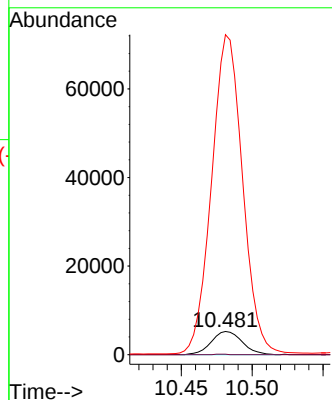
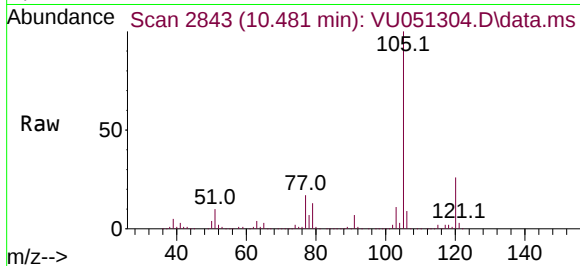




#61
1,2,3-Trichloropropane
Concen: 0.535 ug/L
RT: 10.481 min Scan# 21
Delta R.T. -0.341 min
Lab File: VU051304.D
Acq: 09 Oct 2022 16:51

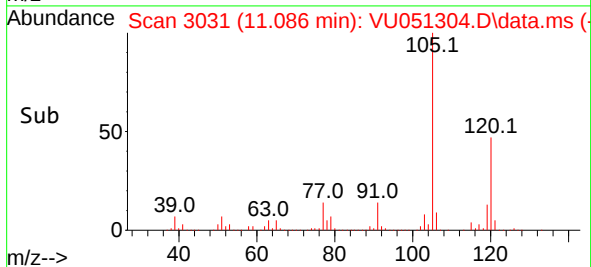
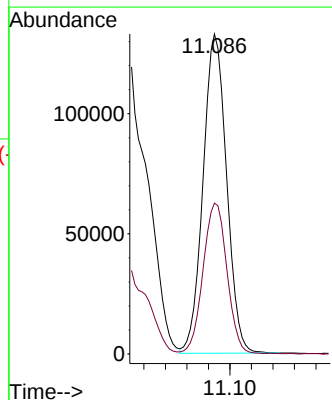
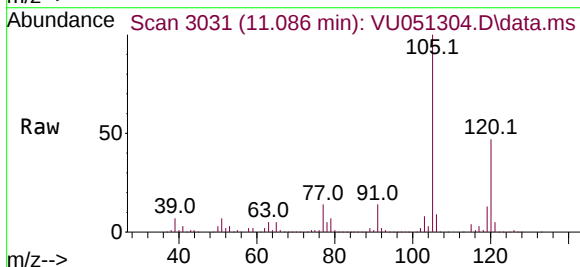
Instrument :
MSVOA_U
ClientSampleId :
BHA40

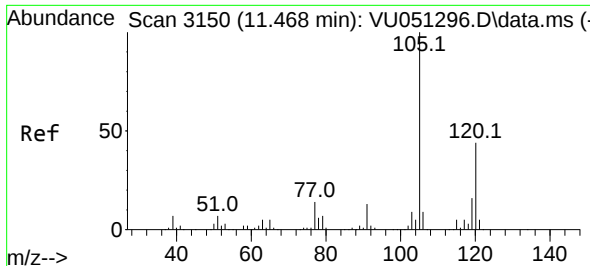
Tgt Ion: 75 Resp: 7958
Ion Ratio Lower Upper
75 100
110 0.0 27.0 40.6#
77 1378.9 26.4 39.6#



#62
1,3,5-Trimethylbenzene
Concen: 10.190 ug/L
RT: 11.086 min Scan# 3031
Delta R.T. -0.000 min
Lab File: VU051304.D
Acq: 09 Oct 2022 16:51

Tgt Ion: 105 Resp: 201730
Ion Ratio Lower Upper
105 100
120 48.0 37.7 56.5

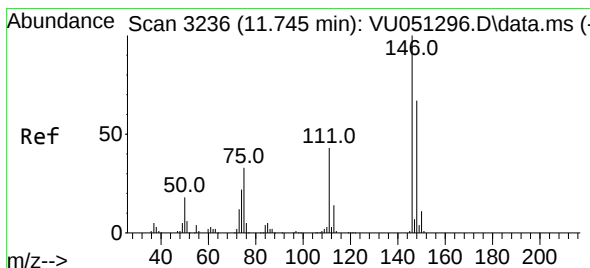
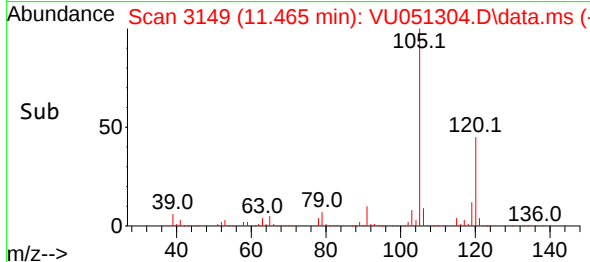
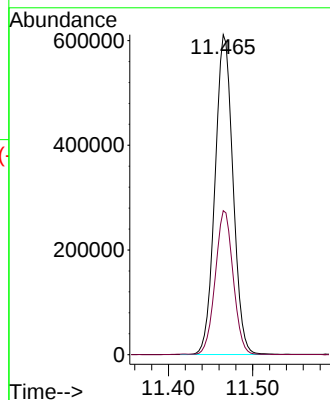
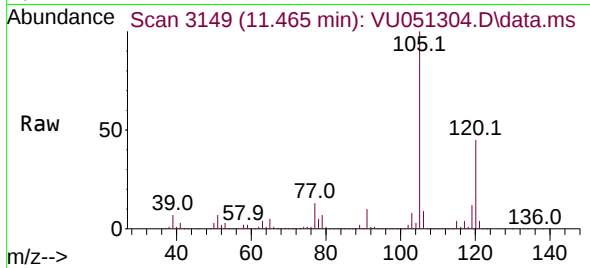




#63
1,2,4-Trimethylbenzene
Concen: 16.149 ug/L
RT: 11.465 min Scan# 3150
Delta R.T. -0.003 min
Lab File: VU051304.D
Acq: 09 Oct 2022 16:51

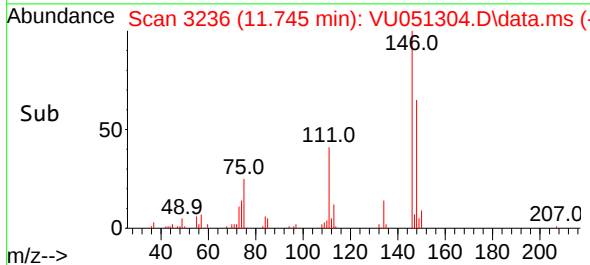
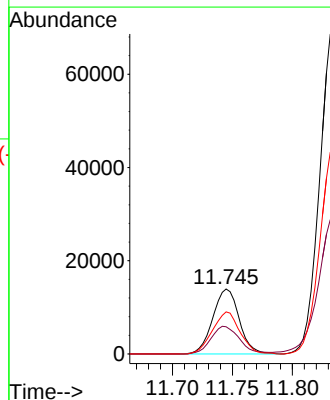
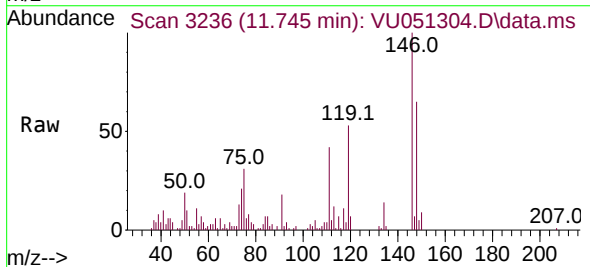
Instrument :
MSVOA_U
ClientSampleId :
BHA40

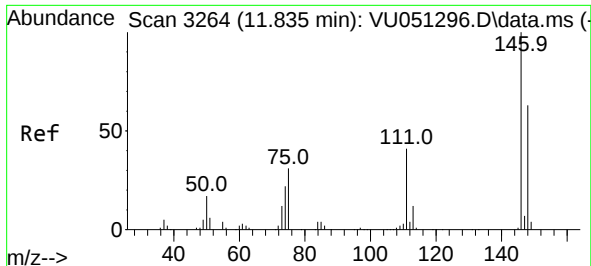
Tgt Ion:105 Resp: 904153
Ion Ratio Lower Upper
105 100
120 44.6 35.6 53.4



#64
1,3-Dichlorobenzene
Concen: 0.576 ug/L
RT: 11.745 min Scan# 3236
Delta R.T. -0.000 min
Lab File: VU051304.D
Acq: 09 Oct 2022 16:51

Tgt Ion:146 Resp: 21258
Ion Ratio Lower Upper
146 100
111 41.9 28.3 52.7
148 64.8 43.8 81.4

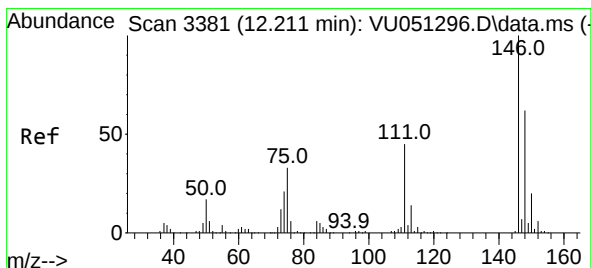
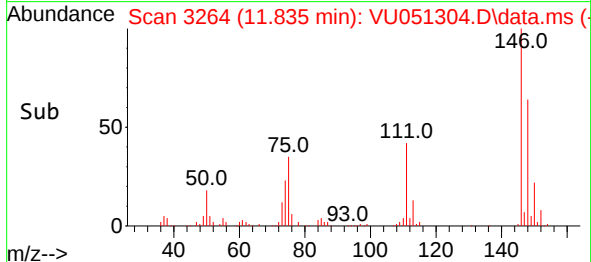
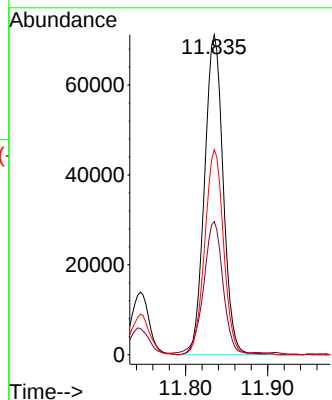
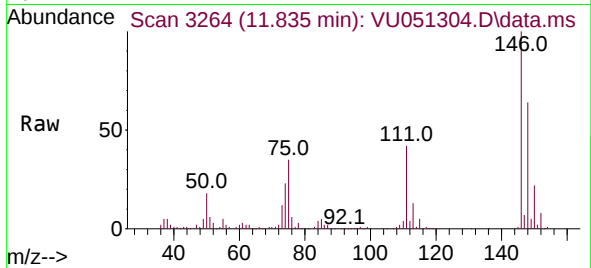




#65
 1,4-Dichlorobenzene
 Concen: 3.087 ug/L
 RT: 11.835 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: VU051304.D
 Acq: 09 Oct 2022 16:51

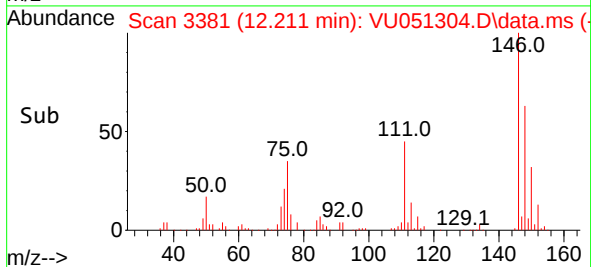
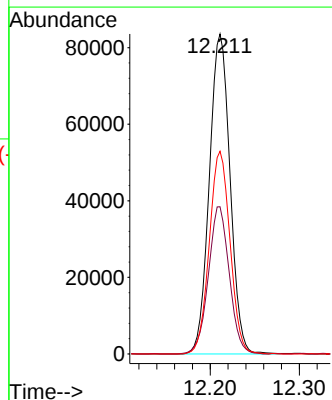
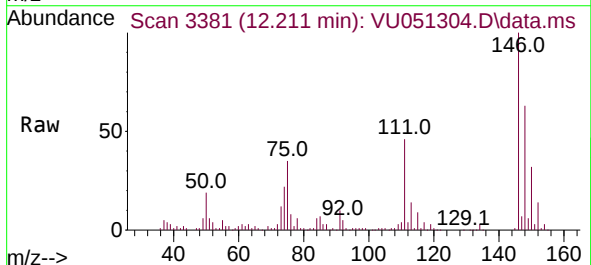
Instrument :
 MSVOA_U
 ClientSampleId :
 BHA40

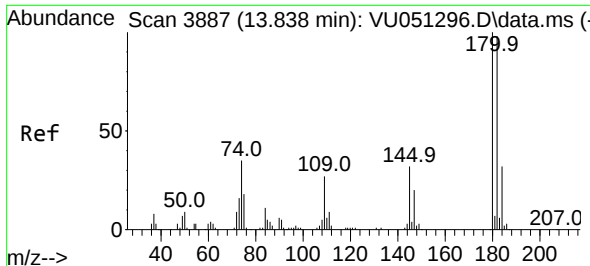
Tgt Ion:146 Resp: 112327
 Ion Ratio Lower Upper
 146 100
 111 41.6 29.1 54.1
 148 64.1 44.2 82.0



#67
 1,2-Dichlorobenzene
 Concen: 3.755 ug/L
 RT: 12.211 min Scan# 3381
 Delta R.T. -0.000 min
 Lab File: VU051304.D
 Acq: 09 Oct 2022 16:51

Tgt Ion:146 Resp: 134755
 Ion Ratio Lower Upper
 146 100
 111 46.0 35.5 53.3
 148 63.3 50.9 76.3

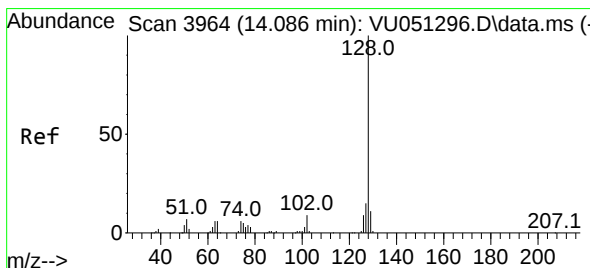
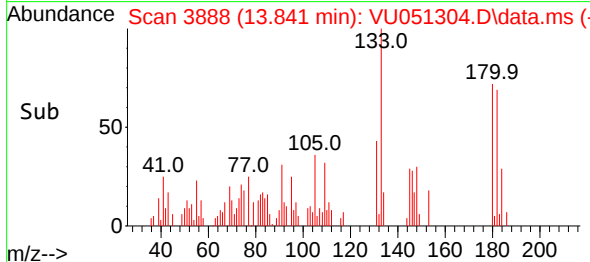
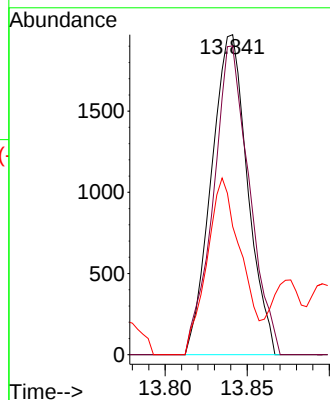
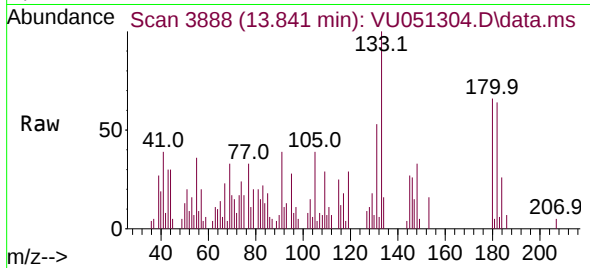




#70
1,2,4-trichlorobenzene
Concen: 0.167 ug/L
RT: 13.841 min Scan# 3888
Delta R.T. 0.003 min
Lab File: VU051304.D
Acq: 09 Oct 2022 16:51

Instrument :
MSVOA_U
ClientSampleId :
BHA40

Tgt Ion:180 Resp: 3020
Ion Ratio Lower Upper
180 100
182 96.2 78.7 118.1
145 52.2 25.0 37.4#



#71
Naphthalene
Concen: 14.967 ug/L
RT: 14.086 min Scan# 3964
Delta R.T. -0.000 min
Lab File: VU051304.D
Acq: 09 Oct 2022 16:51

Tgt Ion:128 Resp: 503120
Ion Ratio Lower Upper
128 100
129 11.1 8.5 12.7
127 13.1 11.1 16.7

