

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU091624\
 Data File : VU060805.D
 Acq On : 17 Sep 2024 02:18
 Operator : MD/SY
 Sample : P3973-06
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Sep 17 06:35:31 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR091624WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Tue Sep 17 02:49:32 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.258	114	163942	5.000	ug/L	0.02
28) Chlorobenzene-d5	9.418	117	191162	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.804	152	112094	5.000	ug/L	0.00

System Monitoring Compounds						
4) Vinyl Chloride-d3	1.589	65	24446	1.658	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	33.200%#
7) Chloroethane-d5	1.911	69	29002	2.762	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	55.200%#
11) 1,1-Dichloroethene-d2	2.560	65	12122	2.319	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	46.400%#
20) 2-Butanone-d5	4.721	46	80471	33.994	ug/L	0.09
Spiked Amount	50.000	Range	40 - 130	Recovery	=	67.980%
24) Chloroform-d	5.075	84	72136	3.200	ug/L	0.02
Spiked Amount	5.000	Range	70 - 125	Recovery	=	64.000%#
26) 1,2-Dichloroethane-d4	5.718	65	38130	3.539	ug/L	0.02
Spiked Amount	5.000	Range	70 - 130	Recovery	=	70.800%
32) Benzene-d6	5.734	84	142013	2.772	ug/L	0.01
Spiked Amount	5.000	Range	70 - 125	Recovery	=	55.400%#
36) 1,2-Dichloropropane-d6	6.698	67	50947	3.214	ug/L	0.02
Spiked Amount	5.000	Range	60 - 140	Recovery	=	64.200%
41) Toluene-d8	7.927	98	58692	1.256	ug/L	0.04
Spiked Amount	5.000	Range	70 - 130	Recovery	=	25.200%#
43) trans-1,3-Dichloroprop...	8.197	79	14144	2.479	ug/L	0.02
Spiked Amount	5.000	Range	55 - 130	Recovery	=	49.600%#
46) 2-Hexanone-d5	8.644	63	83988	37.312	ug/L	0.02
Spiked Amount	50.000	Range	45 - 130	Recovery	=	74.620%
56) 1,1,2,2-Tetrachloroeth...	10.753	84	50161	4.039	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	80.800%
66) 1,2-Dichlorobenzene-d4	12.187	152	71290	3.785	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	75.600%#

Target Compounds					Qvalue	
5) Vinyl chloride	1.592	62	4510	0.319	ug/L	100
8) Chloroethane	1.930	64	299100	34.602	ug/L	98
12) 1,1-Dichloroethene	2.573	96	17038	1.652	ug/L	94
15) Methyl Acetate	3.001	43	10166	2.640	ug/L	91
19) 1,1-Dichloroethane	3.846	63	1409558	65.699	ug/L	99
22) cis-1,2-Dichloroethene	4.663	96	10200	0.862	ug/L	91
29) 1,1,1-Trichloroethane	5.322	97	488585	23.674	ug/L	99
30) Cyclohexane	5.390	56	204008	12.027	ug/L	98
31) Carbon tetrachloride	5.322	117	68008	3.722	ug/L	99
33) Benzene	5.779	78	157881	3.004	ug/L	100
35) Methylcyclohexane	6.766	83	167643	8.868	ug/L	92
40) 4-Methyl-2-pentanone	8.062	43	3277417	484.571	ug/L #	40
42) Toluene	8.013	91	1618903	29.456	ug/L	89
44) trans-1,3-Dichloropropene	8.033	75	4308159	271.958	ug/L #	1
45) 1,1,2-Trichloroethane	8.373	97	12691	1.214	ug/L #	19
51) Chlorobenzene	9.451	112	6165	0.167	ug/L	86
53) m,p-Xylene	9.573	106	7923443	361.182	ug/L	82
54) o-Xylene	10.103	106	15121204	698.477	ug/L #	29
55) Styrene	10.107	104	752119	20.612	ug/L #	1

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Quant Title : TRACE VOA SFAM1.0
QLast Update : Tue Sep 17 02:49:32 2024
Response via : Initial Calibration

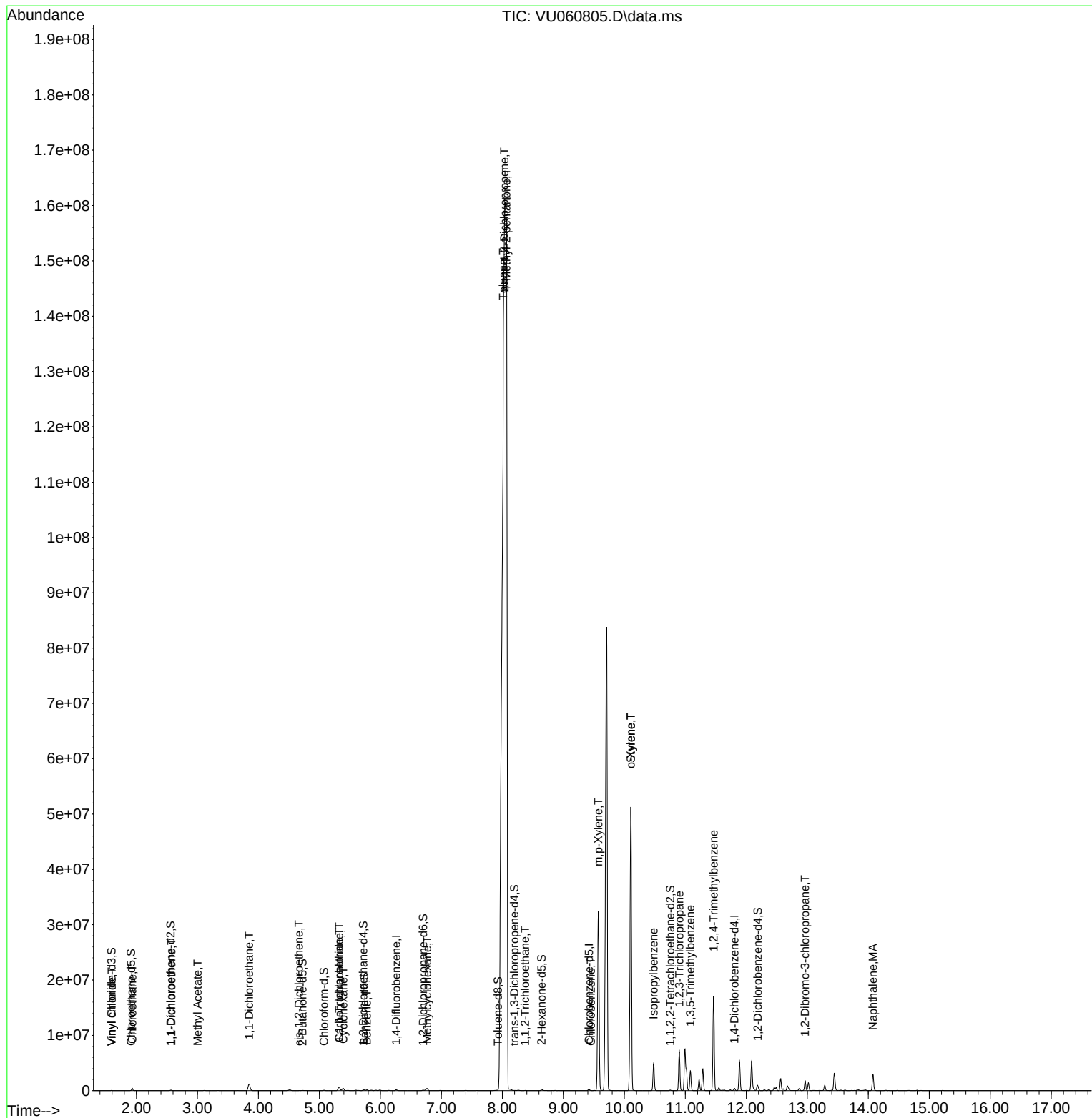
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
60) Isopropylbenzene	10.479	105	3196729	48.122	ug/L	99
61) 1,2,3-Trichloropropane	10.901	75	31926	3.054	ug/L #	43
62) 1,3,5-Trimethylbenzene	11.081	105	1986720	38.481	ug/L	99
63) 1,2,4-Trimethylbenzene	11.463	105	9584416	187.883	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.962	75	6908	3.384	ug/L #	1
71) Naphthalene	14.077	128	2412725	103.937	ug/L	99

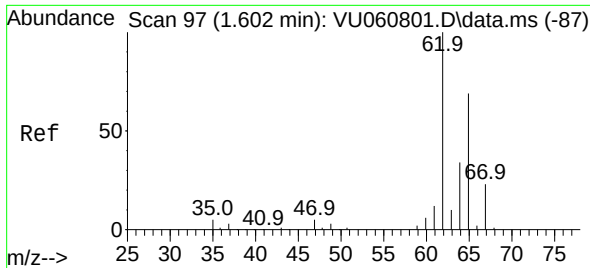
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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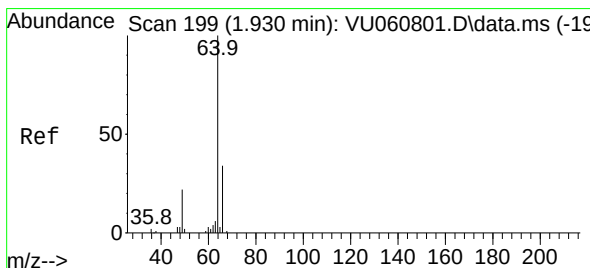
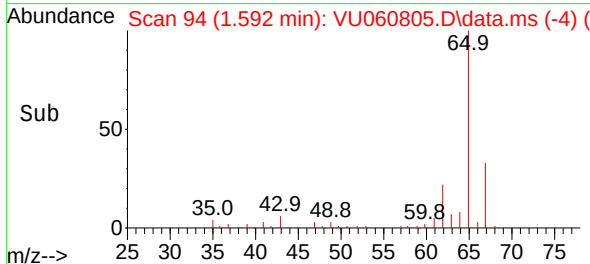
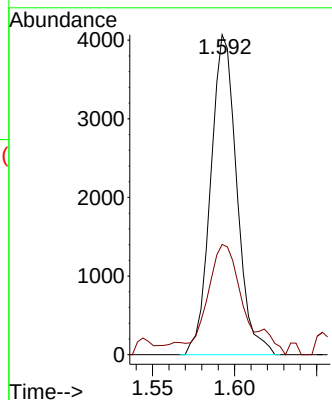
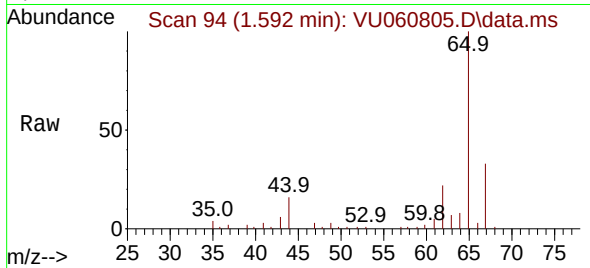




#5
 Vinyl chloride
 Concen: 0.319 ug/L
 RT: 1.592 min Scan# 94
 Delta R.T. -0.010 min
 Lab File: VU060805.D
 Acq: 17 Sep 2024 02:18

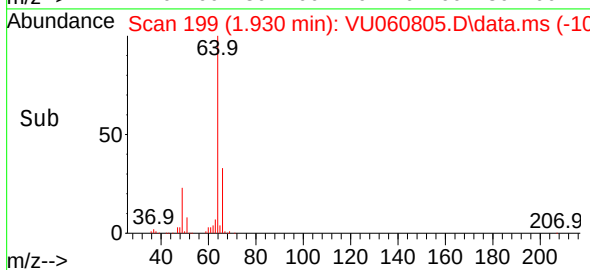
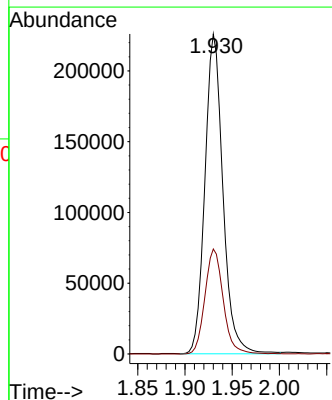
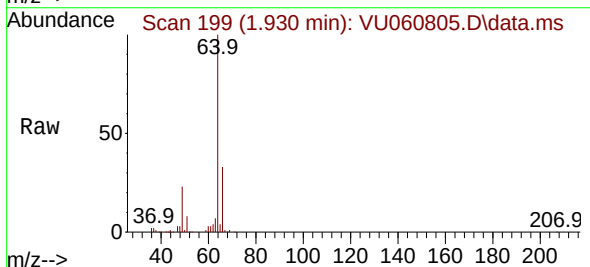
Instrument :
 MSVOA_U
 ClientSampleId :

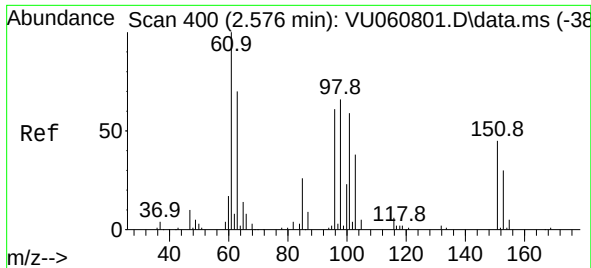
Tgt Ion: 62 Resp: 4510
 Ion Ratio Lower Upper
 62 100
 64 34.4 24.0 44.6



#8
 Chloroethane
 Concen: 34.602 ug/L
 RT: 1.930 min Scan# 199
 Delta R.T. -0.000 min
 Lab File: VU060805.D
 Acq: 17 Sep 2024 02:18

Tgt Ion: 64 Resp: 299100
 Ion Ratio Lower Upper
 64 100
 66 32.8 22.3 41.3

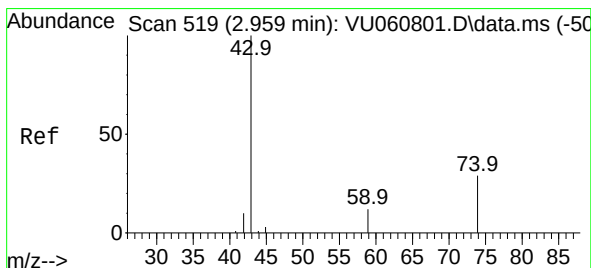
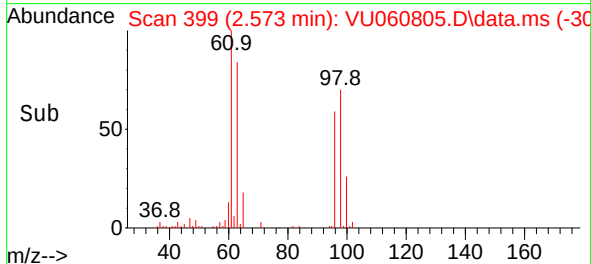
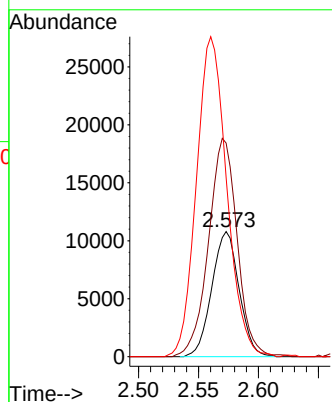
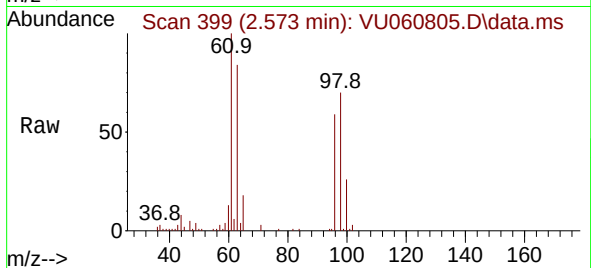




#12
1,1-Dichloroethene
Concen: 1.652 ug/L
RT: 2.573 min Scan# 30
Delta R.T. -0.003 min
Lab File: VU060805.D
Acq: 17 Sep 2024 02:18

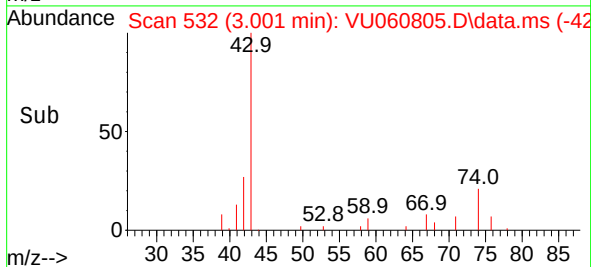
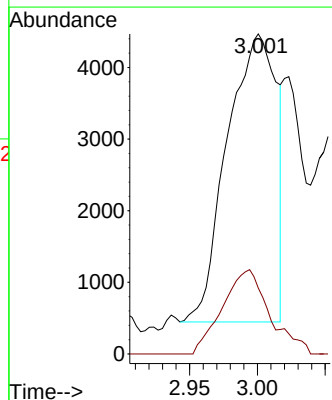
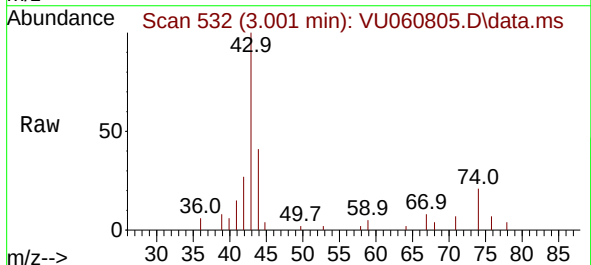
Instrument :
MSVOA_U
ClientSampleId :

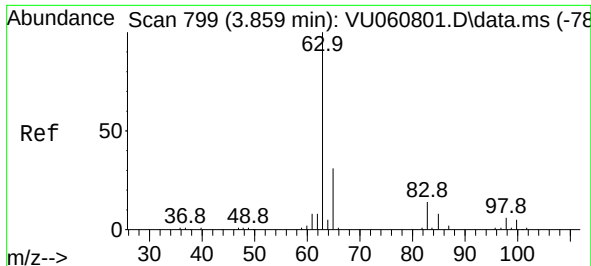
Tgt Ion: 96 Resp: 17038
Ion Ratio Lower Upper
96 100
61 170.6 120.7 224.1
63 143.1 90.0 167.2



#15
Methyl Acetate
Concen: 2.640 ug/L
RT: 3.001 min Scan# 532
Delta R.T. 0.042 min
Lab File: VU060805.D
Acq: 17 Sep 2024 02:18

Tgt Ion: 43 Resp: 10166
Ion Ratio Lower Upper
43 100
74 28.0 18.9 28.3





#19

1,1-Dichloroethane

Concen: 65.699 ug/L

RT: 3.846 min Scan# 799

Delta R.T. -0.013 min

Lab File: VU060805.D

Acq: 17 Sep 2024 02:18

Instrument :

MSVOA_U

ClientSampleId :

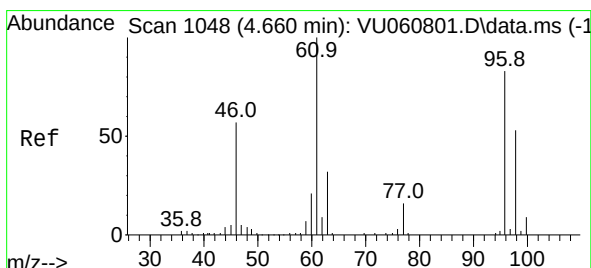
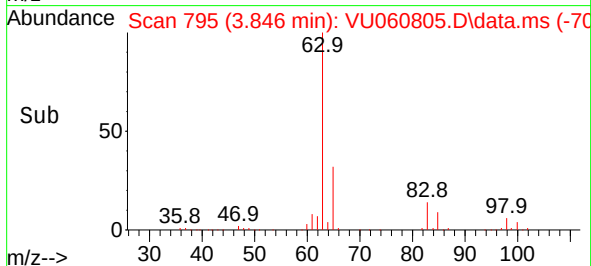
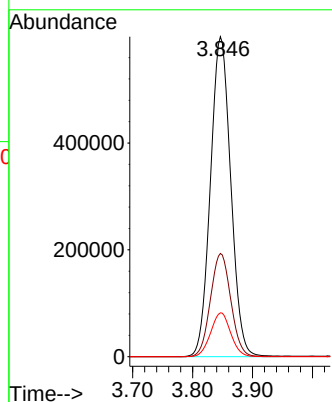
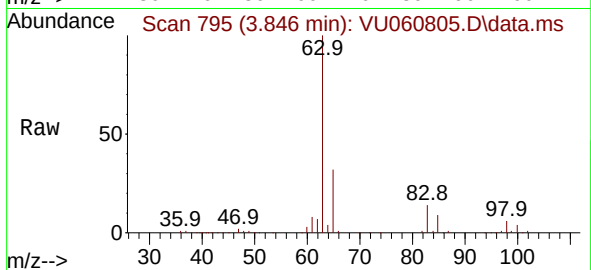
Tgt Ion: 63 Resp: 1409558

Ion Ratio Lower Upper

63 100

65 32.2 23.0 42.8

83 13.7 9.0 16.6



#22

cis-1,2-Dichloroethene

Concen: 0.862 ug/L

RT: 4.663 min Scan# 1049

Delta R.T. 0.003 min

Lab File: VU060805.D

Acq: 17 Sep 2024 02:18

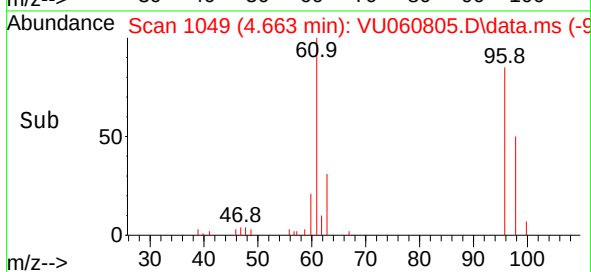
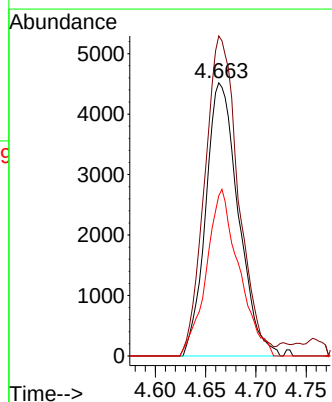
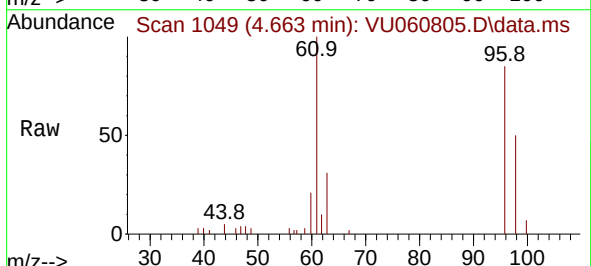
Tgt Ion: 96 Resp: 10200

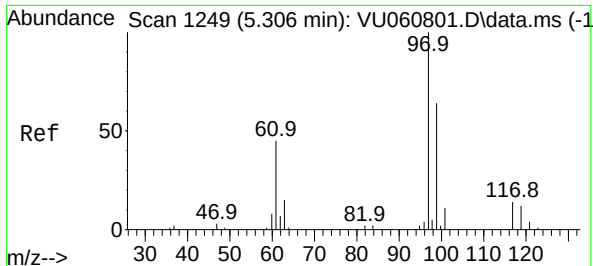
Ion Ratio Lower Upper

96 100

61 117.2 89.7 166.5

98 58.7 45.1 83.9

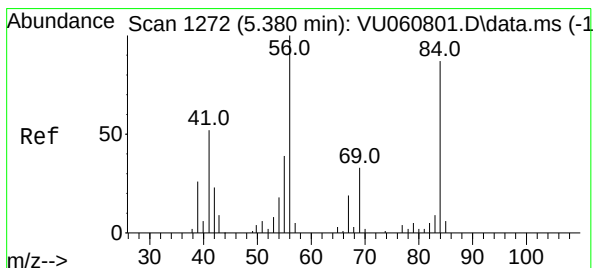
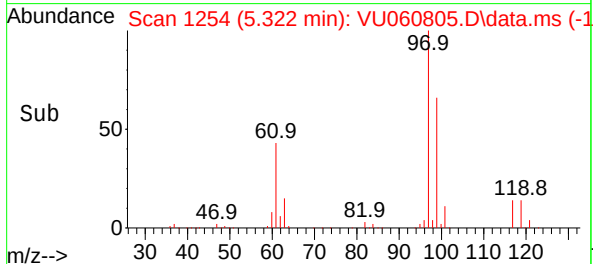
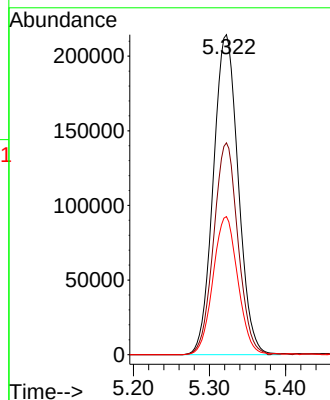
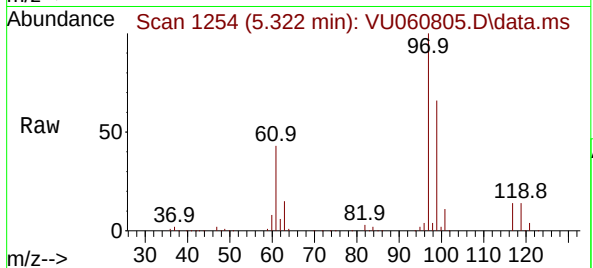




#29
1,1,1-Trichloroethane
Concen: 23.674 ug/L
RT: 5.322 min Scan# 1254
Delta R.T. 0.016 min
Lab File: VU060805.D
Acq: 17 Sep 2024 02:18

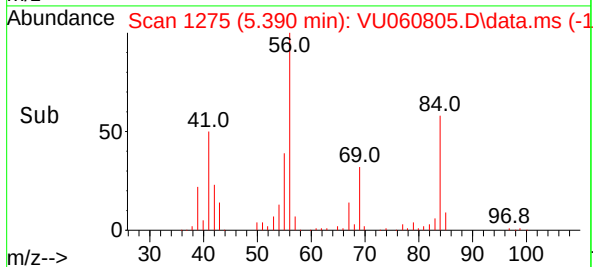
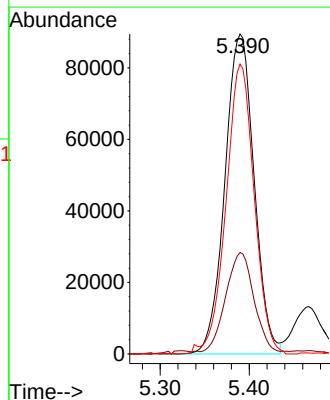
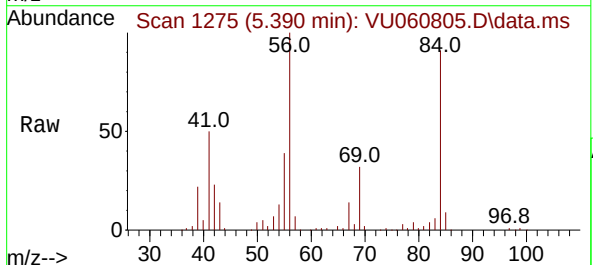
Instrument :
MSVOA_U
ClientSampleId :

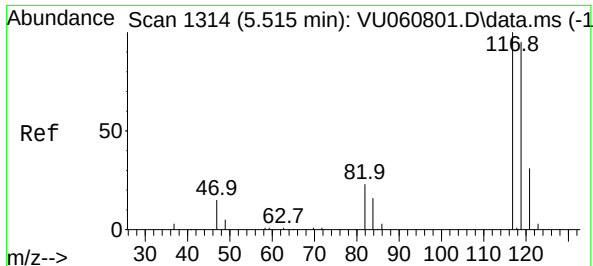
Tgt Ion: 97 Resp: 488585
Ion Ratio Lower Upper
97 100
99 64.7 50.5 75.7
61 43.1 34.4 51.6



#30
Cyclohexane
Concen: 12.027 ug/L
RT: 5.390 min Scan# 1275
Delta R.T. 0.010 min
Lab File: VU060805.D
Acq: 17 Sep 2024 02:18

Tgt Ion: 56 Resp: 204008
Ion Ratio Lower Upper
56 100
69 30.3 25.4 38.0
84 87.6 71.0 106.6

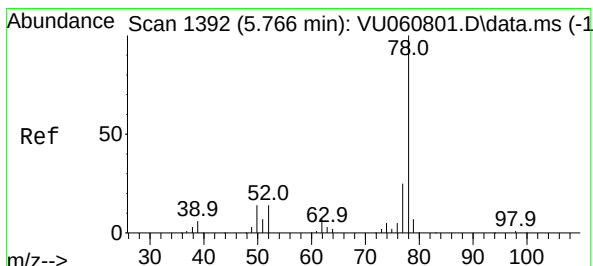
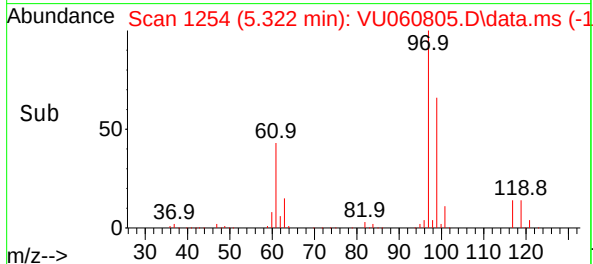
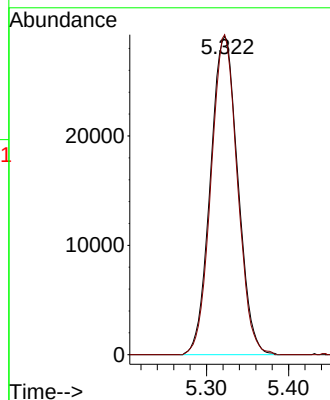
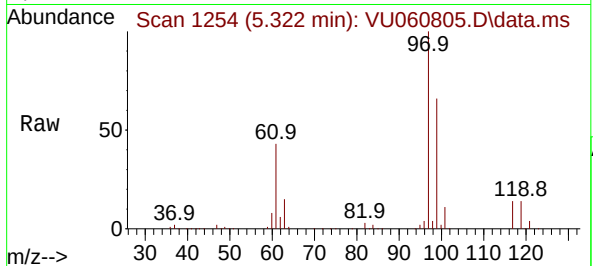




#31
Carbon tetrachloride
Concen: 3.722 ug/L
RT: 5.322 min Scan# 117
Delta R.T. -0.193 min
Lab File: VU060805.D
Acq: 17 Sep 2024 02:18

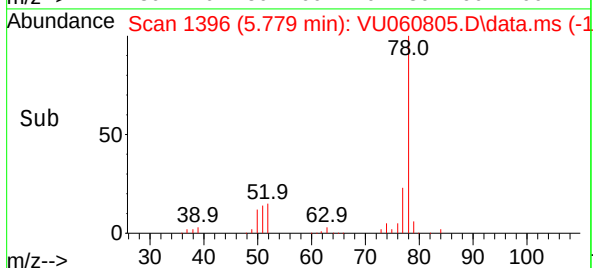
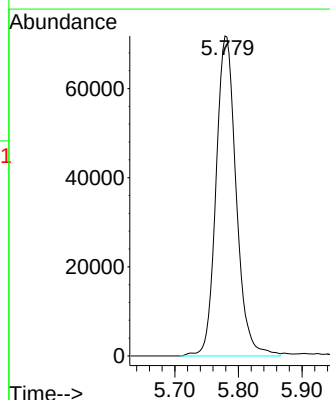
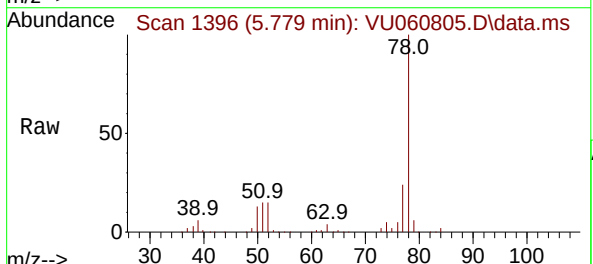
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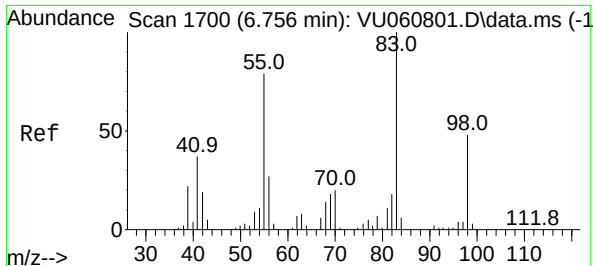
Tgt Ion:117 Resp: 68008
Ion Ratio Lower Upper
117 100
119 95.9 76.3 114.5



#33
Benzene
Concen: 3.004 ug/L
RT: 5.779 min Scan# 1396
Delta R.T. 0.013 min
Lab File: VU060805.D
Acq: 17 Sep 2024 02:18

Tgt Ion: 78 Resp: 157881

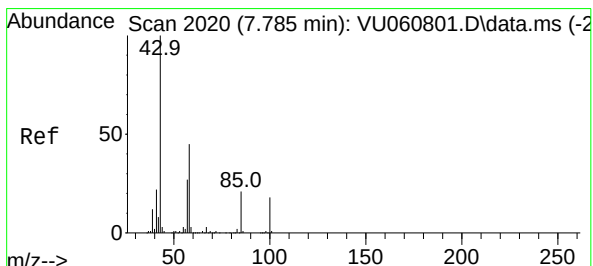
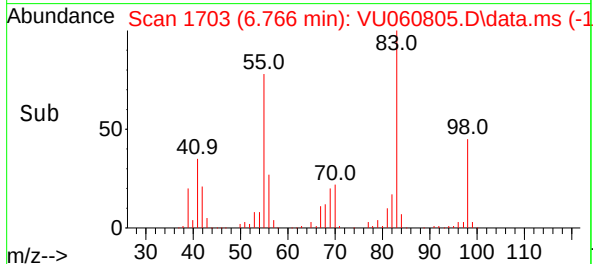
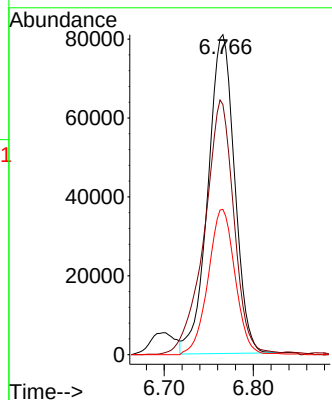
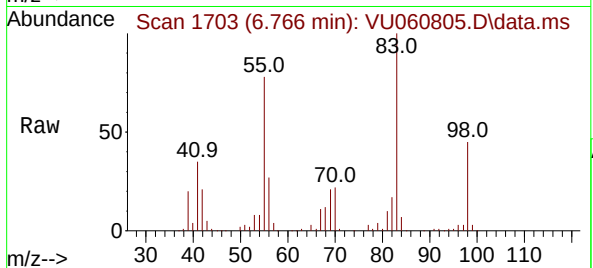




#35
Methylcyclohexane
Concen: 8.868 ug/L
RT: 6.766 min Scan# 1
Delta R.T. 0.010 min
Lab File: VU060805.D
Acq: 17 Sep 2024 02:18

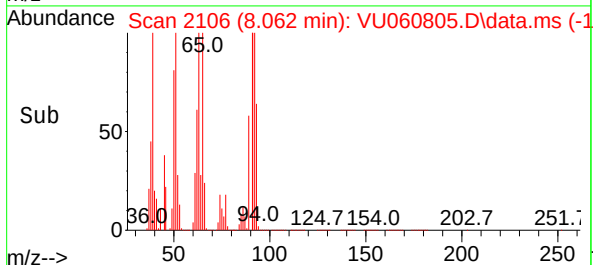
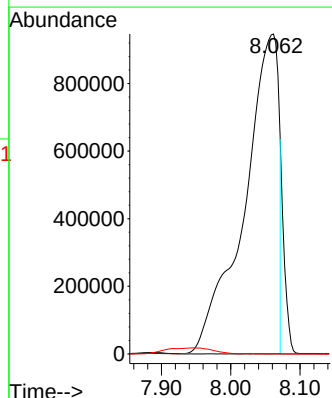
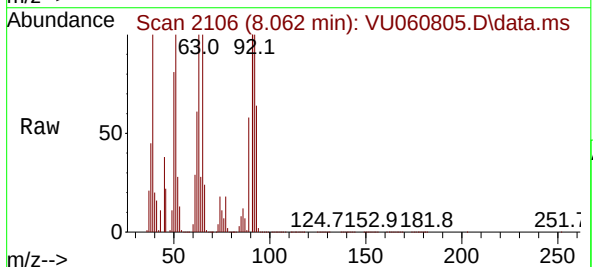
Instrument :
MSVOA_U
ClientSampleId :

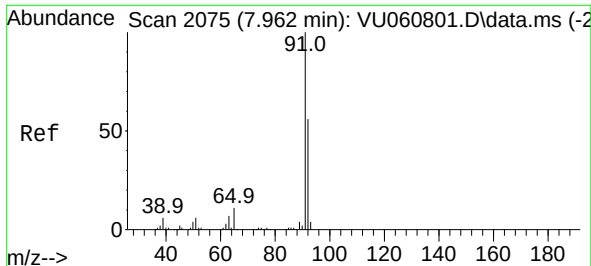
Tgt Ion:	83	Resp:	167643
Ion	Ratio	Lower	Upper
83	100		
55	88.8	62.6	94.0
98	46.2	37.6	56.4



#40
4-Methyl-2-pentanone
Concen: 484.571 ug/L
RT: 8.062 min Scan# 2106
Delta R.T. 0.276 min
Lab File: VU060805.D
Acq: 17 Sep 2024 02:18

Tgt Ion:	43	Resp:	3277417
Ion	Ratio	Lower	Upper
43	100		
58	0.0	34.9	52.3#
100	0.0	13.4	20.0#





#42

Toluene

Concen: 29.456 ug/L

RT: 8.013 min Scan# 2075

Delta R.T. 0.051 min

Lab File: VU060805.D

Acq: 17 Sep 2024 02:18

Instrument :

MSVOA_U

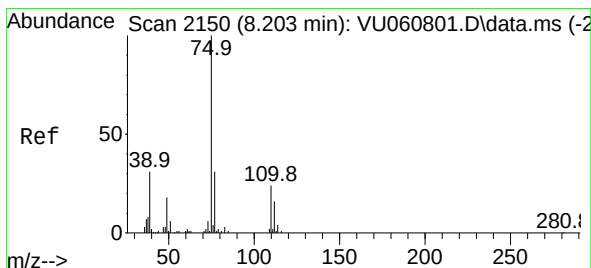
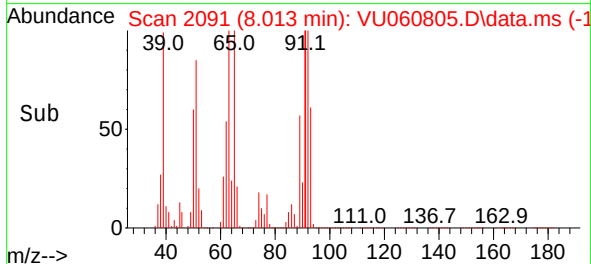
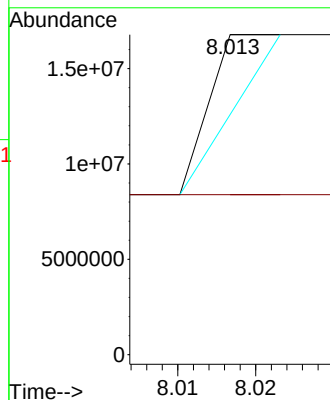
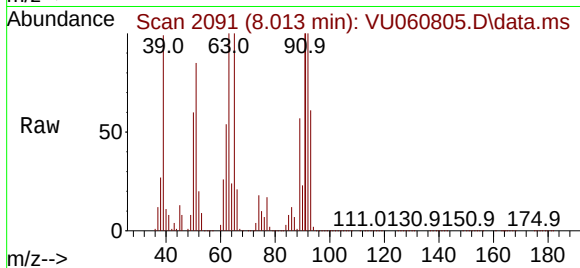
ClientSampleId :

Tgt Ion: 91 Resp: 1618903

Ion Ratio Lower Upper

91 100

92 50.0 40.5 75.3



#44

trans-1,3-Dichloropropene

Concen: 271.958 ug/L

RT: 8.033 min Scan# 2097

Delta R.T. -0.170 min

Lab File: VU060805.D

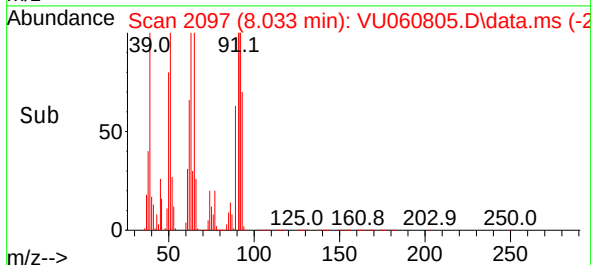
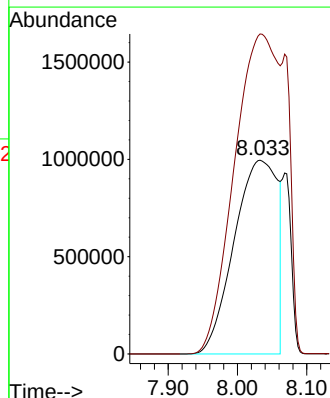
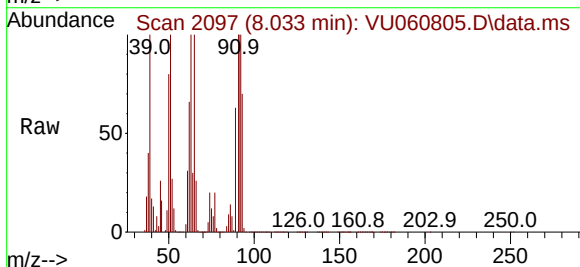
Acq: 17 Sep 2024 02:18

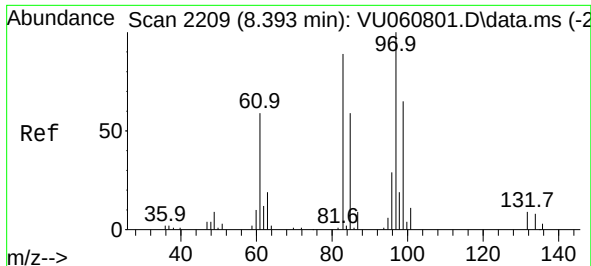
Tgt Ion: 75 Resp: 4308159

Ion Ratio Lower Upper

75 100

77 165.1 23.1 42.9#

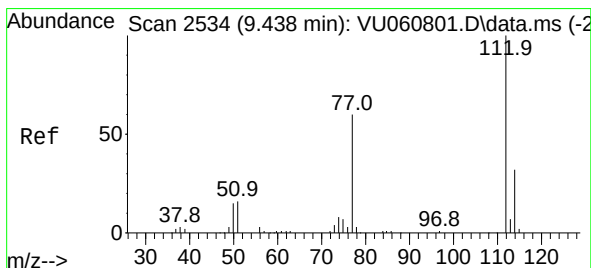
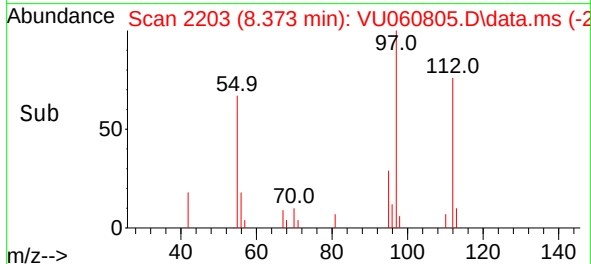
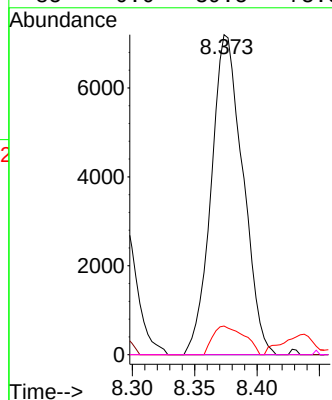
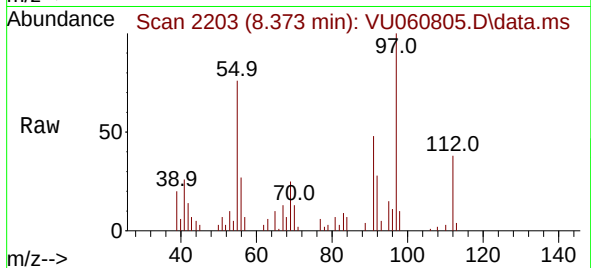




#45
1,1,2-Trichloroethane
Concen: 1.214 ug/L
RT: 8.373 min Scan# 21
Delta R.T. -0.019 min
Lab File: VU060805.D
Acq: 17 Sep 2024 02:18

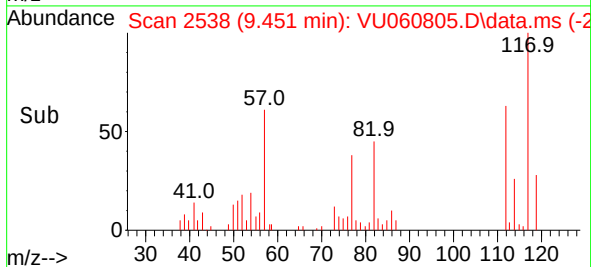
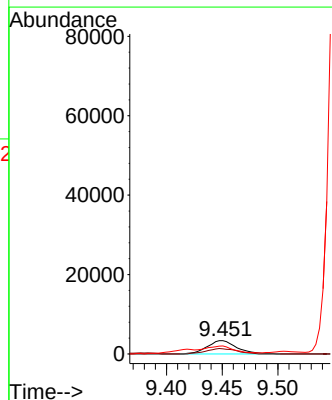
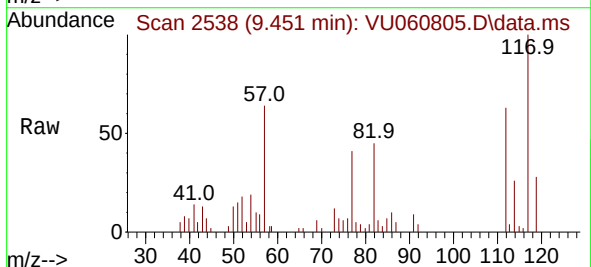
Instrument :
MSVOA_U
ClientSampleId :

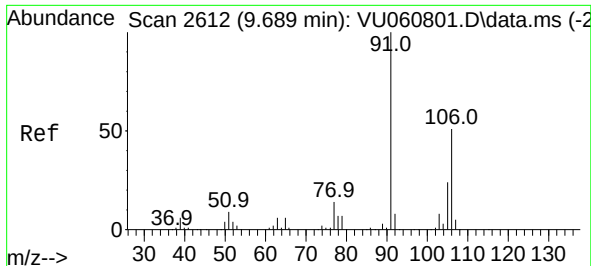
Tgt Ion: 97	Resp: 12691
Ion Ratio	Lower Upper
97 100	
99 0.0	42.3 78.5#
83 9.0	61.7 114.5#
85 0.0	39.5 73.3#



#51
Chlorobenzene
Concen: 0.167 ug/L
RT: 9.451 min Scan# 2538
Delta R.T. 0.013 min
Lab File: VU060805.D
Acq: 17 Sep 2024 02:18

Tgt Ion: 112	Resp: 6165
Ion Ratio	Lower Upper
112 100	
114 39.1	22.2 41.2
77 68.1	46.1 69.1





#53

m,p-Xylene

Concen: 361.182 ug/L

RT: 9.573 min Scan# 2

Delta R.T. -0.116 min

Lab File: VU060805.D

Acq: 17 Sep 2024 02:18

Instrument :

MSVOA_U

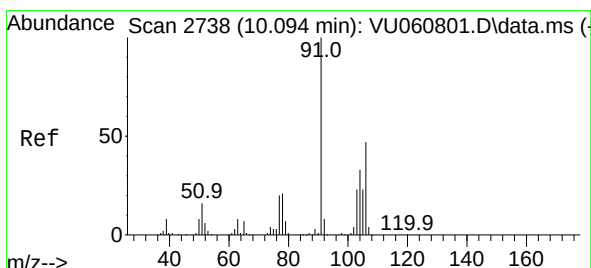
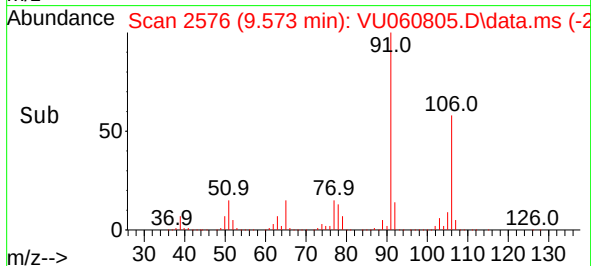
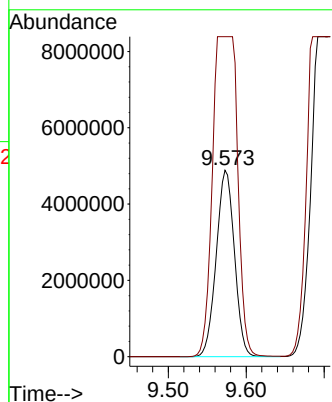
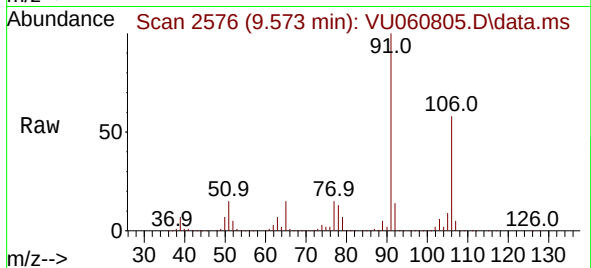
ClientSampleId :

Tgt Ion:106 Resp: 7923443

Ion Ratio Lower Upper

106 100

91 171.6 139.7 259.4



#54

o-Xylene

Concen: 698.477 ug/L

RT: 10.103 min Scan# 2741

Delta R.T. 0.010 min

Lab File: VU060805.D

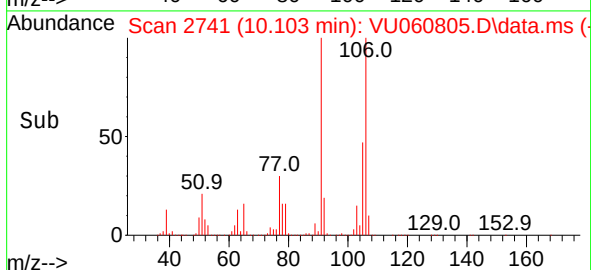
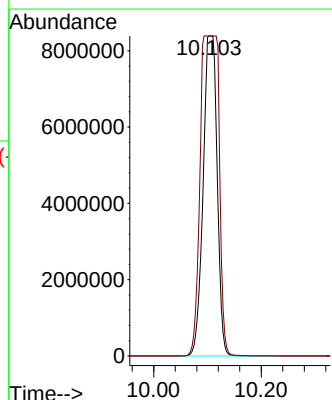
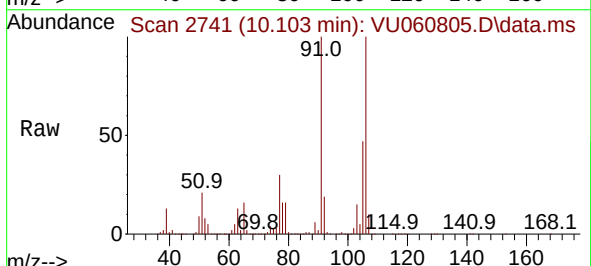
Acq: 17 Sep 2024 02:18

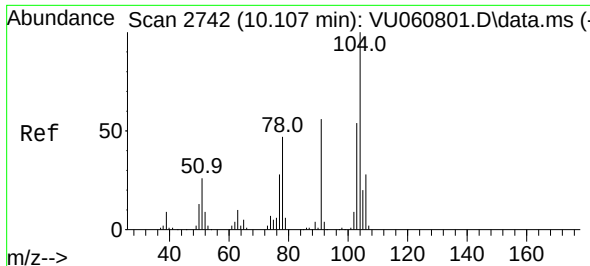
Tgt Ion:106 Resp:15121204

Ion Ratio Lower Upper

106 100

91 100.0 148.6 276.0#

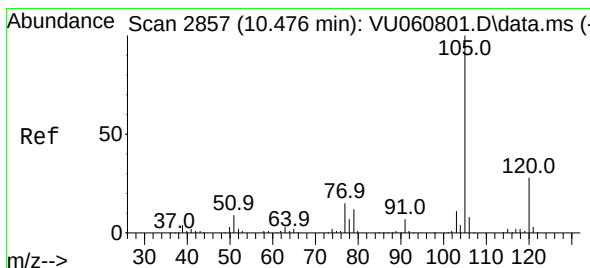
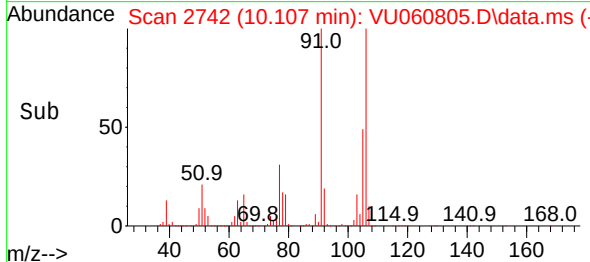
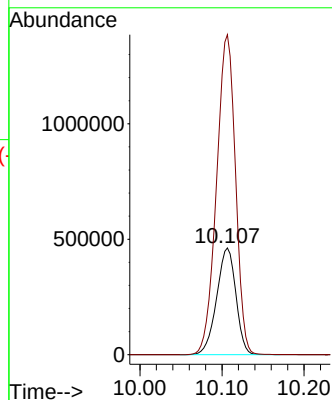
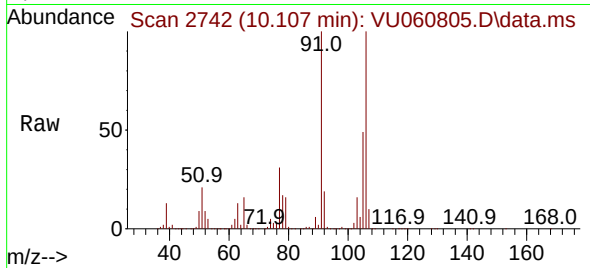




#55
Styrene
Concen: 20.612 ug/L
RT: 10.107 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU060805.D
Acq: 17 Sep 2024 02:18

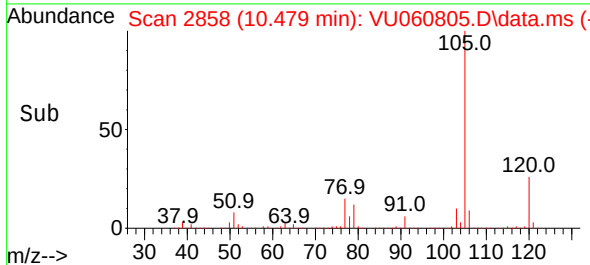
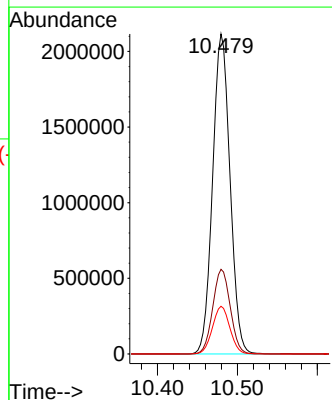
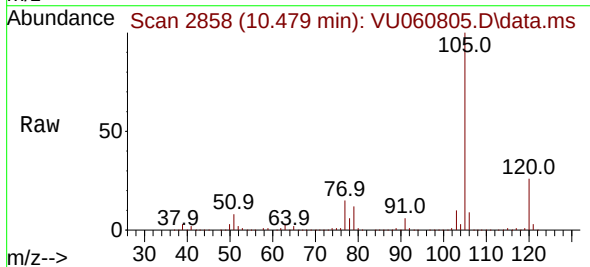
Instrument :
MSVOA_U
ClientSampleId :

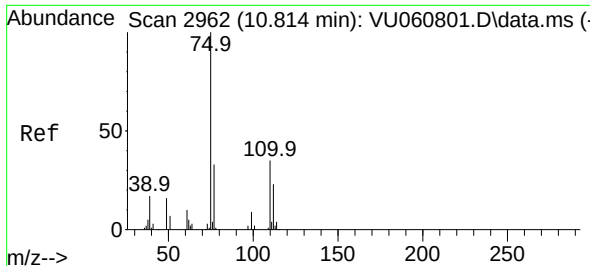
Tgt Ion:104 Resp: 752119
Ion Ratio Lower Upper
104 100
78 299.7 31.7 58.9#



#60
Isopropylbenzene
Concen: 48.122 ug/L
RT: 10.479 min Scan# 2858
Delta R.T. 0.003 min
Lab File: VU060805.D
Acq: 17 Sep 2024 02:18

Tgt Ion:105 Resp: 3196729
Ion Ratio Lower Upper
105 100
120 26.6 21.5 32.3
77 15.0 12.6 18.8





#61

1,2,3-Trichloropropane

Concen: 3.054 ug/L

RT: 10.901 min Scan# 2962

Delta R.T. 0.087 min

Lab File: VU060805.D

Acq: 17 Sep 2024 02:18

Instrument :

MSVOA_U

ClientSampleId :

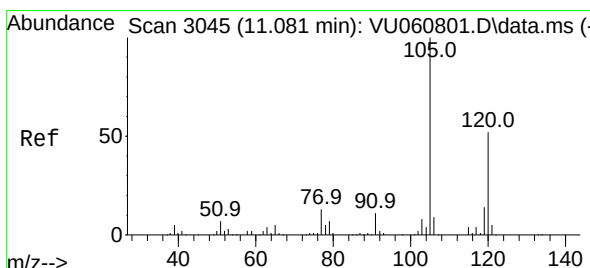
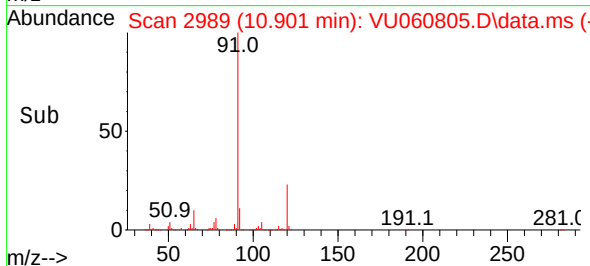
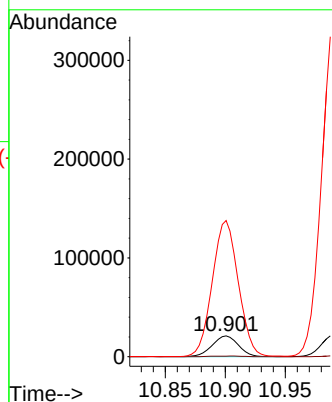
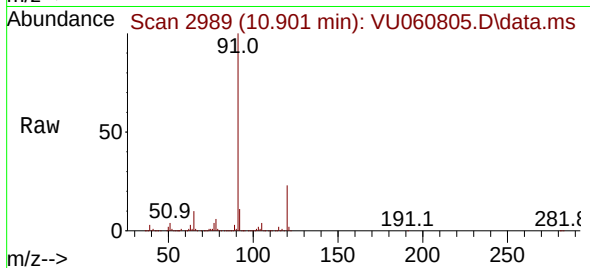
Tgt Ion: 75 Resp: 31926

Ion Ratio Lower Upper

75 100

110 3.3 28.6 43.0#

77 0.0 26.3 39.5#



#62

1,3,5-Trimethylbenzene

Concen: 38.481 ug/L

RT: 11.081 min Scan# 3045

Delta R.T. -0.000 min

Lab File: VU060805.D

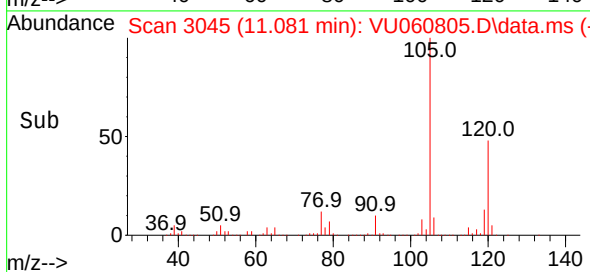
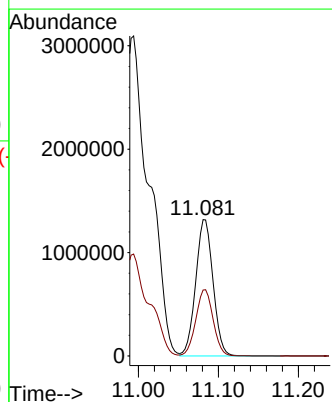
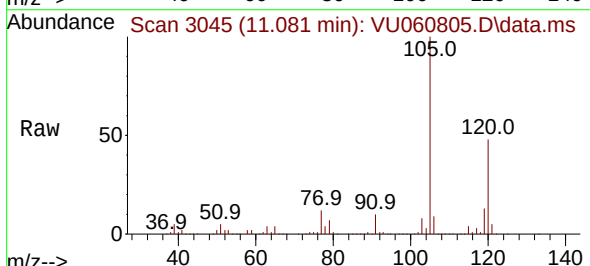
Acq: 17 Sep 2024 02:18

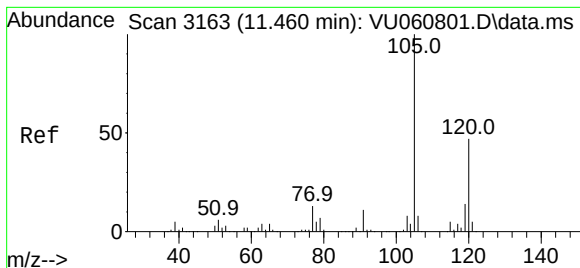
Tgt Ion:105 Resp: 1986720

Ion Ratio Lower Upper

105 100

120 48.9 38.5 57.7





#63

1,2,4-Trimethylbenzene

Concen: 187.883 ug/L

RT: 11.463 min Scan# 3163

Delta R.T. 0.003 min

Lab File: VU060805.D

Acq: 17 Sep 2024 02:18

Instrument :

MSVOA_U

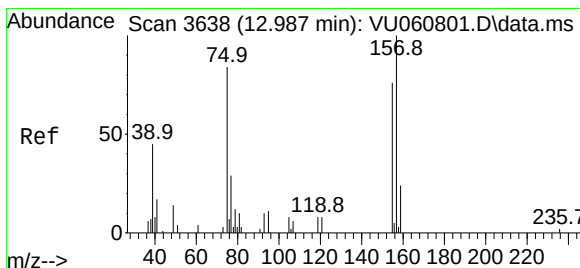
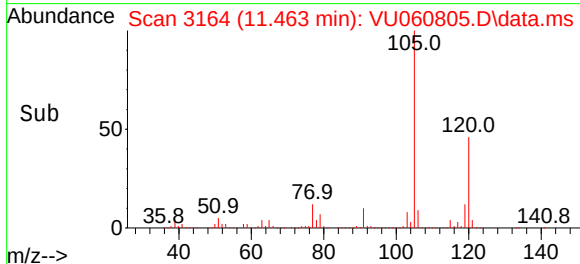
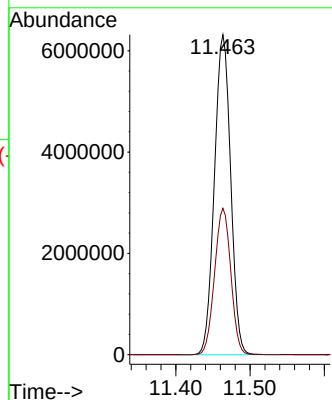
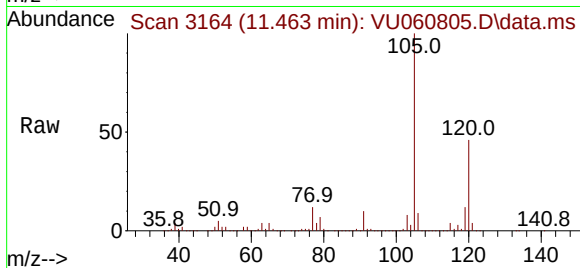
ClientSampleId :

Tgt Ion:105 Resp: 9584416

Ion Ratio Lower Upper

105 100

120 45.8 36.1 54.1



#68

1,2-Dibromo-3-chloropropane

Concen: 3.384 ug/L

RT: 12.962 min Scan# 3630

Delta R.T. -0.026 min

Lab File: VU060805.D

Acq: 17 Sep 2024 02:18

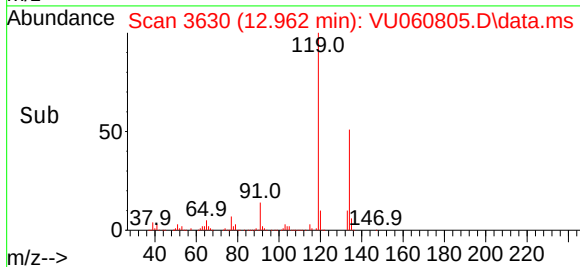
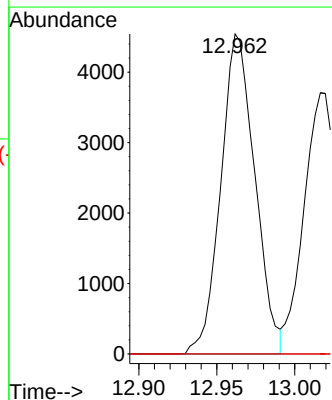
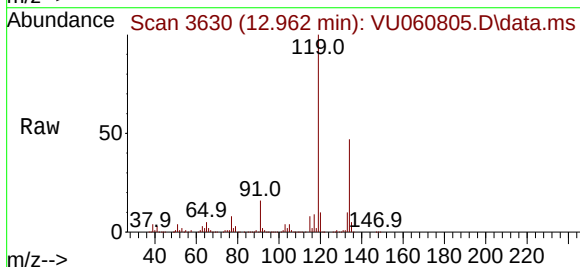
Tgt Ion: 75 Resp: 6908

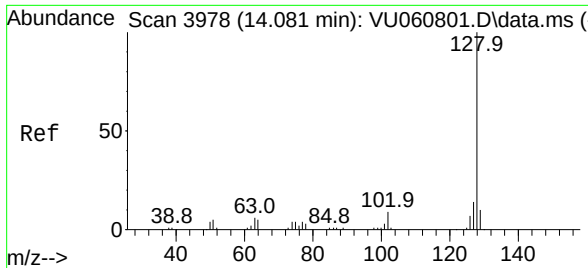
Ion Ratio Lower Upper

75 100

155 0.0 73.1 109.7#

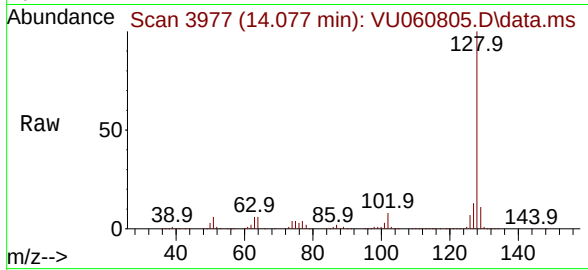
157 0.0 91.0 136.4#





#71
 Naphthalene
 Concen: 103.937 ug/L
 RT: 14.077 min Scan# 3977
 Delta R.T. -0.003 min
 Lab File: VU060805.D
 Acq: 17 Sep 2024 02:18

Instrument : MSVOA_U
 ClientSampleId :



Tgt Ion:128 Resp: 2412725

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.3	12.5
127	13.1	10.7	16.1

