

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU120821\
 Data File : VU046195.D
 Acq On : 08 Dec 2021 22:57
 Operator : SY/MD
 Sample : M4983-06
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 09 04:36:43 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Dec 03 05:08:36 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	6.250	114	203871	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.417	117	201628	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	108619	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.604	65	60823	36.217	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	72.440%
7) Chloroethane-d5	1.919	69	46784	36.283	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	72.560%
11) 1,1-Dichloroethene-d2	2.575	63	115338	38.257	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	76.520%
21) 2-Butanone-d5	4.645	46	130925	98.069	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	98.070%
24) Chloroform-d	5.067	84	121866	43.454	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.900%
26) 1,2-Dichloroethane-d4	5.707	65	81558	43.333	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.660%
32) Benzene-d6	5.732	84	250253	43.304	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.600%
36) 1,2-Dichloropropane-d6	6.694	67	78832	44.015	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	88.040%
41) Toluene-d8	7.899	98	229840	43.681	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	87.360%
43) trans-1,3-Dichloroprop...	8.179	79	40260	46.566	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	93.140%
47) 2-Hexanone-d5	8.632	63	95163	112.064	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	112.060%
56) 1,1,2,2-Tetrachloroeth...	10.758	84	130972	48.220	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	96.440%
66) 1,2-Dichlorobenzene-d4	12.192	152	99907	47.761	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.520%
Target Compounds						
5) Vinyl chloride	1.607	62	394584	197.253	ug/L	99
8) Chloroethane	1.941	64	174957	151.056	ug/L	99
10) 1,1,2-Trichloro-1,2,2-...	2.575	101	818	0.551	ug/L #	21
12) 1,1-Dichloroethene	2.588	96	63570	45.096	ug/L	85
14) Carbon disulfide	2.803	76	2359	0.539	ug/L #	75
17) trans-1,2-Dichloroethene	3.359	96	29147	19.538	ug/L	97
19) 1,1-Dichloroethane	3.877	63	4592789	1693.265	ug/L	99
20) cis-1,2-Dichloroethene	4.671	96	5268388	3254.758	ug/L	97
22) 2-Butanone	4.732	43	5215	2.871	ug/L #	48
27) 1,2-Dichloroethane	5.797	62	20988	9.385	ug/L	98
29) Cyclohexane	5.395	56	3933	1.675	ug/L	99
30) 1,1,1-Trichloroethane	5.321	97	499504	201.820	ug/L	98
33) Benzene	5.777	78	21458	3.516	ug/L	100
34) Trichloroethene	6.543	95	21081	13.113	ug/L	97
35) Methylcyclohexane	6.764	83	18182	7.294	ug/L	98
39) cis-1,3-Dichloropropene	7.565	75	2448	1.007	ug/L #	68
40) 4-Methyl-2-pentanone	7.793	43	23954	10.199	ug/L	97
42) Toluene	7.970	91	706345	107.870	ug/L	100
44) trans-1,3-Dichloropropene	8.182	75	1632	0.683	ug/L #	65

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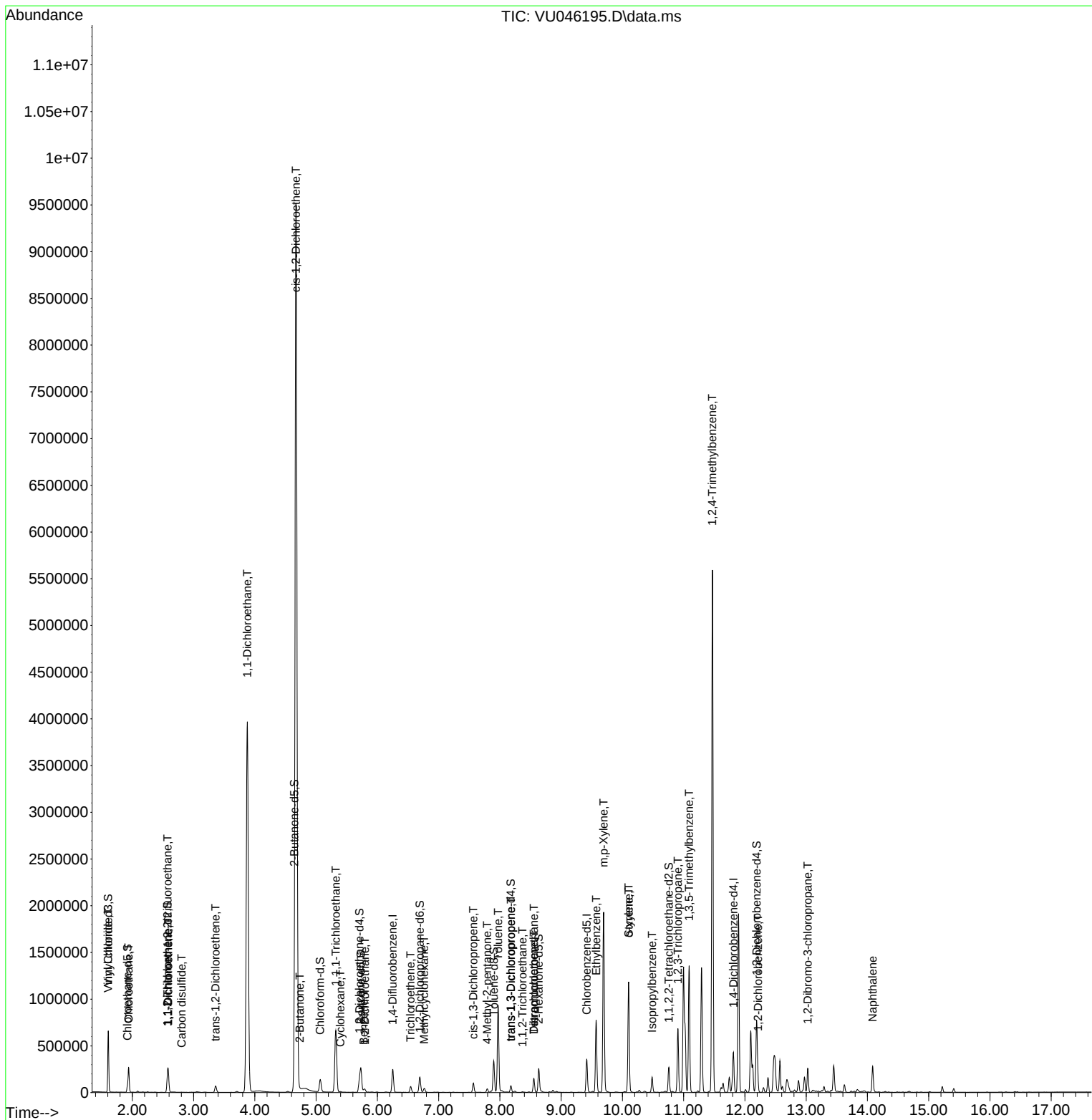
Quant Time: Dec 09 04:36:43 2021
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 Quant Title : VOC Analysis
 QLast Update : Fri Dec 03 05:08:36 2021
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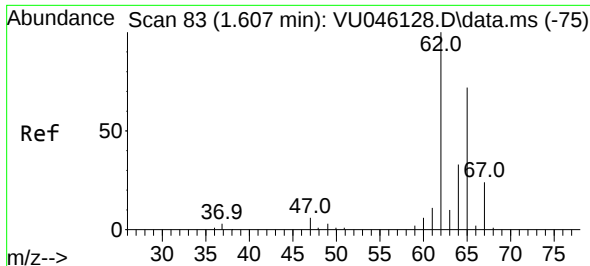
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

45) 1,1,2-Trichloroethane	8.369	97	3153	1.966	ug/L #	18
46) Tetrachloroethene	8.555	164	34506	29.207	ug/L	98
49) Dibromochloromethane	8.555	129	31950	18.971	ug/L #	10
52) Ethylbenzene	9.571	91	569440	80.804	ug/L	98
53) m,p-Xylene	9.694	106	573302	208.601	ug/L	97
54) o-xylene	10.102	106	326905	122.584	ug/L	98
55) Styrene	10.102	104	16050	3.525	ug/L #	1
60) 1,2,3-Trichloropropane	10.906	75	3296	1.384	ug/L #	1
61) Isopropylbenzene	10.484	105	108766	15.390	ug/L	100
62) 1,3,5-Trimethylbenzene	11.089	105	747672	126.926	ug/L	98
63) 1,2,4-Trimethylbenzene	11.468	105	3181895	539.902	ug/L	99
67) 1,2-Dichlorobenzene	12.214	146	8174	2.418	ug/L	93
68) 1,2-Dibromo-3-chloropr...	13.025	75	1031	1.625	ug/L #	3
71) Naphthalene	14.086	128	220137	29.144	ug/L	100

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

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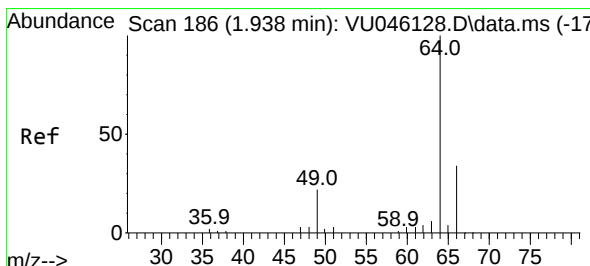
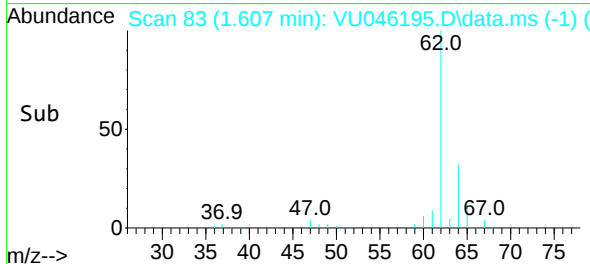
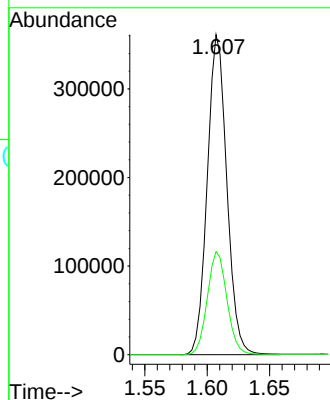
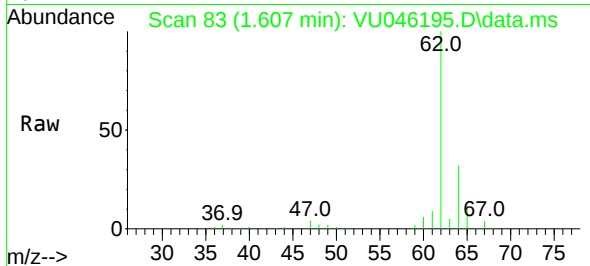




#5
 Vinyl chloride
 Concen: 197.253 ug/L
 RT: 1.607 min Scan# 81
 Delta R.T. 0.000 min
 Lab File: VU046195.D
 Acq: 08 Dec 2021 22:57

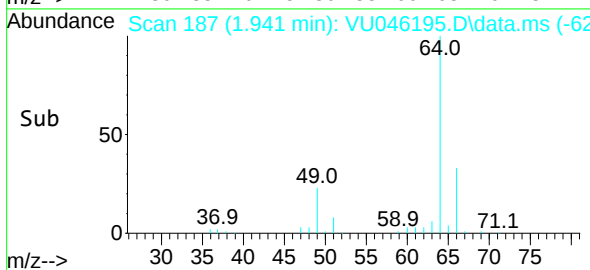
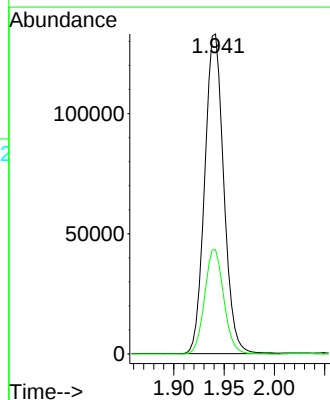
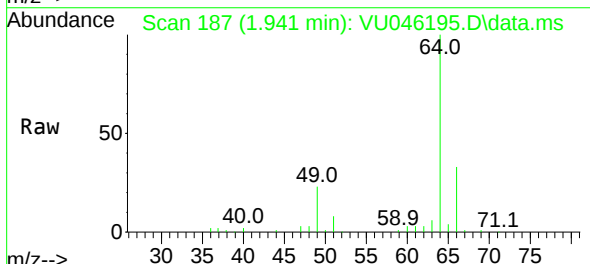
Instrument :
 MSVOA_U
 ClientSampleId :

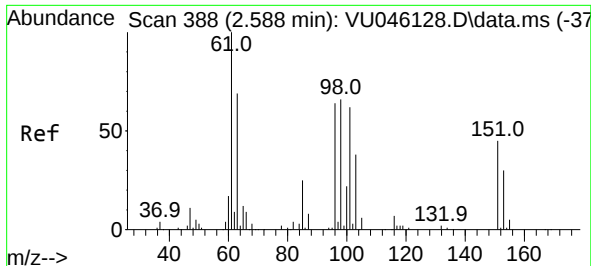
Tgt Ion: 62 Resp: 394584
 Ion Ratio Lower Upper
 62 100
 64 32.2 22.9 42.5



#8
 Chloroethane
 Concen: 151.056 ug/L
 RT: 1.941 min Scan# 187
 Delta R.T. 0.003 min
 Lab File: VU046195.D
 Acq: 08 Dec 2021 22:57

Tgt Ion: 64 Resp: 174957
 Ion Ratio Lower Upper
 64 100
 66 32.5 22.5 41.9

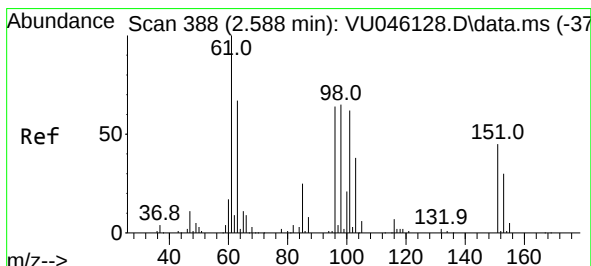
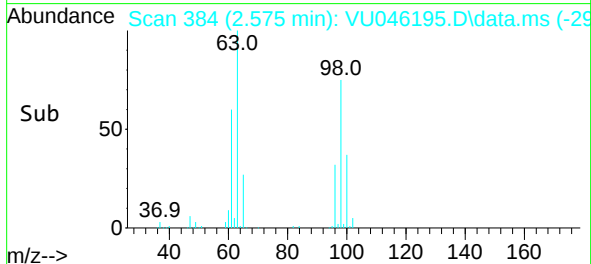
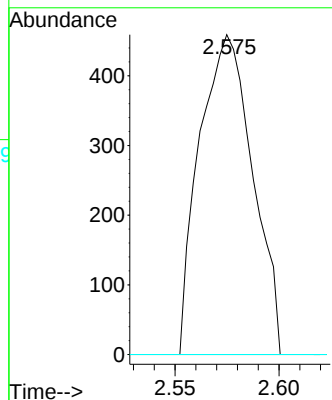
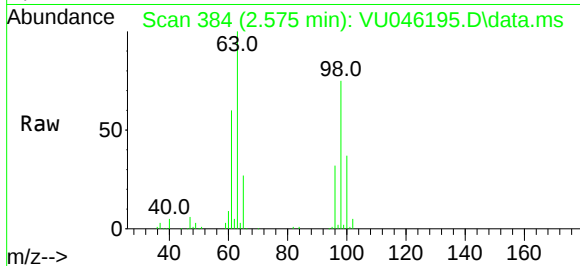




#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.551 ug/L
 RT: 2.575 min Scan# 31
 Delta R.T. -0.013 min
 Lab File: VU046195.D
 Acq: 08 Dec 2021 22:57

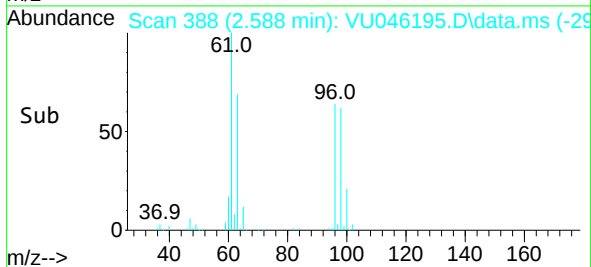
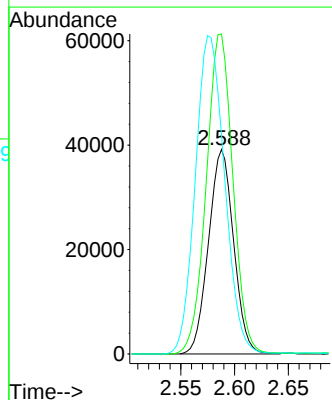
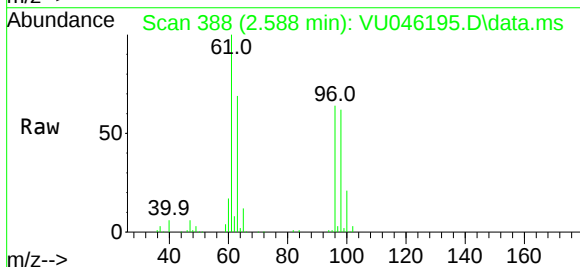
Instrument :
 MSVOA_U
 ClientSampleId :

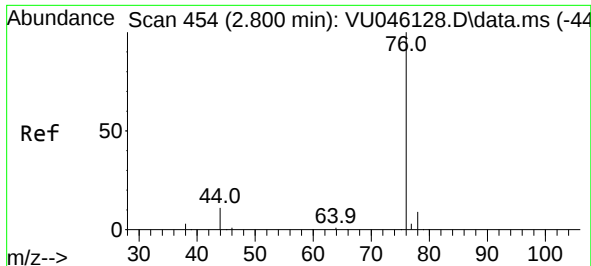
Tgt Ion:101 Resp: 818
 Ion Ratio Lower Upper
 101 100
 85 0.0 35.1 52.7#
 151 0.0 56.7 85.1#



#12
 1,1-Dichloroethene
 Concen: 45.096 ug/L
 RT: 2.588 min Scan# 388
 Delta R.T. 0.003 min
 Lab File: VU046195.D
 Acq: 08 Dec 2021 22:57

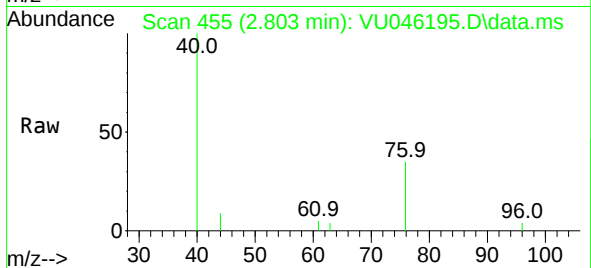
Tgt Ion: 96 Resp: 63570
 Ion Ratio Lower Upper
 96 100
 61 156.5 118.6 220.2
 63 107.3 93.0 172.8



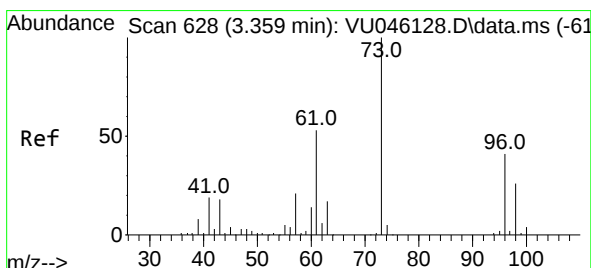
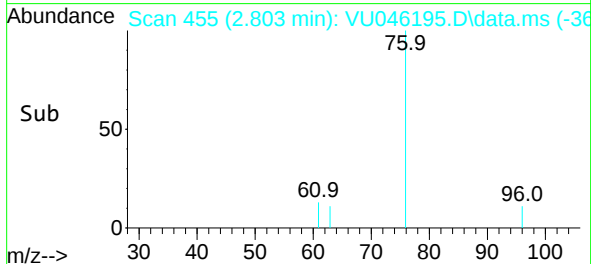
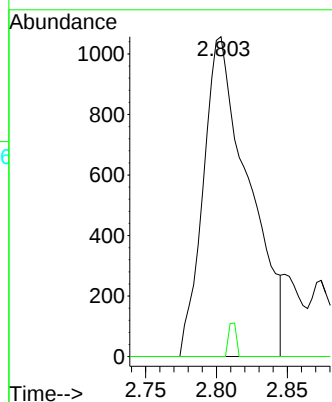


#14
Carbon disulfide
Concen: 0.539 ug/L
RT: 2.803 min Scan# 41
Delta R.T. 0.003 min
Lab File: VU046195.D
Acq: 08 Dec 2021 22:57

Instrument :
MSVOA_U
ClientSampleId :

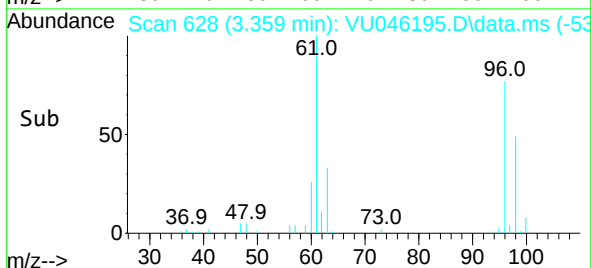
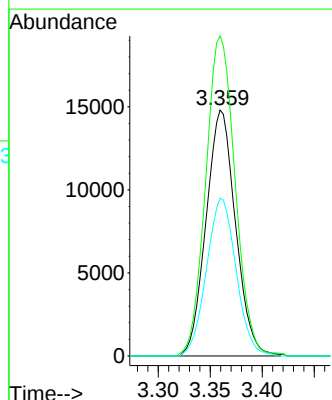
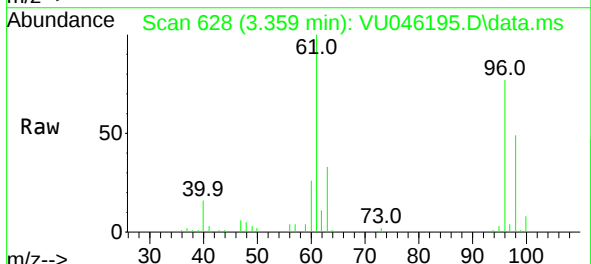


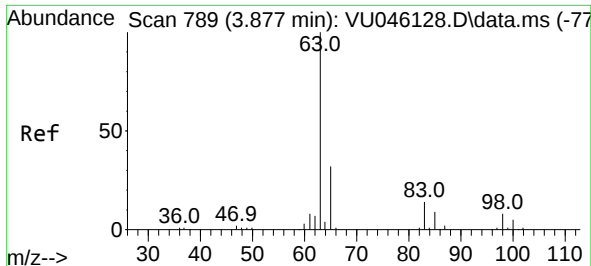
Tgt Ion: 76 Resp: 2359
Ion Ratio Lower Upper
76 100
78 0.0 7.3 10.9#



#17
trans-1,2-Dichloroethene
Concen: 19.538 ug/L
RT: 3.359 min Scan# 628
Delta R.T. 0.000 min
Lab File: VU046195.D
Acq: 08 Dec 2021 22:57

Tgt Ion: 96 Resp: 29147
Ion Ratio Lower Upper
96 100
61 130.2 94.6 175.6
98 64.2 44.0 81.8





#19

1,1-Dichloroethane

Concen: 1693.265 ug/L

RT: 3.877 min Scan# 789

Delta R.T. 0.000 min

Lab File: VU046195.D

Acq: 08 Dec 2021 22:57

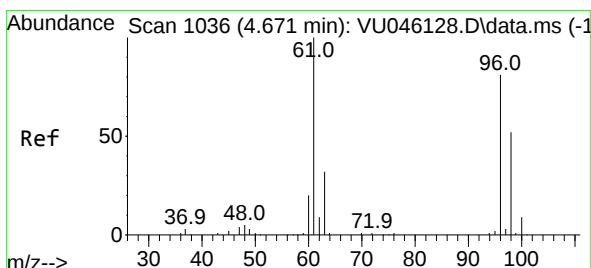
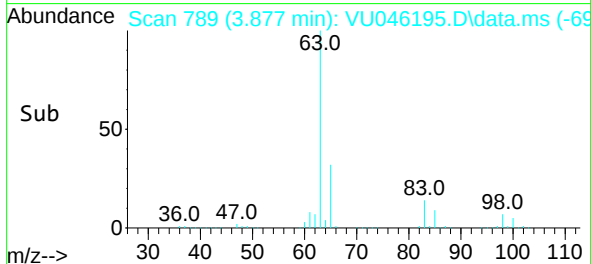
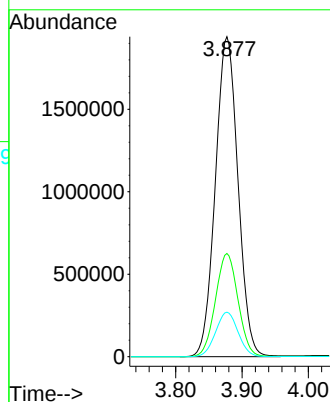
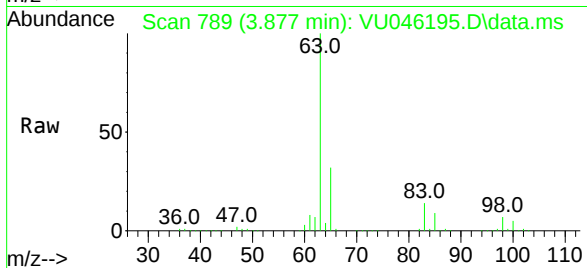
Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 63 Resp: 4592789

Ion	Ratio	Lower	Upper
63	100		
65	32.3	22.8	42.4
83	13.9	9.6	17.8



#20

cis-1,2-Dichloroethene

Concen: 3254.758 ug/L

RT: 4.671 min Scan# 1036

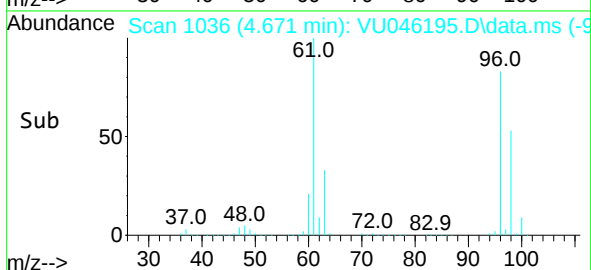
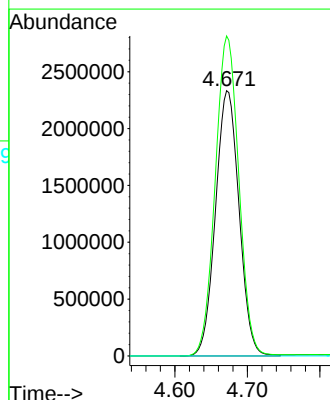
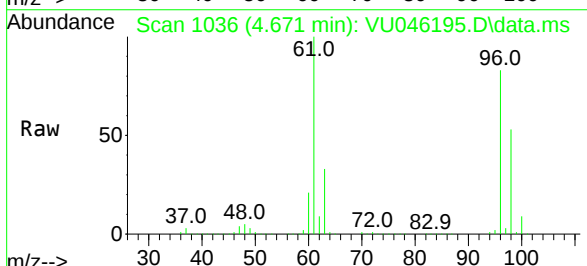
Delta R.T. 0.000 min

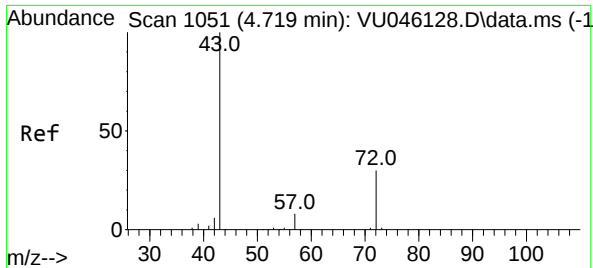
Lab File: VU046195.D

Acq: 08 Dec 2021 22:57

Tgt Ion: 96 Resp: 5268388

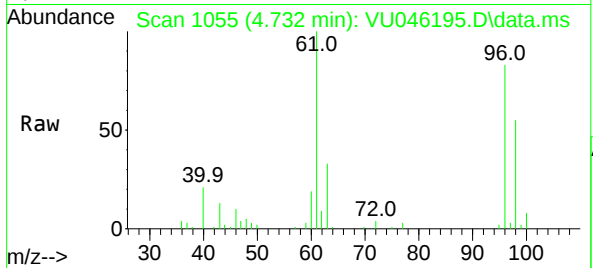
Ion	Ratio	Lower	Upper
96	100		
61	120.6	86.8	161.2
68	0.0	0.0	0.0



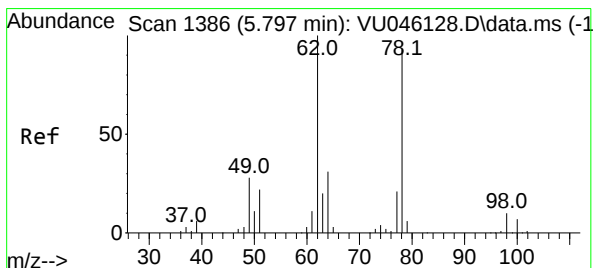
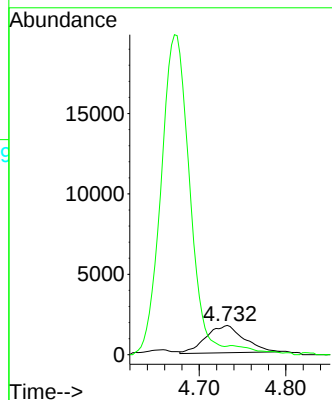
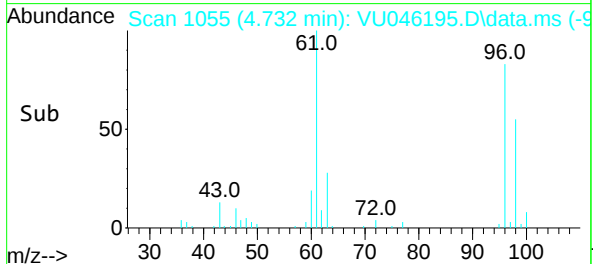


#22
2-Butanone
Concen: 2.871 ug/L
RT: 4.732 min Scan# 1055
Delta R.T. 0.010 min
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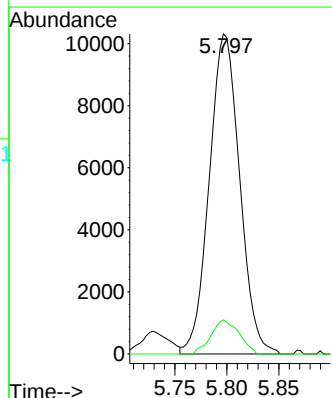
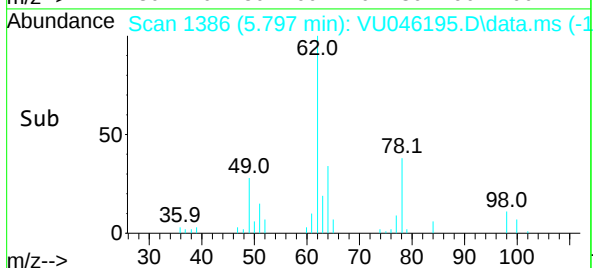
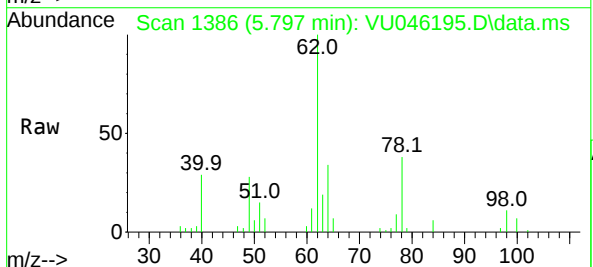


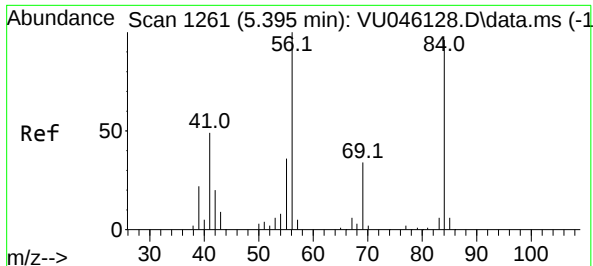
Tgt Ion: 43 Resp: 5215
Ion Ratio Lower Upper
43 100
72 1.3 14.5 43.6#



#27
1,2-Dichloroethane
Concen: 9.385 ug/L
RT: 5.797 min Scan# 1386
Delta R.T. -0.003 min
Lab File: VU046195.D
Acq: 08 Dec 2021 22:57

Tgt Ion: 62 Resp: 20988
Ion Ratio Lower Upper
62 100
98 10.7 7.9 11.9





#29

Cyclohexane

Concen: 1.675 ug/L

RT: 5.395 min Scan# 1261

Delta R.T. 0.000 min

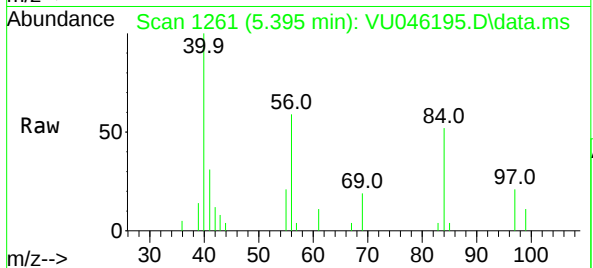
Lab File: VU046195.D

Acq: 08 Dec 2021 22:57

Instrument :

MSVOA_U

ClientSampleId :



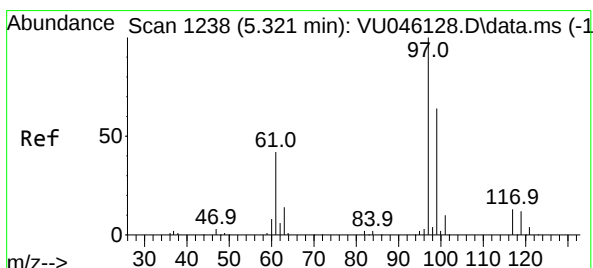
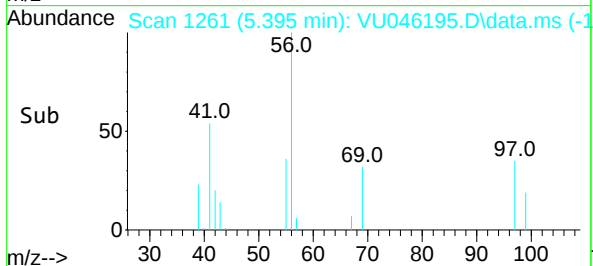
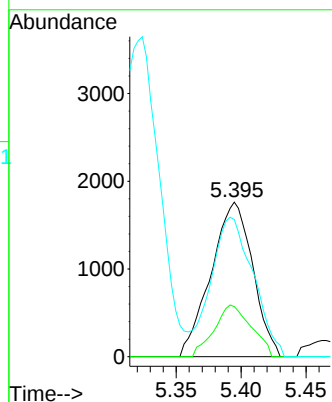
Tgt Ion: 56 Resp: 3933

Ion Ratio Lower Upper

56 100

69 29.7 25.2 37.8

84 91.8 73.3 109.9



#30

1,1,1-Trichloroethane

Concen: 201.820 ug/L

RT: 5.321 min Scan# 1238

Delta R.T. 0.000 min

Lab File: VU046195.D

Acq: 08 Dec 2021 22:57

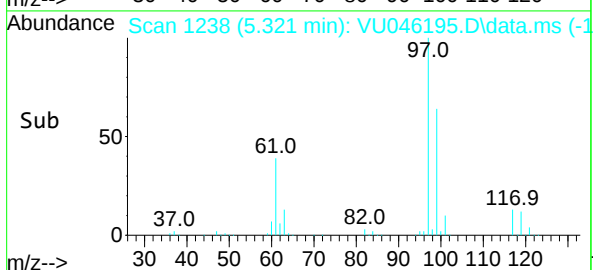
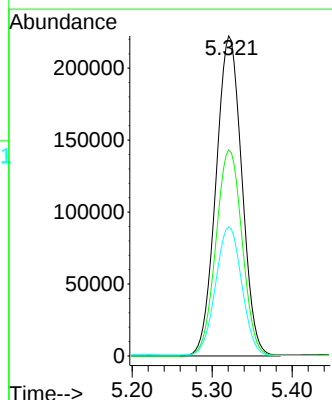
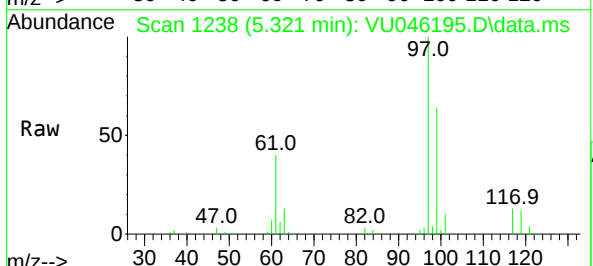
Tgt Ion: 97 Resp: 499504

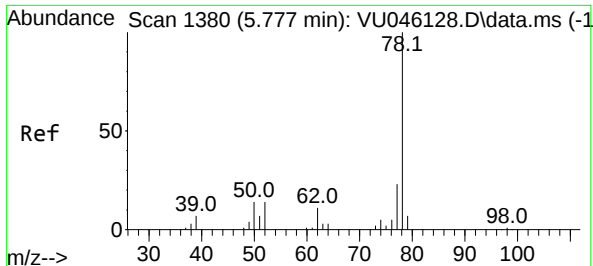
Ion Ratio Lower Upper

97 100

99 65.3 51.8 77.6

61 40.7 34.4 51.6

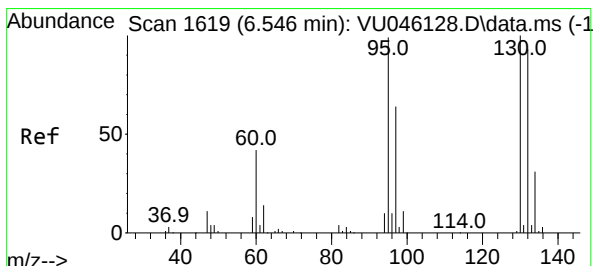
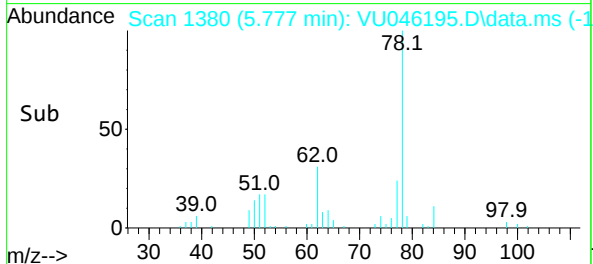
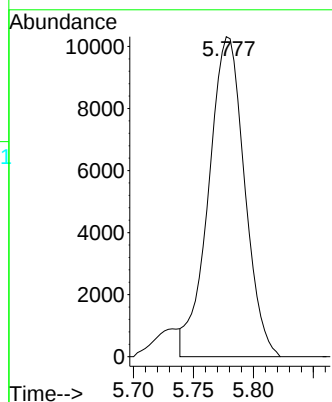
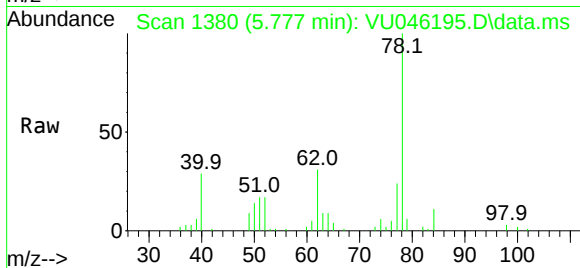




#33
Benzene
Concen: 3.516 ug/L
RT: 5.777 min Scan# 1380
Delta R.T. -0.003 min
Lab File: VU046195.D
Acq: 08 Dec 2021 22:57

Instrument :
MSVOA_U
ClientSampleId :

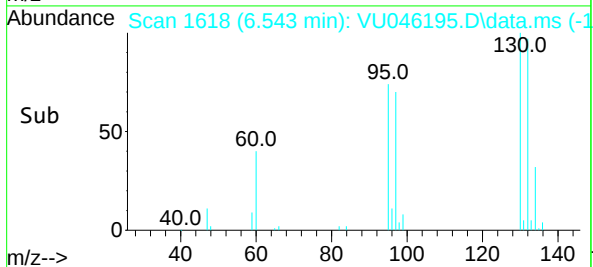
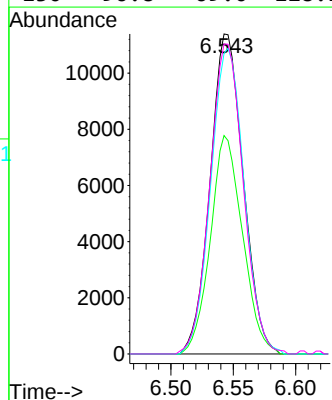
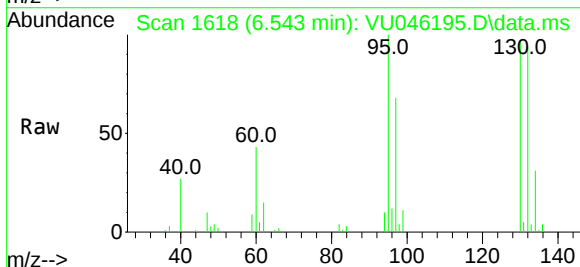
Tgt Ion: 78 Resp: 21458

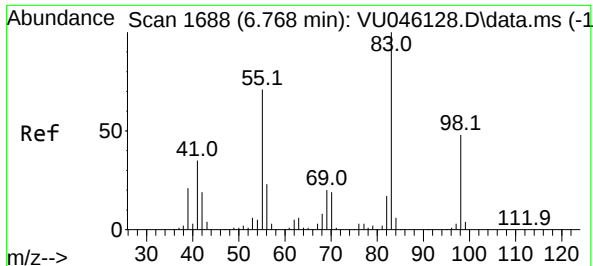


#34
Trichloroethene
Concen: 13.113 ug/L
RT: 6.543 min Scan# 1618
Delta R.T. -0.003 min
Lab File: VU046195.D
Acq: 08 Dec 2021 22:57

Tgt Ion: 95 Resp: 21081

Ion	Ratio	Lower	Upper
95	100		
97	68.3	44.1	81.9
132	93.9	66.8	124.0
130	96.8	69.0	128.1

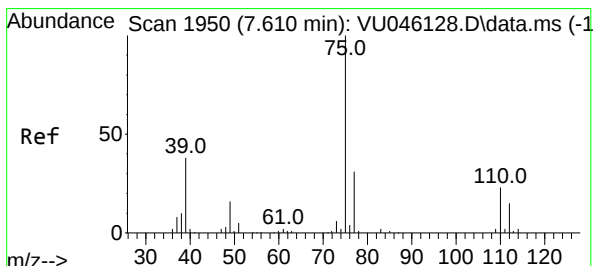
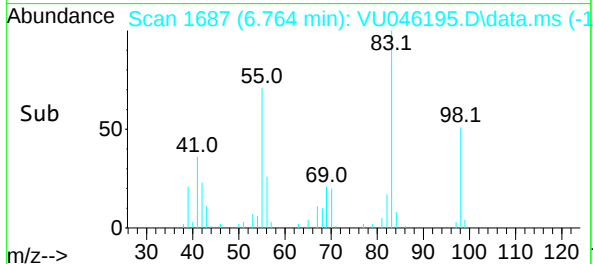
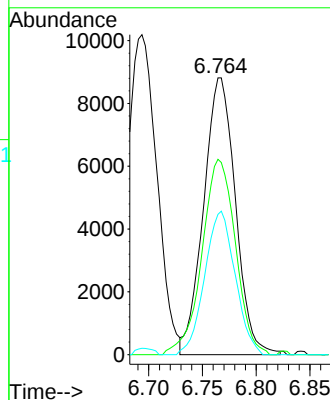
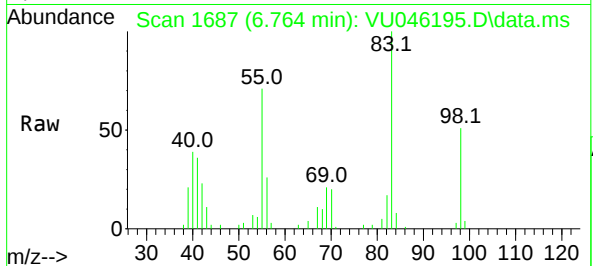




#35
Methylcyclohexane
Concen: 7.294 ug/L
RT: 6.764 min Scan# 1
Delta R.T. -0.003 min
Lab File: VU046195.D
Acq: 08 Dec 2021 22:57

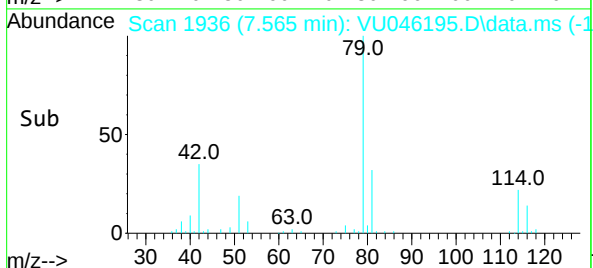
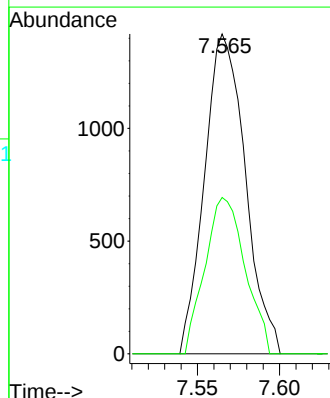
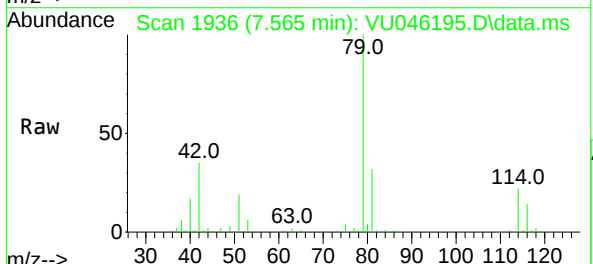
Instrument :
MSVOA_U
ClientSampleId :

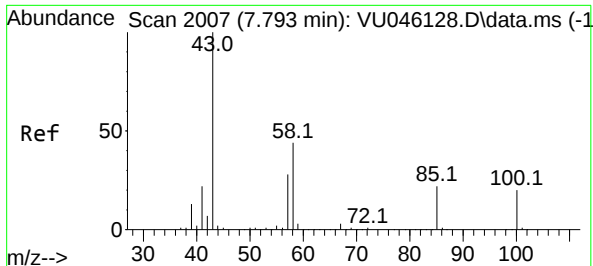
Tgt Ion: 83 Resp: 18182
Ion Ratio Lower Upper
83 100
55 74.1 57.8 86.6
98 49.6 38.4 57.6



#39
cis-1,3-Dichloropropene
Concen: 1.007 ug/L
RT: 7.565 min Scan# 1936
Delta R.T. -0.045 min
Lab File: VU046195.D
Acq: 08 Dec 2021 22:57

Tgt Ion: 75 Resp: 2448
Ion Ratio Lower Upper
75 100
77 48.9 21.8 40.6#





#40

4-Methyl-2-pentanone

Concen: 10.199 ug/L

RT: 7.793 min Scan# 2007

Delta R.T. -0.003 min

Lab File: VU046195.D

Acq: 08 Dec 2021 22:57

Instrument :

MSVOA_U

ClientSampleId :

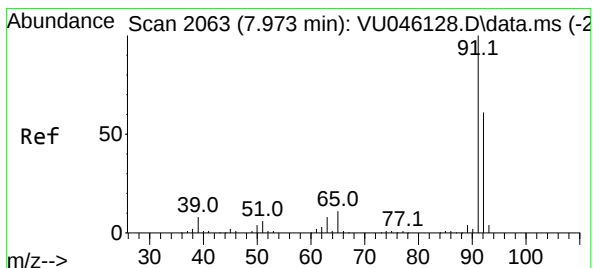
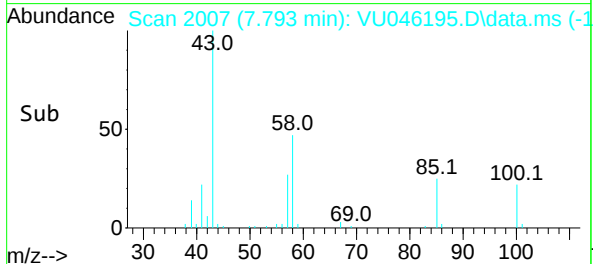
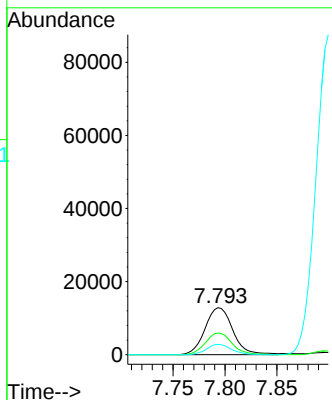
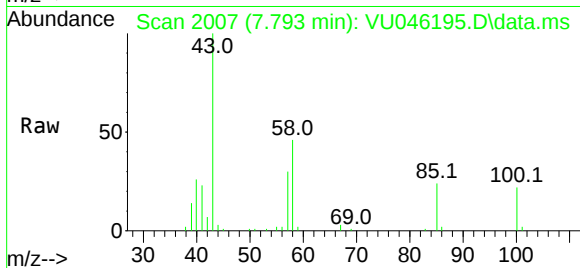
Tgt Ion: 43 Resp: 23954

Ion Ratio Lower Upper

43 100

58 44.2 34.2 51.4

100 19.7 14.5 21.7



#42

Toluene

Concen: 107.870 ug/L

RT: 7.970 min Scan# 2062

Delta R.T. -0.003 min

Lab File: VU046195.D

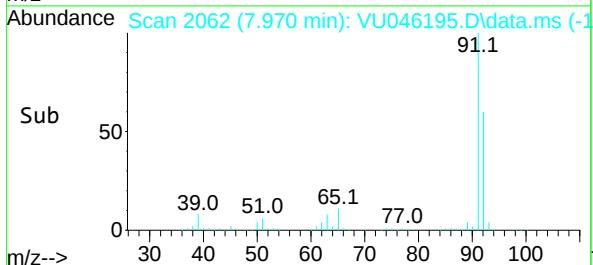
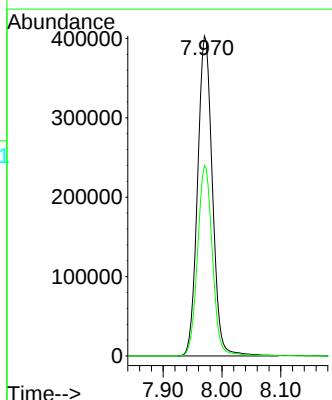
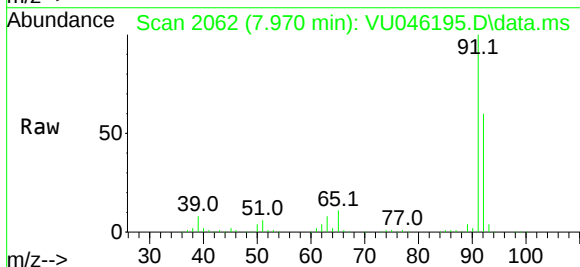
Acq: 08 Dec 2021 22:57

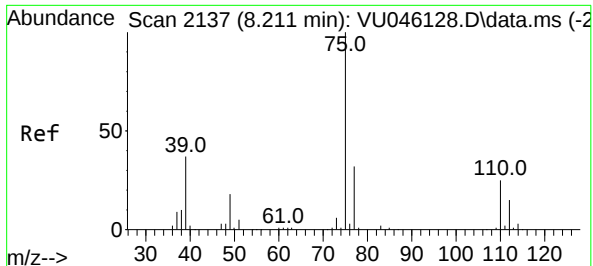
Tgt Ion: 91 Resp: 706345

Ion Ratio Lower Upper

91 100

92 59.5 41.9 77.7

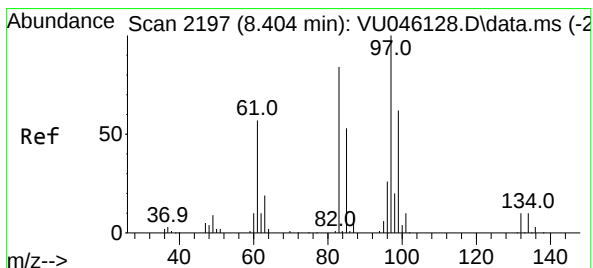
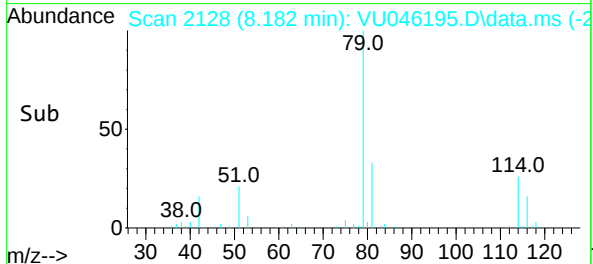
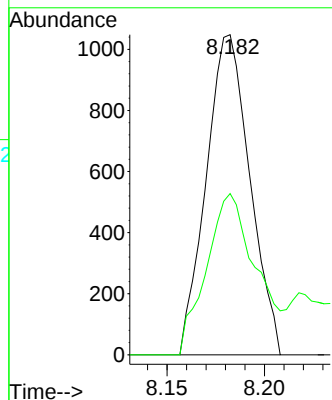
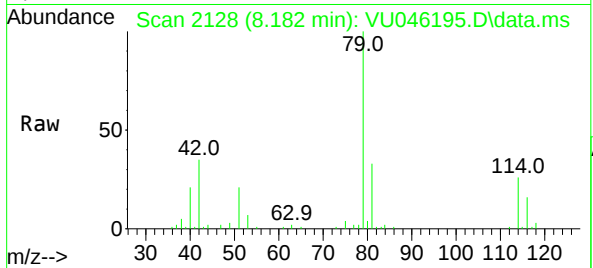




#44
trans-1,3-Dichloropropene
Concen: 0.683 ug/L
RT: 8.182 min Scan# 2137
Delta R.T. -0.032 min
Lab File: VU046195.D
Acq: 08 Dec 2021 22:57

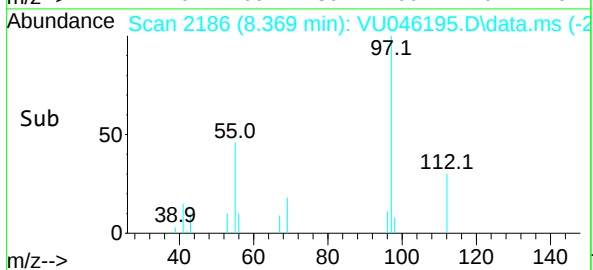
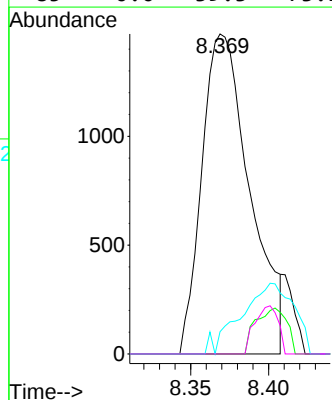
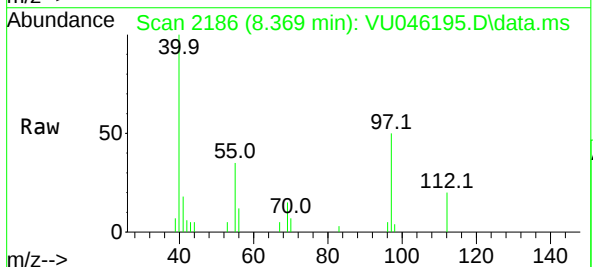
Instrument :
MSVOA_U
ClientSampleId :

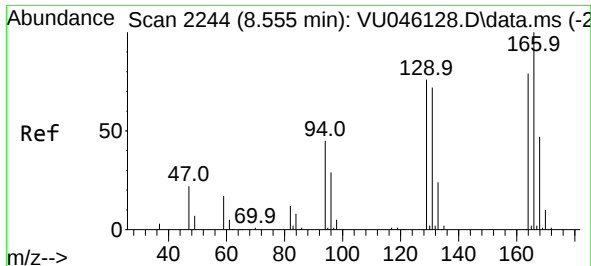
Tgt Ion: 75 Resp: 1632
Ion Ratio Lower Upper
75 100
77 50.4 21.7 40.3#



#45
1,1,2-Trichloroethane
Concen: 1.966 ug/L
RT: 8.369 min Scan# 2186
Delta R.T. -0.035 min
Lab File: VU046195.D
Acq: 08 Dec 2021 22:57

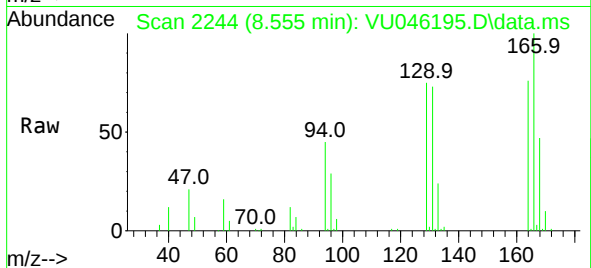
Tgt Ion: 97 Resp: 3153
Ion Ratio Lower Upper
97 100
99 0.0 44.7 82.9#
83 6.9 60.2 111.8#
85 0.0 39.3 73.1#



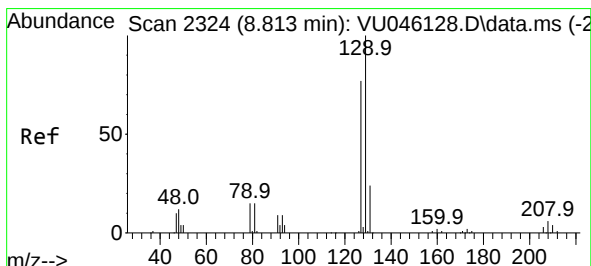
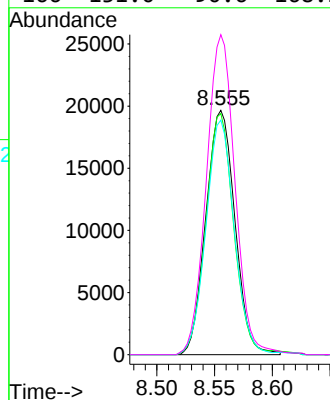
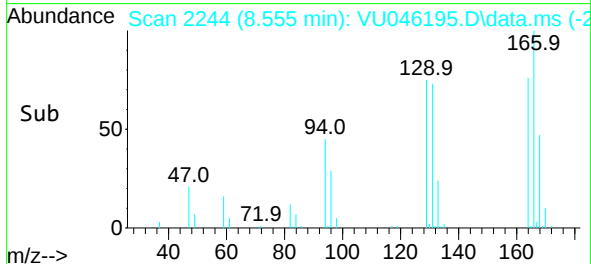


#46
Tetrachloroethene
Concen: 29.207 ug/L
RT: 8.555 min Scan# 2244
Delta R.T. 0.000 min
Lab File: VU046195.D
Acq: 08 Dec 2021 22:57

Instrument :
MSVOA_U
ClientSampleId :

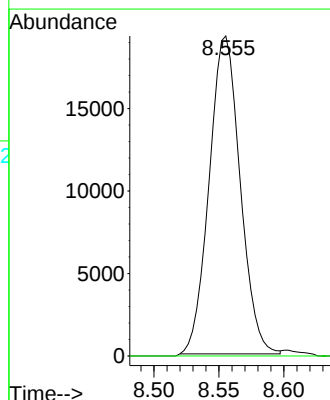
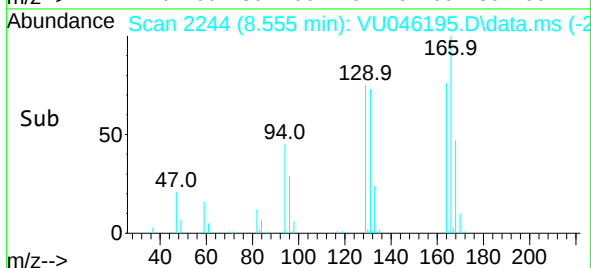
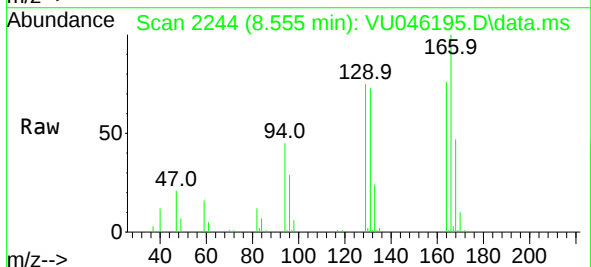


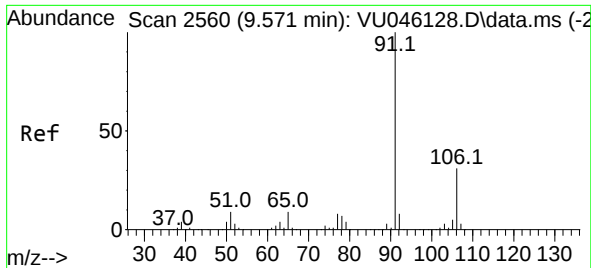
Tgt Ion:164 Resp: 34506
Ion Ratio Lower Upper
164 100
129 98.7 71.1 132.1
131 96.0 67.8 126.0
166 131.0 90.6 168.2



#49
Dibromochloromethane
Concen: 18.971 ug/L
RT: 8.555 min Scan# 2244
Delta R.T. -0.257 min
Lab File: VU046195.D
Acq: 08 Dec 2021 22:57

Tgt Ion:129 Resp: 31950
Ion Ratio Lower Upper
129 100
127 0.0 55.6 103.4#

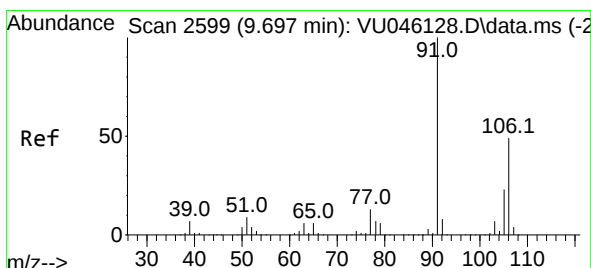
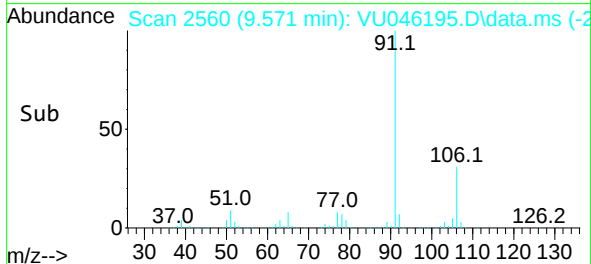
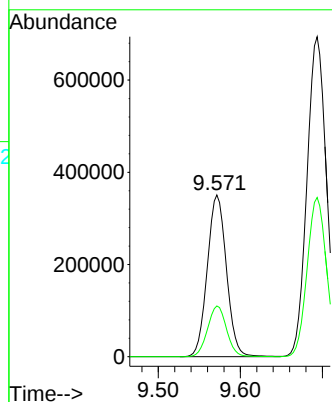
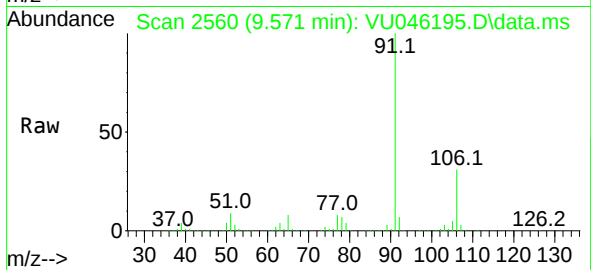




#52
Ethylbenzene
Concen: 80.804 ug/L
RT: 9.571 min Scan# 2560
Delta R.T. -0.003 min
Lab File: VU046195.D
Acq: 08 Dec 2021 22:57

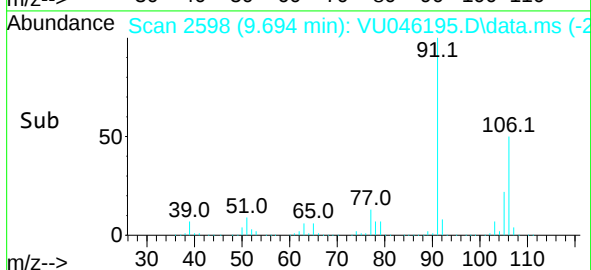
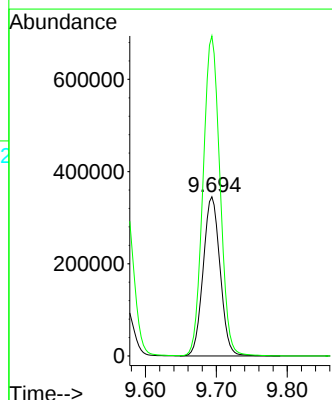
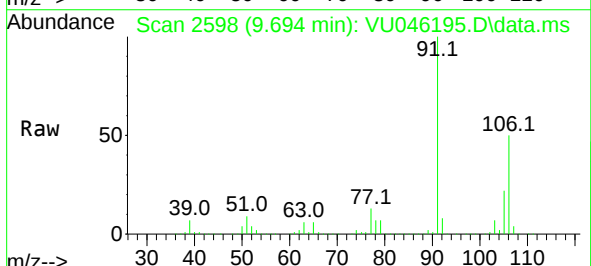
Instrument :
MSVOA_U
ClientSampleId :

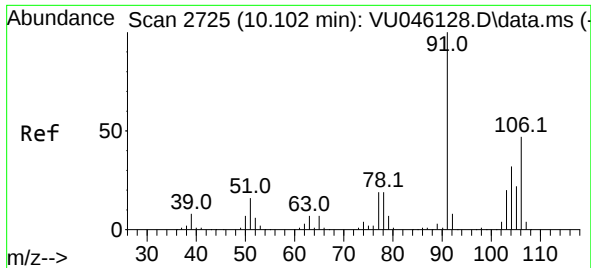
Tgt Ion: 91 Resp: 569440
Ion Ratio Lower Upper
91 100
106 31.4 21.1 39.3



#53
m,p-Xylene
Concen: 208.601 ug/L
RT: 9.694 min Scan# 2598
Delta R.T. -0.003 min
Lab File: VU046195.D
Acq: 08 Dec 2021 22:57

Tgt Ion:106 Resp: 573302
Ion Ratio Lower Upper
106 100
91 201.1 144.3 268.1

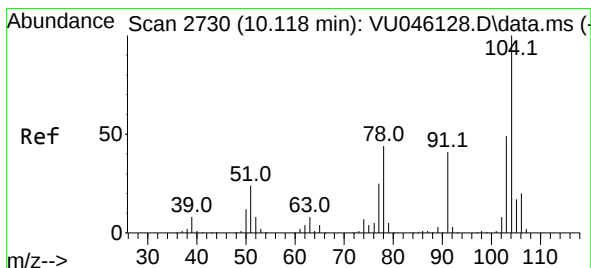
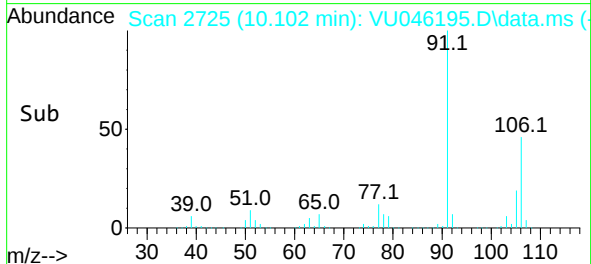
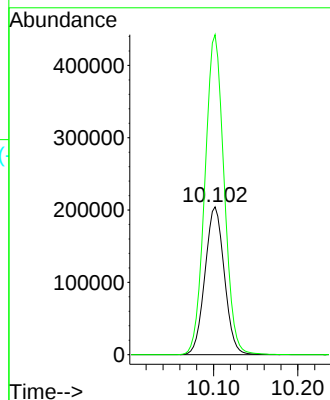
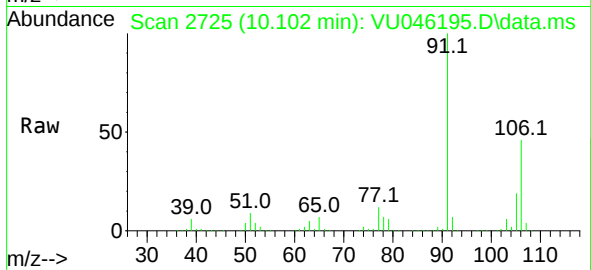




#54
o-xylene
Concen: 122.584 ug/L
RT: 10.102 min Scan# 2725
Delta R.T. -0.003 min
Lab File: VU046195.D
Acq: 08 Dec 2021 22:57

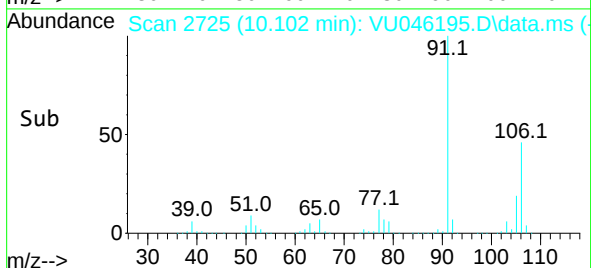
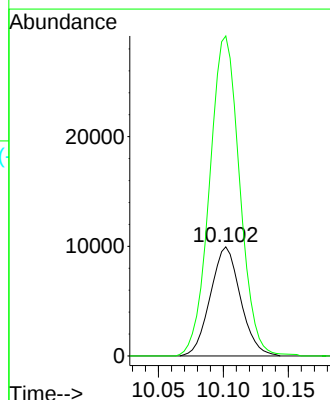
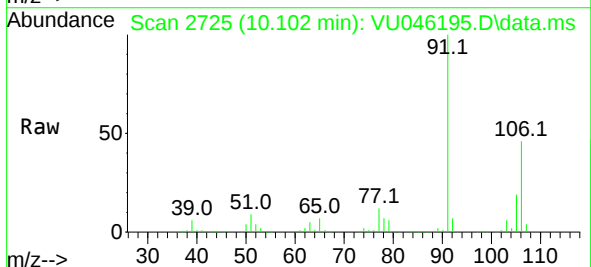
Instrument :
MSVOA_U
ClientSampleId :

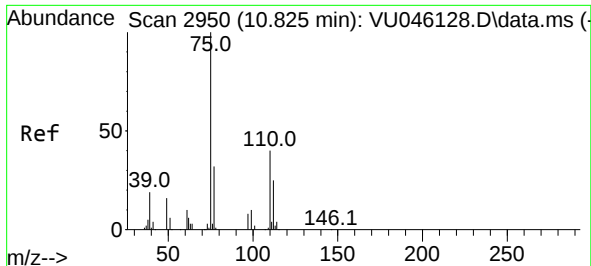
Tgt Ion:106 Resp: 326905
Ion Ratio Lower Upper
106 100
91 216.5 154.2 286.4



#55
Styrene
Concen: 3.525 ug/L
RT: 10.102 min Scan# 2725
Delta R.T. -0.016 min
Lab File: VU046195.D
Acq: 08 Dec 2021 22:57

Tgt Ion:104 Resp: 16050
Ion Ratio Lower Upper
104 100
78 293.4 32.6 60.5#

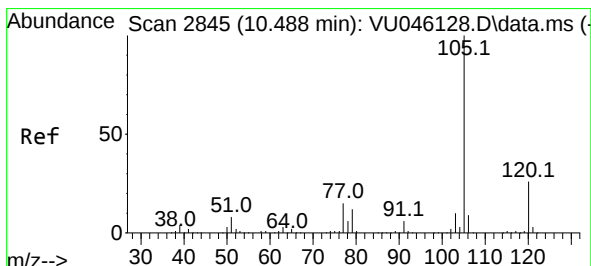
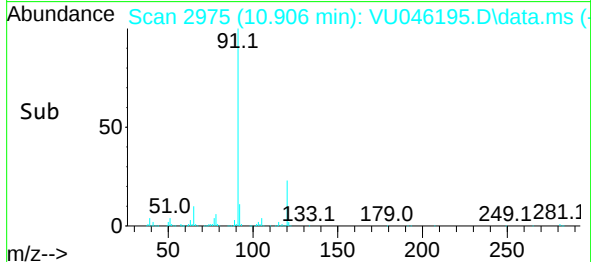
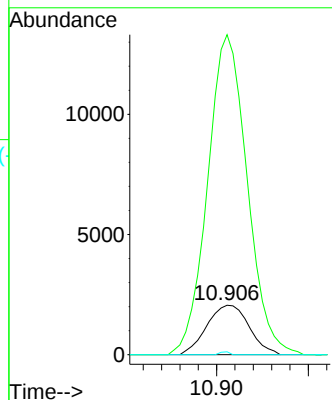
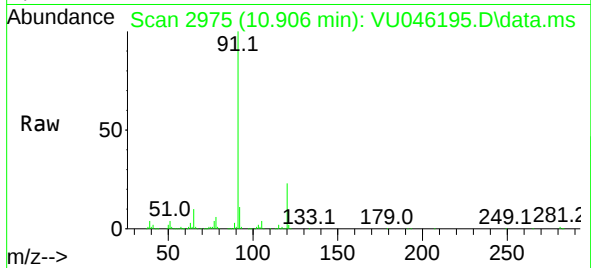




#60
1,2,3-Trichloropropane
Concen: 1.384 ug/L
RT: 10.906 min Scan# 2950
Delta R.T. 0.080 min
Lab File: VU046195.D
Acq: 08 Dec 2021 22:57

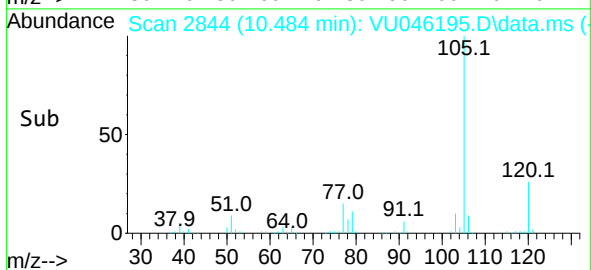
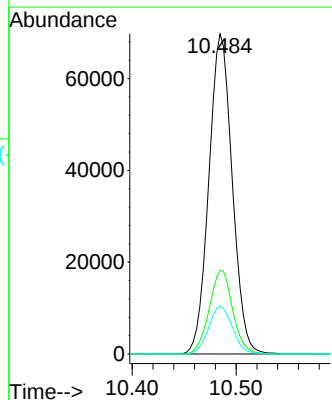
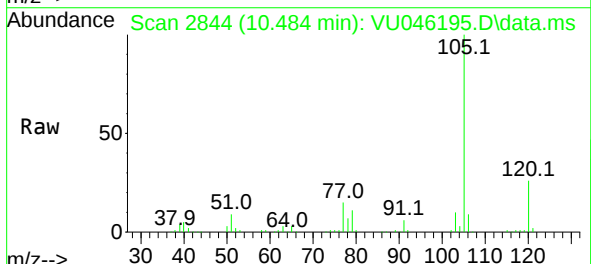
Instrument :
MSVOA_U
ClientSampleId :

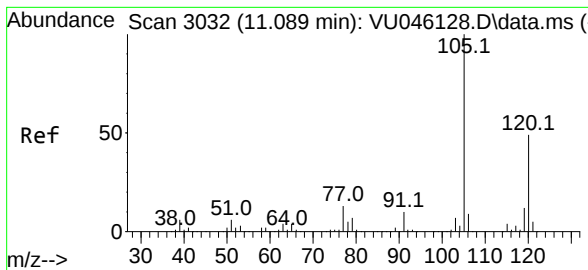
Tgt Ion: 75 Resp: 3296
Ion Ratio Lower Upper
75 100
77 605.1 26.4 39.6#
110 1.3 32.4 48.6#



#61
Isopropylbenzene
Concen: 15.390 ug/L
RT: 10.484 min Scan# 2844
Delta R.T. -0.003 min
Lab File: VU046195.D
Acq: 08 Dec 2021 22:57

Tgt Ion: 105 Resp: 108766
Ion Ratio Lower Upper
105 100
120 26.2 20.7 31.1
77 15.2 12.2 18.4

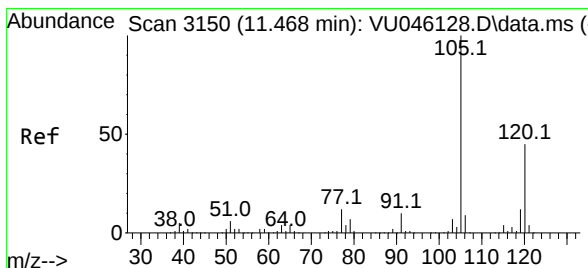
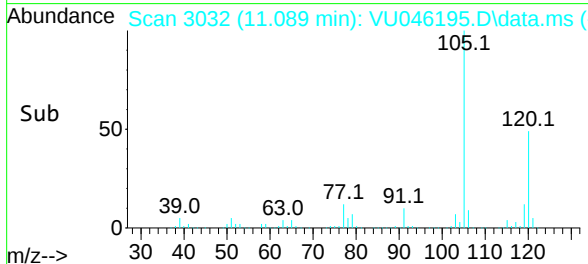
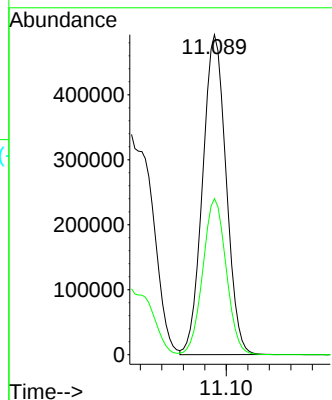
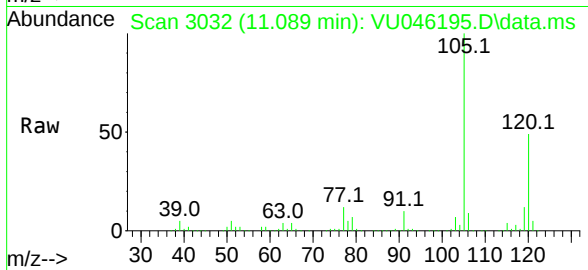




#62
1,3,5-Trimethylbenzene
Concen: 126.926 ug/L
RT: 11.089 min Scan# 3032
Delta R.T. -0.003 min
Lab File: VU046195.D
Acq: 08 Dec 2021 22:57

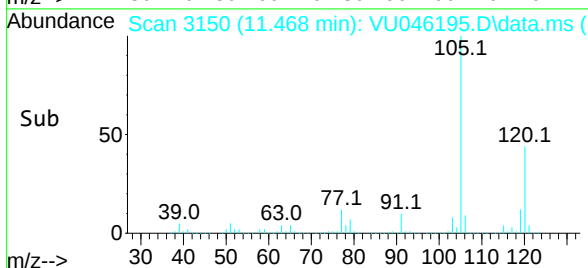
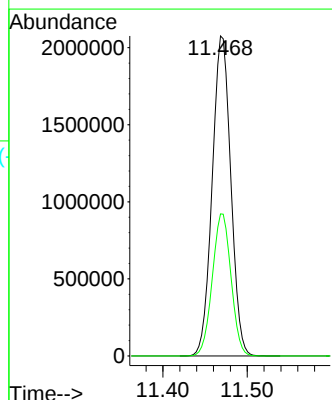
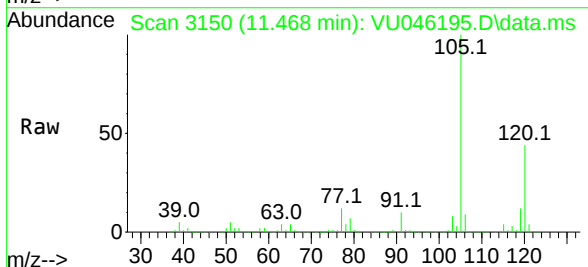
Instrument :
MSVOA_U
ClientSampleId :

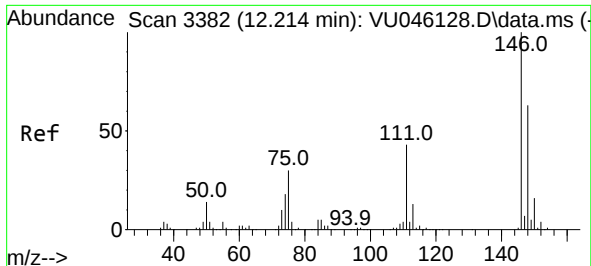
Tgt Ion:105 Resp: 747672
Ion Ratio Lower Upper
105 100
120 48.5 37.8 56.6



#63
1,2,4-Trimethylbenzene
Concen: 539.902 ug/L
RT: 11.468 min Scan# 3150
Delta R.T. -0.003 min
Lab File: VU046195.D
Acq: 08 Dec 2021 22:57

Tgt Ion:105 Resp: 3181895
Ion Ratio Lower Upper
105 100
120 44.7 35.2 52.8

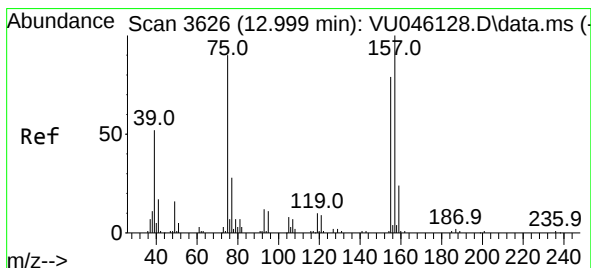
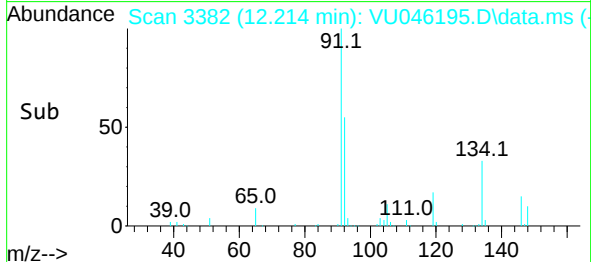
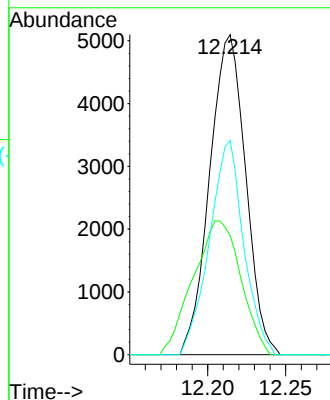
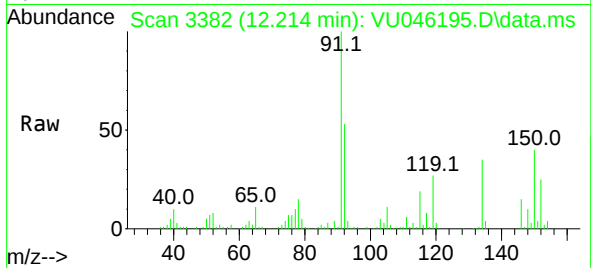




#67
1,2-Dichlorobenzene
Concen: 2.418 ug/L
RT: 12.214 min Scan# 311
Delta R.T. 0.000 min
Lab File: VU046195.D
Acq: 08 Dec 2021 22:57

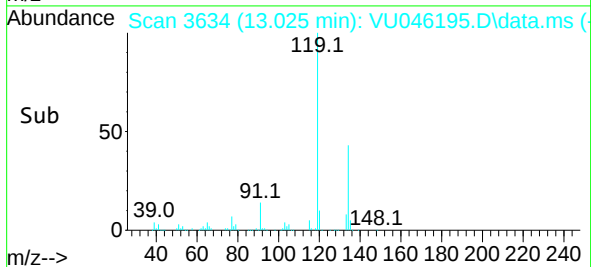
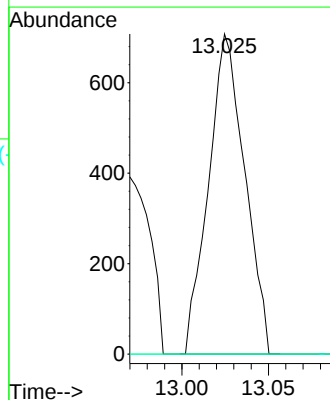
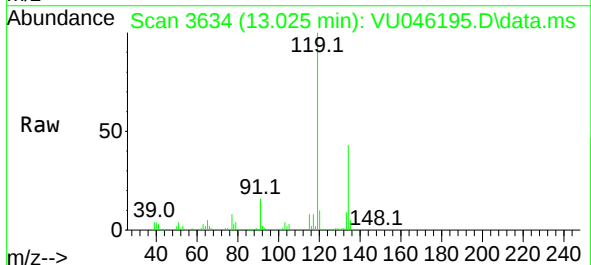
Instrument :
MSVOA_U
ClientSampleId :

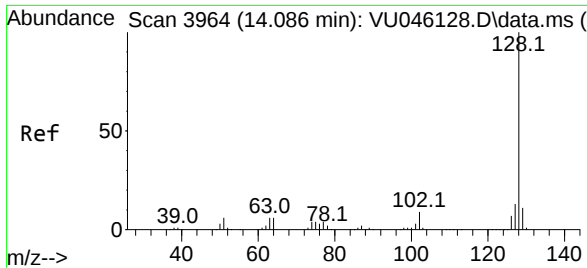
Tgt Ion:146 Resp: 8174
Ion Ratio Lower Upper
146 100
111 37.2 35.7 53.5
148 66.9 51.2 76.8



#68
1,2-Dibromo-3-chloropropane
Concen: 1.625 ug/L
RT: 13.025 min Scan# 3634
Delta R.T. 0.026 min
Lab File: VU046195.D
Acq: 08 Dec 2021 22:57

Tgt Ion: 75 Resp: 1031
Ion Ratio Lower Upper
75 100
155 0.0 64.9 97.3#
157 0.0 81.9 122.9#





#71

Naphthalene

Concen: 29.144 ug/L

RT: 14.086 min Scan# 3964

Delta R.T. -0.003 min

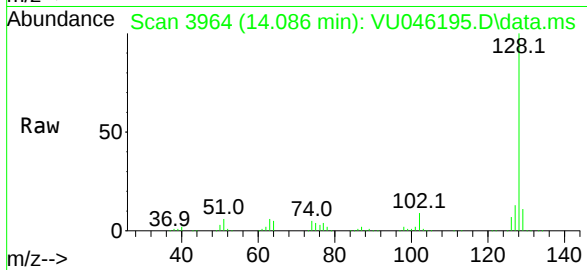
Lab File: VU046195.D

Acq: 08 Dec 2021 22:57

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:128 Resp: 220137

Ion Ratio Lower Upper

128 100

127 12.5 10.1 15.1

129 10.9 8.6 13.0

