

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU120421\
 Data File : VU046095.D
 Acq On : 04 Dec 2021 15:58
 Operator : SY/MD
 Sample : M4942-07
 Misc : 7.42g/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 05 08:16:10 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	317982	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.430	117	307060	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.822	152	149727	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.601	65	76698	29.281	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	58.560%#
7) Chloroethane-d5	1.916	69	49691	24.708	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	49.420%#
11) 1,1-Dichloroethene-d2	2.539	63	69748	14.833	ug/L	-0.04
Spiked Amount	50.000	Range	60 - 125	Recovery	=	29.660%#
21) 2-Butanone-d5	4.668	46	125279	60.164	ug/L	0.03
Spiked Amount	100.000	Range	40 - 130	Recovery	=	60.160%
24) Chloroform-d	5.070	84	139003	31.778	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	63.560%#
26) 1,2-Dichloroethane-d4	5.706	65	92673	31.569	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	63.140%#
32) Benzene-d6	5.723	84	301754	34.287	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	68.580%#
36) 1,2-Dichloropropane-d6	6.694	67	94531	34.658	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	69.320%#
41) Toluene-d8	7.903	98	288281	35.976	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	71.960%#
43) trans-1,3-Dichloroprop...	8.185	79	46944	35.653	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	71.300%
47) 2-Hexanone-d5	8.694	63	95607	73.929	ug/L	0.06
Spiked Amount	100.000	Range	45 - 130	Recovery	=	73.930%
56) 1,1,2,2-Tetrachloroeth...	10.777	84	129083	31.206	ug/L	0.02
Spiked Amount	50.000	Range	65 - 120	Recovery	=	62.420%#
66) 1,2-Dichlorobenzene-d4	12.201	152	101292	35.128	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	70.260%#
Target Compounds						
					Qvalue	
10) 1,1,2-Trichloro-1,2,2-...	2.543	101	764	0.330	ug/L #	21
20) cis-1,2-Dichloroethene	4.668	96	17246	6.831	ug/L	95
33) Benzene	5.771	78	52649	5.665	ug/L	100
35) Methylcyclohexane	6.758	83	6730	1.773	ug/L #	85
37) 1,2-Dichloropropane	6.694	63	9577	3.934	ug/L #	92
39) cis-1,3-Dichloropropene	7.571	75	2701	0.729	ug/L #	68
42) Toluene	7.973	91	284379	28.517	ug/L	99
45) 1,1,2-Trichloroethane	8.366	97	3216	1.317	ug/L #	28
51) Chlorobenzene	9.456	112	6812	1.056	ug/L #	81
52) Ethylbenzene	9.581	91	1462508	136.273	ug/L	98
53) m,p-Xylene	9.703	106	1632404	390.021	ug/L	98
54) o-xylene	10.111	106	433943	106.850	ug/L	96
55) Styrene	10.111	104	24381	3.516	ug/L #	1
57) 1,1,2,2-Tetrachloroethane	10.812	83	8923	2.131	ug/L #	55
61) Isopropylbenzene	10.497	105	251739	25.841	ug/L	100
62) 1,3,5-Trimethylbenzene	11.099	105	299083	36.833	ug/L	98
63) 1,2,4-Trimethylbenzene	11.478	105	888665	109.389	ug/L	99
65) 1,4-Dichlorobenzene	11.848	146	6347	1.327	ug/L #	55
67) 1,2-Dichlorobenzene	12.221	146	66366	14.242	ug/L	99

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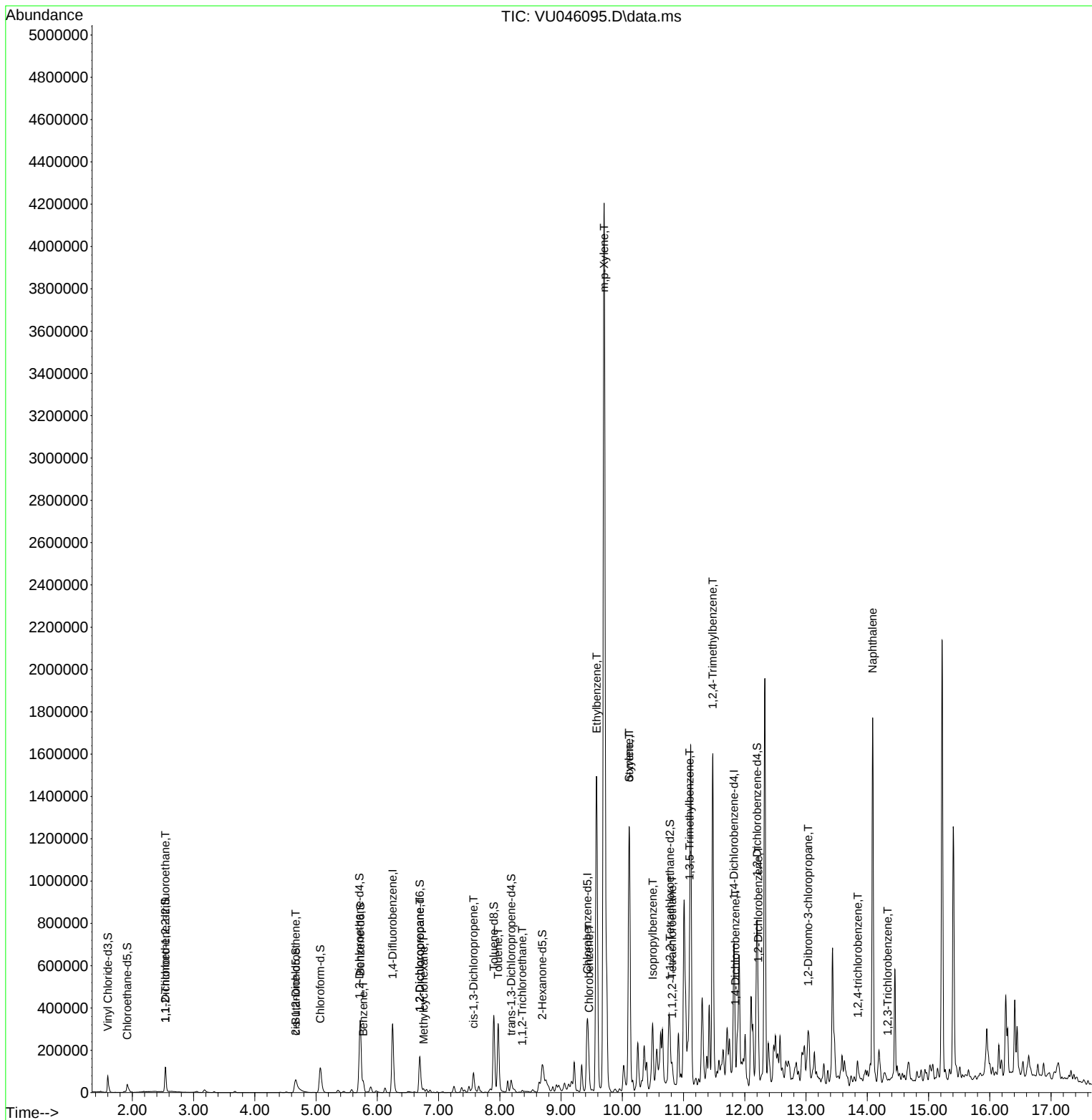
Instrument :
 MSVOA_U
 ClientSampleId :

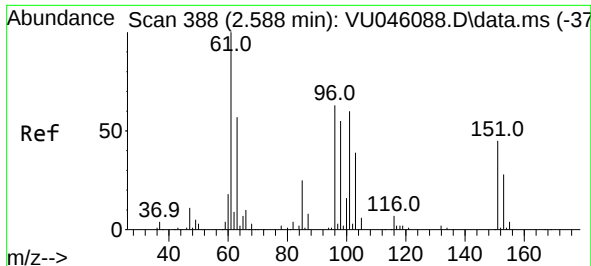
Quant Time: Dec 05 08:16:10 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Dec 03 05:08:36 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1,2-Dibromo-3-chloropr...	13.034	75	1884	2.155	ug/L #	16
70) 1,2,4-trichlorobenzene	13.844	180	10015	3.347	ug/L #	84
71) Naphthalene	14.089	128	1347827	129.450	ug/L	99
72) 1,2,3-Trichlorobenzene	14.333	180	3322	1.089	ug/L #	49

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

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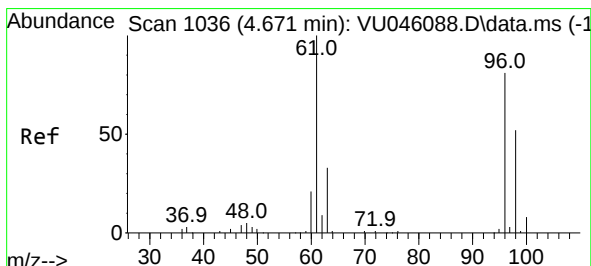
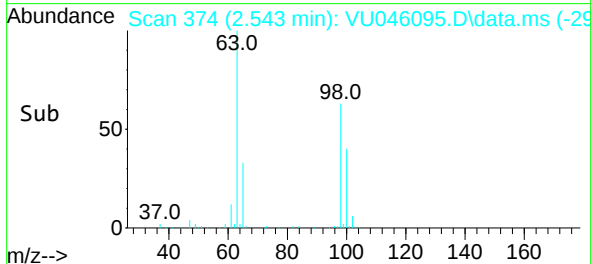
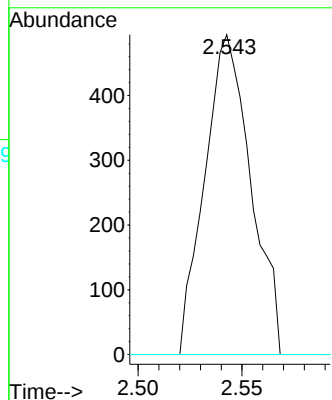
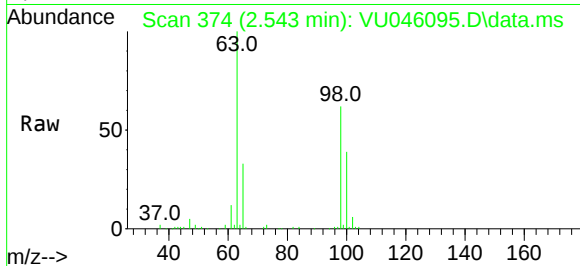




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.330 ug/L
RT: 2.543 min Scan# 31
Delta R.T. -0.045 min
Lab File: VU046095.D
Acq: 04 Dec 2021 15:58

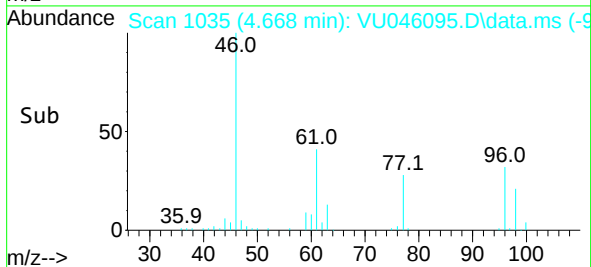
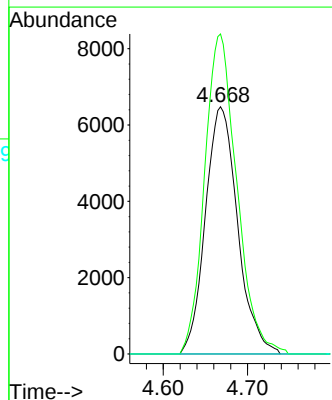
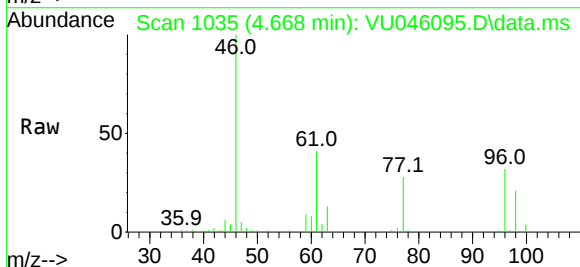
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MSVOA_U
ClientSampleId :

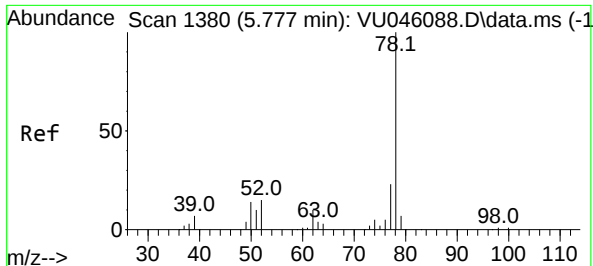
Tgt Ion:101 Resp: 764
Ion Ratio Lower Upper
101 100
85 0.0 35.1 52.7#
151 0.0 56.7 85.1#



#20
cis-1,2-Dichloroethene
Concen: 6.831 ug/L
RT: 4.668 min Scan# 1035
Delta R.T. -0.003 min
Lab File: VU046095.D
Acq: 04 Dec 2021 15:58

Tgt Ion: 96 Resp: 17246
Ion Ratio Lower Upper
96 100
61 129.4 86.8 161.2
68 0.0 0.0 0.0

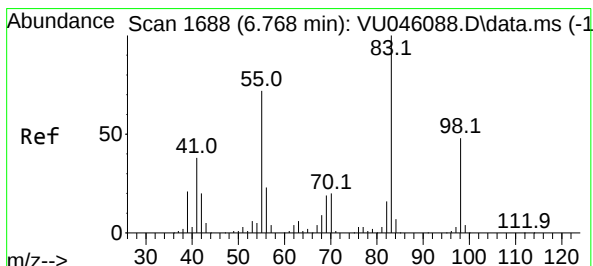
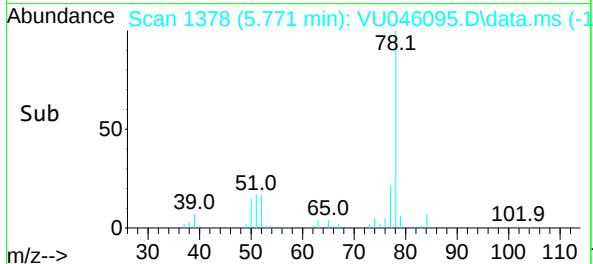
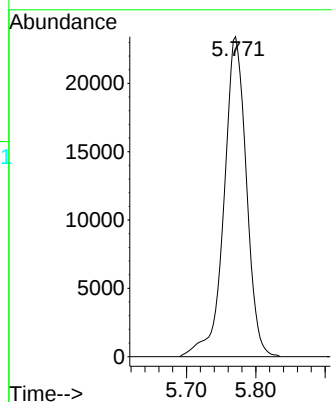
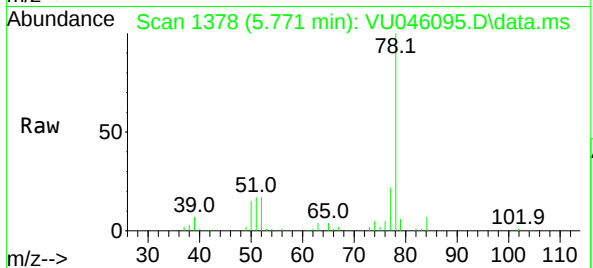




#33
Benzene
Concen: 5.665 ug/L
RT: 5.771 min Scan# 11
Delta R.T. -0.010 min
Lab File: VU046095.D
Acq: 04 Dec 2021 15:58

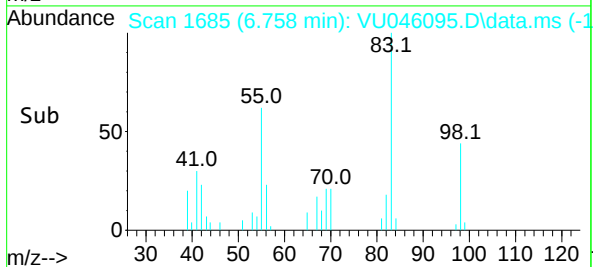
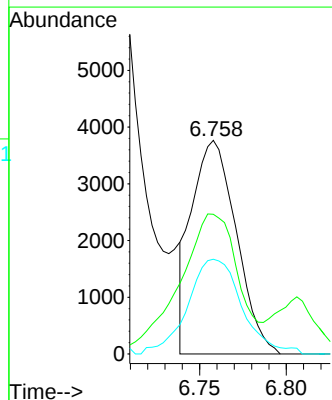
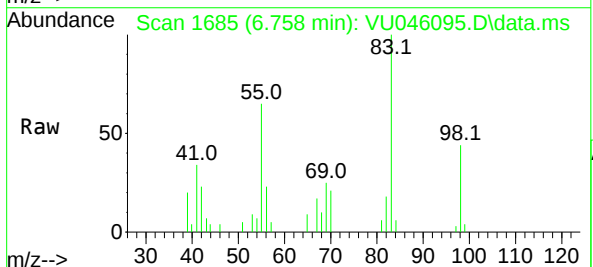
Instrument :
MSVOA_U
ClientSampleId :

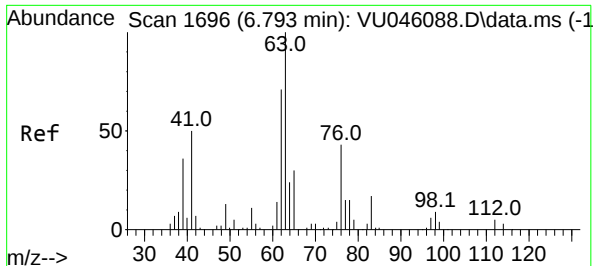
Tgt Ion: 78 Resp: 52649



#35
Methylcyclohexane
Concen: 1.773 ug/L
RT: 6.758 min Scan# 1685
Delta R.T. -0.010 min
Lab File: VU046095.D
Acq: 04 Dec 2021 15:58

Tgt Ion: 83 Resp: 6730
Ion Ratio Lower Upper
83 100
55 89.0 57.8 86.6#
98 53.4 38.4 57.6





#37

1,2-Dichloropropane

Concen: 3.934 ug/L

RT: 6.694 min Scan# 1

Delta R.T. -0.100 min

Lab File: VU046095.D

Acq: 04 Dec 2021 15:58

Instrument :

MSVOA_U

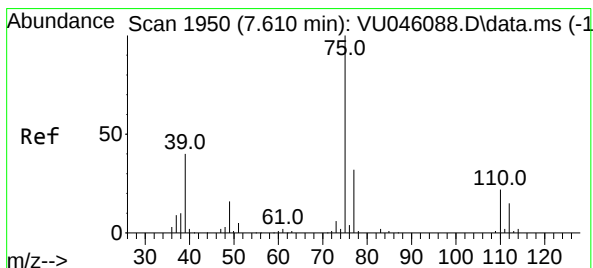
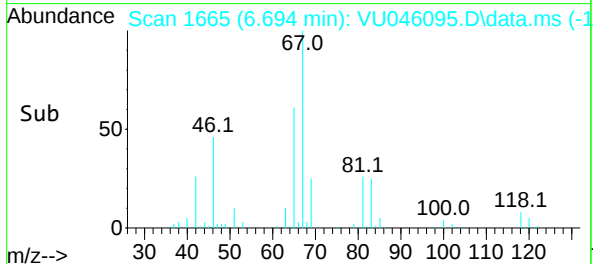
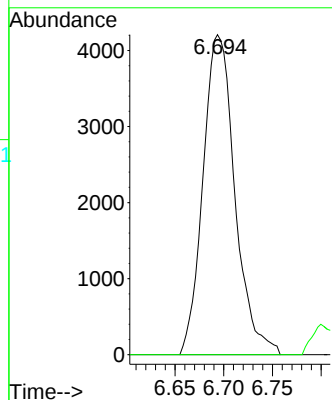
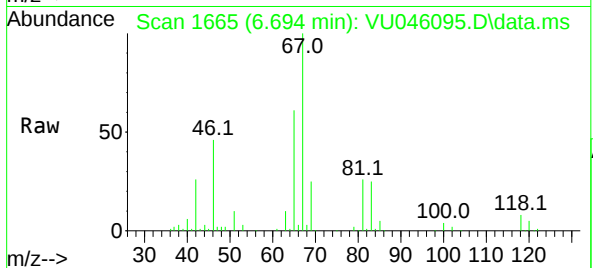
ClientSampleId :

Tgt Ion: 63 Resp: 9577

Ion Ratio Lower Upper

63 100

112 7.3 3.8 5.6#



#39

cis-1,3-Dichloropropene

Concen: 0.729 ug/L

RT: 7.571 min Scan# 1938

Delta R.T. -0.039 min

Lab File: VU046095.D

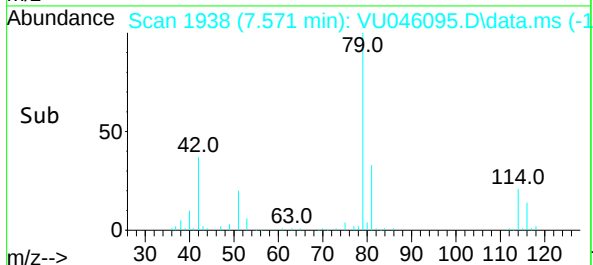
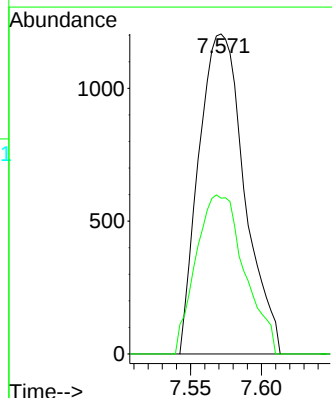
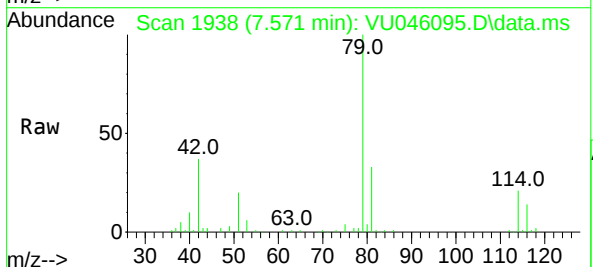
Acq: 04 Dec 2021 15:58

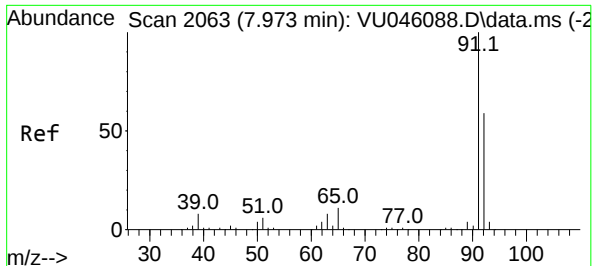
Tgt Ion: 75 Resp: 2701

Ion Ratio Lower Upper

75 100

77 48.7 21.8 40.6#

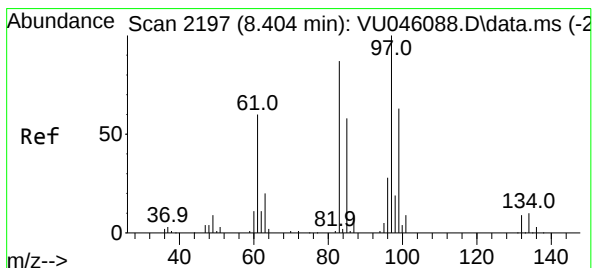
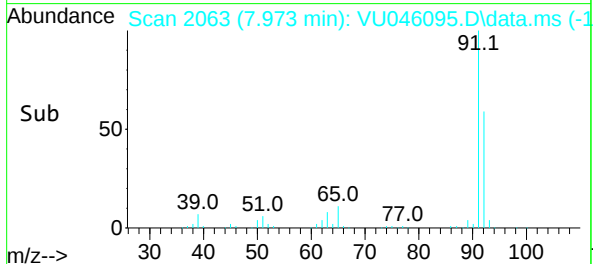
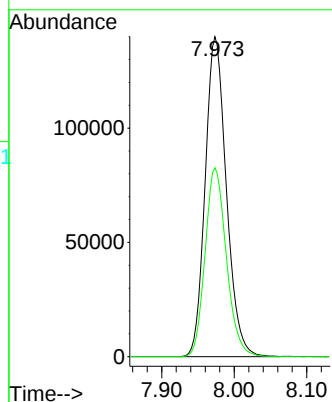
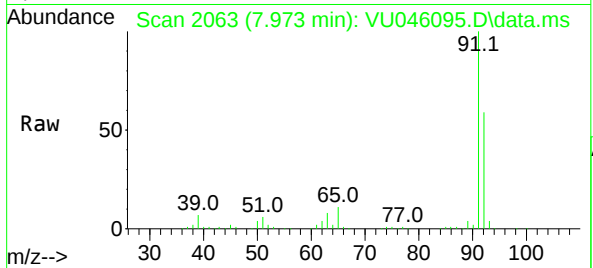




#42
Toluene
Concen: 28.517 ug/L
RT: 7.973 min Scan# 2063
Delta R.T. 0.000 min
Lab File: VU046095.D
Acq: 04 Dec 2021 15:58

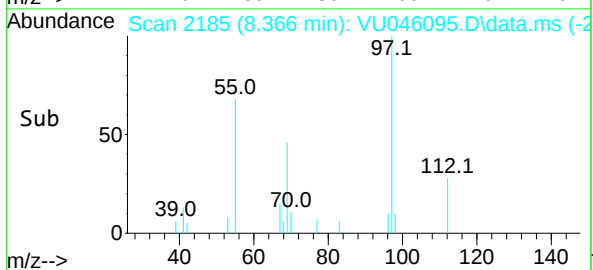
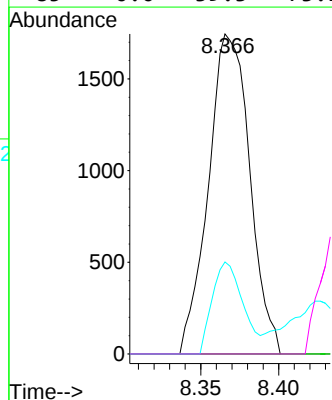
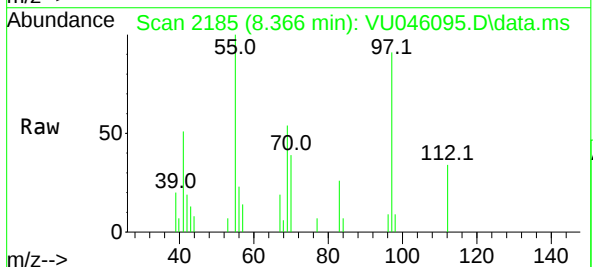
Instrument :
MSVOA_U
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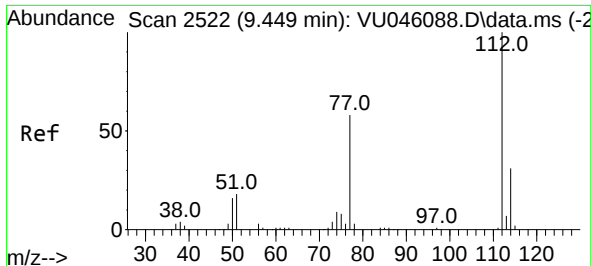
Tgt Ion: 91 Resp: 284379
Ion Ratio Lower Upper
91 100
92 59.0 41.9 77.7



#45
1,1,2-Trichloroethane
Concen: 1.317 ug/L
RT: 8.366 min Scan# 2185
Delta R.T. -0.039 min
Lab File: VU046095.D
Acq: 04 Dec 2021 15:58

Tgt Ion: 97 Resp: 3216
Ion Ratio Lower Upper
97 100
99 0.0 44.7 82.9#
83 28.8 60.2 111.8#
85 0.0 39.3 73.1#

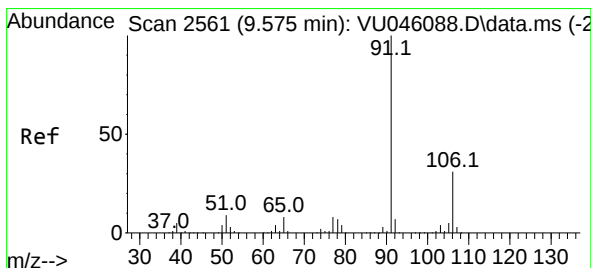
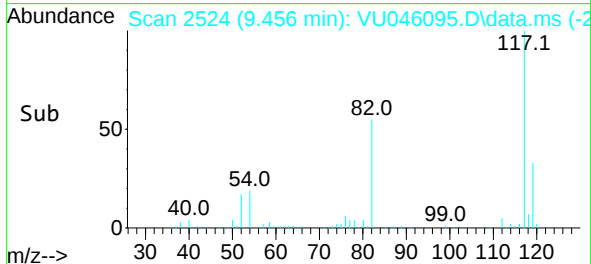
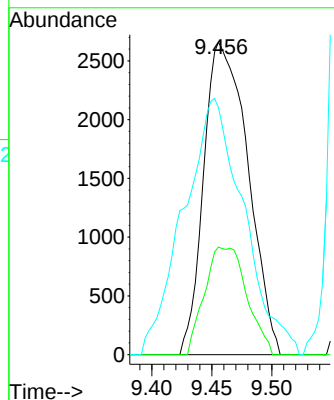
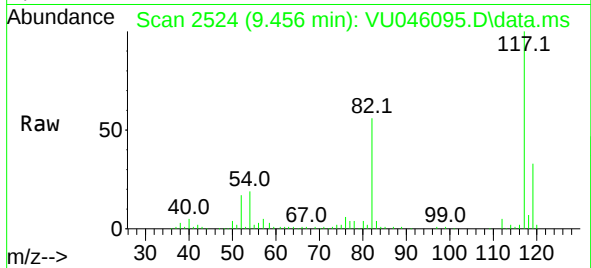




#51
Chlorobenzene
Concen: 1.056 ug/L
RT: 9.456 min Scan# 21
Delta R.T. 0.006 min
Lab File: VU046095.D
Acq: 04 Dec 2021 15:58

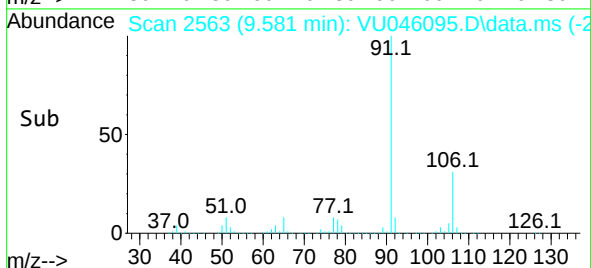
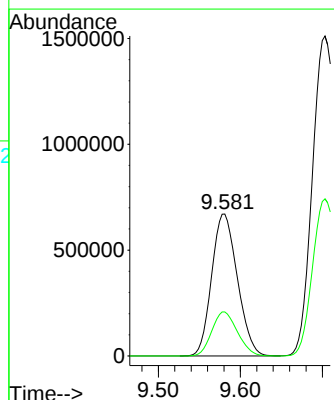
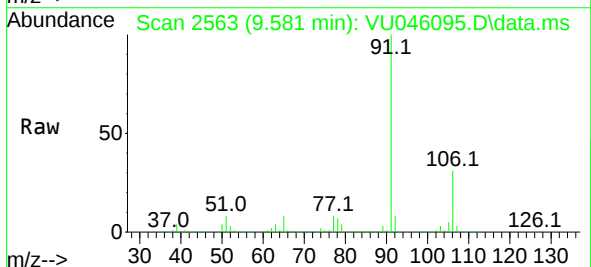
Instrument :
MSVOA_U
ClientSampleId :

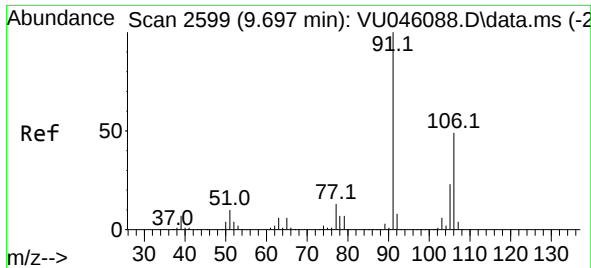
Tgt Ion:112 Resp: 6812
Ion Ratio Lower Upper
112 100
114 34.4 22.2 41.2
77 79.0 47.4 71.0#



#52
Ethylbenzene
Concen: 136.273 ug/L
RT: 9.581 min Scan# 2563
Delta R.T. 0.006 min
Lab File: VU046095.D
Acq: 04 Dec 2021 15:58

Tgt Ion: 91 Resp: 1462508
Ion Ratio Lower Upper
91 100
106 31.0 21.1 39.3

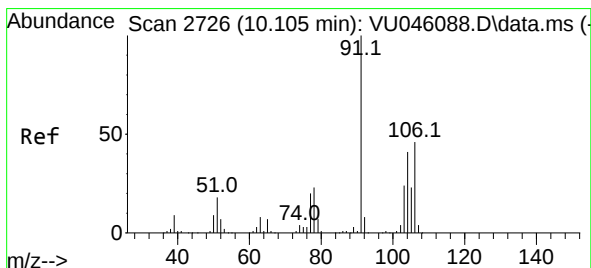
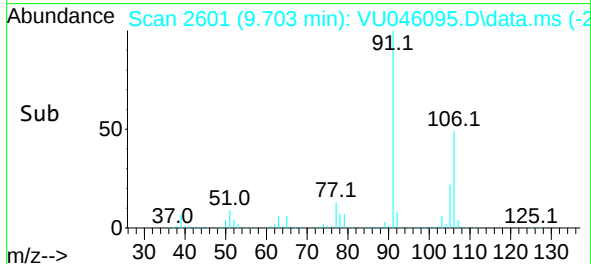
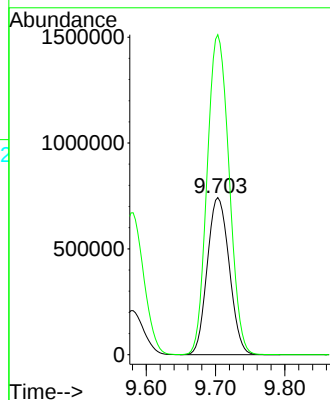
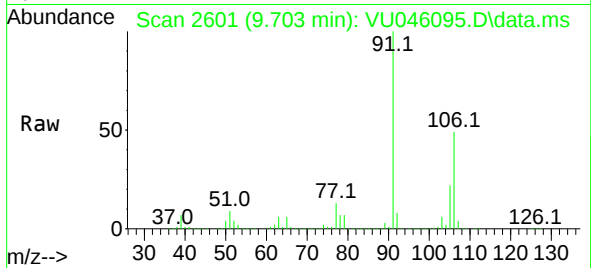




#53
m,p-Xylene
Concen: 390.021 ug/L
RT: 9.703 min Scan# 21
Delta R.T. 0.006 min
Lab File: VU046095.D
Acq: 04 Dec 2021 15:58

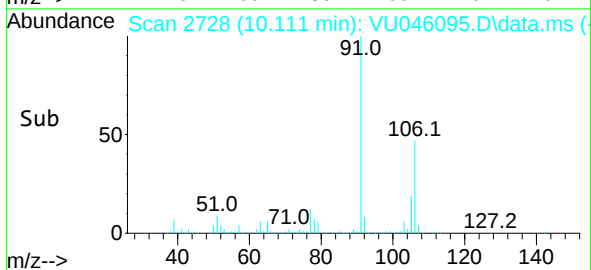
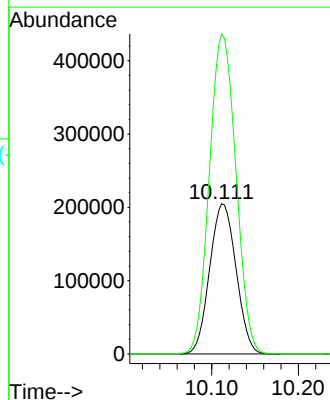
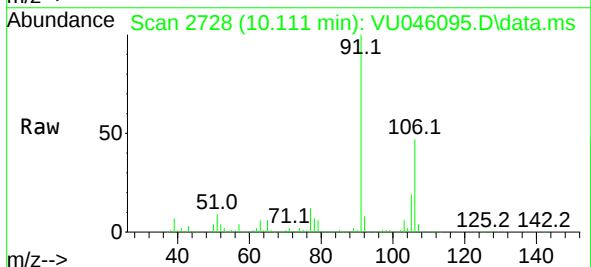
Instrument :
MSVOA_U
ClientSampleId :

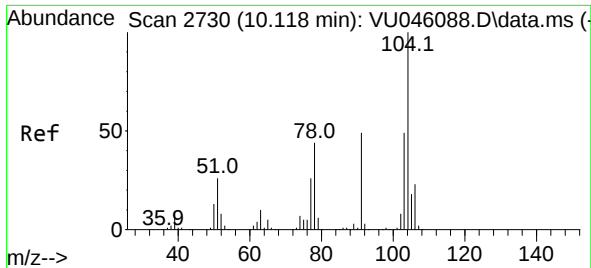
Tgt Ion:106 Resp: 1632404
Ion Ratio Lower Upper
106 100
91 203.7 144.3 268.1



#54
o-xylene
Concen: 106.850 ug/L
RT: 10.111 min Scan# 2728
Delta R.T. 0.006 min
Lab File: VU046095.D
Acq: 04 Dec 2021 15:58

Tgt Ion:106 Resp: 433943
Ion Ratio Lower Upper
106 100
91 213.1 154.2 286.4

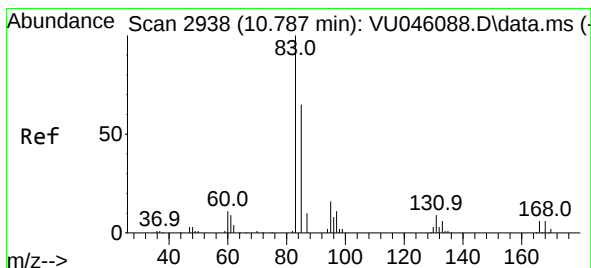
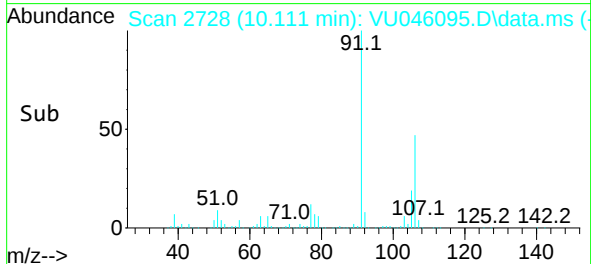
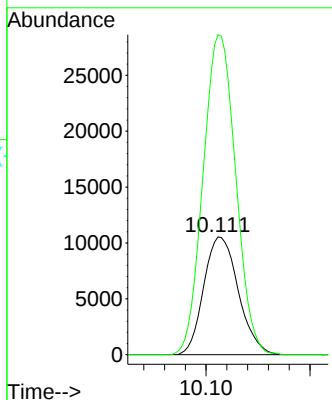
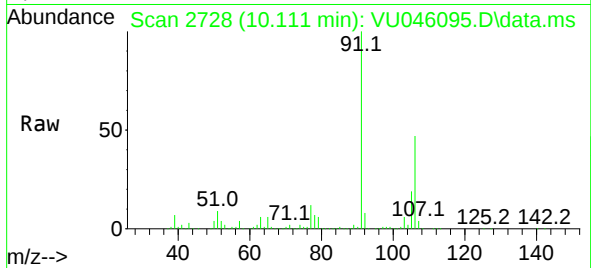




#55
Styrene
Concen: 3.516 ug/L
RT: 10.111 min Scan# 21
Delta R.T. -0.006 min
Lab File: VU046095.D
Acq: 04 Dec 2021 15:58

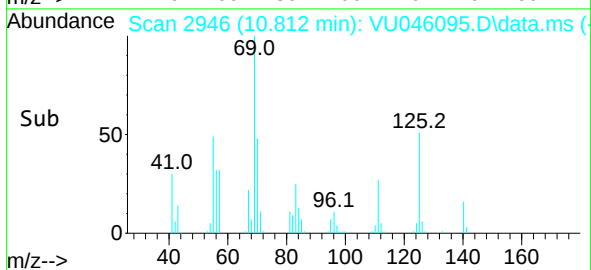
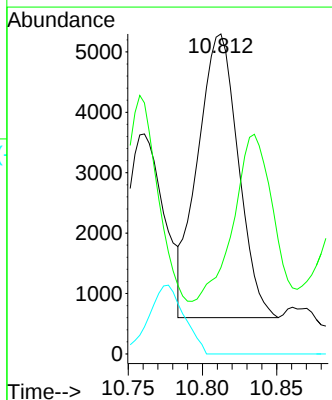
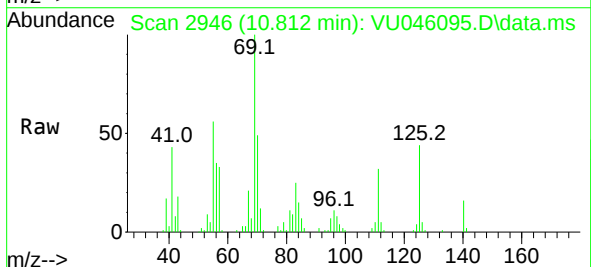
Instrument :
MSVOA_U
ClientSampleId :

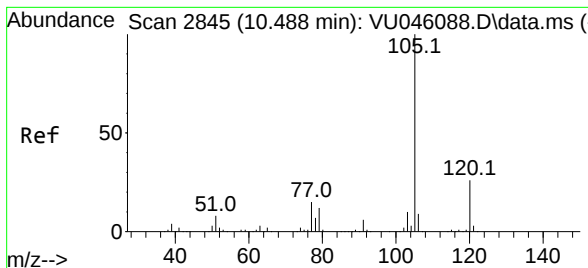
Tgt Ion:104 Resp: 24381
Ion Ratio Lower Upper
104 100
78 271.9 32.6 60.5#



#57
1,1,2,2-Tetrachloroethane
Concen: 2.131 ug/L
RT: 10.812 min Scan# 2946
Delta R.T. 0.026 min
Lab File: VU046095.D
Acq: 04 Dec 2021 15:58

Tgt Ion: 83 Resp: 8923
Ion Ratio Lower Upper
83 100
85 27.0 45.6 84.6#
131 0.0 7.8 11.6#





#61

Isopropylbenzene

Concen: 25.841 ug/L

RT: 10.497 min Scan# 2845

Delta R.T. 0.010 min

Lab File: VU046095.D

Acq: 04 Dec 2021 15:58

Instrument :

MSVOA_U

ClientSampleId :

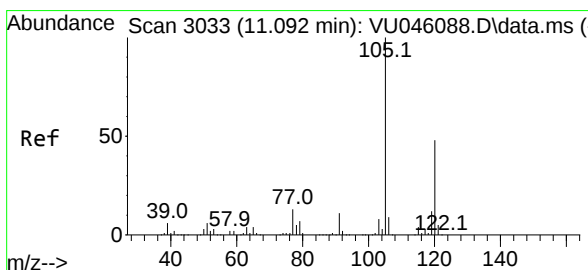
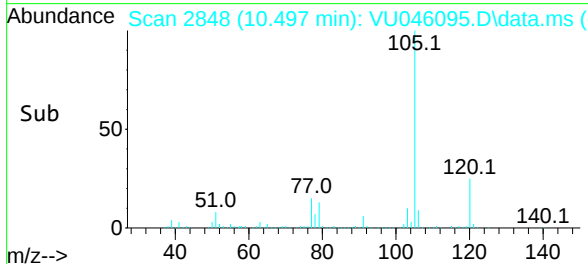
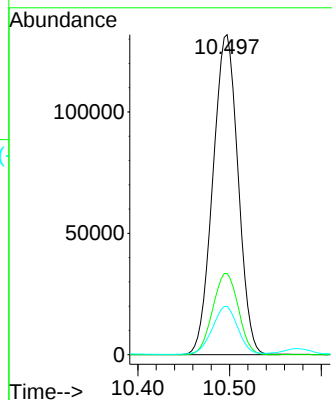
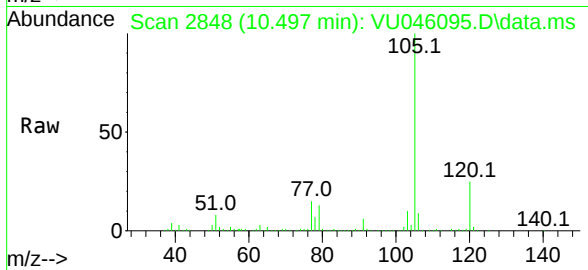
Tgt Ion:105 Resp: 251739

Ion Ratio Lower Upper

105 100

120 25.8 20.7 31.1

77 15.3 12.2 18.4



#62

1,3,5-Trimethylbenzene

Concen: 36.833 ug/L

RT: 11.099 min Scan# 3035

Delta R.T. 0.006 min

Lab File: VU046095.D

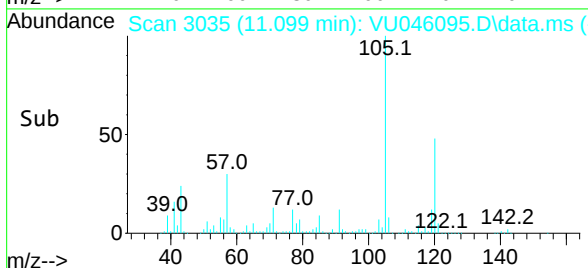
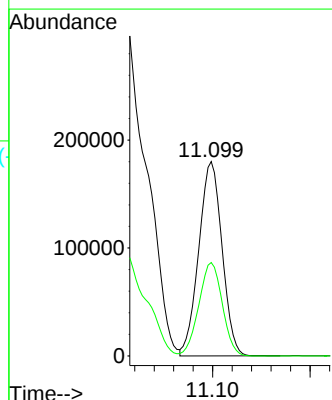
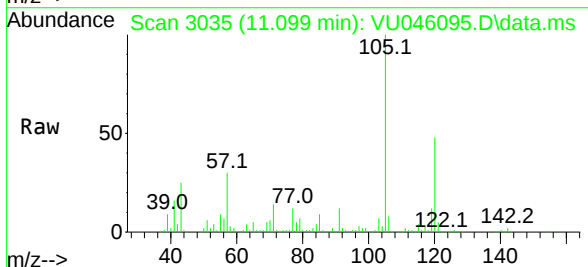
Acq: 04 Dec 2021 15:58

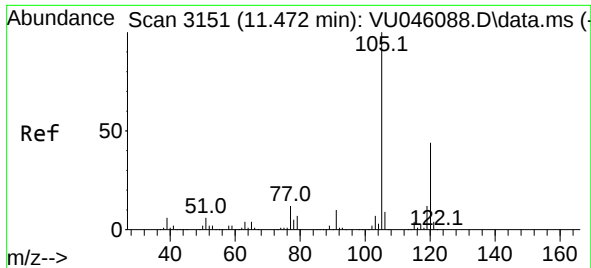
Tgt Ion:105 Resp: 299083

Ion Ratio Lower Upper

105 100

120 48.5 37.8 56.6

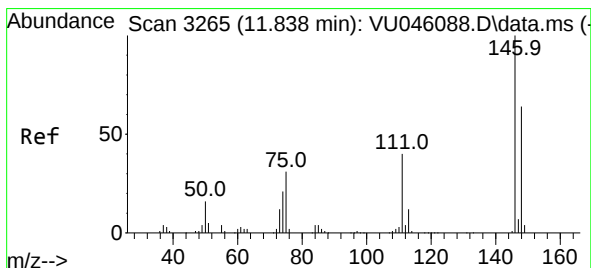
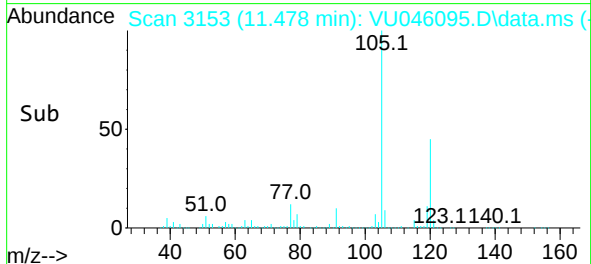
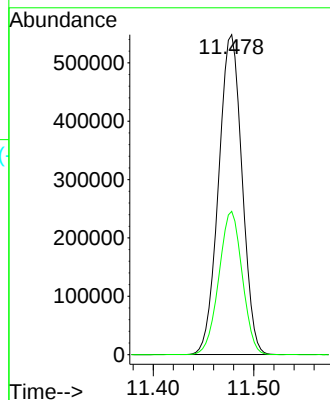
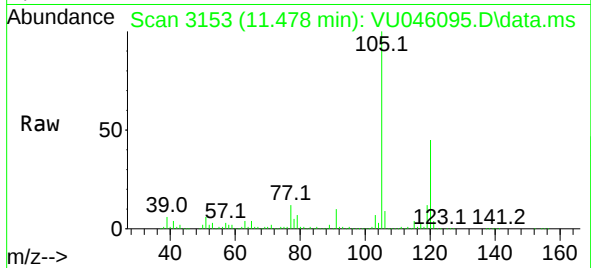




#63
1,2,4-Trimethylbenzene
Concen: 109.389 ug/L
RT: 11.478 min Scan# 3151
Delta R.T. 0.006 min
Lab File: VU046095.D
Acq: 04 Dec 2021 15:58

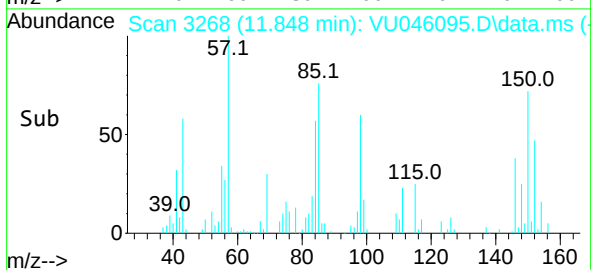
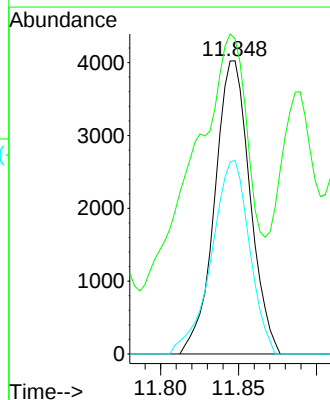
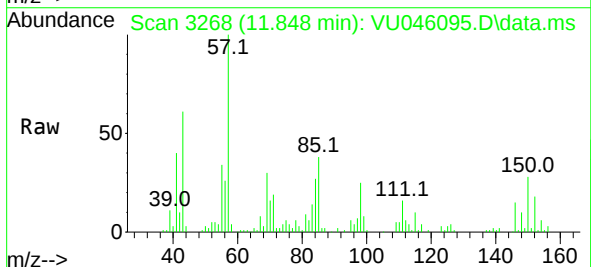
Instrument :
MSVOA_U
ClientSampleId :

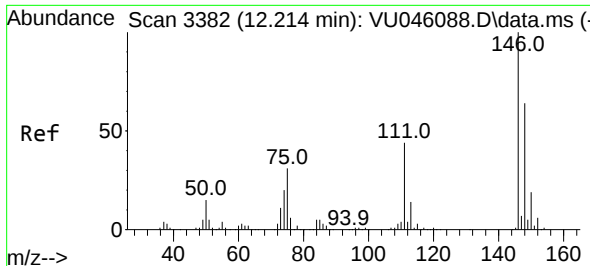
Tgt Ion:105 Resp: 888665
Ion Ratio Lower Upper
105 100
120 44.7 35.2 52.8



#65
1,4-Dichlorobenzene
Concen: 1.327 ug/L
RT: 11.848 min Scan# 3268
Delta R.T. 0.010 min
Lab File: VU046095.D
Acq: 04 Dec 2021 15:58

Tgt Ion:146 Resp: 6347
Ion Ratio Lower Upper
146 100
111 107.5 28.3 52.7#
148 66.1 43.8 81.3





#67

1,2-Dichlorobenzene

Concen: 14.242 ug/L

RT: 12.221 min Scan# 31

Delta R.T. 0.006 min

Lab File: VU046095.D

Acq: 04 Dec 2021 15:58

Instrument :

MSVOA_U

ClientSampleId :

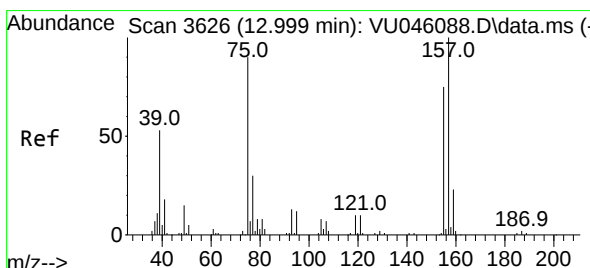
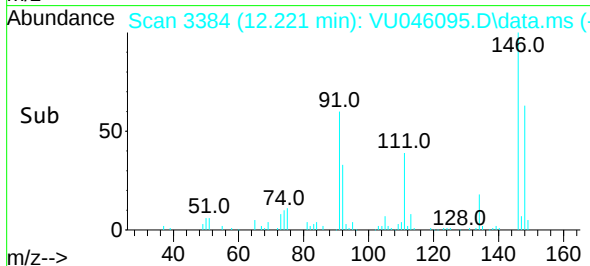
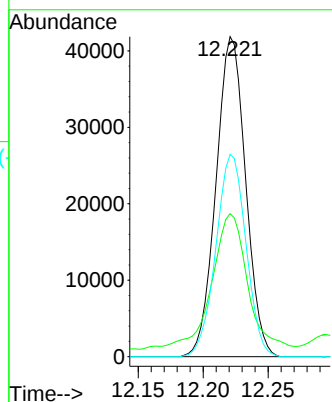
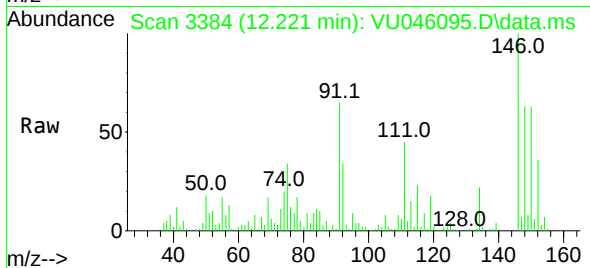
Tgt Ion:146 Resp: 66366

Ion Ratio Lower Upper

146 100

111 44.7 35.7 53.5

148 63.2 51.2 76.8



#68

1,2-Dibromo-3-chloropropane

Concen: 2.155 ug/L

RT: 13.034 min Scan# 3637

Delta R.T. 0.035 min

Lab File: VU046095.D

Acq: 04 Dec 2021 15:58

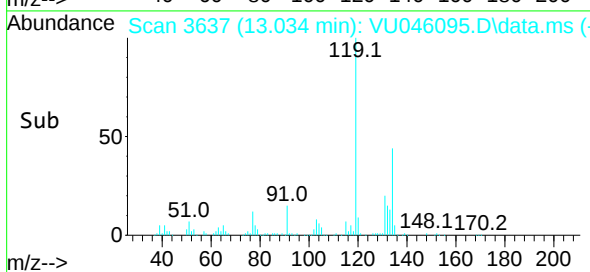
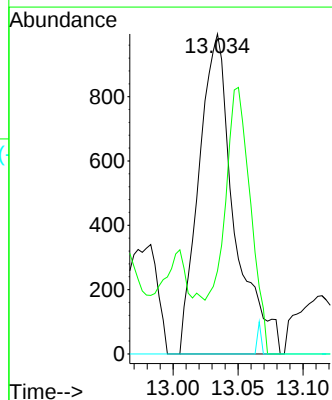
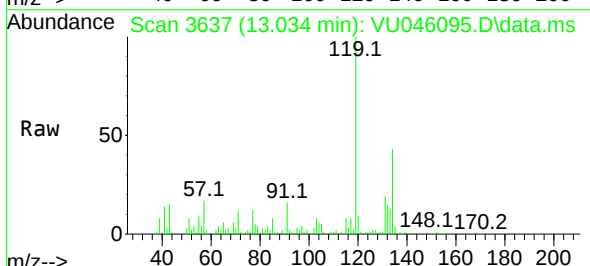
Tgt Ion: 75 Resp: 1884

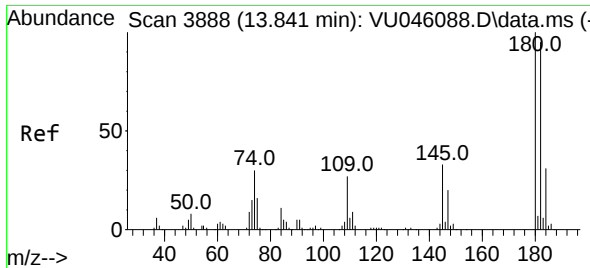
Ion Ratio Lower Upper

75 100

155 25.9 64.9 97.3#

157 0.0 81.9 122.9#

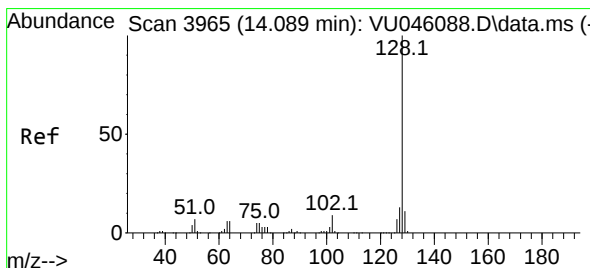
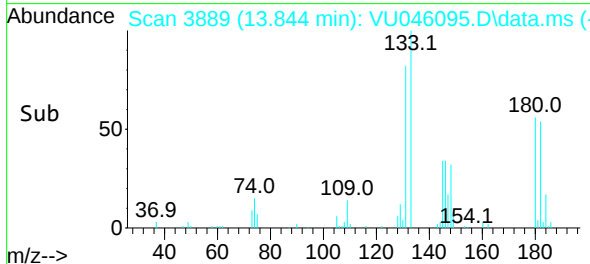
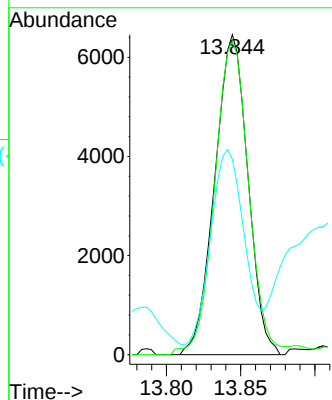
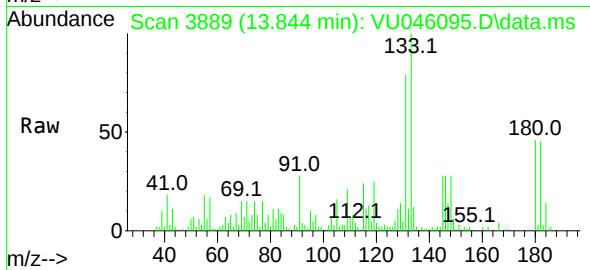




#70
1,2,4-trichlorobenzene
Concen: 3.347 ug/L
RT: 13.844 min Scan# 3888
Delta R.T. 0.003 min
Lab File: VU046095.D
Acq: 04 Dec 2021 15:58

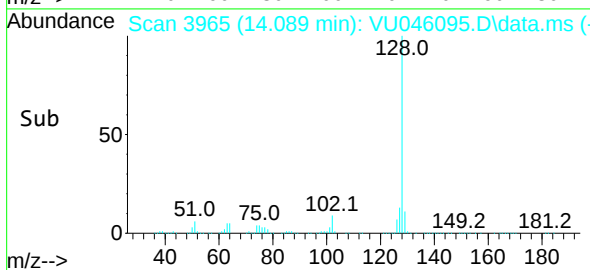
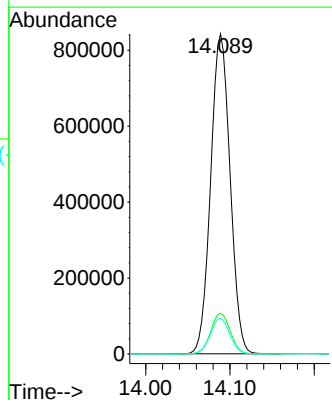
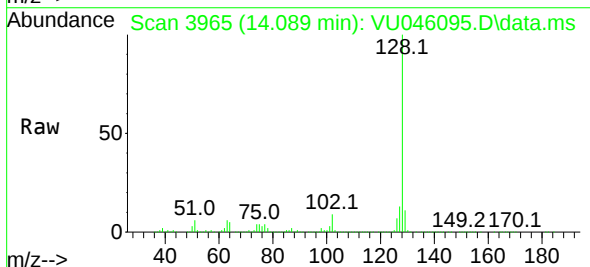
Instrument :
MSVOA_U
ClientSampleId :

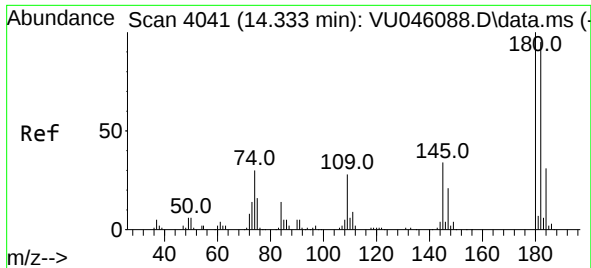
Tgt Ion:180 Resp: 10015
Ion Ratio Lower Upper
180 100
182 94.5 76.7 115.1
145 64.9 26.0 39.0#



#71
Naphthalene
Concen: 129.450 ug/L
RT: 14.089 min Scan# 3965
Delta R.T. 0.000 min
Lab File: VU046095.D
Acq: 04 Dec 2021 15:58

Tgt Ion:128 Resp: 1347827
Ion Ratio Lower Upper
128 100
127 12.8 10.1 15.1
129 11.1 8.6 13.0





#72

1,2,3-Trichlorobenzene

Concen: 1.089 ug/L

RT: 14.333 min Scan# 4041

Delta R.T. 0.003 min

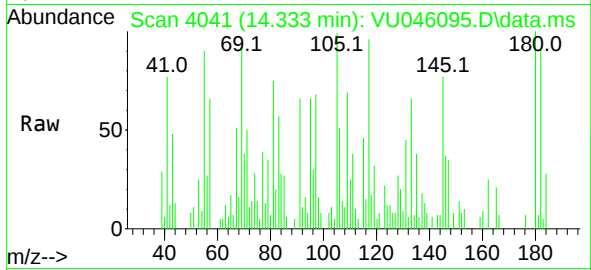
Lab File: VU046095.D

Acq: 04 Dec 2021 15:58

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:180 Resp: 3322

Ion Ratio Lower Upper

180 100

182 89.5 76.0 114.0

145 135.4 27.3 40.9#

