

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU120921\
 Data File : VU046226.D
 Acq On : 09 Dec 2021 17:43
 Operator : SY/MD
 Sample : M4983-14
 Misc : 5.1mL/MSVOA_U/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 10 03:45:30 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	6.253	114	138622	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.420	117	144724	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	81227	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.604	65	85182	74.597	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	= 149.200%#	
7) Chloroethane-d5	1.919	69	63384	72.295	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	= 144.600%#	
11) 1,1-Dichloroethene-d2	2.575	63	131001	63.906	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	= 127.820%#	
21) 2-Butanone-d5	4.642	46	137668	151.658	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	= 151.660%#	
24) Chloroform-d	5.070	84	134498	70.532	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	= 141.060%#	
26) 1,2-Dichloroethane-d4	5.703	65	93882	73.360	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	= 146.720%#	
32) Benzene-d6	5.732	84	298055	71.854	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	= 143.700%#	
36) 1,2-Dichloropropane-d6	6.693	67	93195	72.494	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	= 144.980%#	
41) Toluene-d8	7.899	98	267858	70.922	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	= 141.840%#	
43) trans-1,3-Dichloroprop...	8.179	79	47067	75.844	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	= 151.680%#	
47) 2-Hexanone-d5	8.636	63	94305	154.718	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	= 154.720%#	
56) 1,1,2,2-Tetrachloroeth...	10.758	84	145610	74.688	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	= 149.380%#	
66) 1,2-Dichlorobenzene-d4	12.195	152	111445	71.243	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	= 142.480%#	
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.607	62	85527	62.880	ug/L	99
8) Chloroethane	1.938	64	515824	654.984	ug/L	99
9) Trichlorofluoromethane	2.144	101	6513	3.668	ug/L	98
10) 1,1,2-Trichloro-1,2,2-...	2.575	101	1091	1.082	ug/L #	21
12) 1,1-Dichloroethene	2.588	96	40191	41.932	ug/L	85
17) trans-1,2-Dichloroethene	3.359	96	11152	10.994	ug/L	98
19) 1,1-Dichloroethane	3.877	63	1218109	660.477	ug/L	99
20) cis-1,2-Dichloroethene	4.671	96	1261422	1146.106	ug/L	99
25) Chloroform	5.092	83	13861	6.764	ug/L	98
27) 1,2-Dichloroethane	5.796	62	4272	2.809	ug/L	99
30) 1,1,1-Trichloroethane	5.324	97	3634793	2046.047	ug/L	99
33) Benzene	5.777	78	9209	2.102	ug/L	100
34) Trichloroethene	6.546	95	13571	11.761	ug/L	98
35) Methylcyclohexane	6.761	83	2447	1.368	ug/L	90
37) 1,2-Dichloropropane	6.693	63	9818	8.556	ug/L #	86
42) Toluene	7.970	91	196950	41.903	ug/L	99
44) trans-1,3-Dichloropropene	8.182	75	2011	1.173	ug/L	88
46) Tetrachloroethene	8.555	164	23490	27.700	ug/L	98
49) Dibromochloromethane	8.555	129	22986	19.015	ug/L #	10

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU120921\
 Data File : VU046226.D
 Acq On : 09 Dec 2021 17:43
 Operator : SY/MD
 Sample : M4983-14
 Misc : 5.1mL/MSVOA_U/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 10 03:45:30 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)

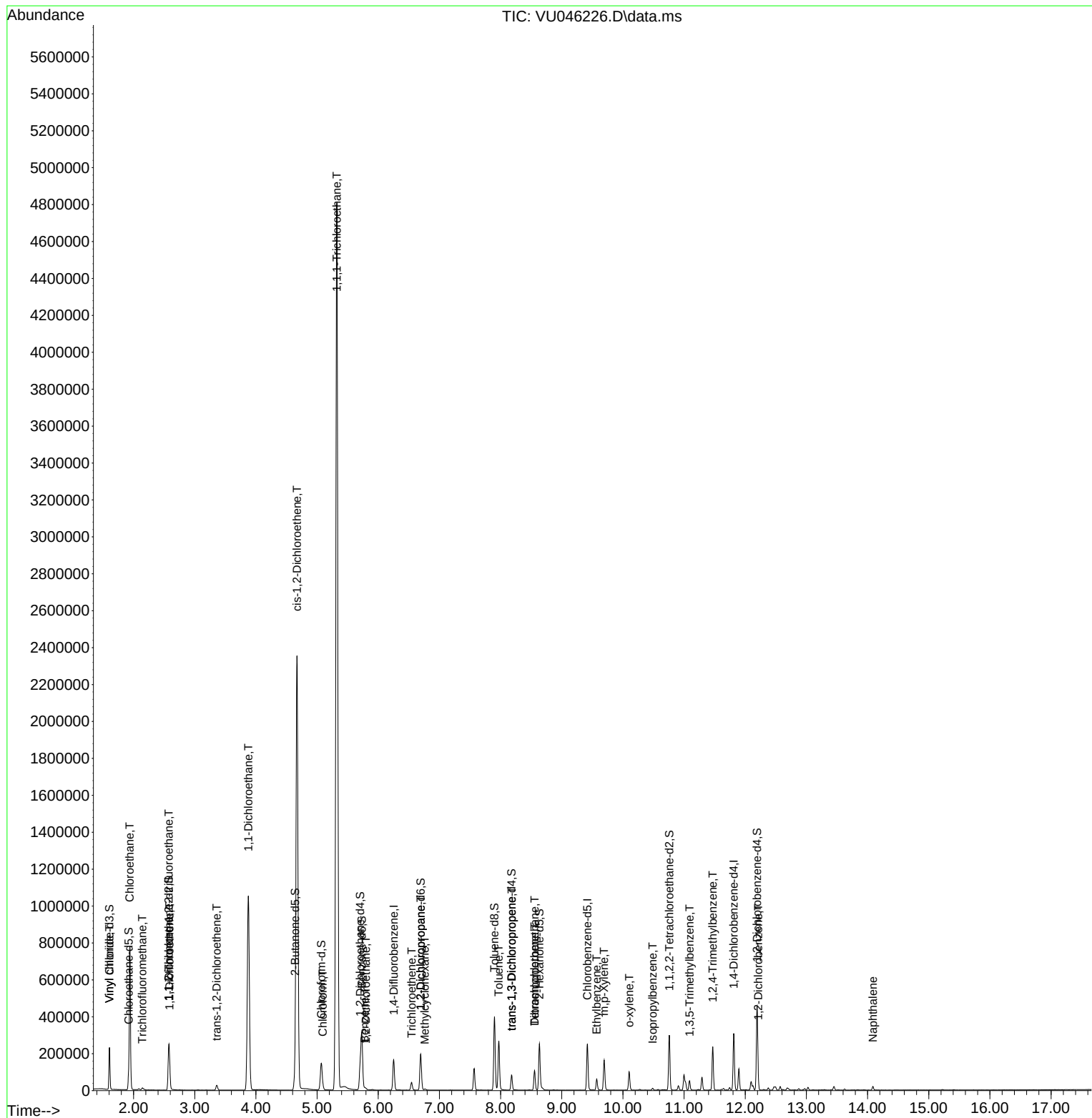
52) Ethylbenzene	9.571	91	42988	8.498	ug/L	98
53) m,p-Xylene	9.693	106	49283	24.983	ug/L	97
54) o-xylene	10.102	106	28188	14.726	ug/L	96
61) Isopropylbenzene	10.488	105	7318	1.385	ug/L	98
62) 1,3,5-Trimethylbenzene	11.089	105	28691	6.513	ug/L	100
63) 1,2,4-Trimethylbenzene	11.468	105	132685	30.106	ug/L	99
67) 1,2-Dichlorobenzene	12.211	146	5480	2.168	ug/L #	92
71) Naphthalene	14.089	128	16293	2.884	ug/L	99

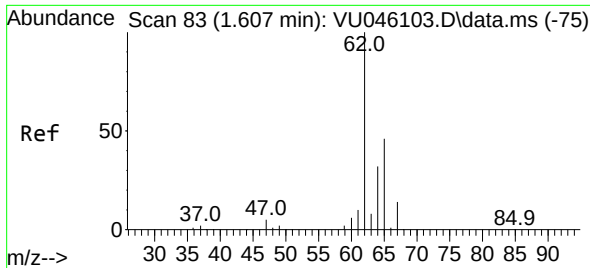
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU120921\
Data File : VU046226.D
Acq On : 09 Dec 2021 17:43
Operator : SY/MD
Sample : M4983-14
Misc : 5.1mL/MSVOA_U/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :

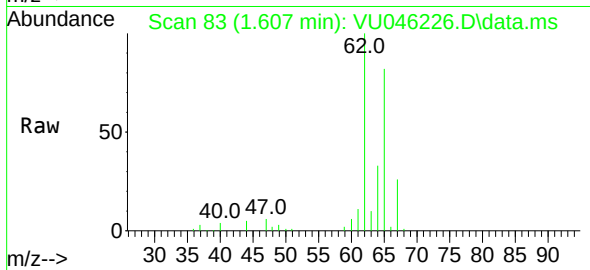
Quant Time: Dec 10 03:45:30 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Dec 03 05:08:36 2021
Response via : Initial Calibration



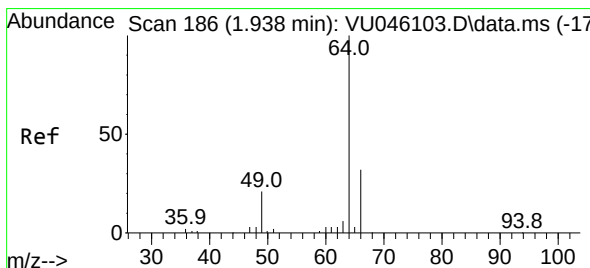
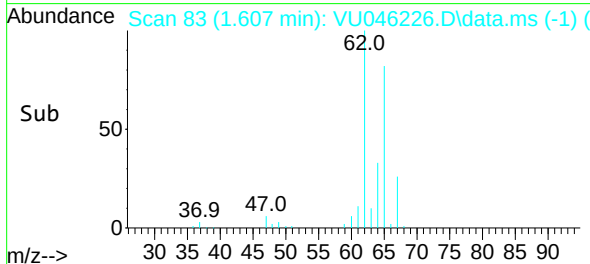
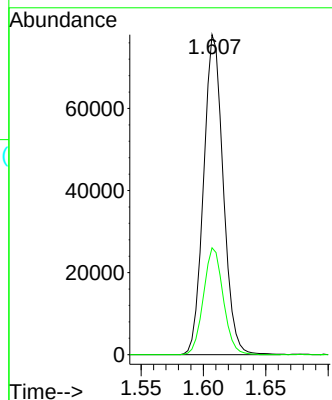


#5
 Vinyl chloride
 Concen: 62.880 ug/L
 RT: 1.607 min Scan# 83
 Delta R.T. -0.000 min
 Lab File: VU046226.D
 Acq: 09 Dec 2021 17:43

Instrument :
 MSVOA_U
 ClientSampleId :

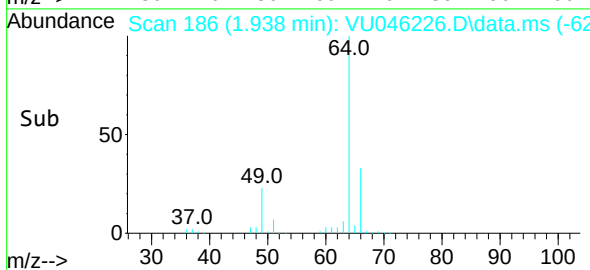
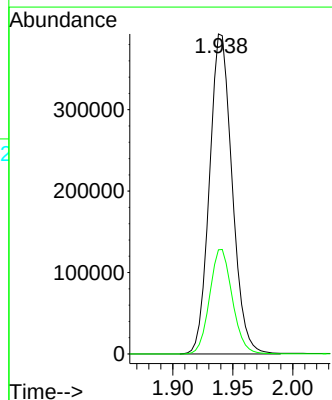
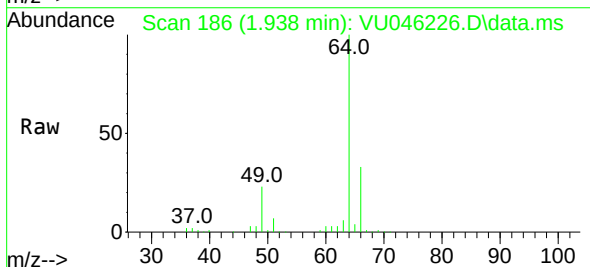


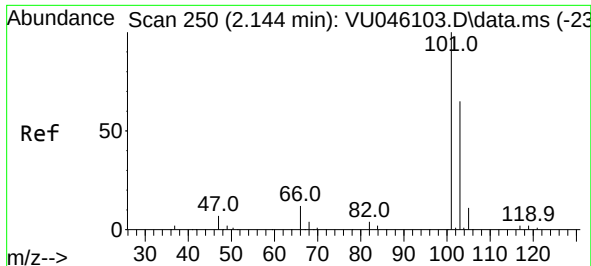
Tgt Ion: 62 Resp: 85527
 Ion Ratio Lower Upper
 62 100
 64 33.4 22.9 42.5



#8
 Chloroethane
 Concen: 654.984 ug/L
 RT: 1.938 min Scan# 186
 Delta R.T. -0.000 min
 Lab File: VU046226.D
 Acq: 09 Dec 2021 17:43

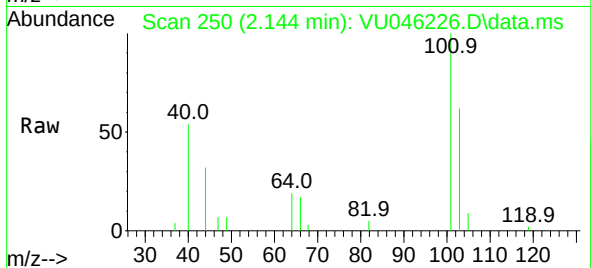
Tgt Ion: 64 Resp: 515824
 Ion Ratio Lower Upper
 64 100
 66 32.5 22.5 41.9



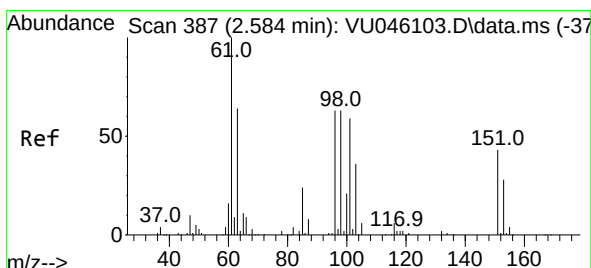
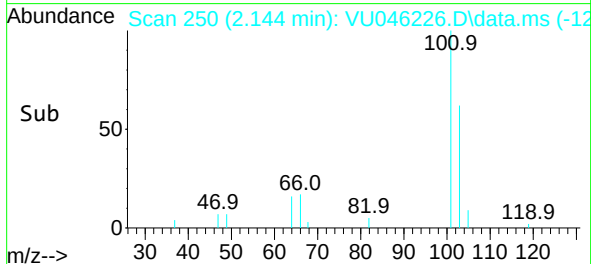
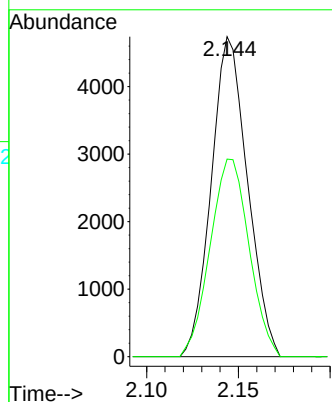


#9
 Trichlorofluoromethane
 Concen: 3.668 ug/L
 RT: 2.144 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VU046226.D
 Acq: 09 Dec 2021 17:43

Instrument :
 MSVOA_U
 ClientSampleId :

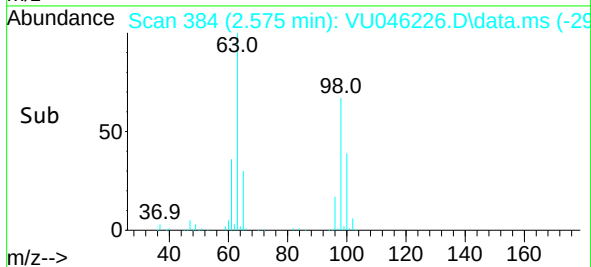
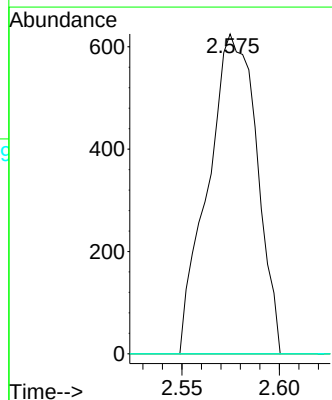
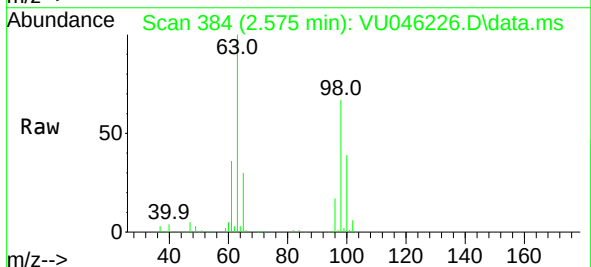


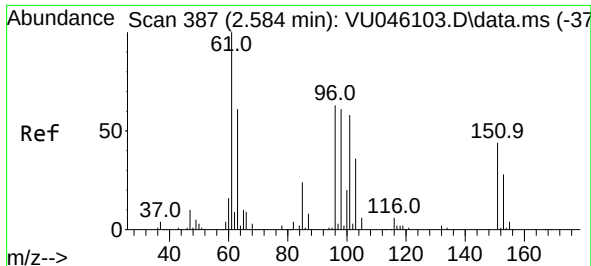
Tgt Ion:101 Resp: 6513
 Ion Ratio Lower Upper
 101 100
 103 66.2 51.8 77.6



#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 1.082 ug/L
 RT: 2.575 min Scan# 384
 Delta R.T. -0.013 min
 Lab File: VU046226.D
 Acq: 09 Dec 2021 17:43

Tgt Ion:101 Resp: 1091
 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: 41.932 ug/L

RT: 2.588 min Scan# 387

Delta R.T. 0.003 min

Lab File: VU046226.D

Acq: 09 Dec 2021 17:43

Instrument :

MSVOA_U

ClientSampleId :

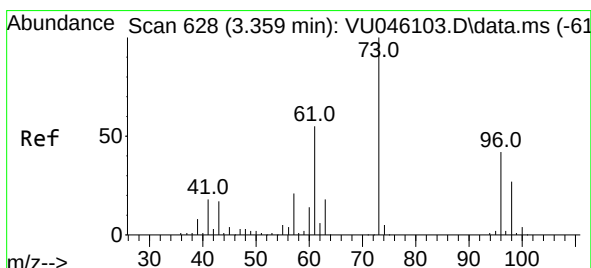
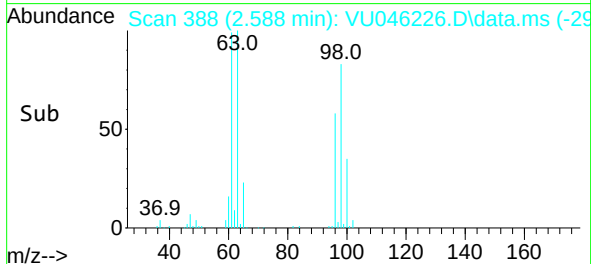
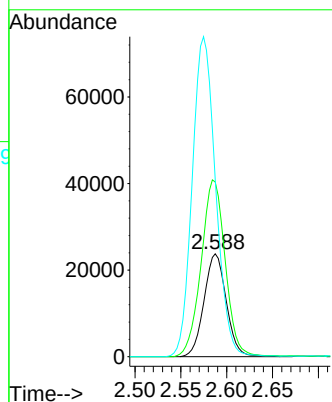
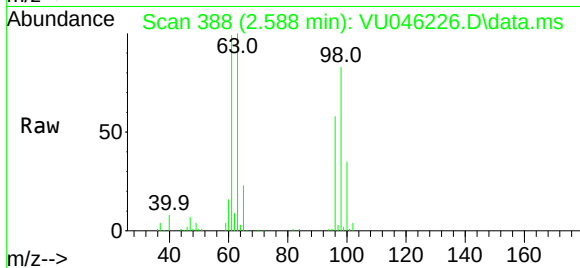
Tgt Ion: 96 Resp: 40191

Ion Ratio Lower Upper

96 100

61 169.9 118.6 220.2

63 172.0 93.0 172.8



#17

trans-1,2-Dichloroethene

Concen: 10.994 ug/L

RT: 3.359 min Scan# 628

Delta R.T. -0.000 min

Lab File: VU046226.D

Acq: 09 Dec 2021 17:43

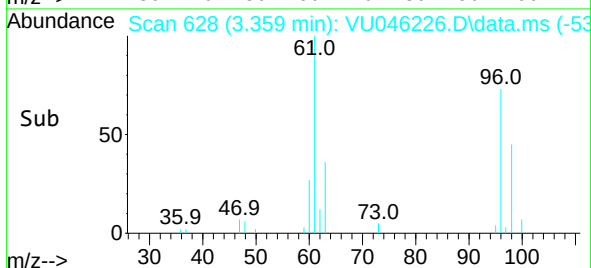
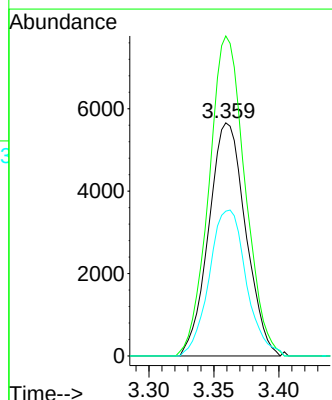
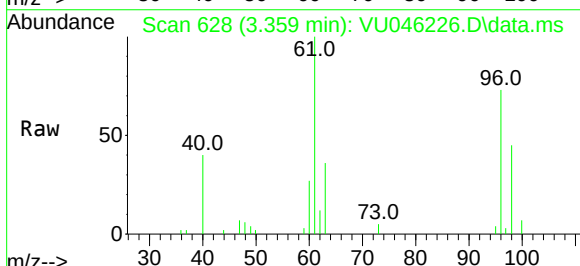
Tgt Ion: 96 Resp: 11152

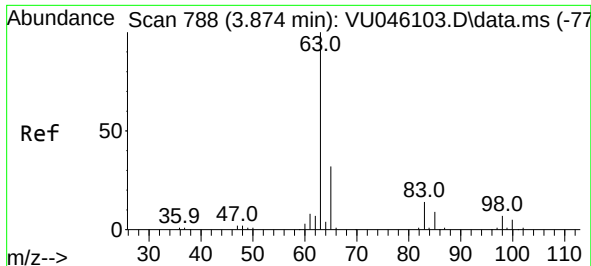
Ion Ratio Lower Upper

96 100

61 137.3 94.6 175.6

98 62.1 44.0 81.8





#19

1,1-Dichloroethane

Concen: 660.477 ug/L

RT: 3.877 min Scan# 788

Delta R.T. -0.000 min

Lab File: VU046226.D

Acq: 09 Dec 2021 17:43

Instrument :

MSVOA_U

ClientSampleId :

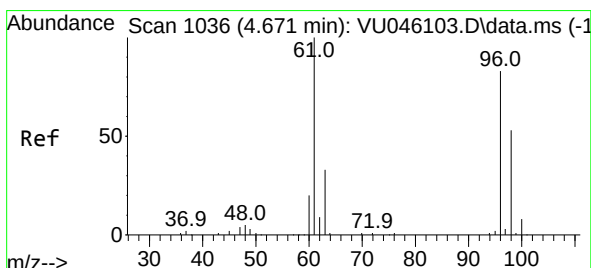
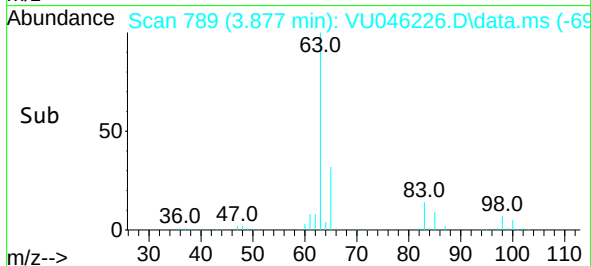
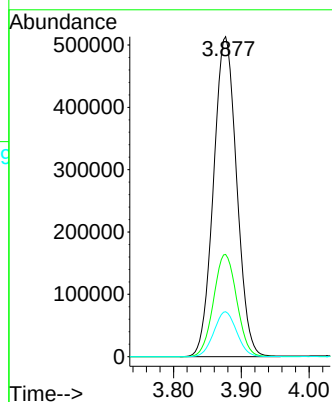
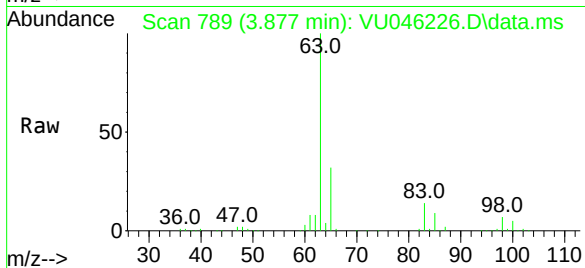
Tgt Ion: 63 Resp: 1218109

Ion Ratio Lower Upper

63 100

65 31.9 22.8 42.4

83 14.1 9.6 17.8



#20

cis-1,2-Dichloroethene

Concen: 1146.106 ug/L

RT: 4.671 min Scan# 1036

Delta R.T. -0.000 min

Lab File: VU046226.D

Acq: 09 Dec 2021 17:43

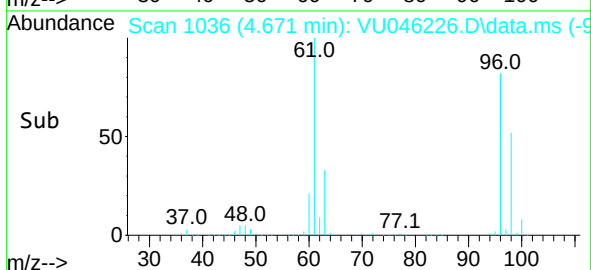
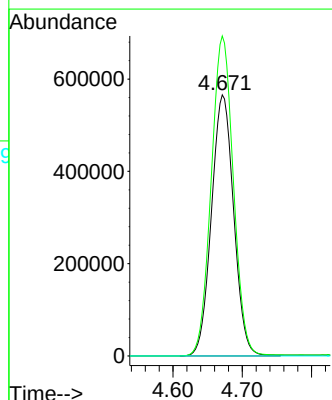
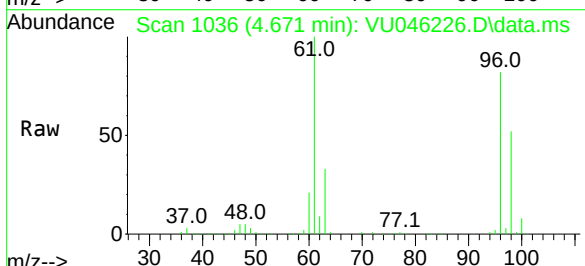
Tgt Ion: 96 Resp: 1261422

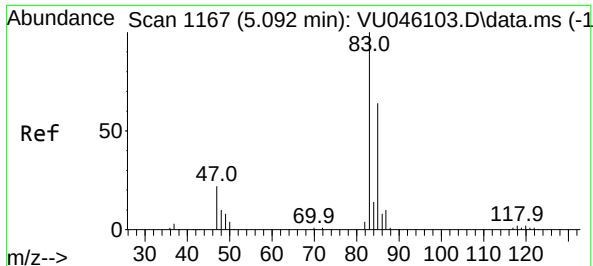
Ion Ratio Lower Upper

96 100

61 122.6 86.8 161.2

68 0.0 0.0 0.0





#25

Chloroform

Concen: 6.764 ug/L

RT: 5.092 min Scan# 1167

Delta R.T. -0.000 min

Lab File: VU046226.D

Acq: 09 Dec 2021 17:43

Instrument :

MSVOA_U

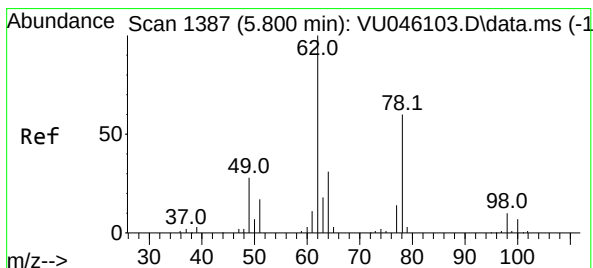
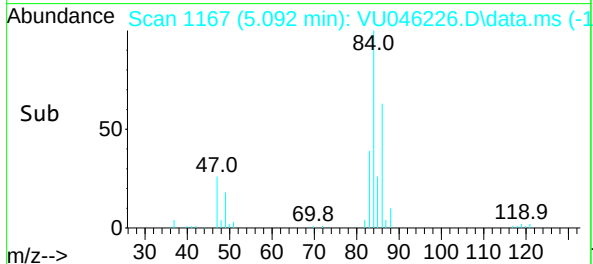
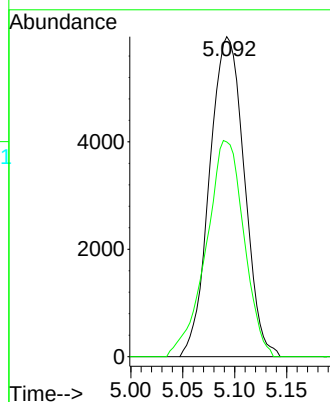
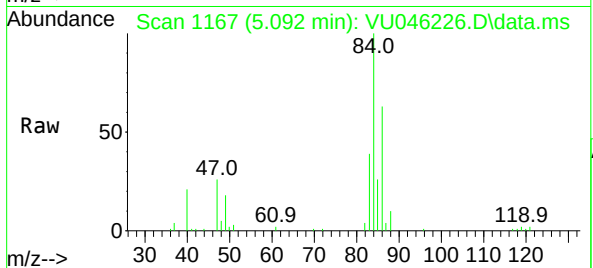
ClientSampleId :

Tgt Ion: 83 Resp: 13861

Ion Ratio Lower Upper

83 100

85 67.1 45.8 85.2



#27

1,2-Dichloroethane

Concen: 2.809 ug/L

RT: 5.796 min Scan# 1386

Delta R.T. -0.003 min

Lab File: VU046226.D

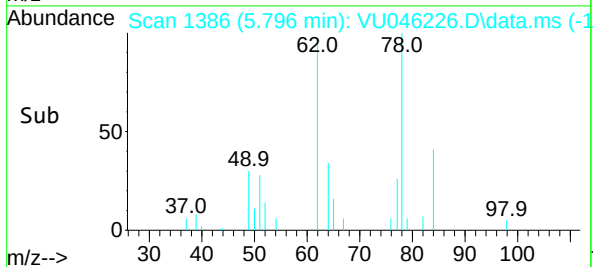
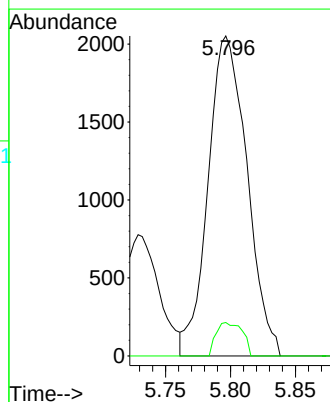
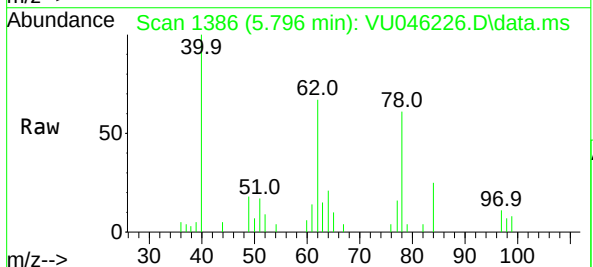
Acq: 09 Dec 2021 17:43

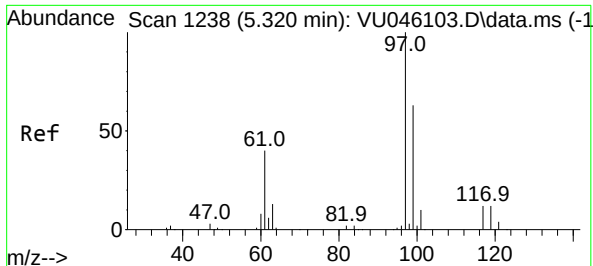
Tgt Ion: 62 Resp: 4272

Ion Ratio Lower Upper

62 100

98 10.4 7.9 11.9





#30

1,1,1-Trichloroethane

Concen: 2046.047 ug/L

RT: 5.324 min Scan# 11

Delta R.T. 0.003 min

Lab File: VU046226.D

Acq: 09 Dec 2021 17:43

Instrument :

MSVOA_U

ClientSampleId :

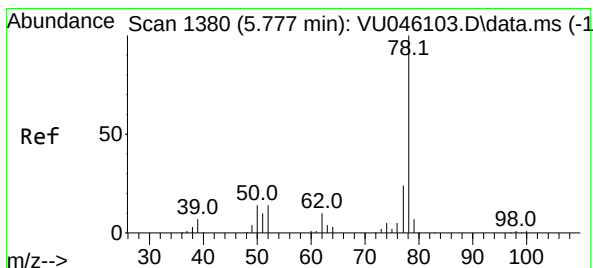
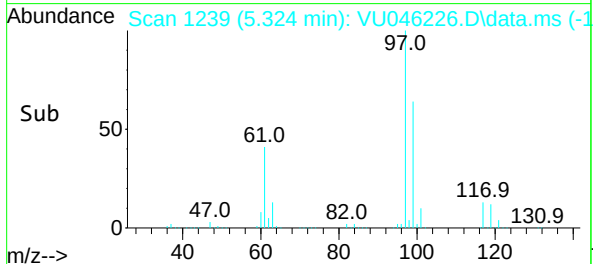
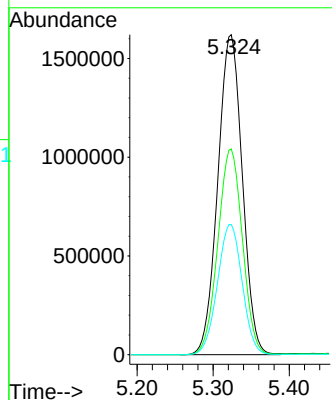
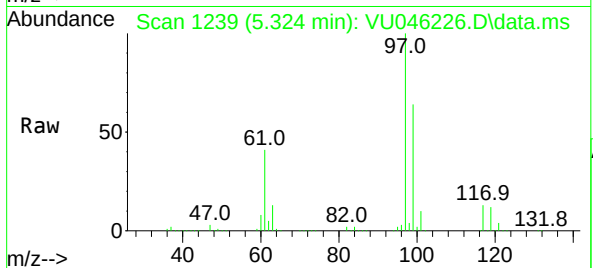
Tgt Ion: 97 Resp: 3634793

Ion Ratio Lower Upper

97 100

99 64.4 51.8 77.6

61 41.0 34.4 51.6



#33

Benzene

Concen: 2.102 ug/L

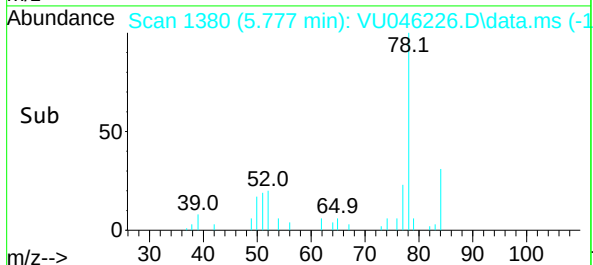
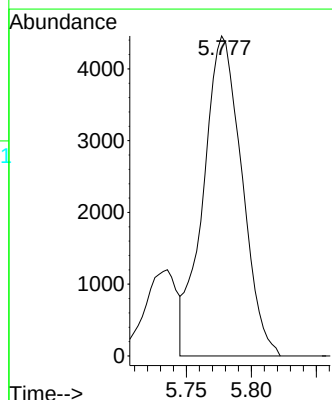
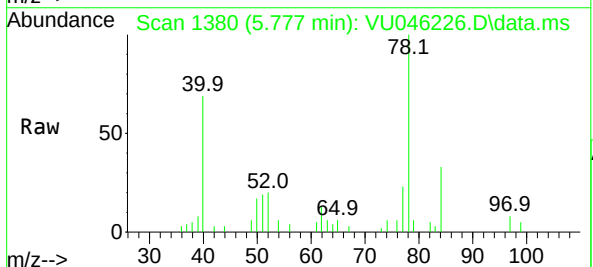
RT: 5.777 min Scan# 1380

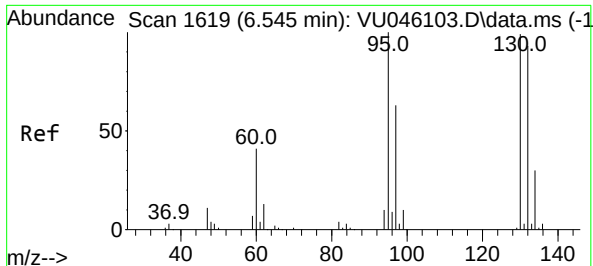
Delta R.T. -0.003 min

Lab File: VU046226.D

Acq: 09 Dec 2021 17:43

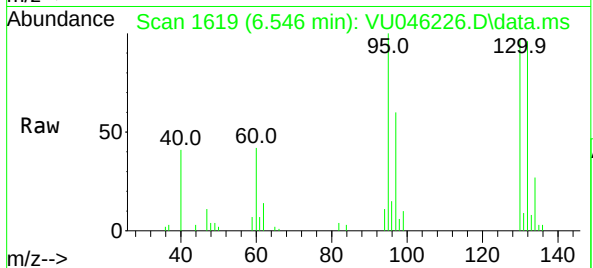
Tgt Ion: 78 Resp: 9209





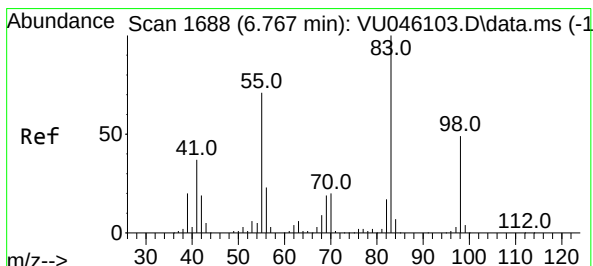
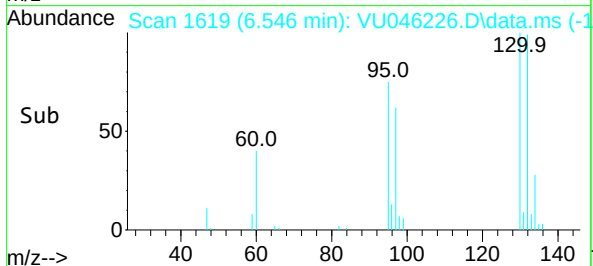
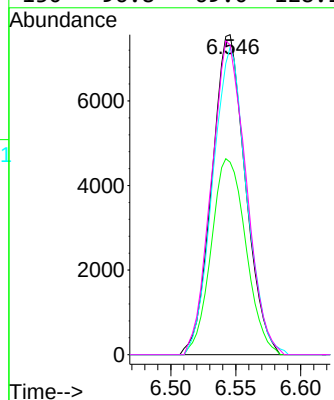
#34
Trichloroethene
Concen: 11.761 ug/L
RT: 6.546 min Scan# 1619
Delta R.T. -0.000 min
Lab File: VU046226.D
Acq: 09 Dec 2021 17:43

Instrument :
MSVOA_U
ClientSampleId :



Tgt Ion: 95 Resp: 13571

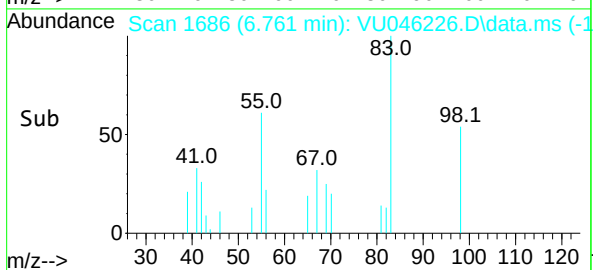
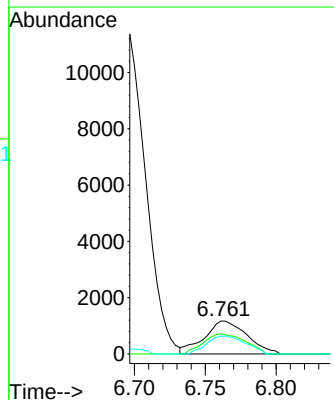
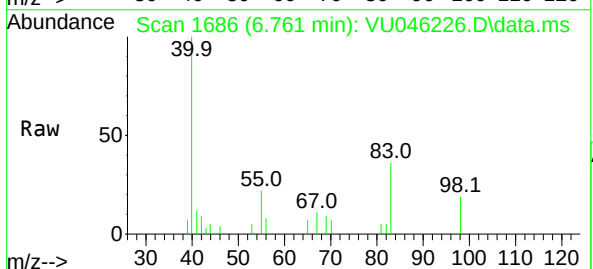
Ion	Ratio	Lower	Upper
95	100		
97	60.1	44.1	81.9
132	96.0	66.8	124.0
130	96.8	69.0	128.1

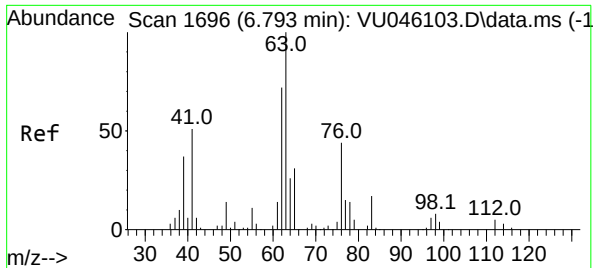


#35
Methylcyclohexane
Concen: 1.368 ug/L
RT: 6.761 min Scan# 1686
Delta R.T. -0.007 min
Lab File: VU046226.D
Acq: 09 Dec 2021 17:43

Tgt Ion: 83 Resp: 2447

Ion	Ratio	Lower	Upper
83	100		
55	59.9	57.8	86.6
98	49.4	38.4	57.6





#37

1,2-Dichloropropane

Concen: 8.556 ug/L

RT: 6.693 min Scan# 1

Delta R.T. -0.100 min

Lab File: VU046226.D

Acq: 09 Dec 2021 17:43

Instrument :

MSVOA_U

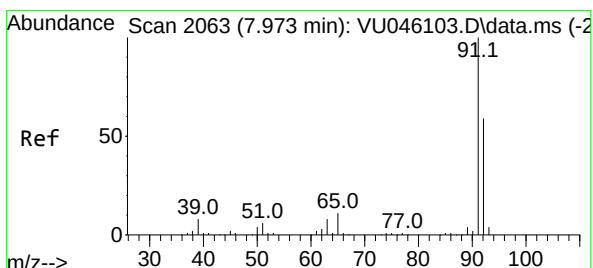
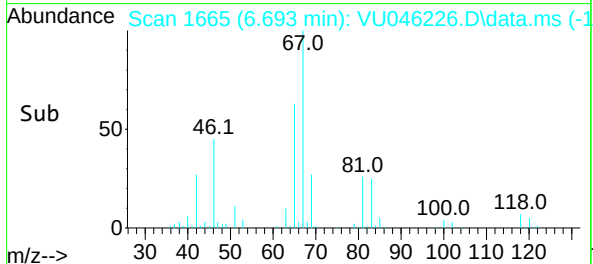
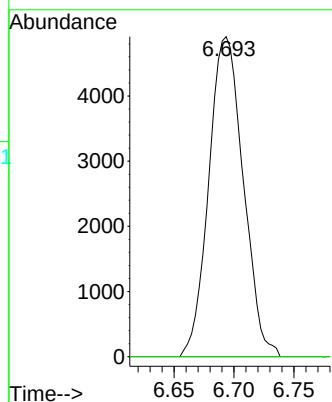
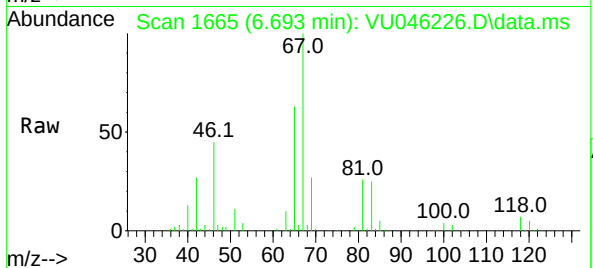
ClientSampleId :

Tgt Ion: 63 Resp: 9818

Ion Ratio Lower Upper

63 100

112 0.0 3.8 5.6#



#42

Toluene

Concen: 41.903 ug/L

RT: 7.970 min Scan# 2062

Delta R.T. -0.003 min

Lab File: VU046226.D

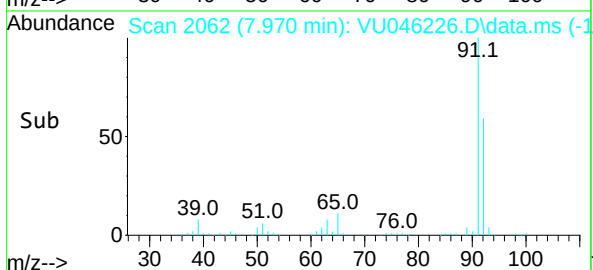
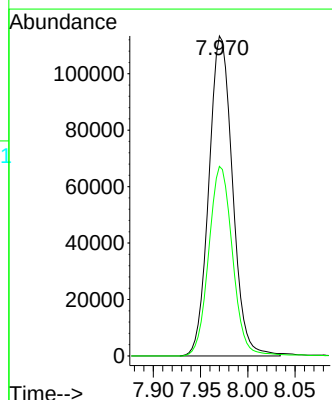
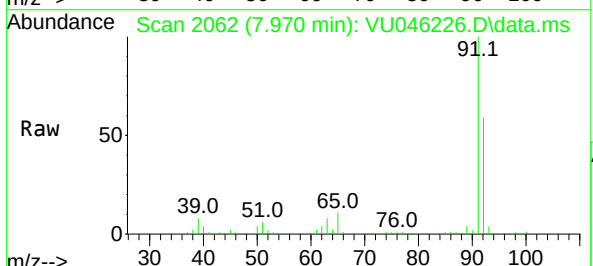
Acq: 09 Dec 2021 17:43

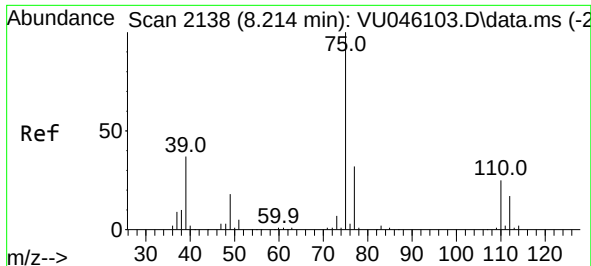
Tgt Ion: 91 Resp: 196950

Ion Ratio Lower Upper

91 100

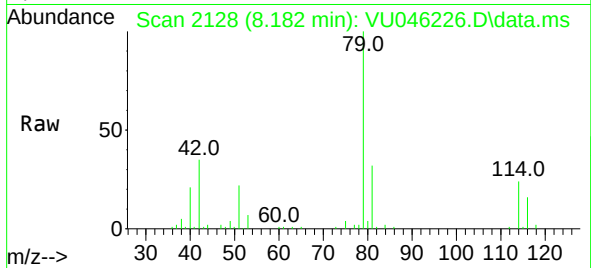
92 59.3 41.9 77.7



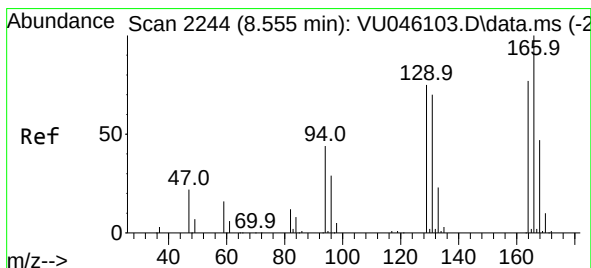
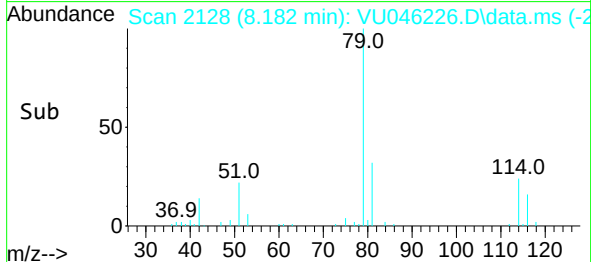
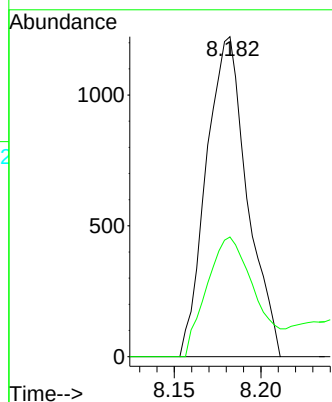


#44
trans-1,3-Dichloropropene
Concen: 1.173 ug/L
RT: 8.182 min Scan# 2138
Delta R.T. -0.032 min
Lab File: VU046226.D
Acq: 09 Dec 2021 17:43

Instrument :
MSVOA_U
ClientSampleId :

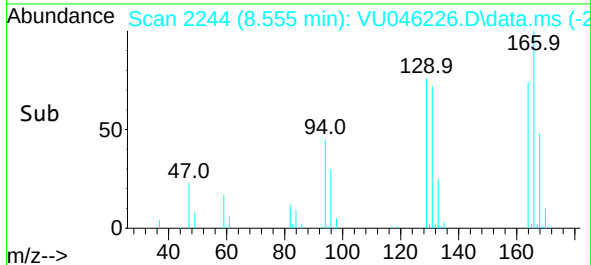
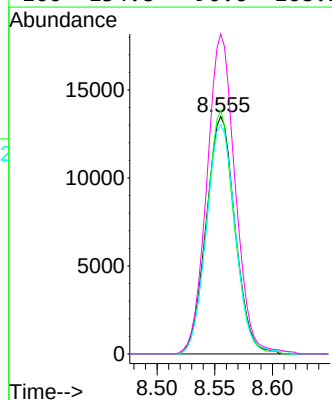
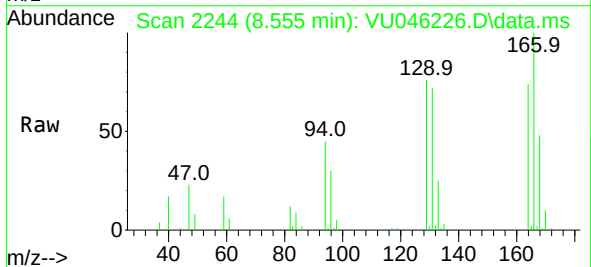


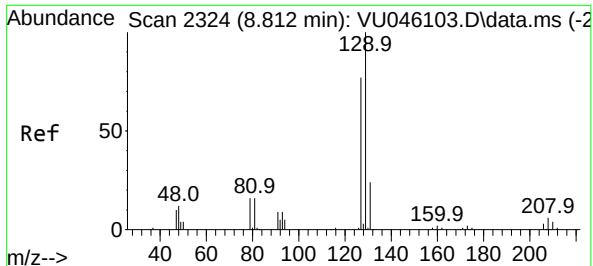
Tgt Ion: 75 Resp: 2011
Ion Ratio Lower Upper
75 100
77 37.4 21.7 40.3



#46
Tetrachloroethene
Concen: 27.700 ug/L
RT: 8.555 min Scan# 2244
Delta R.T. -0.000 min
Lab File: VU046226.D
Acq: 09 Dec 2021 17:43

Tgt Ion: 164 Resp: 23490
Ion Ratio Lower Upper
164 100
129 102.6 71.1 132.1
131 96.7 67.8 126.0
166 134.8 90.6 168.2





#49

Dibromochloromethane

Concen: 19.015 ug/L

RT: 8.555 min Scan# 21

Delta R.T. -0.257 min

Lab File: VU046226.D

Acq: 09 Dec 2021 17:43

Instrument :

MSVOA_U

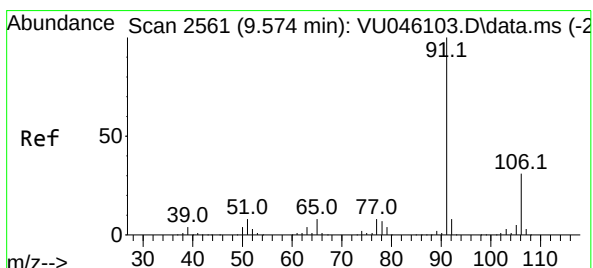
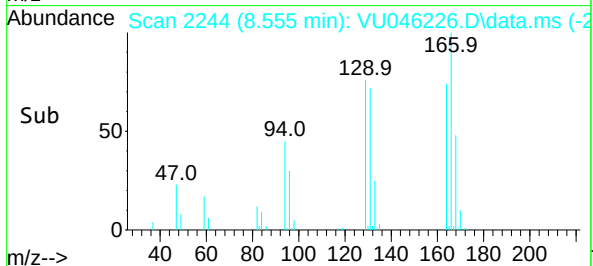
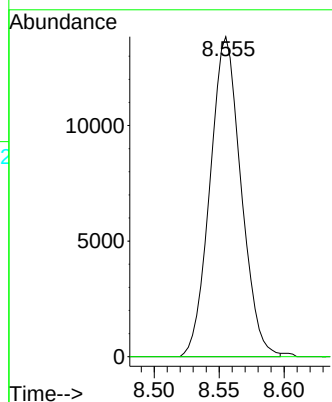
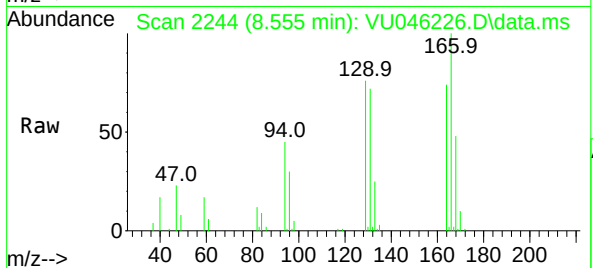
ClientSampleId :

Tgt Ion:129 Resp: 22986

Ion Ratio Lower Upper

129 100

127 0.0 55.6 103.4#



#52

Ethylbenzene

Concen: 8.498 ug/L

RT: 9.571 min Scan# 2560

Delta R.T. -0.003 min

Lab File: VU046226.D

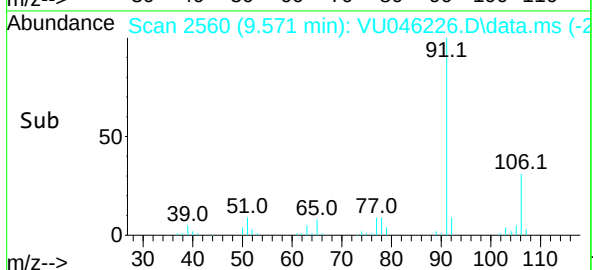
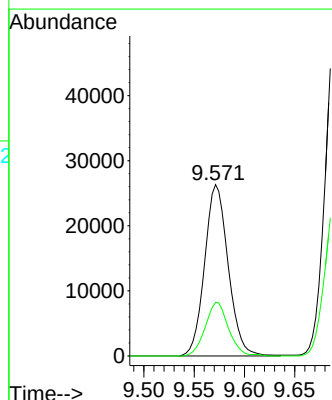
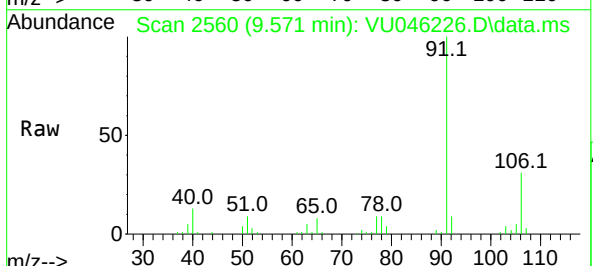
Acq: 09 Dec 2021 17:43

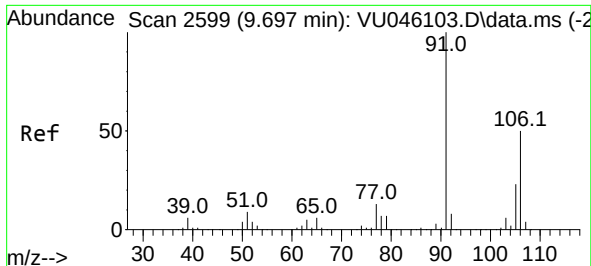
Tgt Ion: 91 Resp: 42988

Ion Ratio Lower Upper

91 100

106 31.3 21.1 39.3

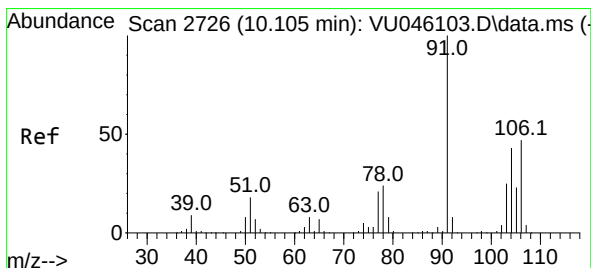
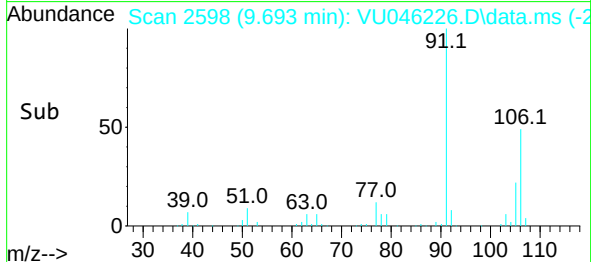
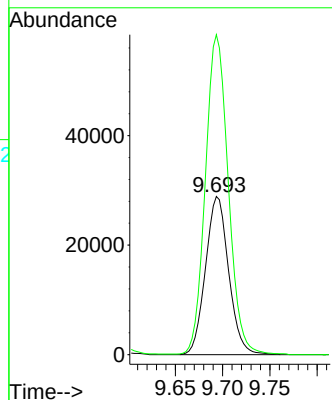
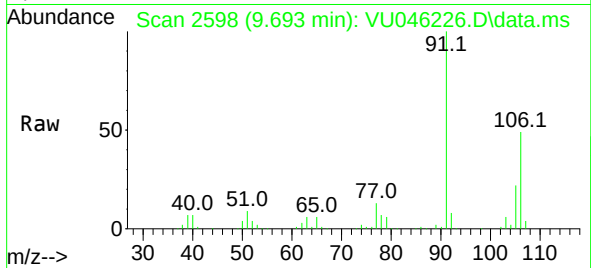




#53
m,p-Xylene
Concen: 24.983 ug/L
RT: 9.693 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU046226.D
Acq: 09 Dec 2021 17:43

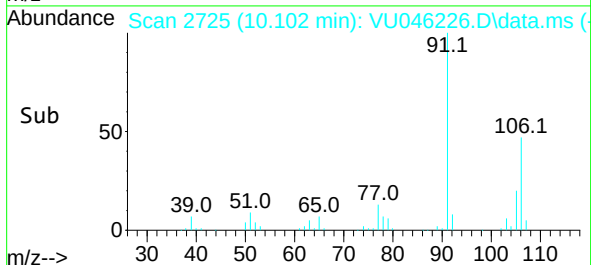
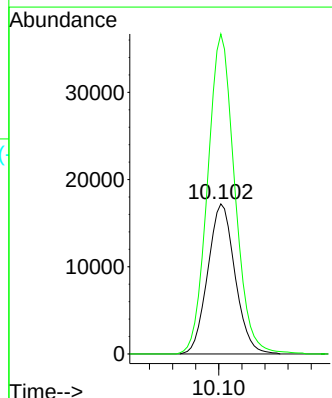
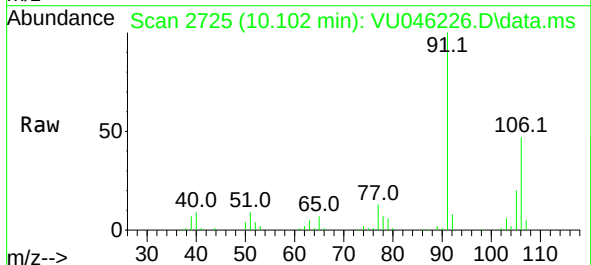
Instrument :
MSVOA_U
ClientSampleId :

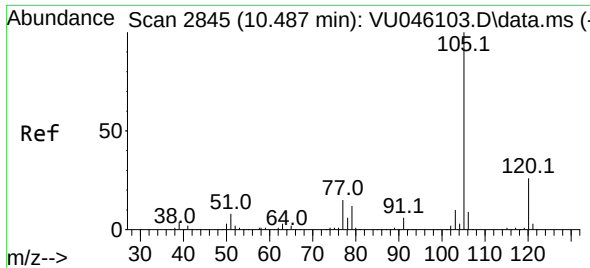
Tgt Ion:106 Resp: 49283
Ion Ratio Lower Upper
106 100
91 202.3 144.3 268.1



#54
o-xylene
Concen: 14.726 ug/L
RT: 10.102 min Scan# 2725
Delta R.T. -0.003 min
Lab File: VU046226.D
Acq: 09 Dec 2021 17:43

Tgt Ion:106 Resp: 28188
Ion Ratio Lower Upper
106 100
91 213.1 154.2 286.4

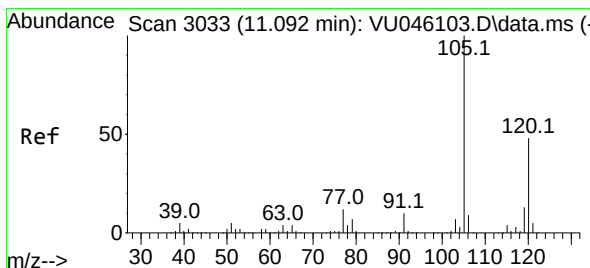
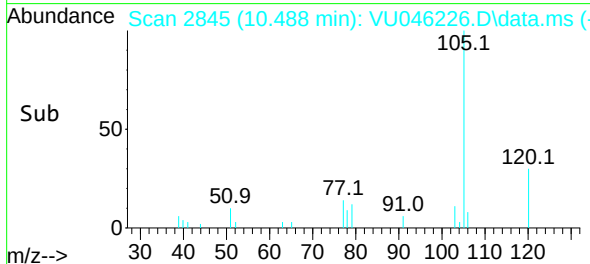
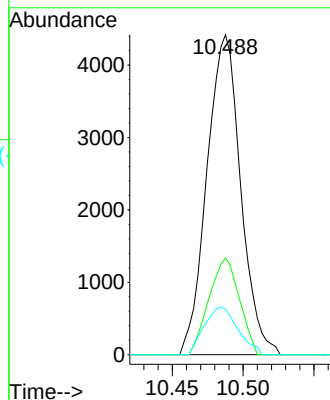
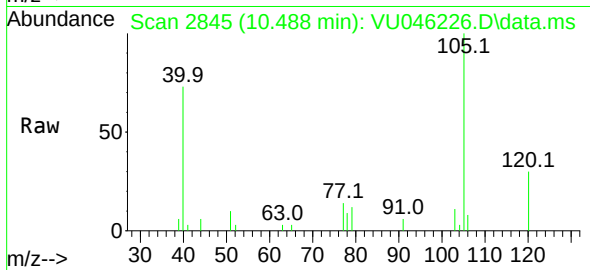




#61
Isopropylbenzene
Concen: 1.385 ug/L
RT: 10.488 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU046226.D
Acq: 09 Dec 2021 17:43

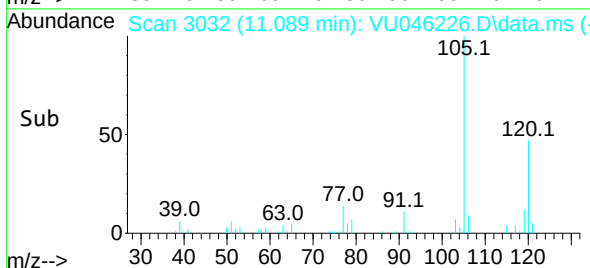
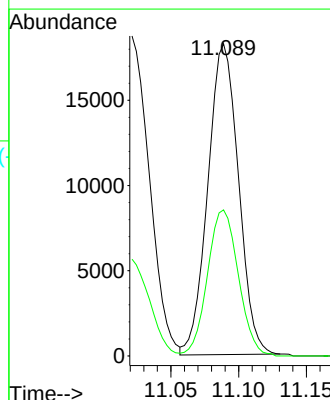
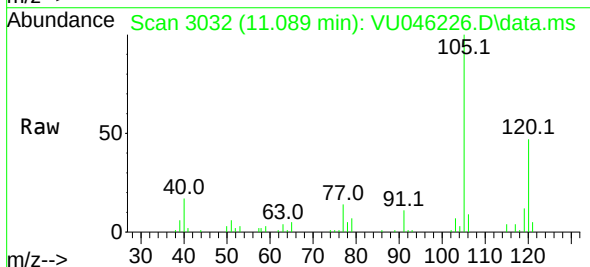
Instrument :
MSVOA_U
ClientSampleId :

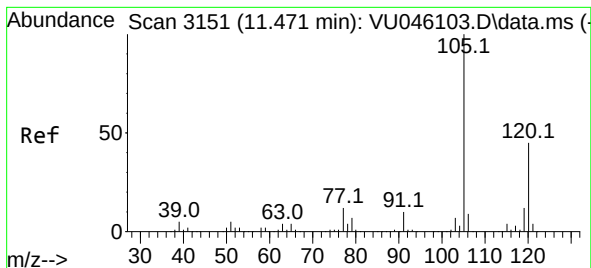
Tgt Ion:105 Resp: 7318
Ion Ratio Lower Upper
105 100
120 27.1 20.7 31.1
77 14.7 12.2 18.4



#62
1,3,5-Trimethylbenzene
Concen: 6.513 ug/L
RT: 11.089 min Scan# 3032
Delta R.T. -0.003 min
Lab File: VU046226.D
Acq: 09 Dec 2021 17:43

Tgt Ion:105 Resp: 28691
Ion Ratio Lower Upper
105 100
120 47.4 37.8 56.6





#63

1,2,4-Trimethylbenzene

Concen: 30.106 ug/L

RT: 11.468 min Scan# 3151

Delta R.T. -0.003 min

Lab File: VU046226.D

Acq: 09 Dec 2021 17:43

Instrument :

MSVOA_U

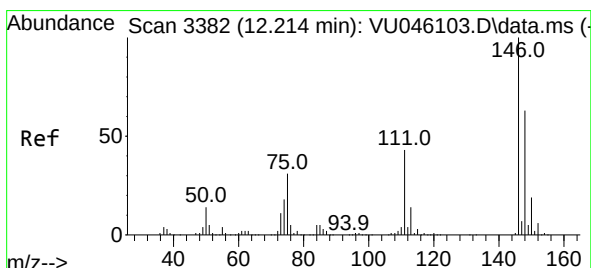
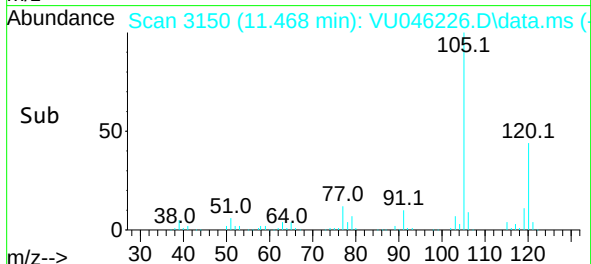
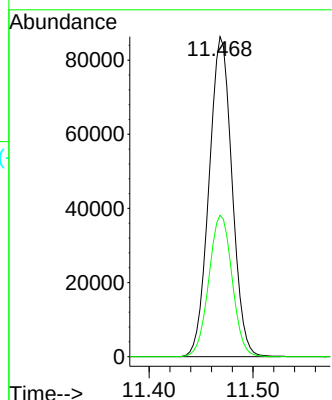
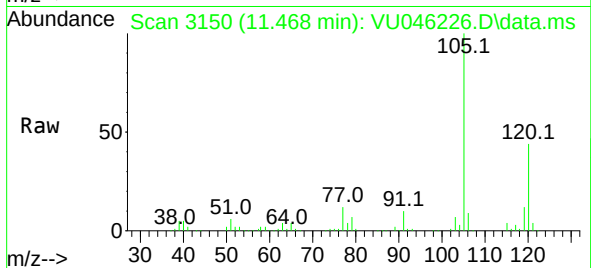
ClientSampleId :

Tgt Ion:105 Resp: 132685

Ion Ratio Lower Upper

105 100

120 44.7 35.2 52.8



#67

1,2-Dichlorobenzene

Concen: 2.168 ug/L

RT: 12.211 min Scan# 3381

Delta R.T. -0.003 min

Lab File: VU046226.D

Acq: 09 Dec 2021 17:43

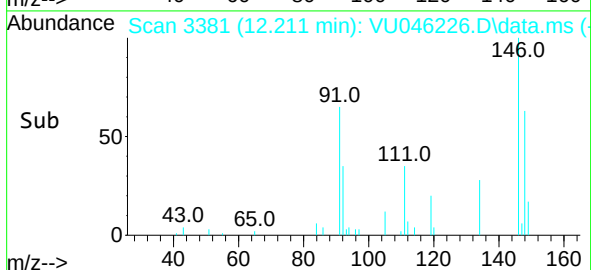
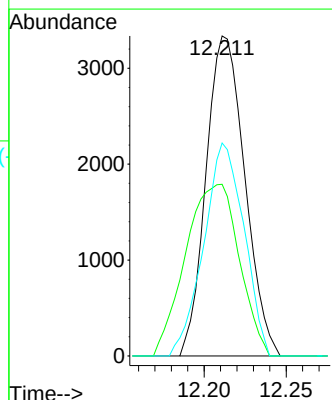
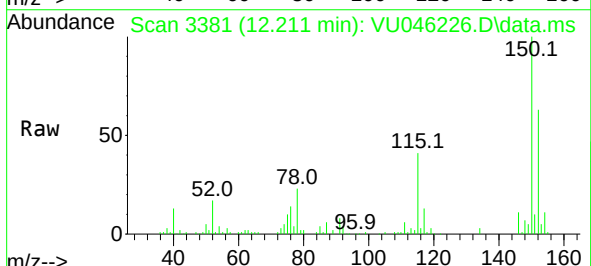
Tgt Ion:146 Resp: 5480

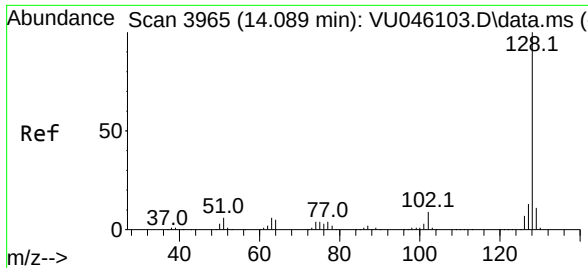
Ion Ratio Lower Upper

146 100

111 53.6 35.7 53.5#

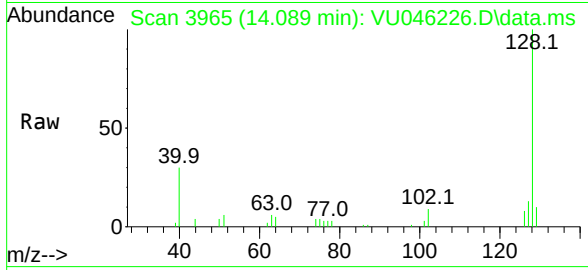
148 66.6 51.2 76.8





#71
Naphthalene
Concen: 2.884 ug/L
RT: 14.089 min Scan# 3965
Delta R.T. -0.000 min
Lab File: VU046226.D
Acq: 09 Dec 2021 17:43

Instrument :
MSVOA_U
ClientSampleId :



Tgt Ion:	128	Resp:	16293
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.1	15.1
129	9.9	8.6	13.0

