

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU120921\
 Data File : VU046228.D
 Acq On : 09 Dec 2021 18:28
 Operator : SY/MD
 Sample : M4983-16
 Misc : 5.3mL/MSVOA_U/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 10 03:45:47 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	181830	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.420	117	190886	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	108270	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.604	65	77102	51.476	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	102.960%
7) Chloroethane-d5	1.919	69	57061	49.618	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	99.240%
11) 1,1-Dichloroethene-d2	2.575	63	112610	41.880	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	83.760%
21) 2-Butanone-d5	4.639	46	126194	105.983	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	105.980%
24) Chloroform-d	5.067	84	120874	48.325	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.640%
26) 1,2-Dichloroethane-d4	5.706	65	86857	51.742	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	103.480%
32) Benzene-d6	5.732	84	271236	49.576	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.160%
36) 1,2-Dichloropropane-d6	6.693	67	84560	49.870	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	99.740%
41) Toluene-d8	7.899	98	244006	48.983	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.960%
43) trans-1,3-Dichloroprop...	8.179	79	42656	52.114	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	104.220%
47) 2-Hexanone-d5	8.632	63	84105	104.615	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	104.620%
56) 1,1,2,2-Tetrachloroeth...	10.758	84	134458	52.289	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	104.580%
66) 1,2-Dichlorobenzene-d4	12.195	152	104309	50.026	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.060%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.607	62	100874	56.540	ug/L	99
8) Chloroethane	1.938	64	156972	151.956	ug/L	98
9) Trichlorofluoromethane	2.144	101	2097	0.900	ug/L	92
10) 1,1,2-Trichloro-1,2,2-...	2.575	101	992	0.750	ug/L #	21
12) 1,1-Dichloroethene	2.588	96	24443	19.442	ug/L #	60
17) trans-1,2-Dichloroethene	3.362	96	10895	8.189	ug/L	97
19) 1,1-Dichloroethane	3.877	63	1120676	463.253	ug/L	99
20) cis-1,2-Dichloroethene	4.671	96	1445131	1001.009	ug/L	99
25) Chloroform	5.092	83	12958	4.821	ug/L	94
27) 1,2-Dichloroethane	5.800	62	5860	2.938	ug/L	97
30) 1,1,1-Trichloroethane	5.321	97	1340001	571.883	ug/L	99
31) Carbon tetrachloride	5.324	117	170659	85.792	ug/L	99
33) Benzene	5.777	78	5257	0.910	ug/L	100
34) Trichloroethene	6.542	95	20217	13.283	ug/L	97
35) Methylcyclohexane	6.767	83	3519	1.491	ug/L	97
37) 1,2-Dichloropropane	6.693	63	9126	6.030	ug/L #	86
39) cis-1,3-Dichloropropene	7.568	75	2381	1.034	ug/L #	42
40) 4-Methyl-2-pentanone	7.793	43	2896	1.302	ug/L	94
42) Toluene	7.970	91	63745	10.283	ug/L	98

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

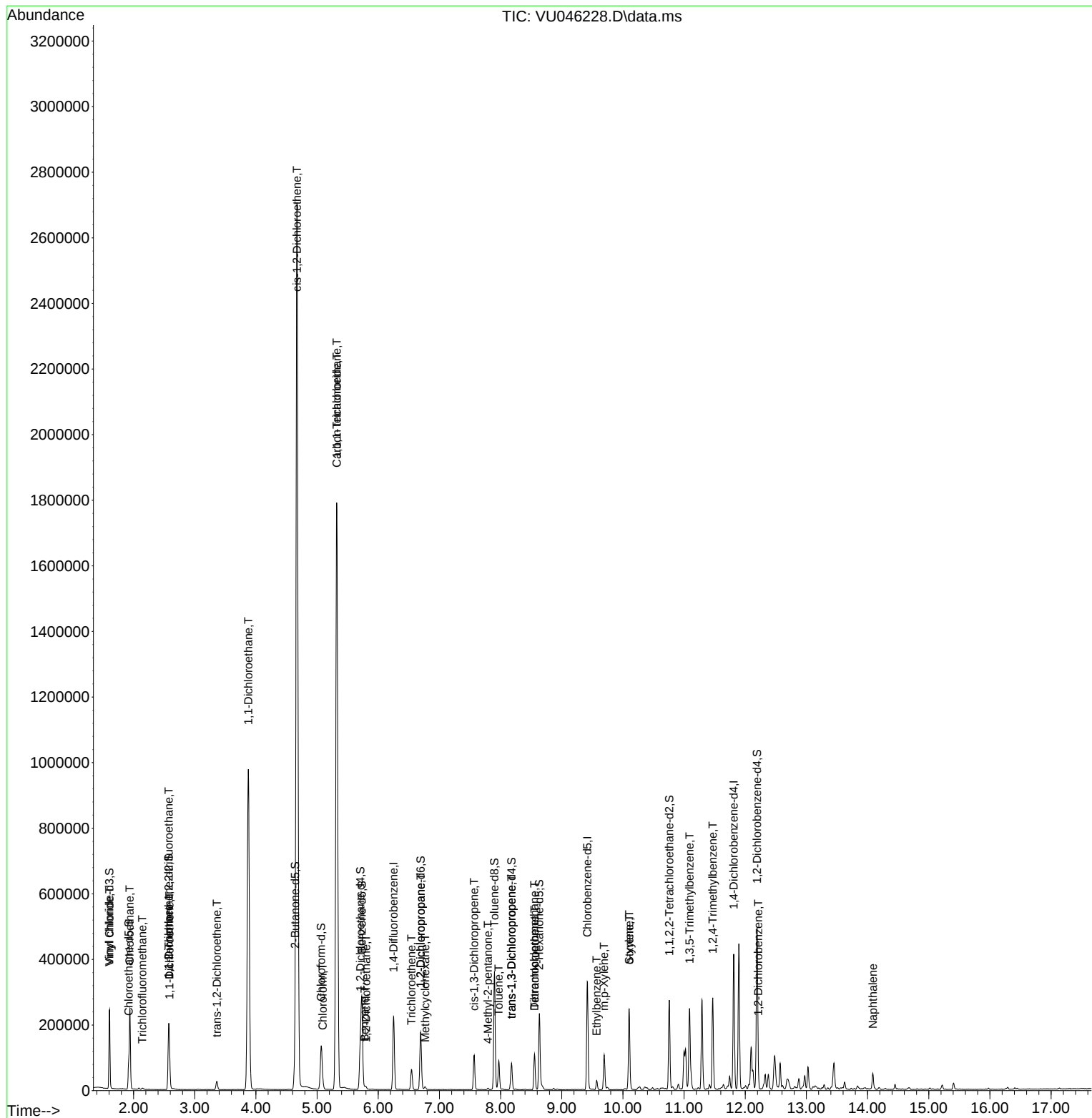
44) trans-1,3-Dichloropropene	8.179	75	1737	0.768	ug/L #	68
46) Tetrachloroethene	8.555	164	24540	21.940	ug/L	94
49) Dibromochloromethane	8.552	129	23436	14.698	ug/L #	10
52) Ethylbenzene	9.571	91	20502	3.073	ug/L	95
53) m,p-Xylene	9.693	106	31478	12.098	ug/L	91
54) o-xylene	10.102	106	70366	27.871	ug/L	95
55) Styrene	10.102	104	3524	0.818	ug/L #	1
62) 1,3,5-Trimethylbenzene	11.089	105	138335	23.560	ug/L	98
63) 1,2,4-Trimethylbenzene	11.468	105	157032	26.731	ug/L	99
67) 1,2-Dichlorobenzene	12.214	146	4945	1.467	ug/L	94
71) Naphthalene	14.085	128	38070	5.056	ug/L	98

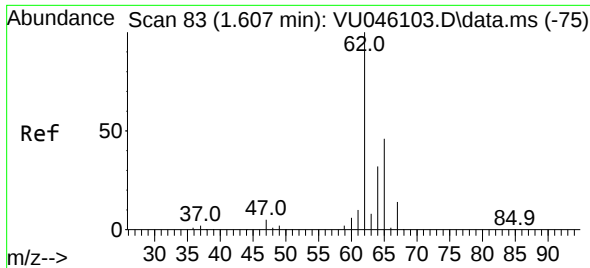
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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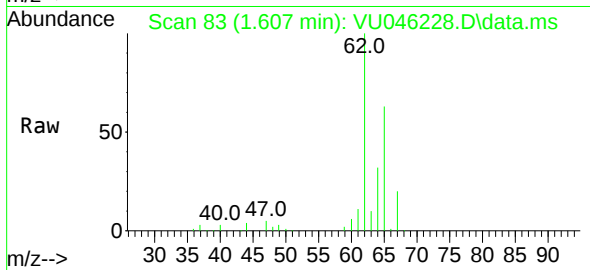
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Quant Title : VOC Analysis
QLast Update : Fri Dec 03 05:08:36 2021
Response via : Initial Calibration



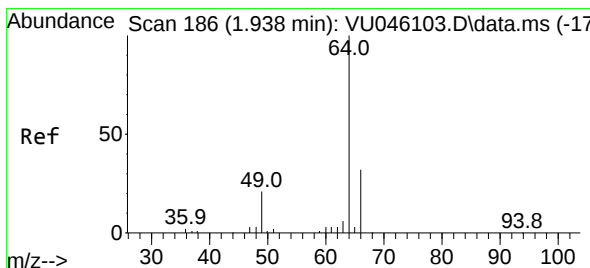
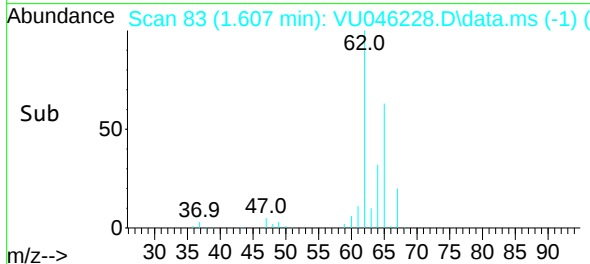
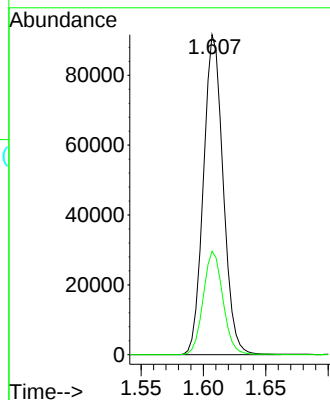


#5
 Vinyl chloride
 Concen: 56.540 ug/L
 RT: 1.607 min Scan# 83
 Delta R.T. -0.000 min
 Lab File: VU046228.D
 Acq: 09 Dec 2021 18:28

Instrument :
 MSVOA_U
 ClientSampleId :

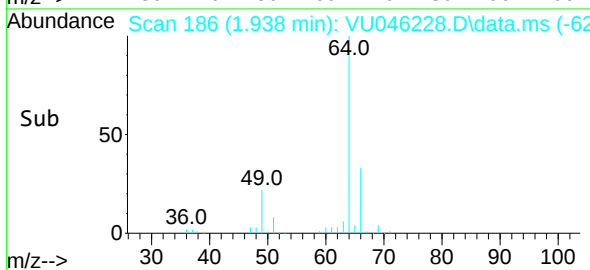
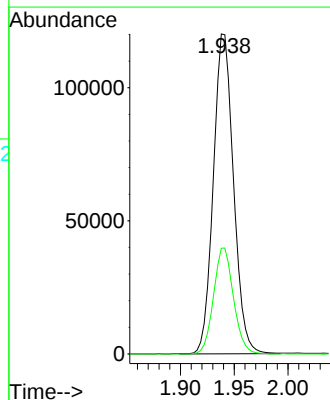
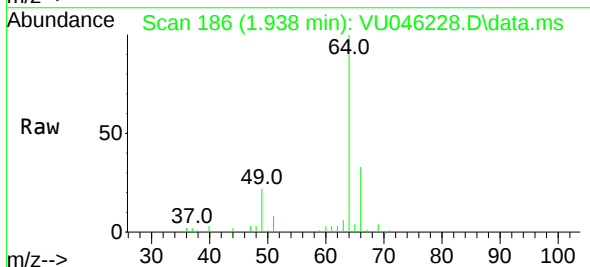


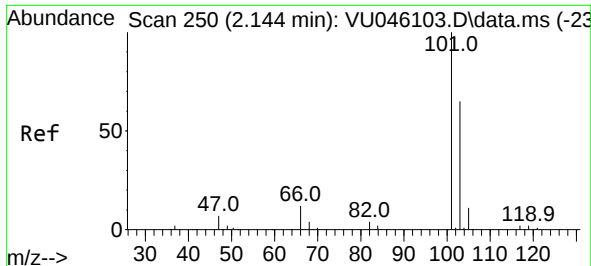
Tgt Ion: 62 Resp: 100874
 Ion Ratio Lower Upper
 62 100
 64 32.3 22.9 42.5



#8
 Chloroethane
 Concen: 151.956 ug/L
 RT: 1.938 min Scan# 186
 Delta R.T. -0.000 min
 Lab File: VU046228.D
 Acq: 09 Dec 2021 18:28

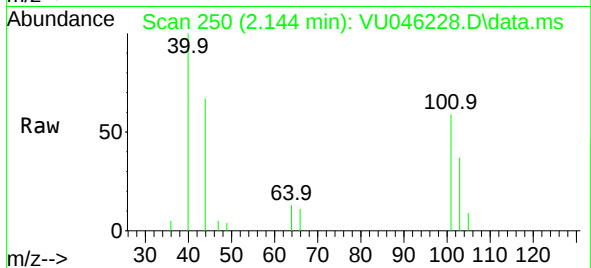
Tgt Ion: 64 Resp: 156972
 Ion Ratio Lower Upper
 64 100
 66 33.0 22.5 41.9



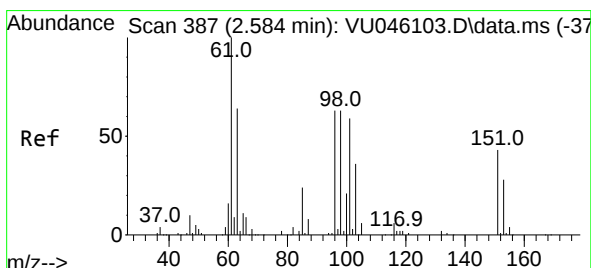
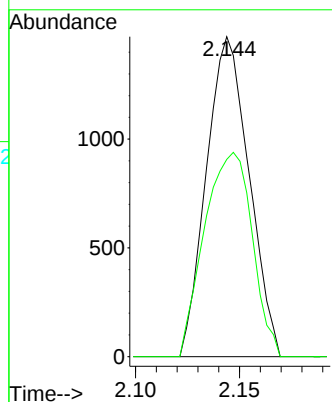
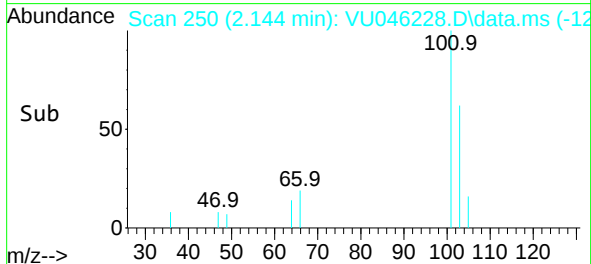


#9
Trichlorofluoromethane
Concen: 0.900 ug/L
RT: 2.144 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU046228.D
Acq: 09 Dec 2021 18:28

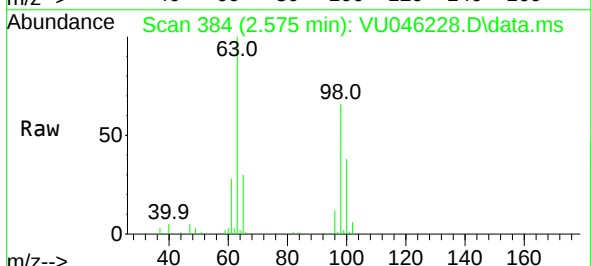
Instrument :
MSVOA_U
ClientSampleId :



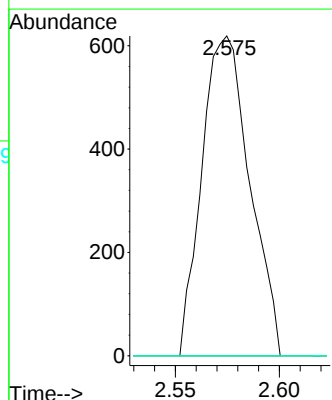
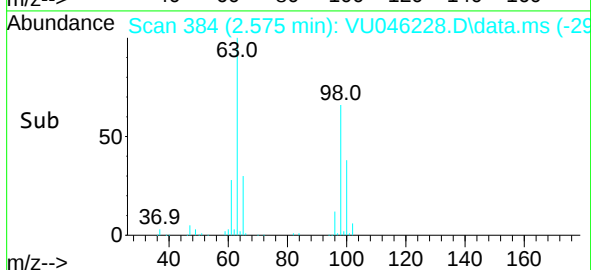
Tgt Ion:101 Resp: 2097
Ion Ratio Lower Upper
101 100
103 71.4 51.8 77.6

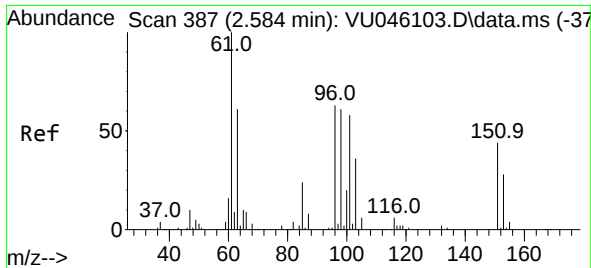


#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.750 ug/L
RT: 2.575 min Scan# 384
Delta R.T. -0.013 min
Lab File: VU046228.D
Acq: 09 Dec 2021 18:28



Tgt Ion:101 Resp: 992
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: 19.442 ug/L

RT: 2.588 min Scan# 31

Delta R.T. 0.003 min

Lab File: VU046228.D

Acq: 09 Dec 2021 18:28

Instrument :

MSVOA_U

ClientSampleId :

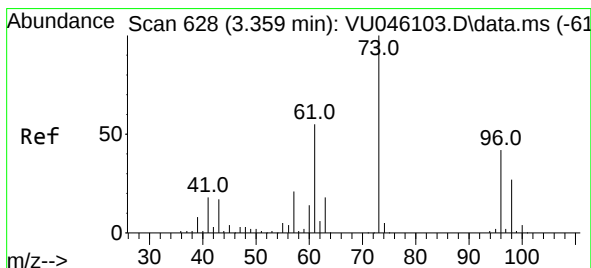
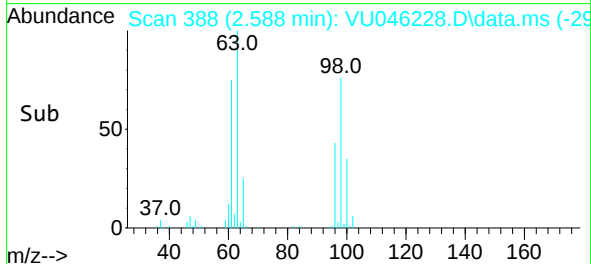
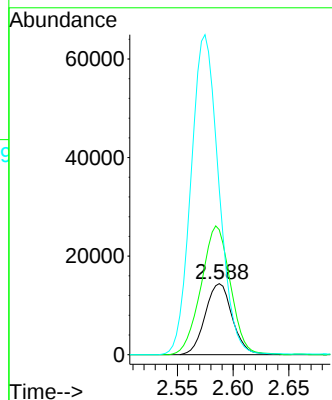
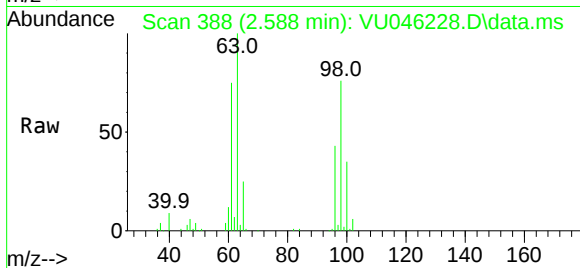
Tgt Ion: 96 Resp: 24443

Ion Ratio Lower Upper

96 100

61 175.7 118.6 220.2

63 233.2 93.0 172.8#



#17

trans-1,2-Dichloroethene

Concen: 8.189 ug/L

RT: 3.362 min Scan# 629

Delta R.T. 0.003 min

Lab File: VU046228.D

Acq: 09 Dec 2021 18:28

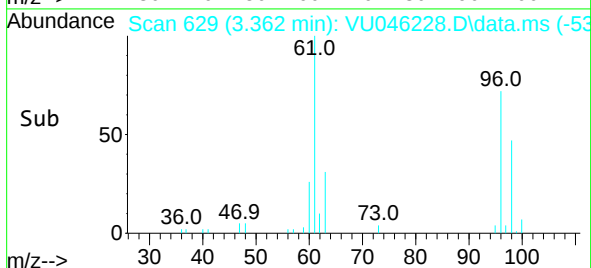
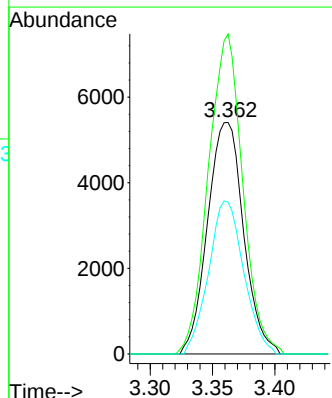
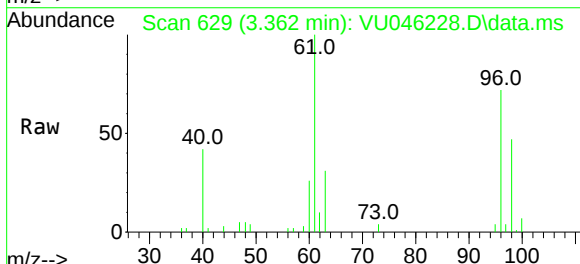
Tgt Ion: 96 Resp: 10895

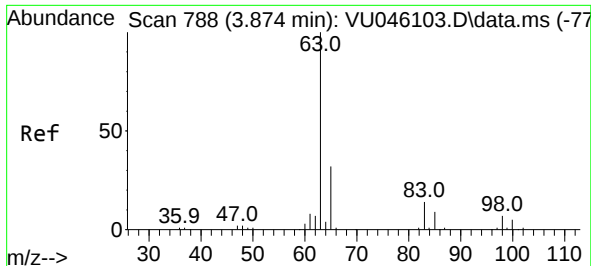
Ion Ratio Lower Upper

96 100

61 138.2 94.6 175.6

98 65.6 44.0 81.8





#19

1,1-Dichloroethane

Concen: 463.253 ug/L

RT: 3.877 min Scan# 788

Delta R.T. -0.000 min

Lab File: VU046228.D

Acq: 09 Dec 2021 18:28

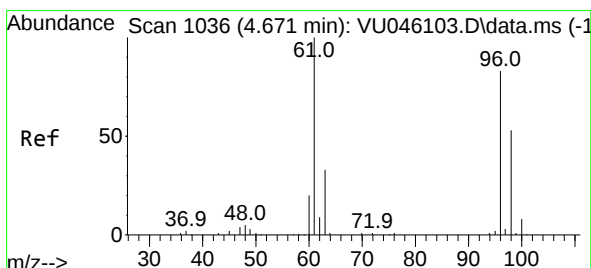
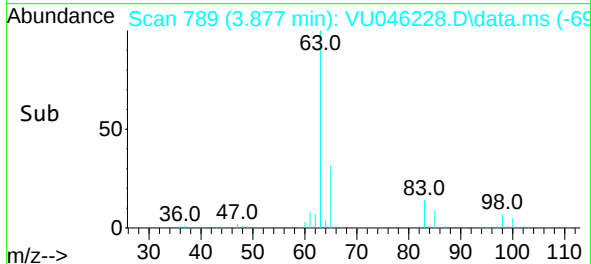
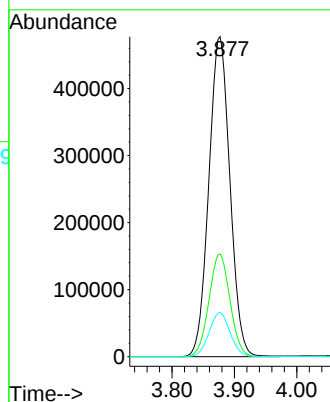
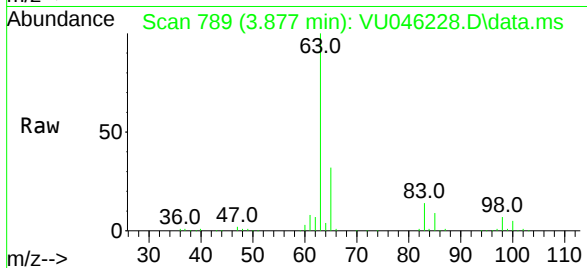
Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 63 Resp: 1120676

Ion	Ratio	Lower	Upper
63	100		
65	32.1	22.8	42.4
83	13.9	9.6	17.8



#20

cis-1,2-Dichloroethene

Concen: 1001.009 ug/L

RT: 4.671 min Scan# 1036

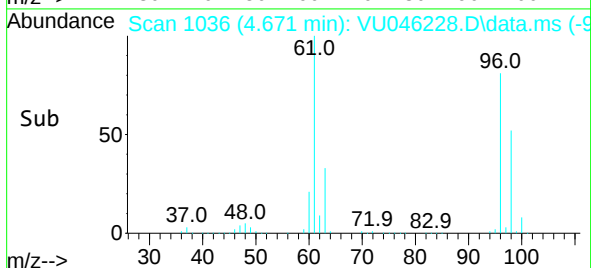
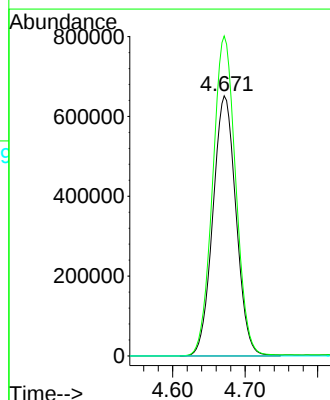
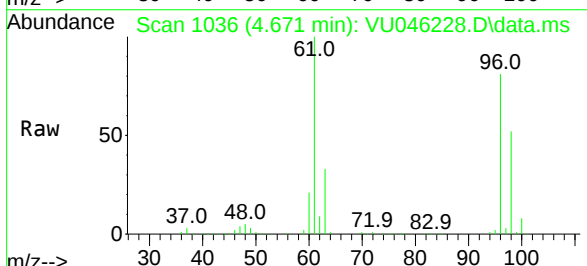
Delta R.T. -0.000 min

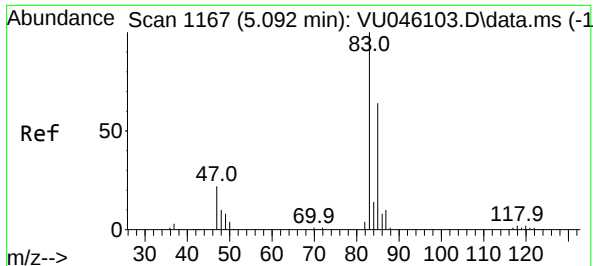
Lab File: VU046228.D

Acq: 09 Dec 2021 18:28

Tgt Ion: 96 Resp: 1445131

Ion	Ratio	Lower	Upper
96	100		
61	123.0	86.8	161.2
68	0.0	0.0	0.0





#25

Chloroform

Concen: 4.821 ug/L

RT: 5.092 min Scan# 1167

Delta R.T. -0.000 min

Lab File: VU046228.D

Acq: 09 Dec 2021 18:28

Instrument :

MSVOA_U

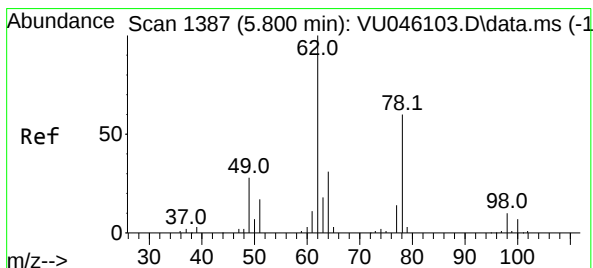
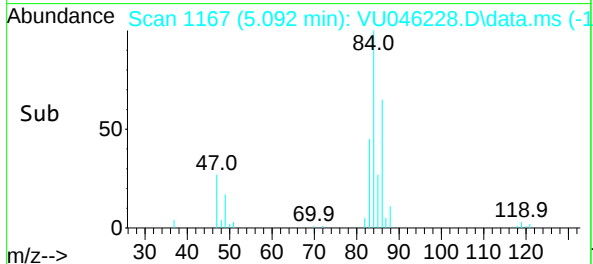
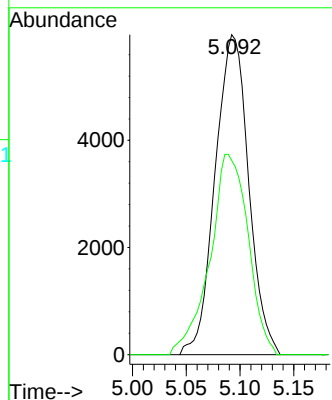
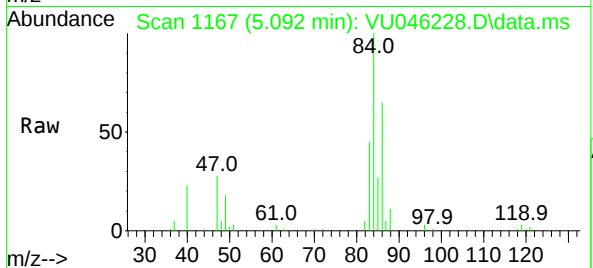
ClientSampleId :

Tgt Ion: 83 Resp: 12958

Ion Ratio Lower Upper

83 100

85 60.7 45.8 85.2



#27

1,2-Dichloroethane

Concen: 2.938 ug/L

RT: 5.800 min Scan# 1387

Delta R.T. -0.000 min

Lab File: VU046228.D

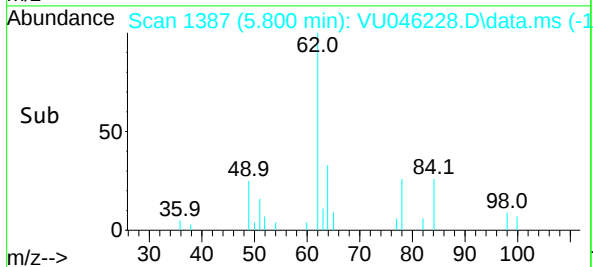
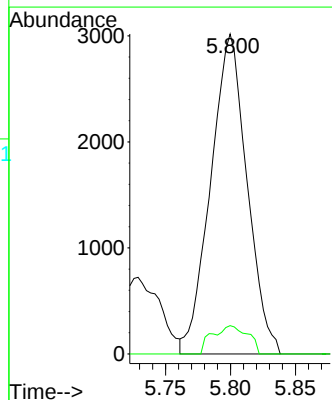
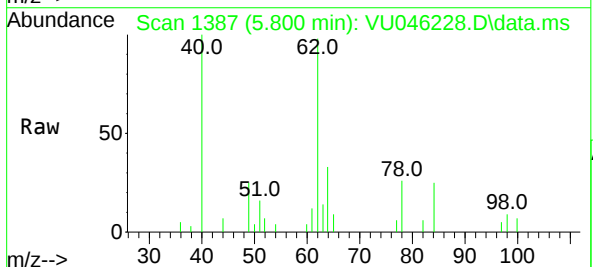
Acq: 09 Dec 2021 18:28

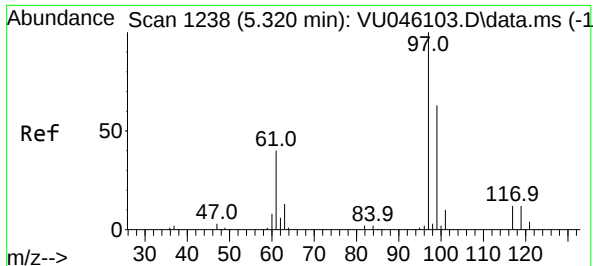
Tgt Ion: 62 Resp: 5860

Ion Ratio Lower Upper

62 100

98 8.8 7.9 11.9





#30

1,1,1-Trichloroethane

Concen: 571.883 ug/L

RT: 5.321 min Scan# 1238

Delta R.T. -0.000 min

Lab File: VU046228.D

Acq: 09 Dec 2021 18:28

Instrument :

MSVOA_U

ClientSampleId :

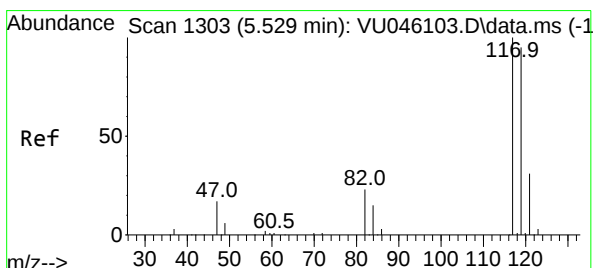
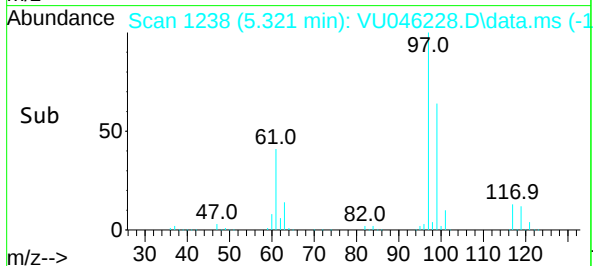
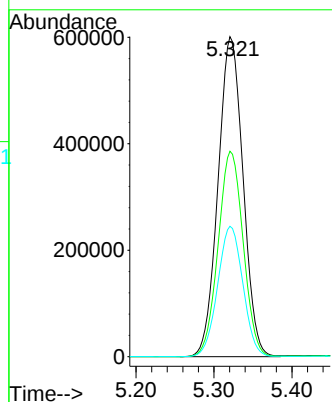
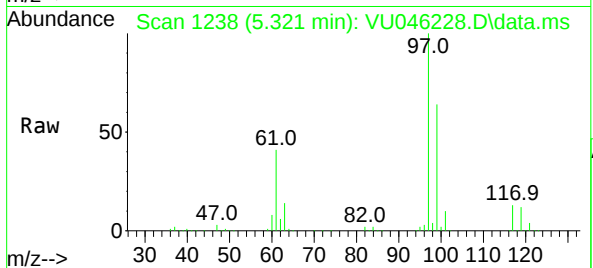
Tgt Ion: 97 Resp: 1340001

Ion Ratio Lower Upper

97 100

99 64.4 51.8 77.6

61 41.0 34.4 51.6



#31

Carbon tetrachloride

Concen: 85.792 ug/L

RT: 5.324 min Scan# 1239

Delta R.T. -0.206 min

Lab File: VU046228.D

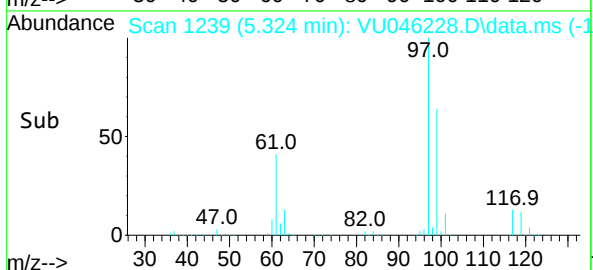
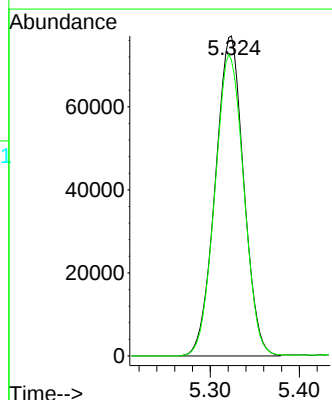
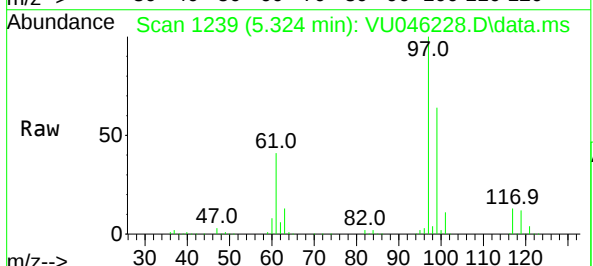
Acq: 09 Dec 2021 18:28

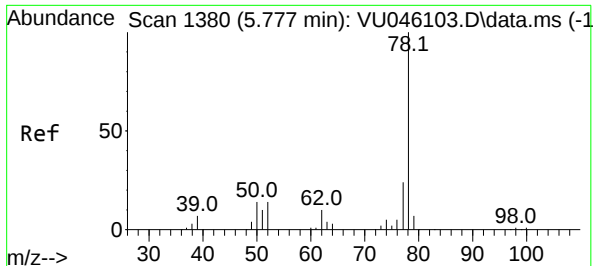
Tgt Ion: 117 Resp: 170659

Ion Ratio Lower Upper

117 100

119 95.9 75.7 113.5

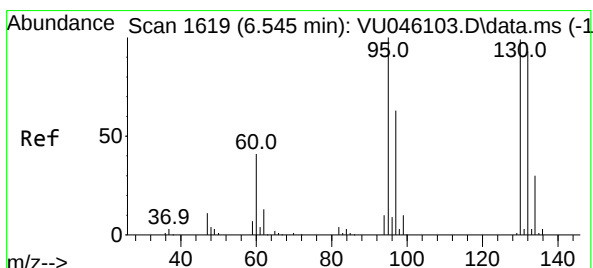
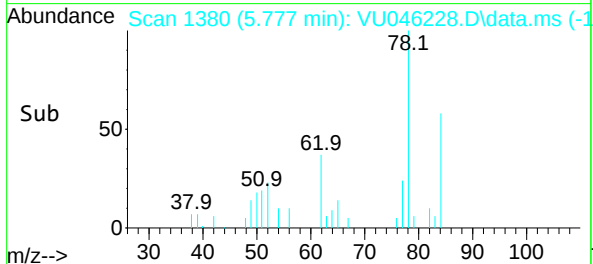
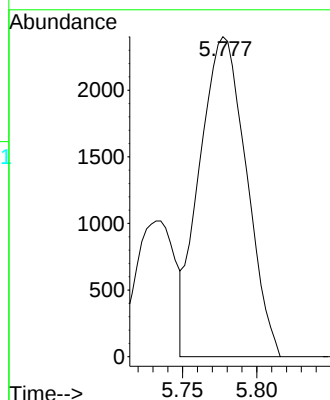
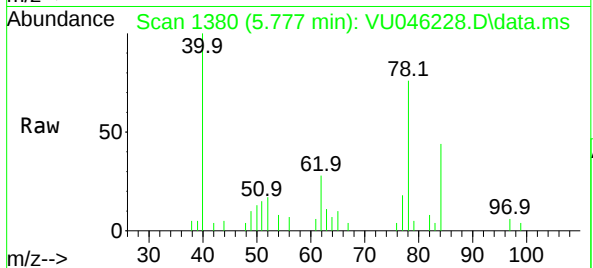




#33
Benzene
Concen: 0.910 ug/L
RT: 5.777 min Scan# 11
Delta R.T. -0.003 min
Lab File: VU046228.D
Acq: 09 Dec 2021 18:28

Instrument :
MSVOA_U
ClientSampleId :

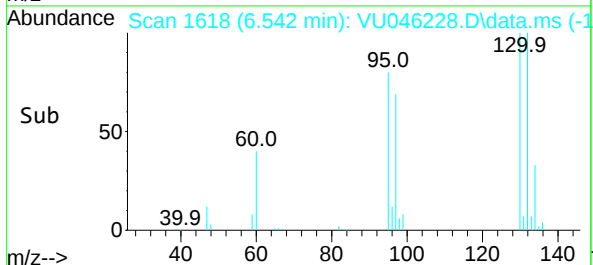
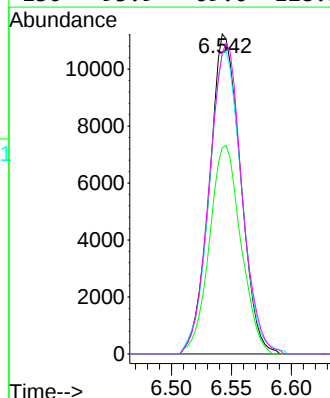
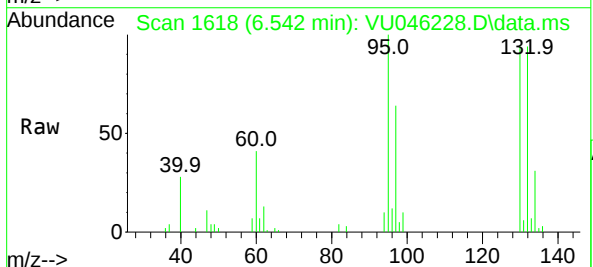
Tgt Ion: 78 Resp: 5257

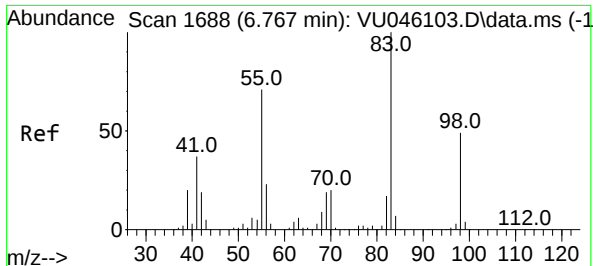


#34
Trichloroethene
Concen: 13.283 ug/L
RT: 6.542 min Scan# 1618
Delta R.T. -0.003 min
Lab File: VU046228.D
Acq: 09 Dec 2021 18:28

Tgt Ion: 95 Resp: 20217

Ion	Ratio	Lower	Upper
95	100		
97	64.5	44.1	81.9
132	93.9	66.8	124.0
130	93.9	69.0	128.1

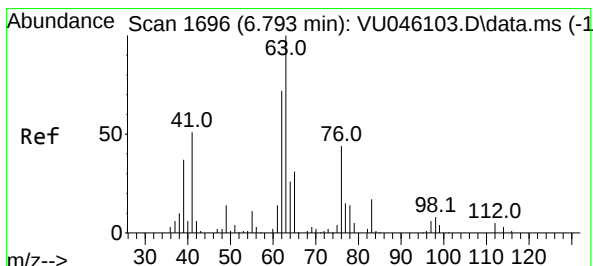
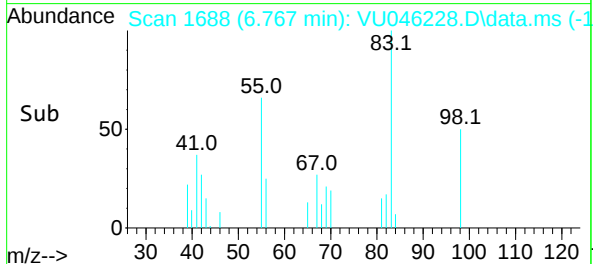
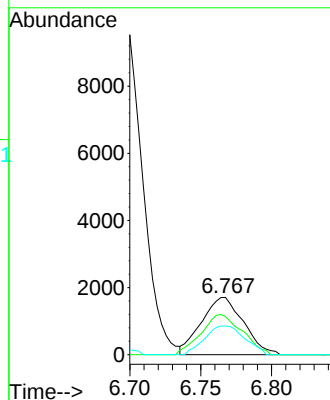
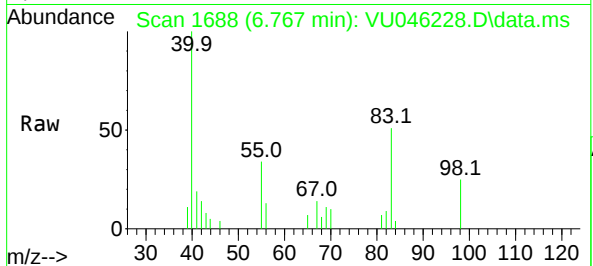




#35
Methylcyclohexane
Concen: 1.491 ug/L
RT: 6.767 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VU046228.D
Acq: 09 Dec 2021 18:28

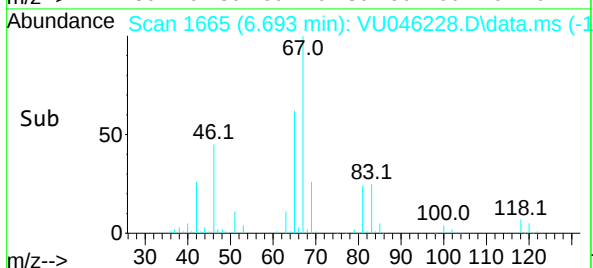
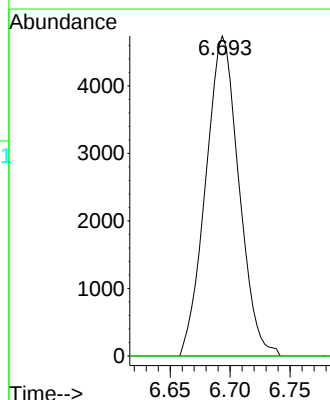
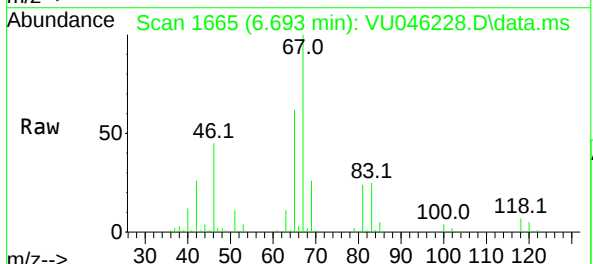
Instrument :
MSVOA_U
ClientSampleId :

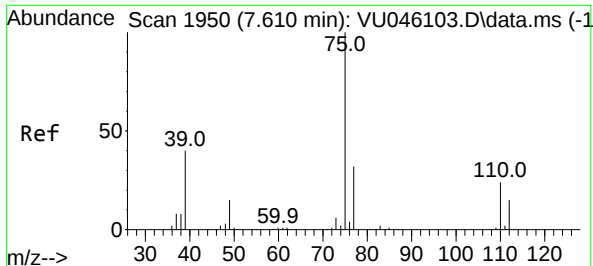
Tgt Ion: 83 Resp: 3519
Ion Ratio Lower Upper
83 100
55 68.5 57.8 86.6
98 47.7 38.4 57.6



#37
1,2-Dichloropropane
Concen: 6.030 ug/L
RT: 6.693 min Scan# 1665
Delta R.T. -0.100 min
Lab File: VU046228.D
Acq: 09 Dec 2021 18:28

Tgt Ion: 63 Resp: 9126
Ion Ratio Lower Upper
63 100
112 0.0 3.8 5.6#





#39

cis-1,3-Dichloropropene

Concen: 1.034 ug/L

RT: 7.568 min Scan# 1950

Delta R.T. -0.042 min

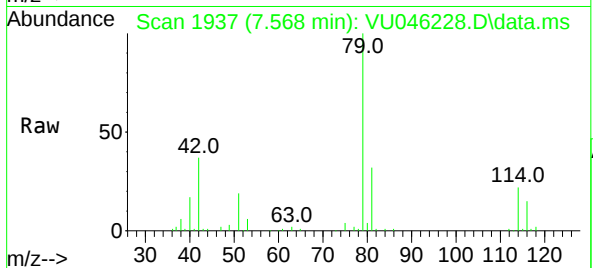
Lab File: VU046228.D

Acq: 09 Dec 2021 18:28

Instrument :

MSVOA_U

ClientSampleId :

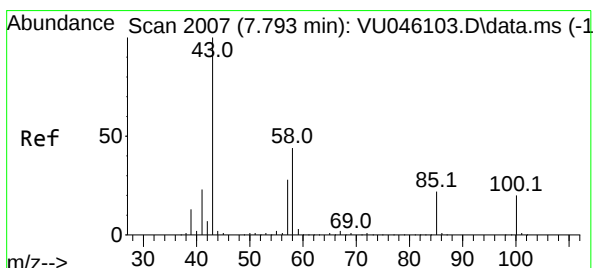
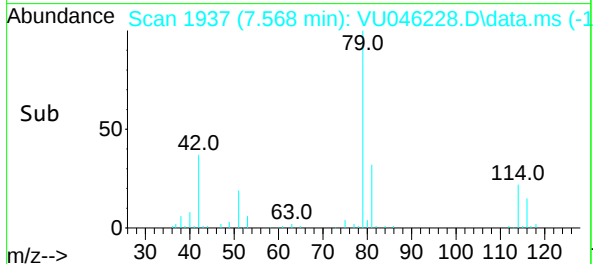
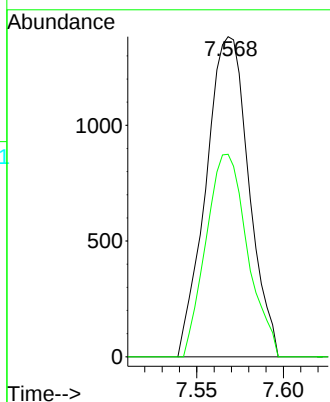


Tgt Ion: 75 Resp: 2381

Ion Ratio Lower Upper

75 100

77 63.3 21.8 40.6#



#40

4-Methyl-2-pentanone

Concen: 1.302 ug/L

RT: 7.793 min Scan# 2007

Delta R.T. -0.003 min

Lab File: VU046228.D

Acq: 09 Dec 2021 18:28

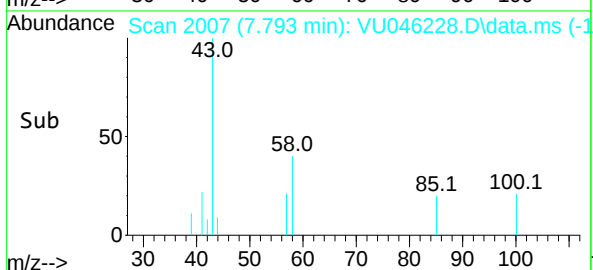
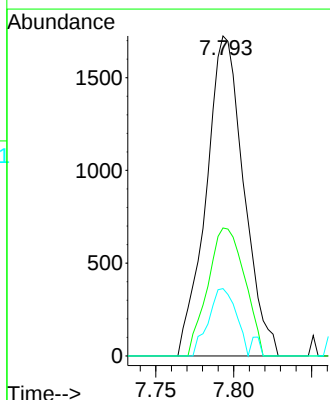
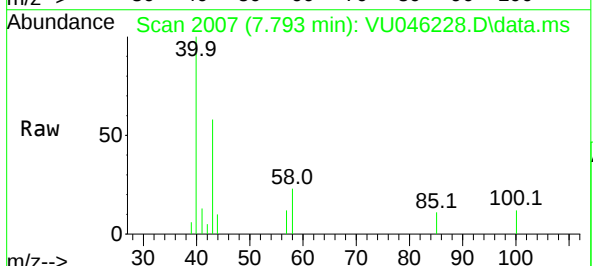
Tgt Ion: 43 Resp: 2896

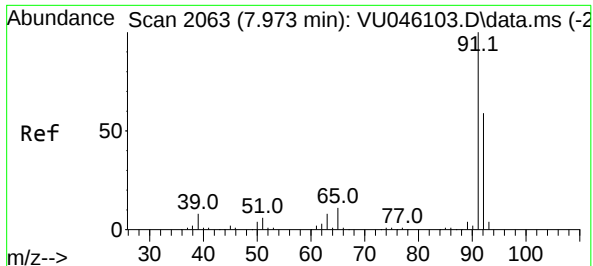
Ion Ratio Lower Upper

43 100

58 39.2 34.2 51.4

100 15.5 14.5 21.7

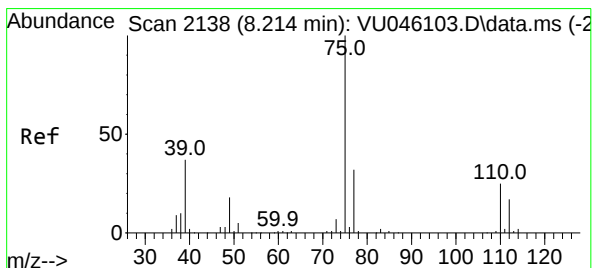
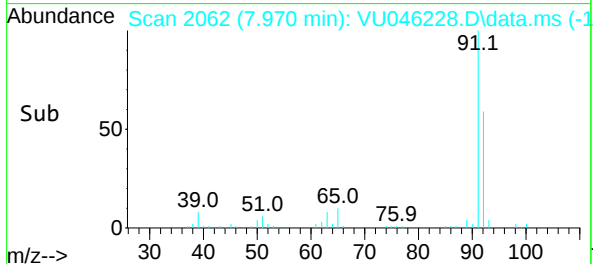
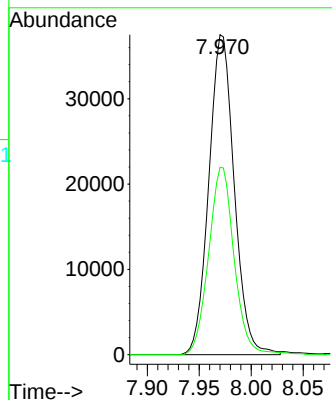
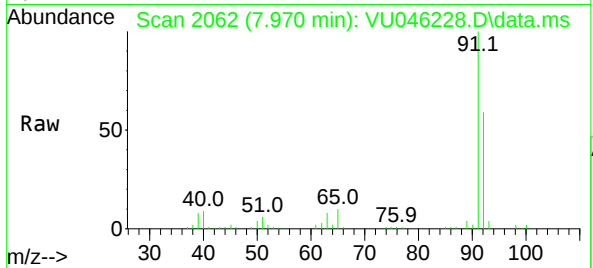




#42
Toluene
Concen: 10.283 ug/L
RT: 7.970 min Scan# 2063
Delta R.T. -0.003 min
Lab File: VU046228.D
Acq: 09 Dec 2021 18:28

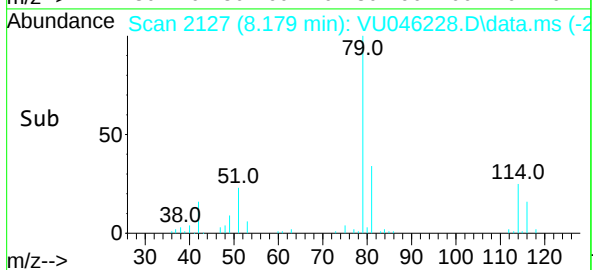
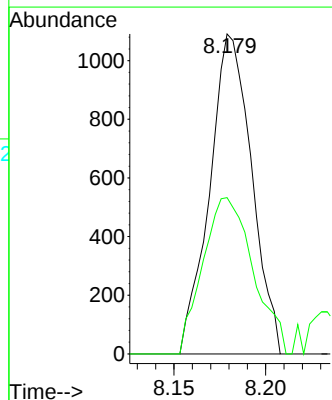
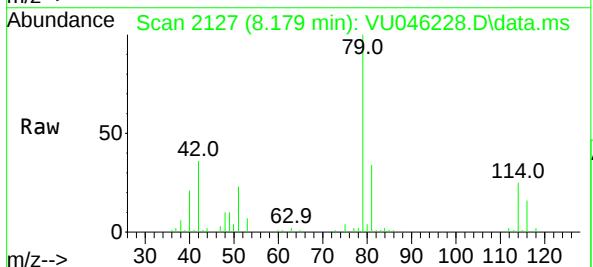
Instrument :
MSVOA_U
ClientSampleId :

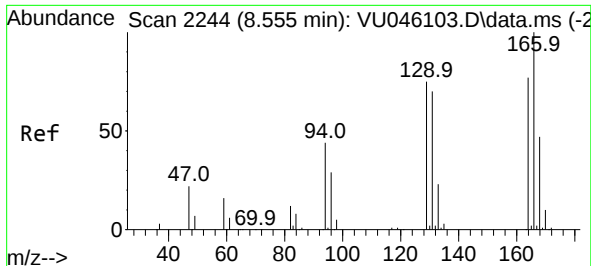
Tgt Ion: 91 Resp: 63745
Ion Ratio Lower Upper
91 100
92 58.5 41.9 77.7



#44
trans-1,3-Dichloropropene
Concen: 0.768 ug/L
RT: 8.179 min Scan# 2127
Delta R.T. -0.035 min
Lab File: VU046228.D
Acq: 09 Dec 2021 18:28

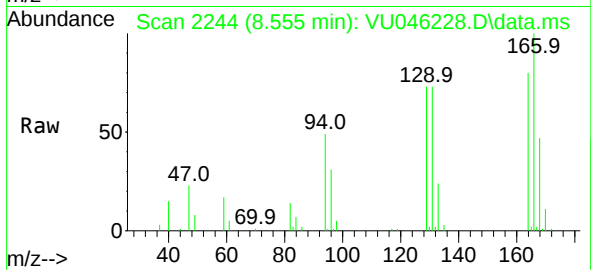
Tgt Ion: 75 Resp: 1737
Ion Ratio Lower Upper
75 100
77 48.9 21.7 40.3#



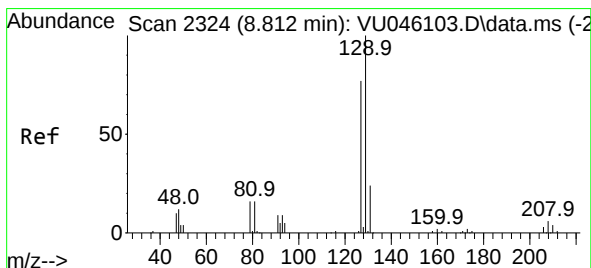
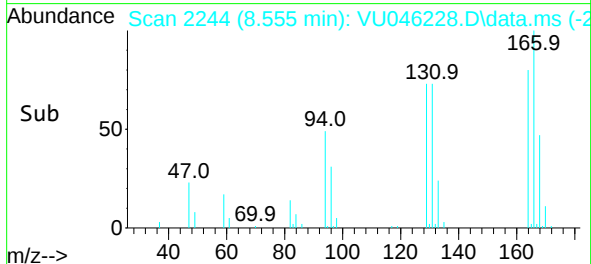
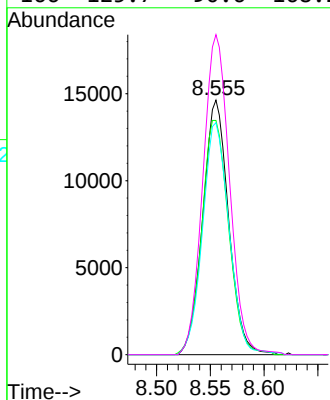


#46
Tetrachloroethene
Concen: 21.940 ug/L
RT: 8.555 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU046228.D
Acq: 09 Dec 2021 18:28

Instrument :
MSVOA_U
ClientSampleId :

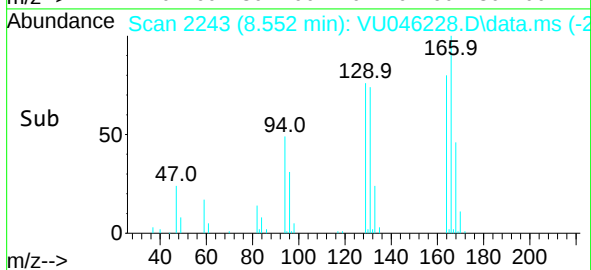
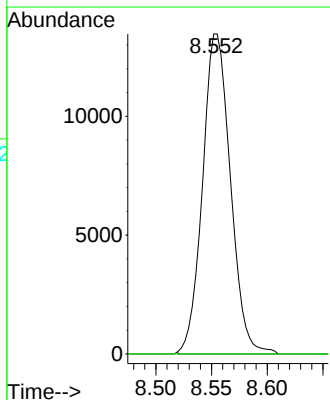
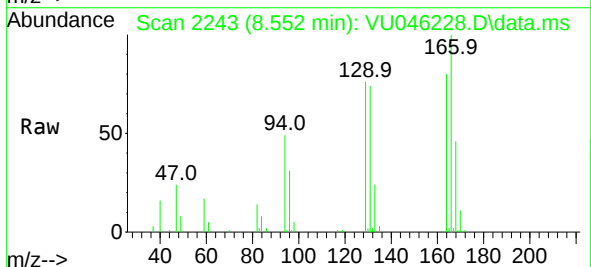


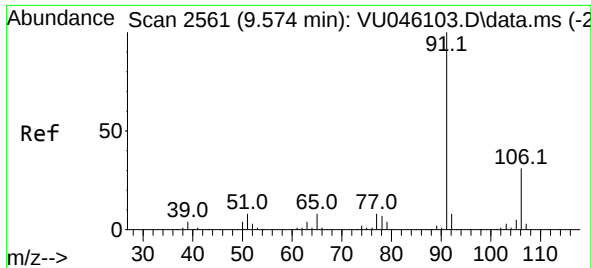
Tgt Ion:164 Resp: 24540
Ion Ratio Lower Upper
164 100
129 92.0 71.1 132.1
131 91.2 67.8 126.0
166 125.7 90.6 168.2



#49
Dibromochloromethane
Concen: 14.698 ug/L
RT: 8.552 min Scan# 2243
Delta R.T. -0.261 min
Lab File: VU046228.D
Acq: 09 Dec 2021 18:28

Tgt Ion:129 Resp: 23436
Ion Ratio Lower Upper
129 100
127 0.0 55.6 103.4#

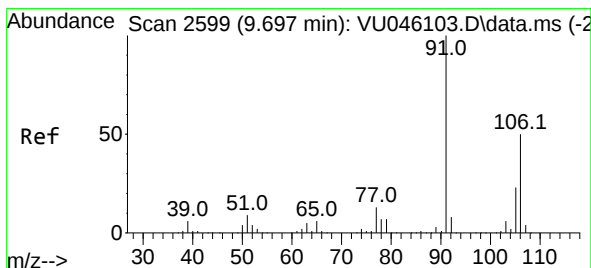
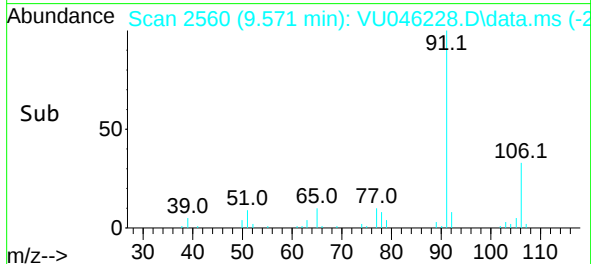
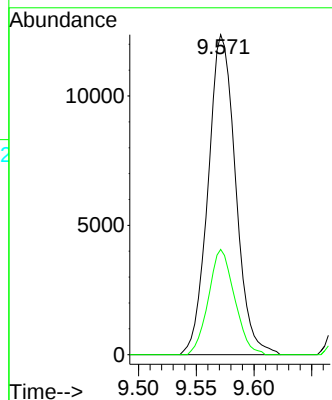
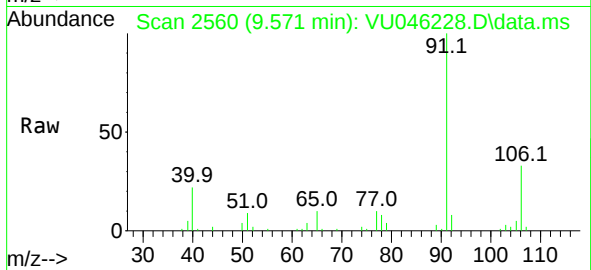




#52
Ethylbenzene
Concen: 3.073 ug/L
RT: 9.571 min Scan# 2561
Delta R.T. -0.003 min
Lab File: VU046228.D
Acq: 09 Dec 2021 18:28

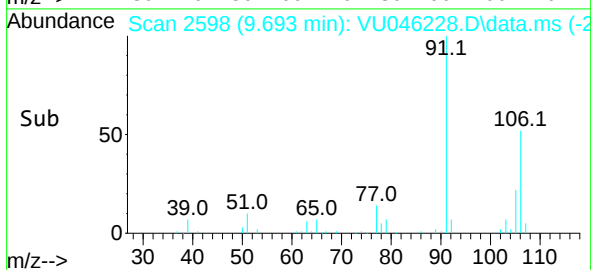
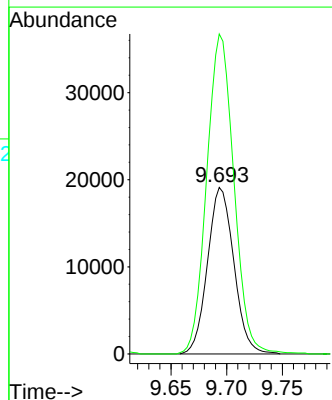
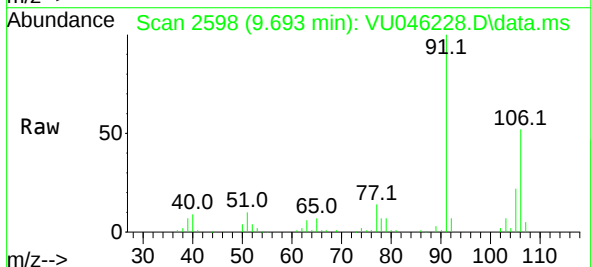
Instrument :
MSVOA_U
ClientSampleId :

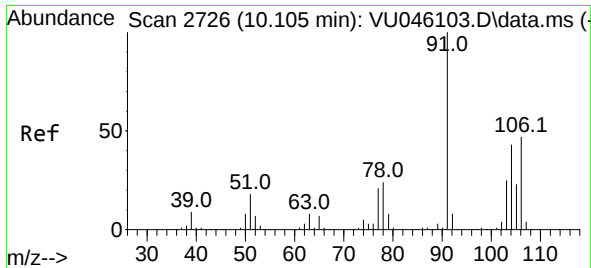
Tgt Ion: 91 Resp: 20502
Ion Ratio Lower Upper
91 100
106 32.9 21.1 39.3



#53
m,p-Xylene
Concen: 12.098 ug/L
RT: 9.693 min Scan# 2598
Delta R.T. -0.003 min
Lab File: VU046228.D
Acq: 09 Dec 2021 18:28

Tgt Ion:106 Resp: 31478
Ion Ratio Lower Upper
106 100
91 192.1 144.3 268.1

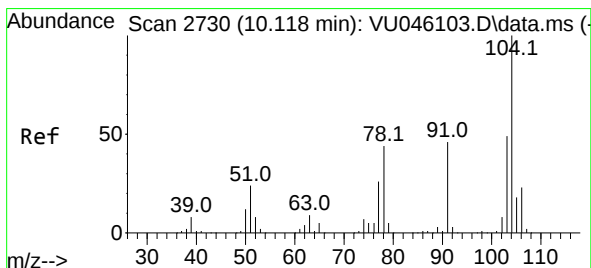
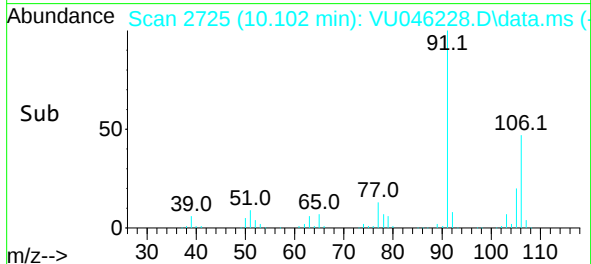
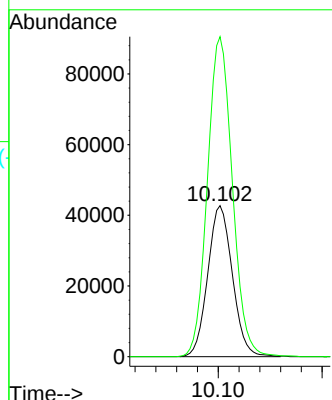
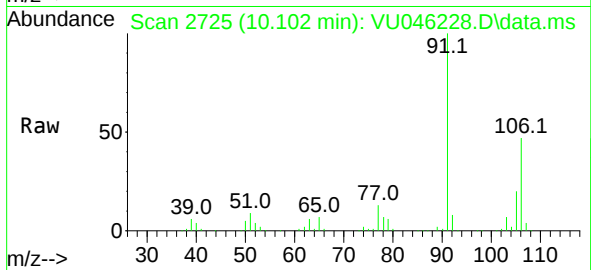




#54
o-xylene
Concen: 27.871 ug/L
RT: 10.102 min Scan# 2725
Delta R.T. -0.003 min
Lab File: VU046228.D
Acq: 09 Dec 2021 18:28

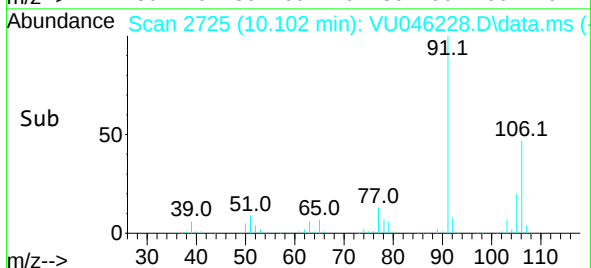
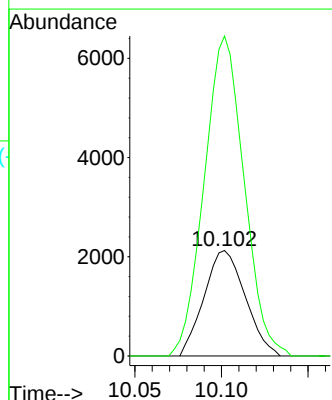
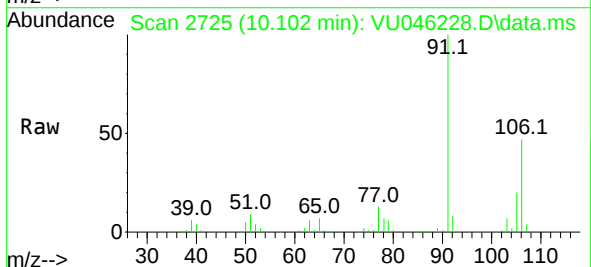
Instrument :
MSVOA_U
ClientSampleId :

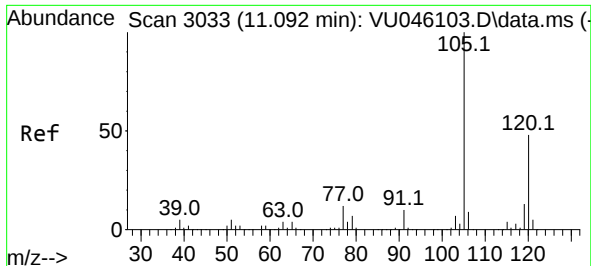
Tgt Ion:106 Resp: 70366
Ion Ratio Lower Upper
106 100
91 211.9 154.2 286.4



#55
Styrene
Concen: 0.818 ug/L
RT: 10.102 min Scan# 2725
Delta R.T. -0.016 min
Lab File: VU046228.D
Acq: 09 Dec 2021 18:28

Tgt Ion:104 Resp: 3524
Ion Ratio Lower Upper
104 100
78 303.7 32.6 60.5#





#62

1,3,5-Trimethylbenzene

Concen: 23.560 ug/L

RT: 11.089 min Scan# 30

Delta R.T. -0.003 min

Lab File: VU046228.D

Acq: 09 Dec 2021 18:28

Instrument :

MSVOA_U

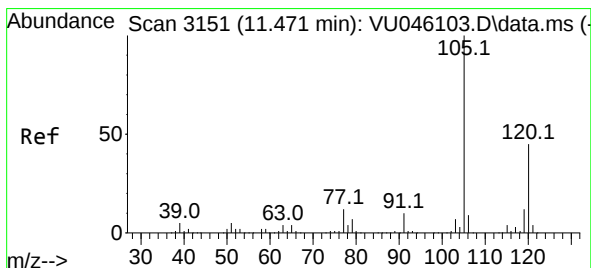
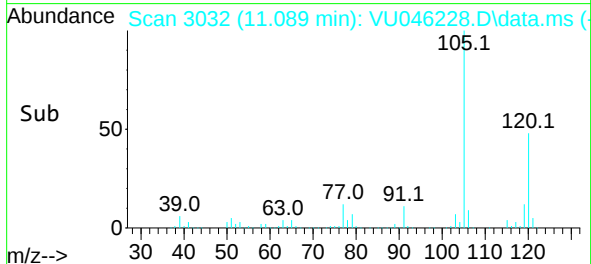
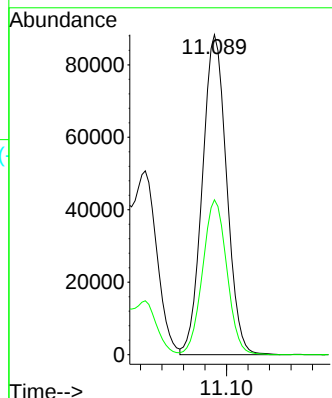
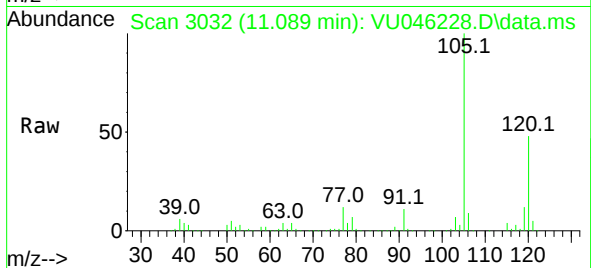
ClientSampleId :

Tgt Ion:105 Resp: 138335

Ion Ratio Lower Upper

105 100

120 48.4 37.8 56.6



#63

1,2,4-Trimethylbenzene

Concen: 26.731 ug/L

RT: 11.468 min Scan# 3150

Delta R.T. -0.003 min

Lab File: VU046228.D

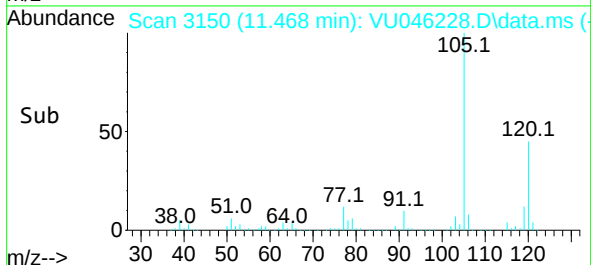
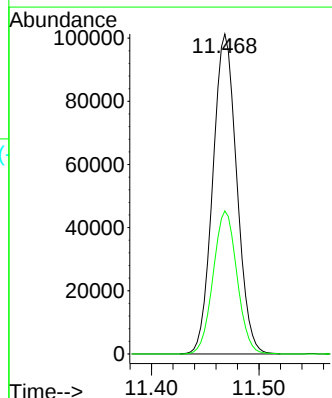
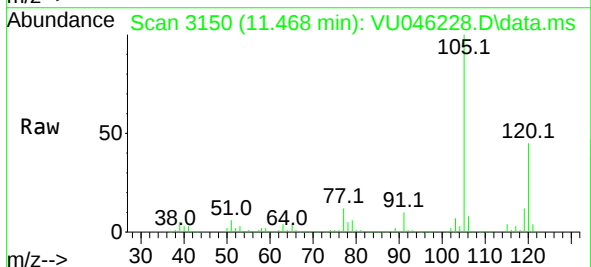
Acq: 09 Dec 2021 18:28

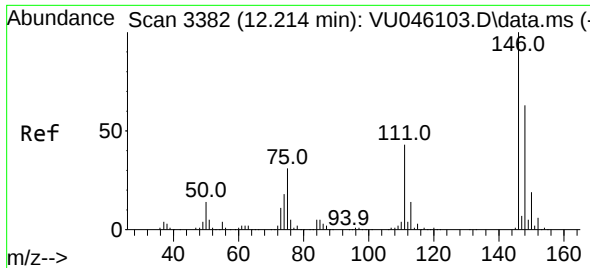
Tgt Ion:105 Resp: 157032

Ion Ratio Lower Upper

105 100

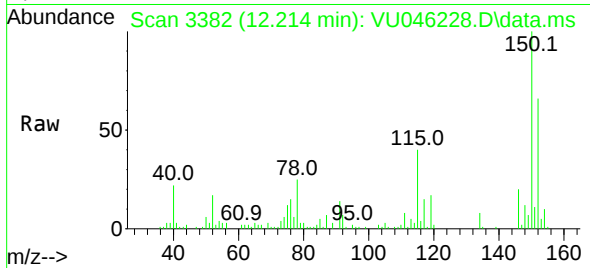
120 44.5 35.2 52.8



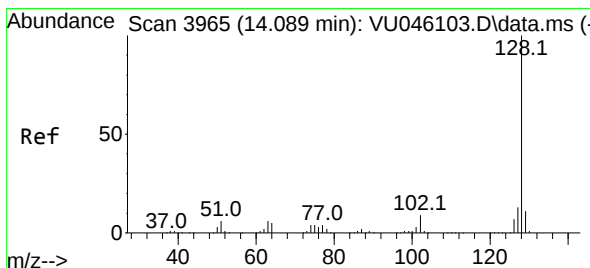
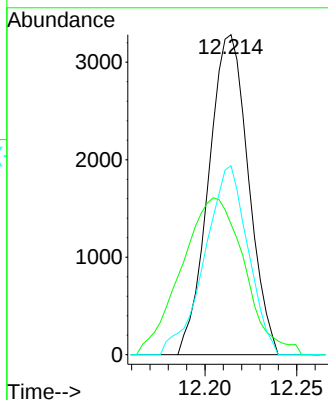
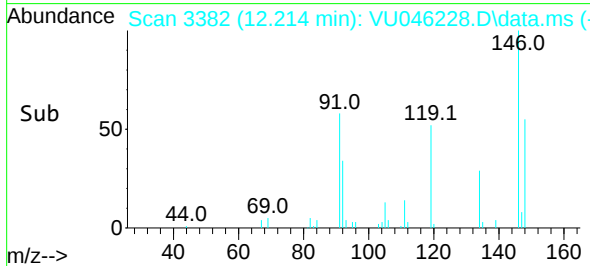


#67
1,2-Dichlorobenzene
Concen: 1.467 ug/L
RT: 12.214 min Scan# 31
Delta R.T. -0.000 min
Lab File: VU046228.D
Acq: 09 Dec 2021 18:28

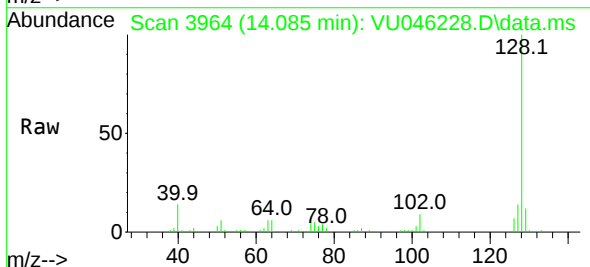
Instrument :
MSVOA_U
ClientSampleId :



Tgt Ion:146 Resp: 4945
Ion Ratio Lower Upper
146 100
111 40.8 35.7 53.5
148 59.1 51.2 76.8



#71
Naphthalene
Concen: 5.056 ug/L
RT: 14.085 min Scan# 3964
Delta R.T. -0.003 min
Lab File: VU046228.D
Acq: 09 Dec 2021 18:28



Tgt Ion:128 Resp: 38070
Ion Ratio Lower Upper
128 100
127 13.5 10.1 15.1
129 11.8 8.6 13.0

