

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU120821\
 Data File : VU046193.D
 Acq On : 08 Dec 2021 22:13
 Operator : SY/MD
 Sample : M4983-04
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 09 04:36:26 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	206451	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.417	117	204956	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	112315	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.601	65	55428	32.592	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	65.180%
7) Chloroethane-d5	1.919	69	46732	35.790	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	71.580%
11) 1,1-Dichloroethene-d2	2.575	63	102725	33.648	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	67.300%
21) 2-Butanone-d5	4.639	46	128554	95.090	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	95.090%
24) Chloroform-d	5.067	84	124934	43.991	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.980%
26) 1,2-Dichloroethane-d4	5.707	65	79777	41.857	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	83.720%
32) Benzene-d6	5.732	84	250265	42.603	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	85.200%
36) 1,2-Dichloropropane-d6	6.694	67	80232	44.069	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	88.140%
41) Toluene-d8	7.899	98	229540	42.916	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	85.840%
43) trans-1,3-Dichloroprop...	8.179	79	40092	45.619	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	91.240%
47) 2-Hexanone-d5	8.632	63	93332	108.123	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	108.120%
56) 1,1,2,2-Tetrachloroeth...	10.758	84	131043	47.463	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	94.920%
66) 1,2-Dichlorobenzene-d4	12.195	152	103589	47.892	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.780%
Target Compounds						
5) Vinyl chloride	1.607	62	81467	40.217	ug/L	99
8) Chloroethane	1.938	64	522748	445.694	ug/L	98
9) Trichlorofluoromethane	2.144	101	6461	2.443	ug/L	100
10) 1,1,2-Trichloro-1,2,2-...	2.575	101	873	0.581	ug/L #	21
12) 1,1-Dichloroethene	2.588	96	40175	28.144	ug/L	97
17) trans-1,2-Dichloroethene	3.359	96	12455	8.245	ug/L	98
19) 1,1-Dichloroethane	3.877	63	1258470	458.173	ug/L	99
20) cis-1,2-Dichloroethene	4.671	96	1280639	781.279	ug/L	97
27) 1,2-Dichloroethane	5.797	62	4344	1.918	ug/L	95
30) 1,1,1-Trichloroethane	5.321	97	3715347	1476.778	ug/L	98
31) Carbon tetrachloride	5.324	117	475038	222.413	ug/L	99
33) Benzene	5.777	78	9528	1.536	ug/L	100
34) Trichloroethene	6.546	95	14519	8.884	ug/L	97
35) Methylcyclohexane	6.764	83	2627	1.037	ug/L	95
37) 1,2-Dichloropropane	6.694	63	8264	5.086	ug/L #	86
39) cis-1,3-Dichloropropene	7.568	75	2290	0.926	ug/L #	58
42) Toluene	7.970	91	220202	33.082	ug/L	100
44) trans-1,3-Dichloropropene	8.179	75	1768	0.728	ug/L #	77
46) Tetrachloroethene	8.555	164	26278	21.881	ug/L	97

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

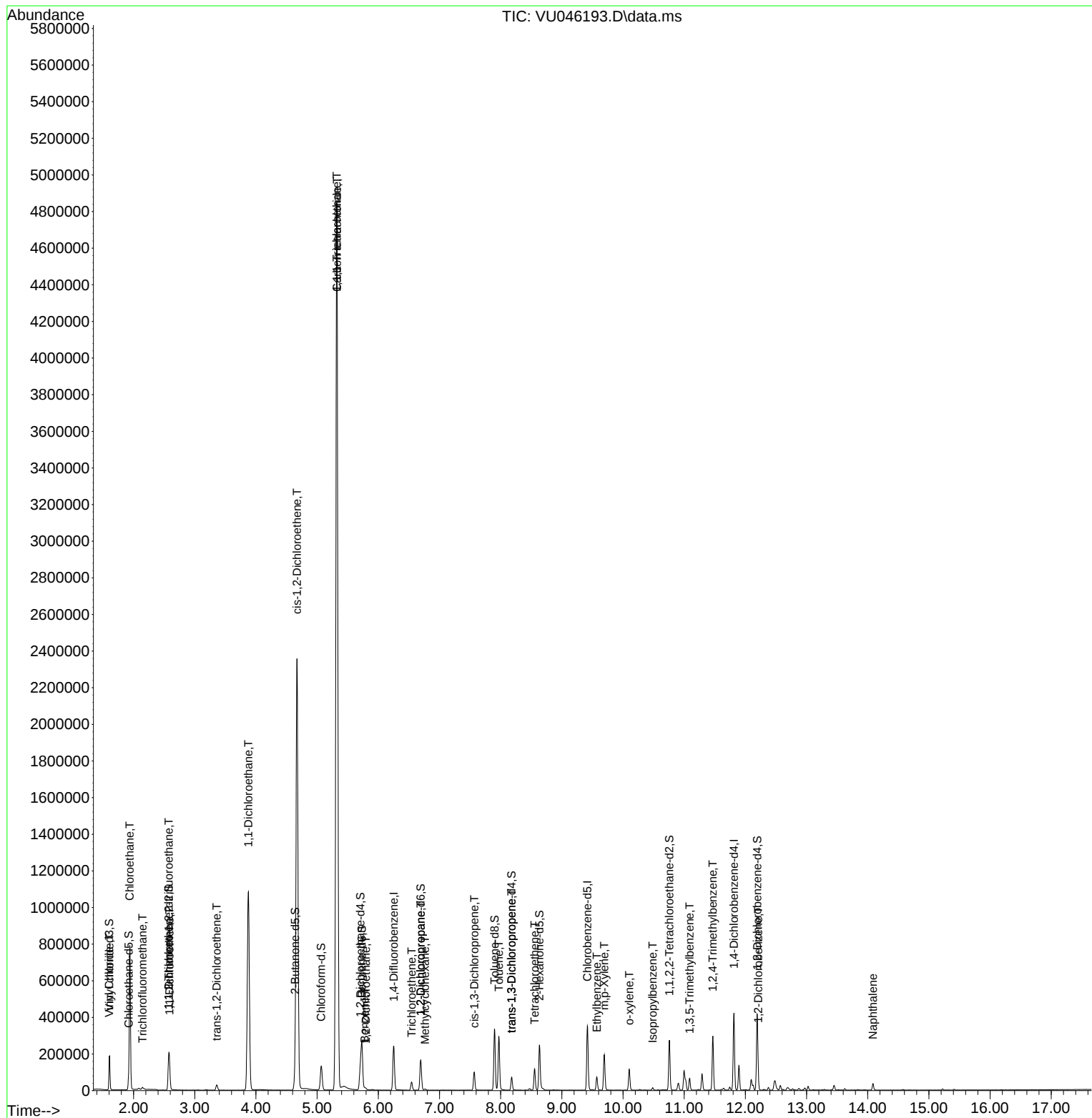
52) Ethylbenzene	9.571	91	54444	7.600	ug/L	97
53) m,p-Xylene	9.694	106	58099	20.797	ug/L	100
54) o-xylene	10.102	106	33124	12.219	ug/L	97
61) Isopropylbenzene	10.484	105	9624	1.317	ug/L	100
62) 1,3,5-Trimethylbenzene	11.089	105	36960	6.068	ug/L	100
63) 1,2,4-Trimethylbenzene	11.468	105	167852	27.544	ug/L	98
67) 1,2-Dichlorobenzene	12.211	146	6705	1.918	ug/L	92
71) Naphthalene	14.086	128	28857	3.695	ug/L	100

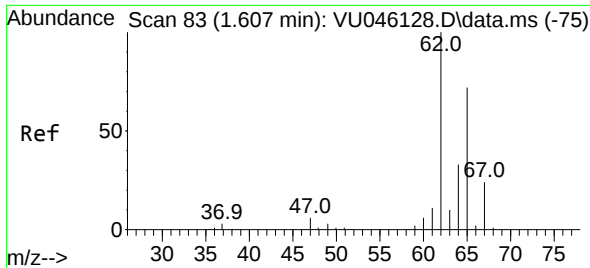
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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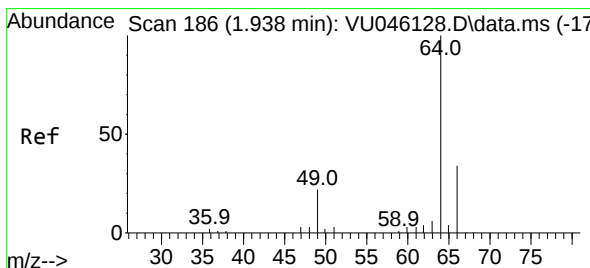
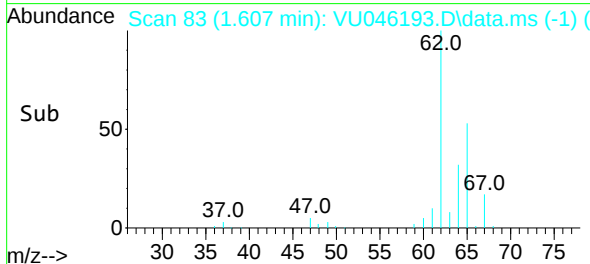
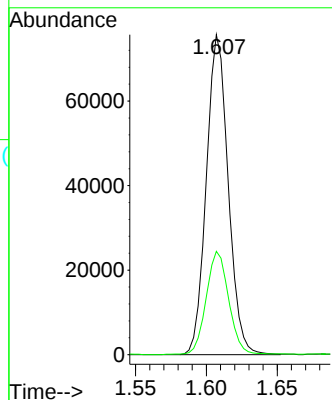
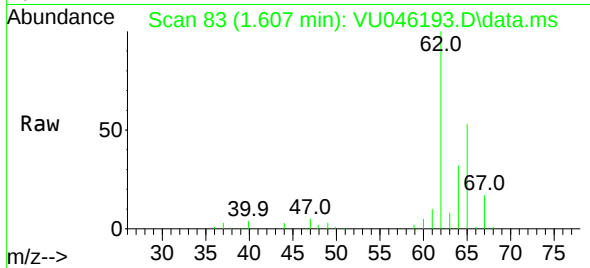




#5
 Vinyl chloride
 Concen: 40.217 ug/L
 RT: 1.607 min Scan# 81
 Delta R.T. 0.000 min
 Lab File: VU046193.D
 Acq: 08 Dec 2021 22:13

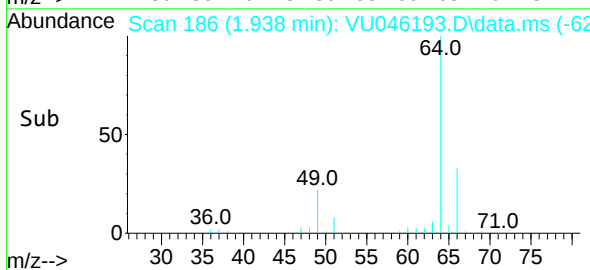
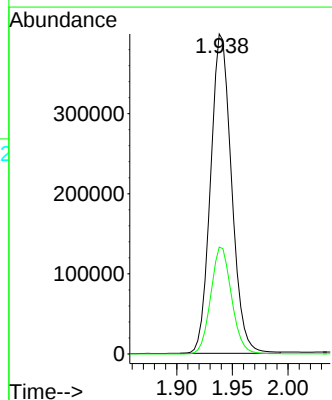
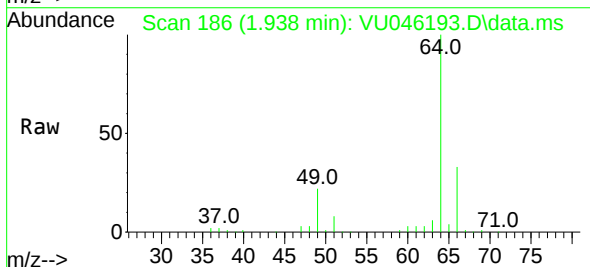
Instrument :
 MSVOA_U
 ClientSampleId :

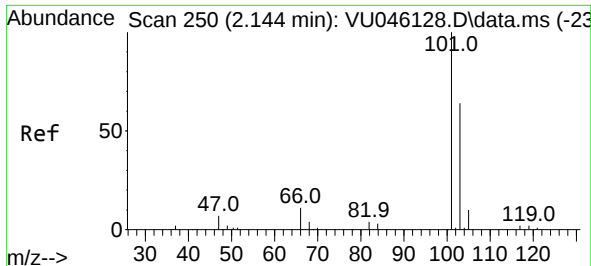
Tgt Ion: 62 Resp: 81467
 Ion Ratio Lower Upper
 62 100
 64 32.3 22.9 42.5



#8
 Chloroethane
 Concen: 445.694 ug/L
 RT: 1.938 min Scan# 186
 Delta R.T. 0.000 min
 Lab File: VU046193.D
 Acq: 08 Dec 2021 22:13

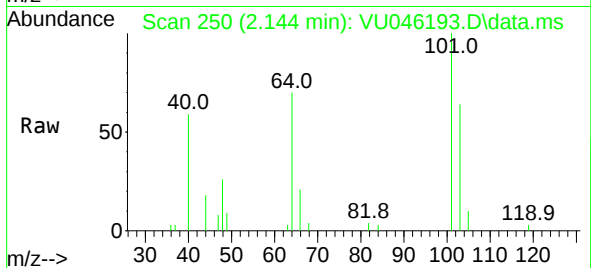
Tgt Ion: 64 Resp: 522748
 Ion Ratio Lower Upper
 64 100
 66 33.4 22.5 41.9



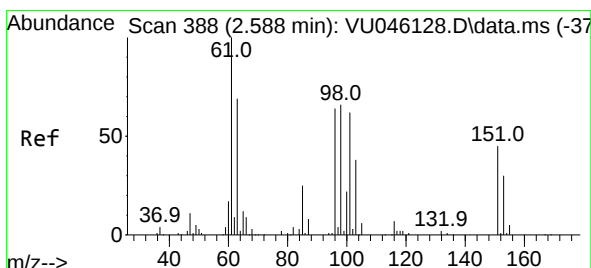
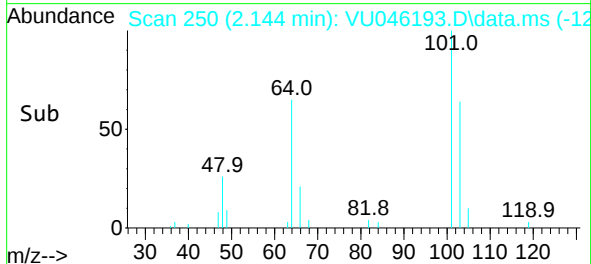
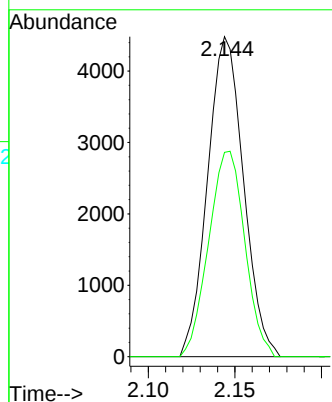


#9
 Trichlorofluoromethane
 Concen: 2.443 ug/L
 RT: 2.144 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VU046193.D
 Acq: 08 Dec 2021 22:13

Instrument :
 MSVOA_U
 ClientSampleId :

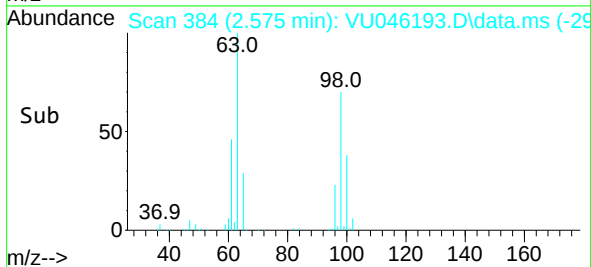
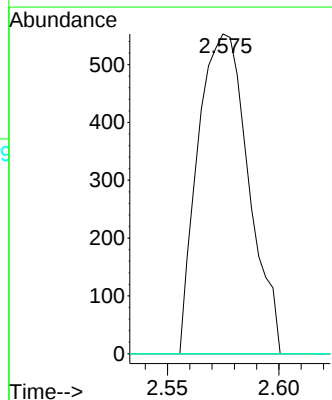
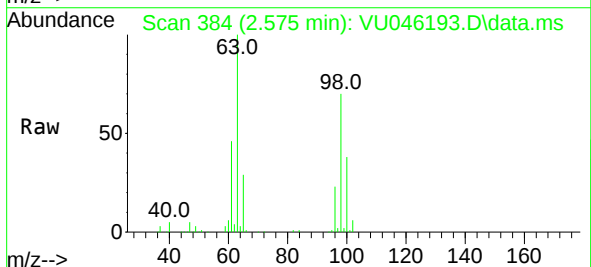


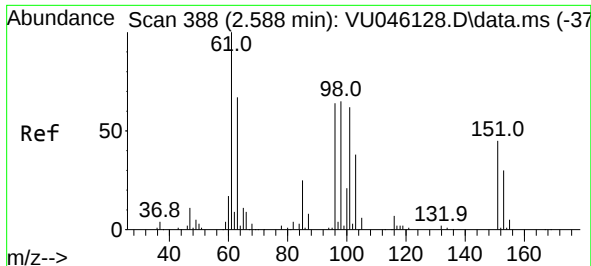
Tgt Ion:101 Resp: 6461
 Ion Ratio Lower Upper
 101 100
 103 64.6 51.8 77.6



#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.581 ug/L
 RT: 2.575 min Scan# 384
 Delta R.T. -0.013 min
 Lab File: VU046193.D
 Acq: 08 Dec 2021 22:13

Tgt Ion:101 Resp: 873
 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: 28.144 ug/L

RT: 2.588 min Scan# 388

Delta R.T. 0.003 min

Lab File: VU046193.D

Acq: 08 Dec 2021 22:13

Instrument :

MSVOA_U

ClientSampleId :

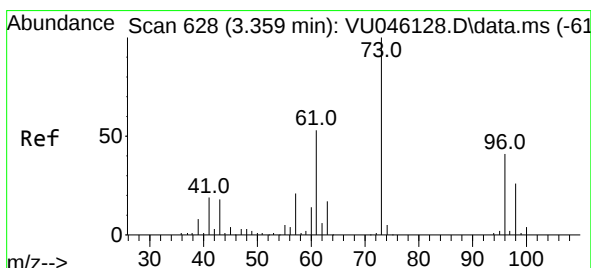
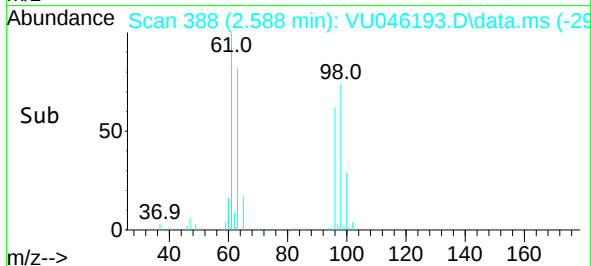
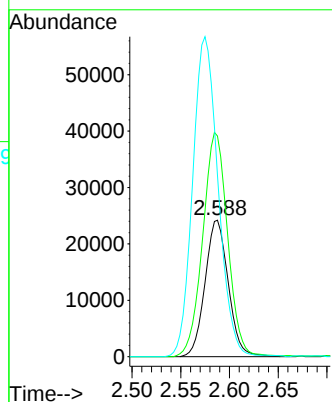
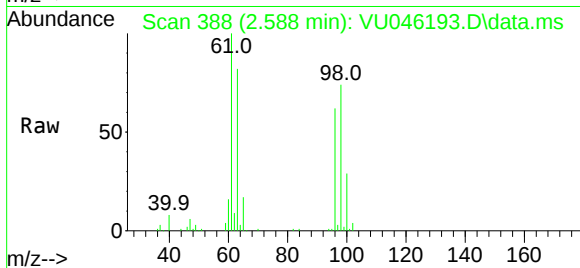
Tgt Ion: 96 Resp: 40175

Ion Ratio Lower Upper

96 100

61 161.6 118.6 220.2

63 132.7 93.0 172.8



#17

trans-1,2-Dichloroethene

Concen: 8.245 ug/L

RT: 3.359 min Scan# 628

Delta R.T. 0.000 min

Lab File: VU046193.D

Acq: 08 Dec 2021 22:13

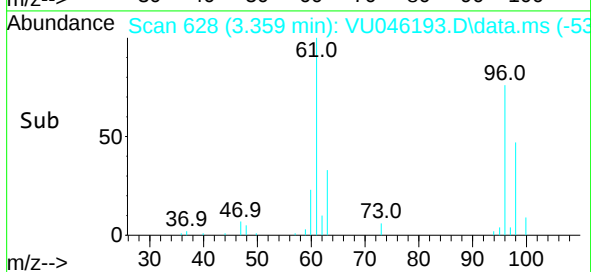
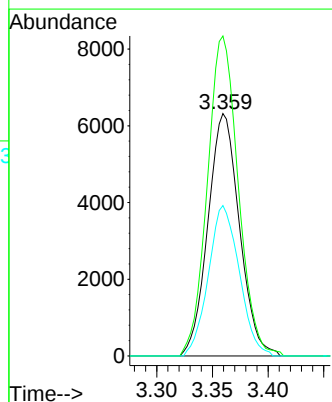
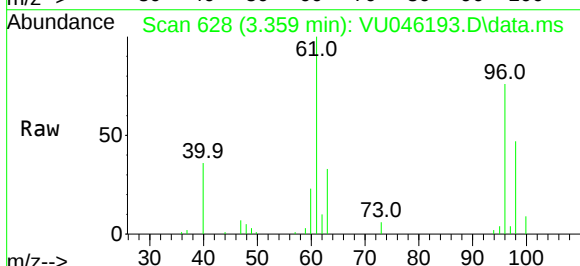
Tgt Ion: 96 Resp: 12455

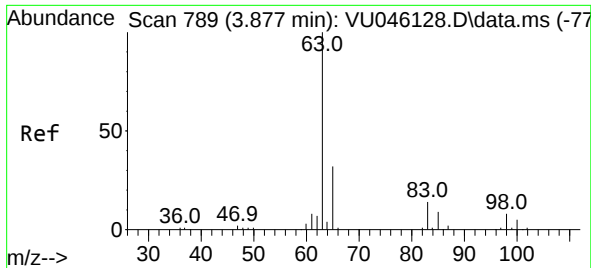
Ion Ratio Lower Upper

96 100

61 132.0 94.6 175.6

98 62.0 44.0 81.8





#19

1,1-Dichloroethane

Concen: 458.173 ug/L

RT: 3.877 min Scan# 789

Delta R.T. 0.000 min

Lab File: VU046193.D

Acq: 08 Dec 2021 22:13

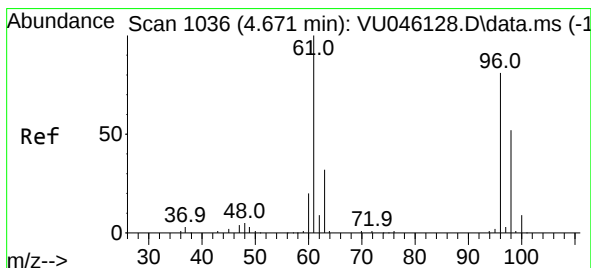
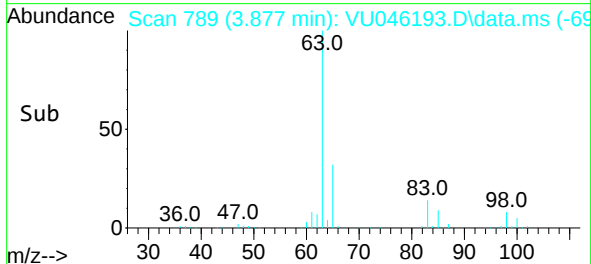
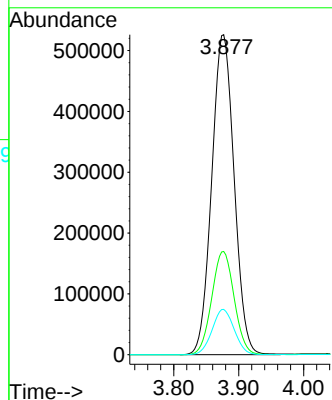
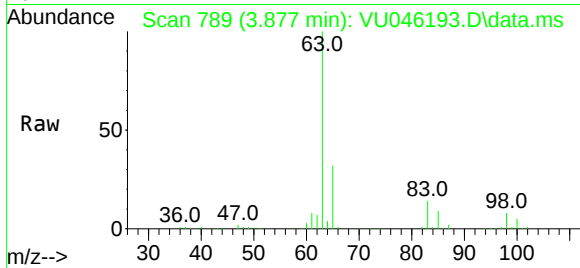
Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 63 Resp: 1258470

Ion	Ratio	Lower	Upper
63	100		
65	32.3	22.8	42.4
83	14.1	9.6	17.8



#20

cis-1,2-Dichloroethene

Concen: 781.279 ug/L

RT: 4.671 min Scan# 1036

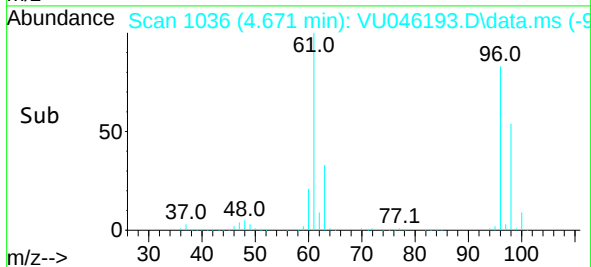
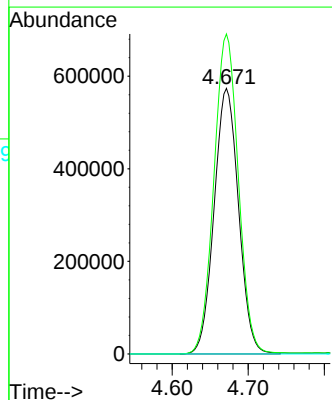
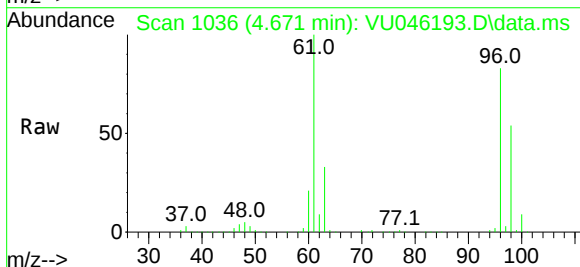
Delta R.T. 0.000 min

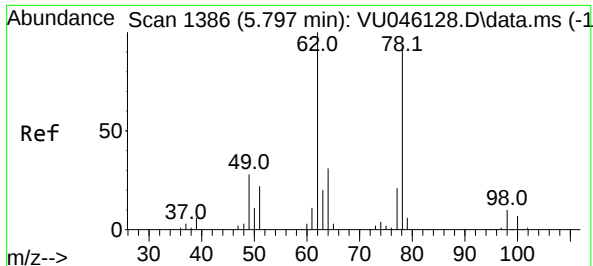
Lab File: VU046193.D

Acq: 08 Dec 2021 22:13

Tgt Ion: 96 Resp: 1280639

Ion	Ratio	Lower	Upper
96	100		
61	120.5	86.8	161.2
68	0.0	0.0	0.0

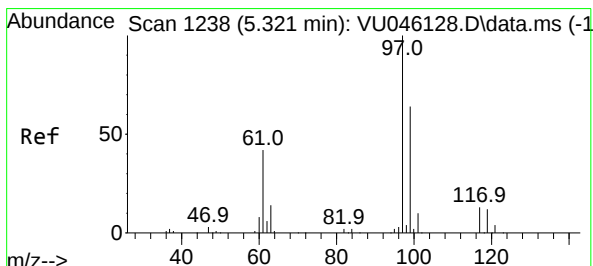
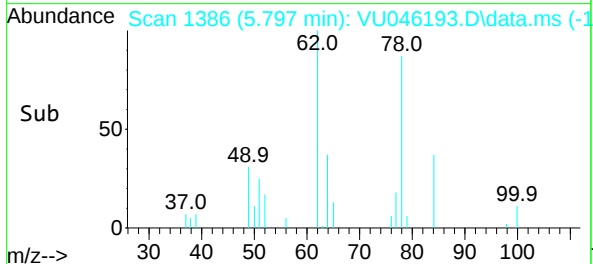
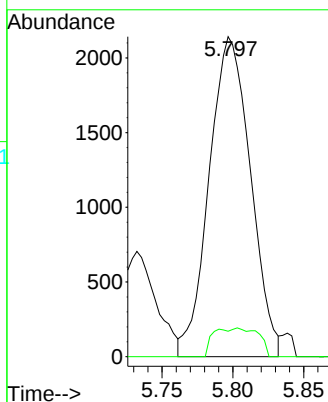
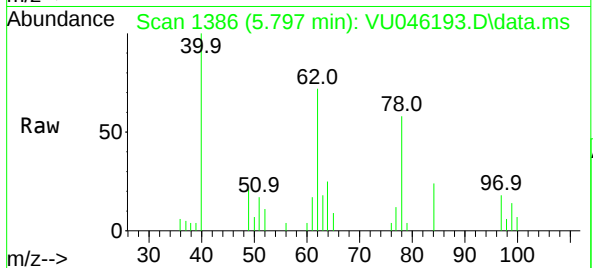




#27
 1,2-Dichloroethane
 Concen: 1.918 ug/L
 RT: 5.797 min Scan# 1386
 Delta R.T. -0.003 min
 Lab File: VU046193.D
 Acq: 08 Dec 2021 22:13

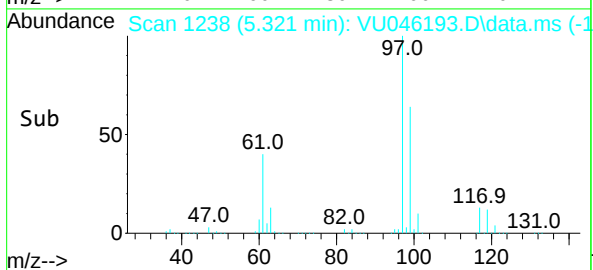
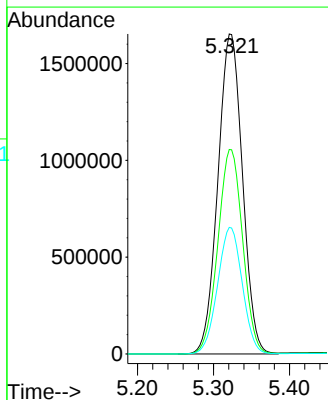
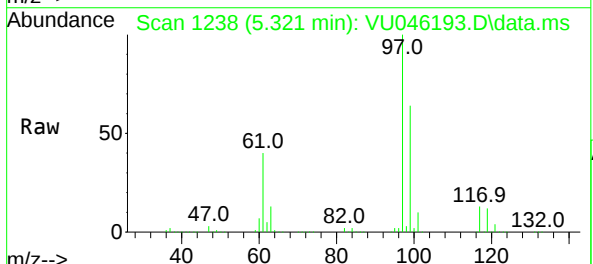
Instrument :
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 ClientSampleId :

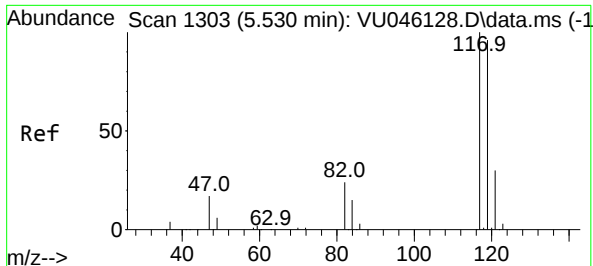
Tgt Ion: 62 Resp: 4344
 Ion Ratio Lower Upper
 62 100
 98 8.0 7.9 11.9



#30
 1,1,1-Trichloroethane
 Concen: 1476.778 ug/L
 RT: 5.321 min Scan# 1238
 Delta R.T. 0.000 min
 Lab File: VU046193.D
 Acq: 08 Dec 2021 22:13

Tgt Ion: 97 Resp: 3715347
 Ion Ratio Lower Upper
 97 100
 99 64.3 51.8 77.6
 61 39.6 34.4 51.6

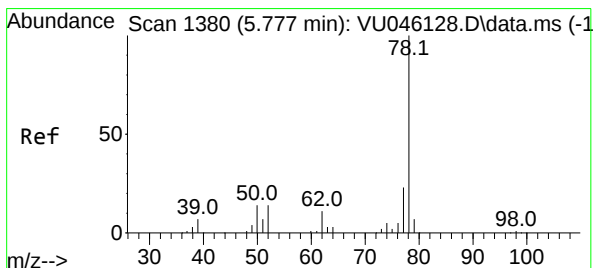
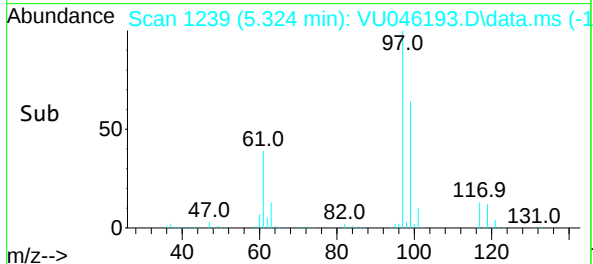
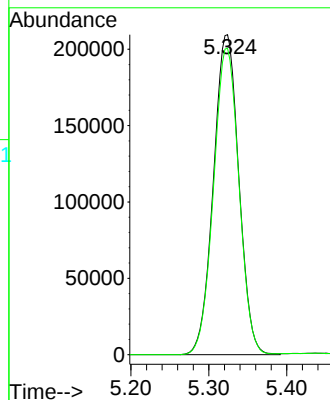
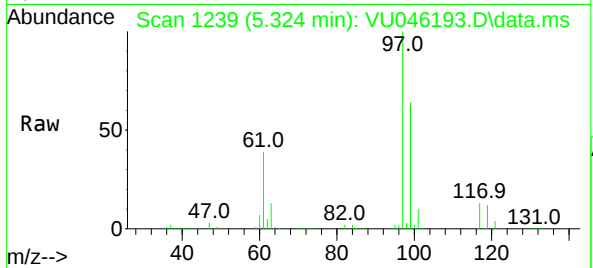




#31
Carbon tetrachloride
Concen: 222.413 ug/L
RT: 5.324 min Scan# 117
Delta R.T. -0.206 min
Lab File: VU046193.D
Acq: 08 Dec 2021 22:13

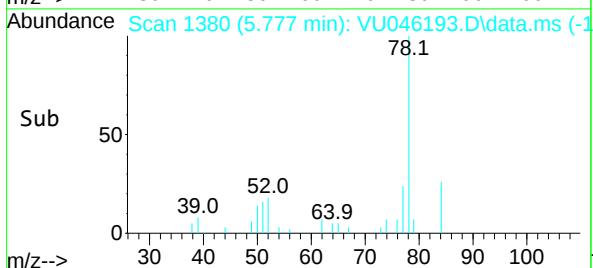
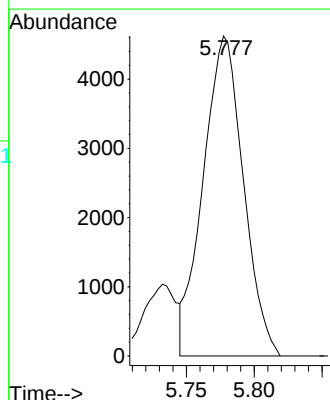
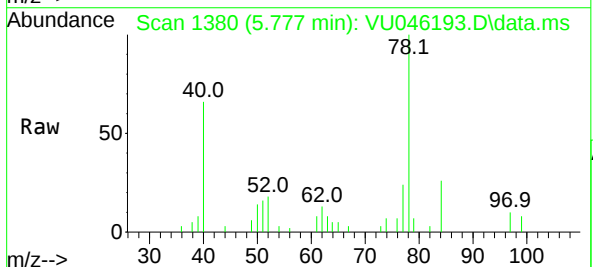
Instrument :
MSVOA_U
ClientSampleId :

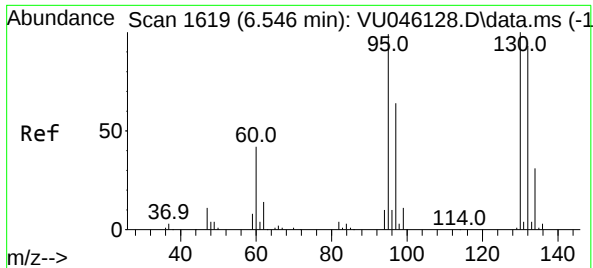
Tgt Ion:117 Resp: 475038
Ion Ratio Lower Upper
117 100
119 95.8 75.7 113.5



#33
Benzene
Concen: 1.536 ug/L
RT: 5.777 min Scan# 1380
Delta R.T. -0.003 min
Lab File: VU046193.D
Acq: 08 Dec 2021 22:13

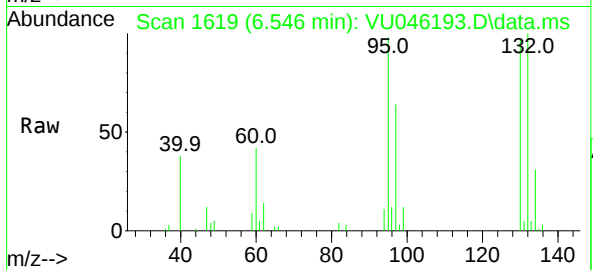
Tgt Ion: 78 Resp: 9528



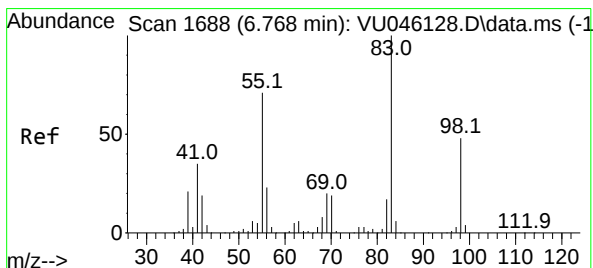
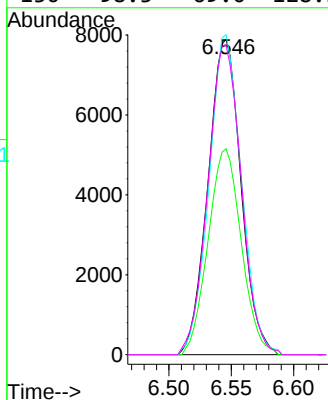
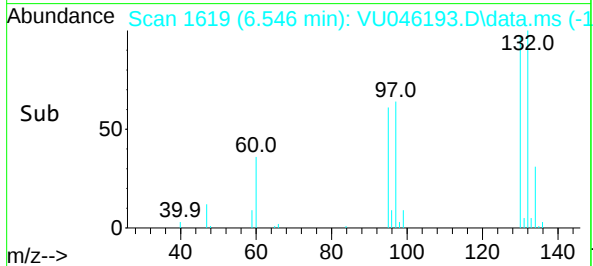


#34
Trichloroethene
Concen: 8.884 ug/L
RT: 6.546 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VU046193.D
Acq: 08 Dec 2021 22:13

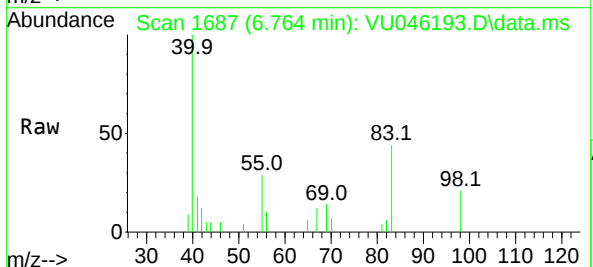
Instrument :
MSVOA_U
ClientSampleId :



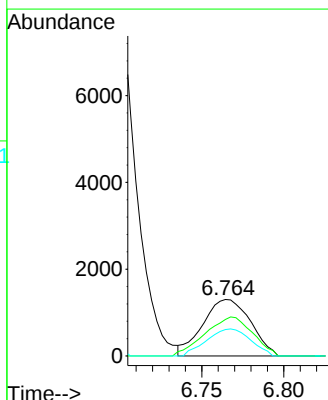
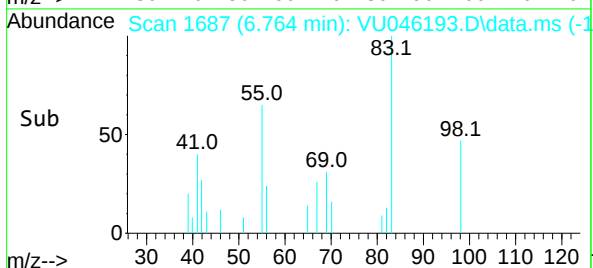
Tgt Ion: 95 Resp: 14519
Ion Ratio Lower Upper
95 100
97 65.4 44.1 81.9
132 101.5 66.8 124.0
130 98.3 69.0 128.1

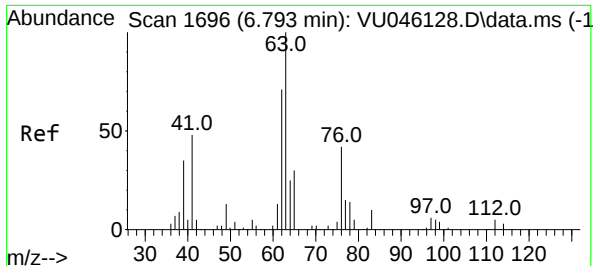


#35
Methylcyclohexane
Concen: 1.037 ug/L
RT: 6.764 min Scan# 1687
Delta R.T. -0.003 min
Lab File: VU046193.D
Acq: 08 Dec 2021 22:13



Tgt Ion: 83 Resp: 2627
Ion Ratio Lower Upper
83 100
55 68.6 57.8 86.6
98 44.0 38.4 57.6





#37

1,2-Dichloropropane

Concen: 5.086 ug/L

RT: 6.694 min Scan# 1

Delta R.T. -0.100 min

Lab File: VU046193.D

Acq: 08 Dec 2021 22:13

Instrument :

MSVOA_U

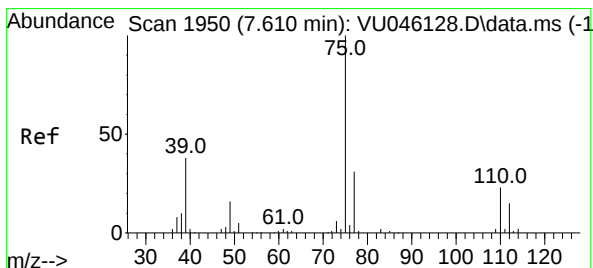
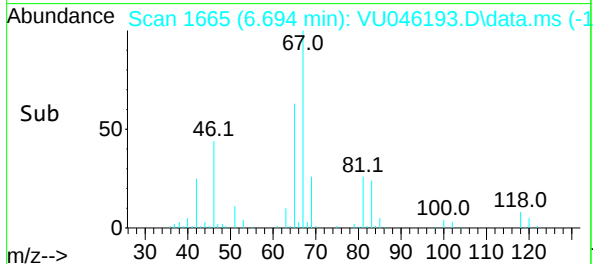
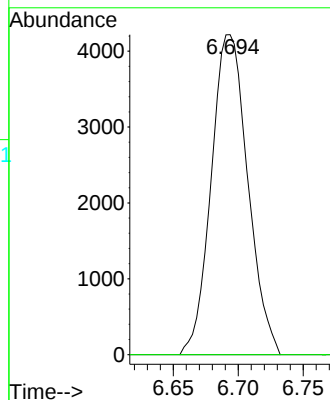
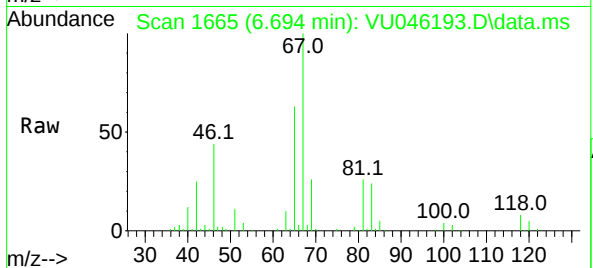
ClientSampleId :

Tgt Ion: 63 Resp: 8264

Ion Ratio Lower Upper

63 100

112 0.0 3.8 5.6#



#39

cis-1,3-Dichloropropene

Concen: 0.926 ug/L

RT: 7.568 min Scan# 1937

Delta R.T. -0.042 min

Lab File: VU046193.D

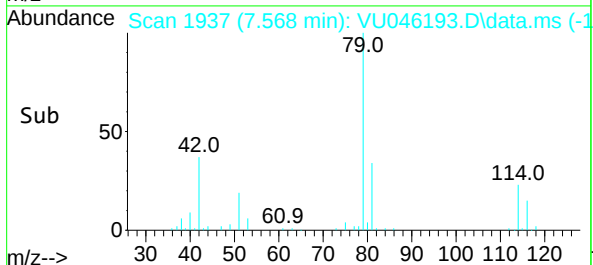
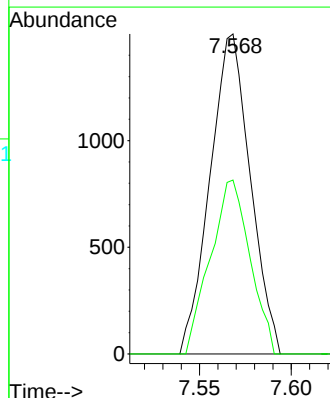
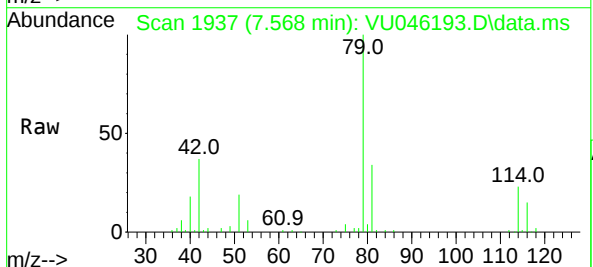
Acq: 08 Dec 2021 22:13

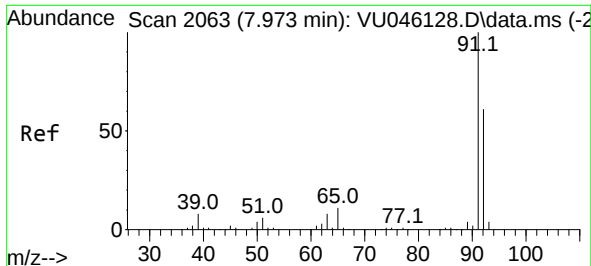
Tgt Ion: 75 Resp: 2290

Ion Ratio Lower Upper

75 100

77 54.3 21.8 40.6#





#42

Toluene

Concen: 33.082 ug/L

RT: 7.970 min Scan# 2063

Delta R.T. -0.003 min

Lab File: VU046193.D

Acq: 08 Dec 2021 22:13

Instrument :

MSVOA_U

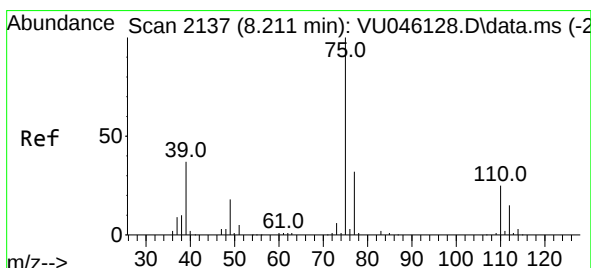
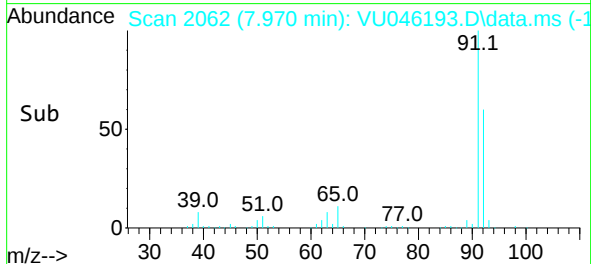
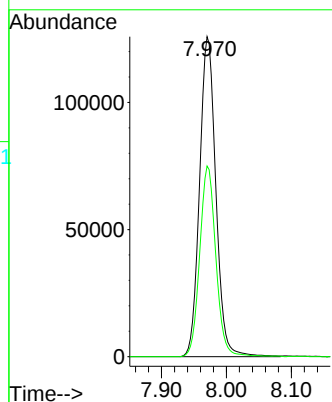
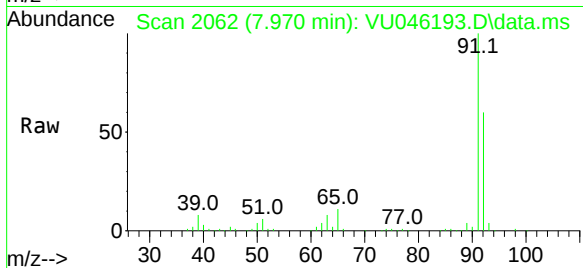
ClientSampleId :

Tgt Ion: 91 Resp: 220202

Ion Ratio Lower Upper

91 100

92 59.6 41.9 77.7



#44

trans-1,3-Dichloropropene

Concen: 0.728 ug/L

RT: 8.179 min Scan# 2127

Delta R.T. -0.035 min

Lab File: VU046193.D

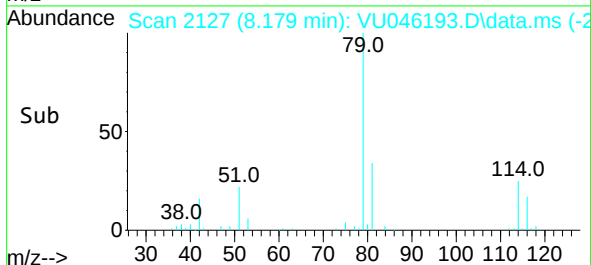
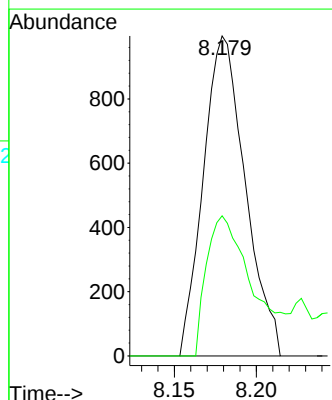
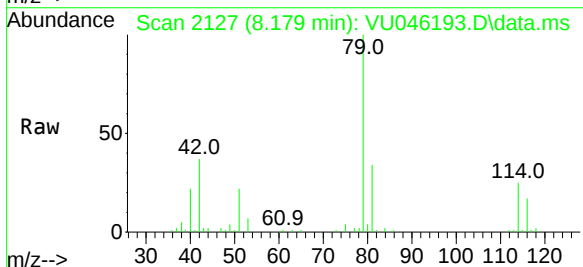
Acq: 08 Dec 2021 22:13

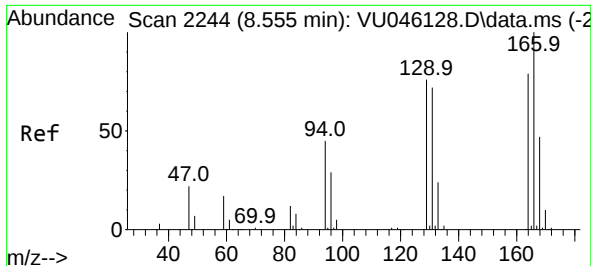
Tgt Ion: 75 Resp: 1768

Ion Ratio Lower Upper

75 100

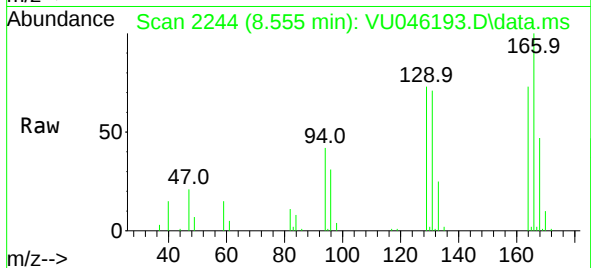
77 43.8 21.7 40.3#



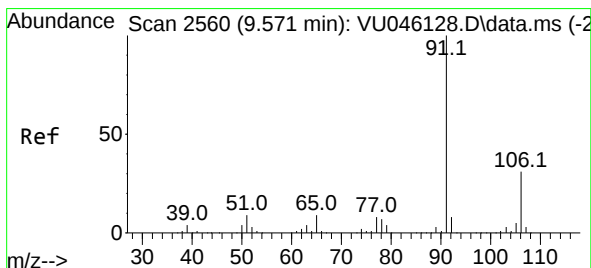
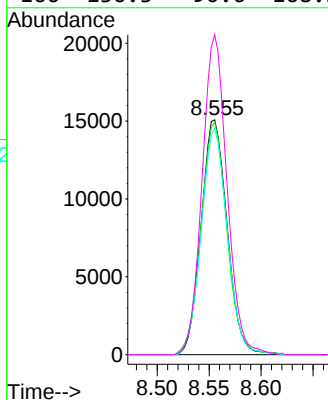
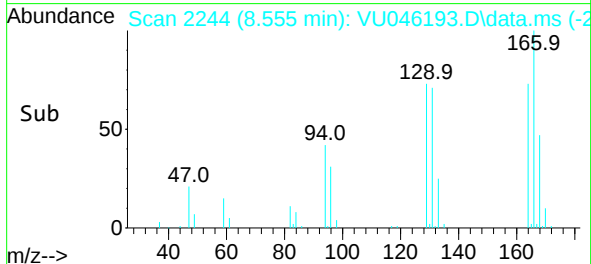


#46
Tetrachloroethene
Concen: 21.881 ug/L
RT: 8.555 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU046193.D
Acq: 08 Dec 2021 22:13

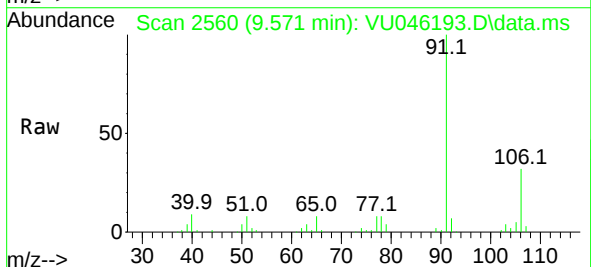
Instrument :
MSVOA_U
ClientSampleId :



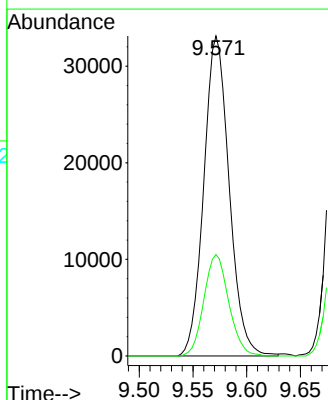
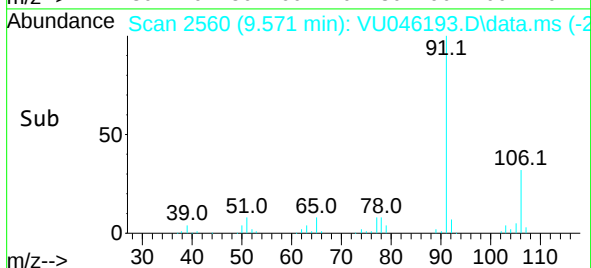
Tgt Ion:164 Resp: 26278
Ion Ratio Lower Upper
164 100
129 99.0 71.1 132.1
131 96.2 67.8 126.0
166 136.3 90.6 168.2

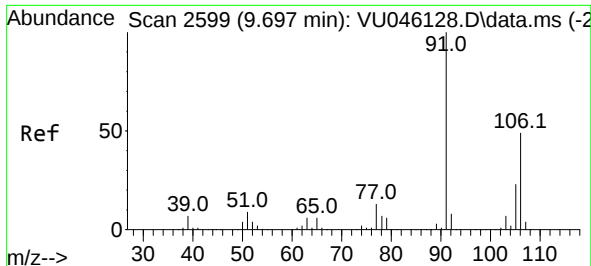


#52
Ethylbenzene
Concen: 7.600 ug/L
RT: 9.571 min Scan# 2560
Delta R.T. -0.003 min
Lab File: VU046193.D
Acq: 08 Dec 2021 22:13



Tgt Ion: 91 Resp: 54444
Ion Ratio Lower Upper
91 100
106 31.7 21.1 39.3

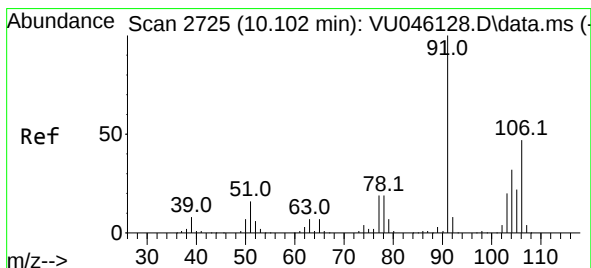
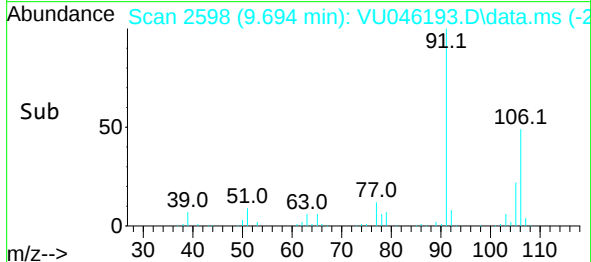
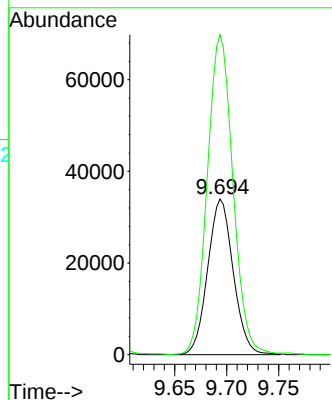
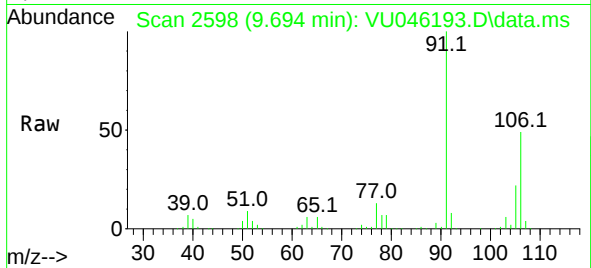




#53
m,p-Xylene
Concen: 20.797 ug/L
RT: 9.694 min Scan# 2599
Delta R.T. -0.003 min
Lab File: VU046193.D
Acq: 08 Dec 2021 22:13

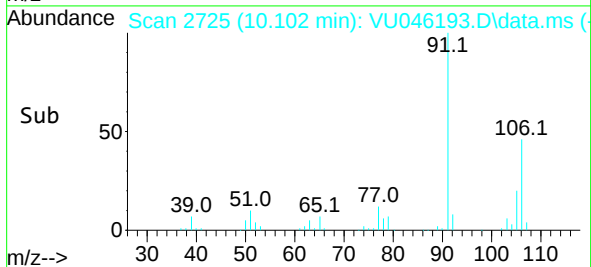
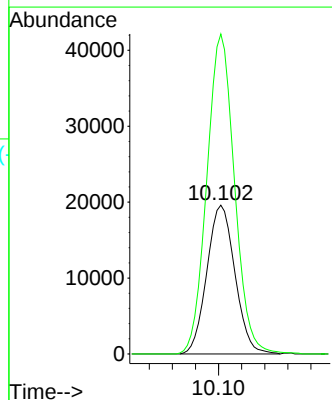
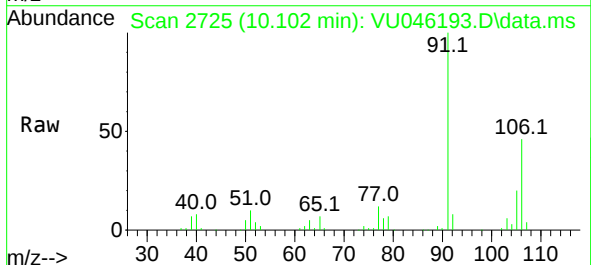
Instrument :
MSVOA_U
ClientSampleId :

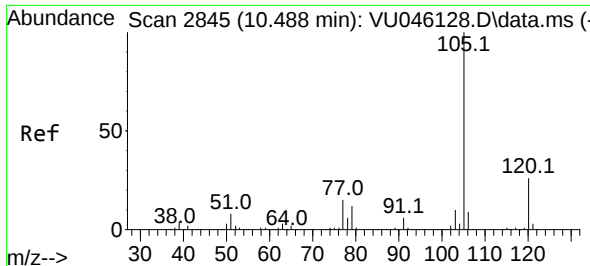
Tgt Ion:106 Resp: 58099
Ion Ratio Lower Upper
106 100
91 205.5 144.3 268.1



#54
o-xylene
Concen: 12.219 ug/L
RT: 10.102 min Scan# 2725
Delta R.T. -0.003 min
Lab File: VU046193.D
Acq: 08 Dec 2021 22:13

Tgt Ion:106 Resp: 33124
Ion Ratio Lower Upper
106 100
91 215.1 154.2 286.4

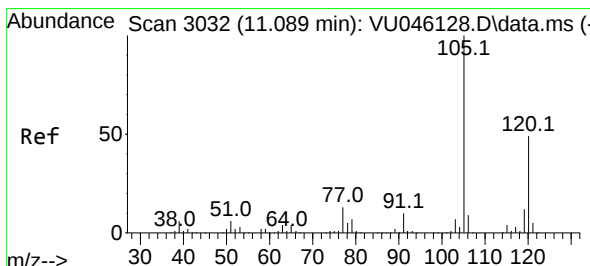
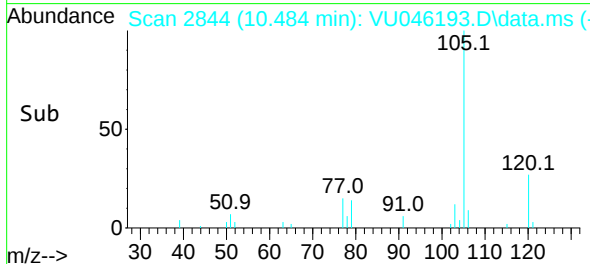
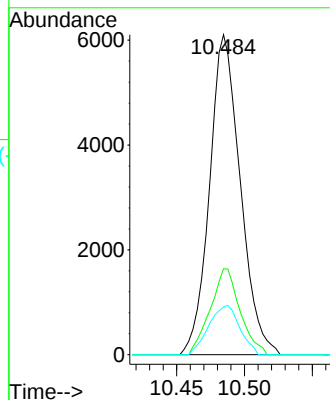
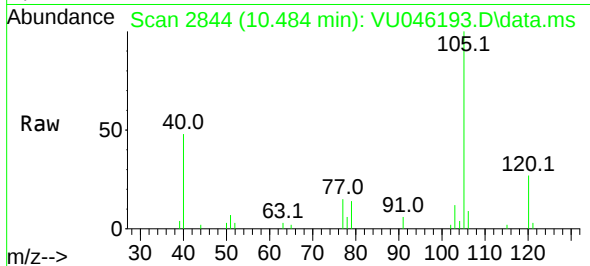




#61
Isopropylbenzene
Concen: 1.317 ug/L
RT: 10.484 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU046193.D
Acq: 08 Dec 2021 22:13

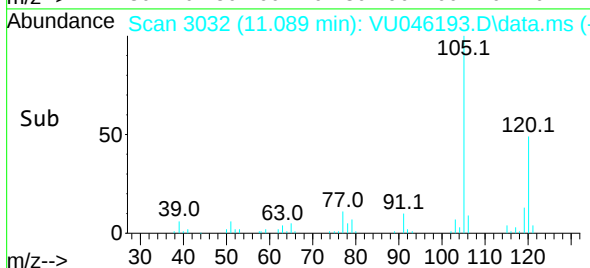
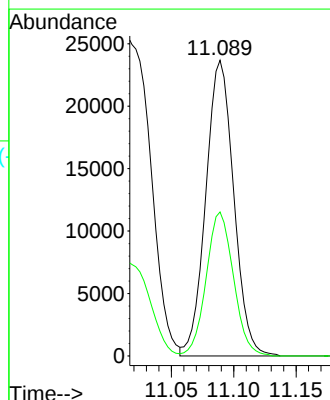
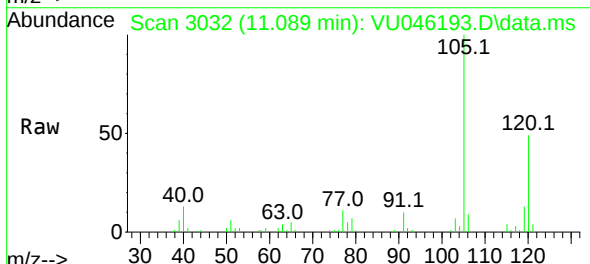
Instrument :
MSVOA_U
ClientSampleId :

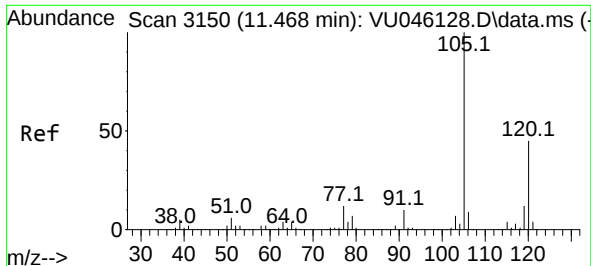
Tgt Ion:105 Resp: 9624
Ion Ratio Lower Upper
105 100
120 25.9 20.7 31.1
77 15.5 12.2 18.4



#62
1,3,5-Trimethylbenzene
Concen: 6.068 ug/L
RT: 11.089 min Scan# 3032
Delta R.T. -0.003 min
Lab File: VU046193.D
Acq: 08 Dec 2021 22:13

Tgt Ion:105 Resp: 36960
Ion Ratio Lower Upper
105 100
120 47.5 37.8 56.6

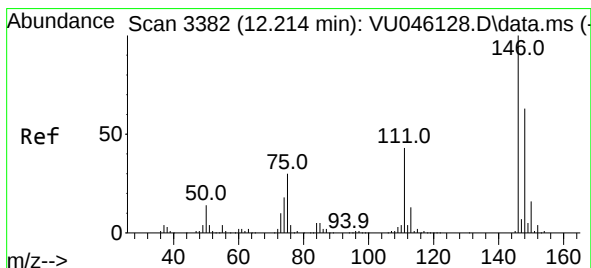
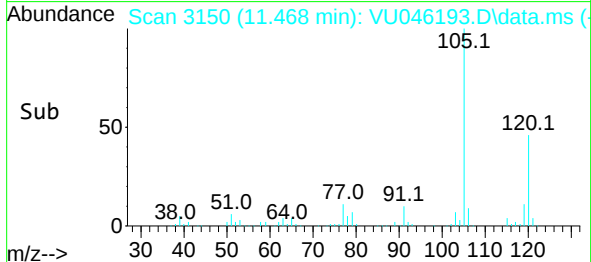
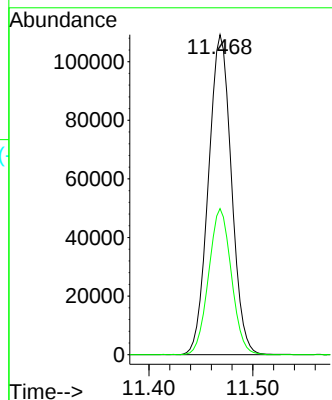
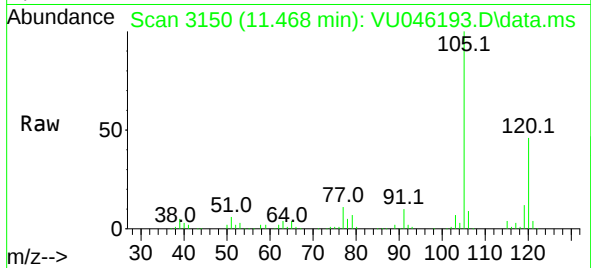




#63
1,2,4-Trimethylbenzene
Concen: 27.544 ug/L
RT: 11.468 min Scan# 3150
Delta R.T. -0.003 min
Lab File: VU046193.D
Acq: 08 Dec 2021 22:13

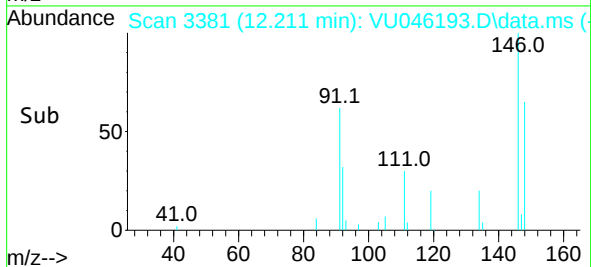
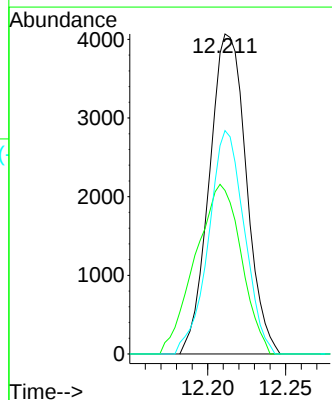
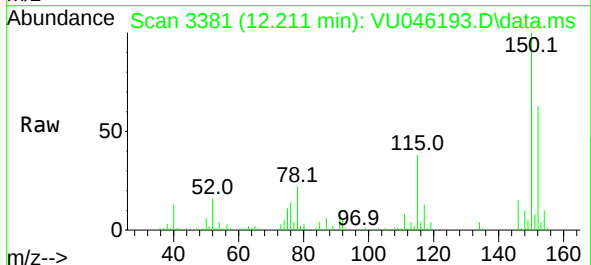
Instrument :
MSVOA_U
ClientSampleId :

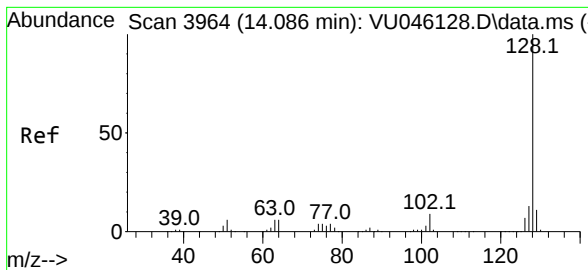
Tgt Ion:105 Resp: 167852
Ion Ratio Lower Upper
105 100
120 45.1 35.2 52.8



#67
1,2-Dichlorobenzene
Concen: 1.918 ug/L
RT: 12.211 min Scan# 3381
Delta R.T. -0.003 min
Lab File: VU046193.D
Acq: 08 Dec 2021 22:13

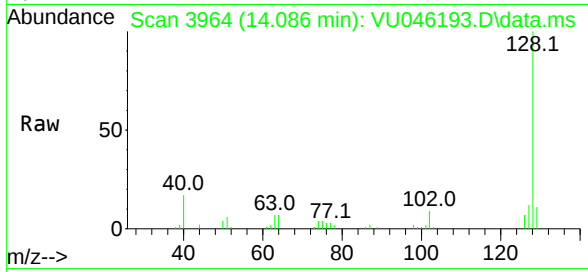
Tgt Ion:146 Resp: 6705
Ion Ratio Lower Upper
146 100
111 51.1 35.7 53.5
148 69.8 51.2 76.8





#71
Naphthalene
Concen: 3.695 ug/L
RT: 14.086 min Scan# 3964
Delta R.T. -0.003 min
Lab File: VU046193.D
Acq: 08 Dec 2021 22:13

Instrument :
MSVOA_U
ClientSampleId :



Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.2	10.1	15.1
129	10.8	8.6	13.0

