

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 :
 EW5N3

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						
					Qvalue	
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
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
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
42) Toluene	7.970	91	220202	33.082	ug/L	100
46) Tetrachloroethene	8.555	164	26278	21.881	ug/L	97
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

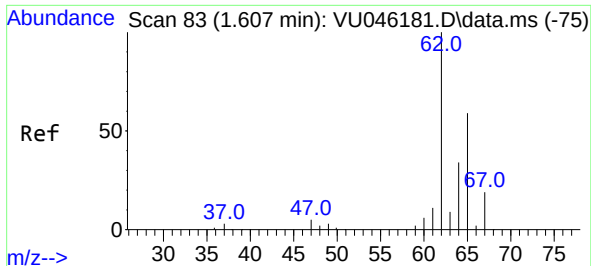
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU120821\
Data File : VU046193.D
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Dec 03 05:08:36 2021
Response via : Initial Calibration

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

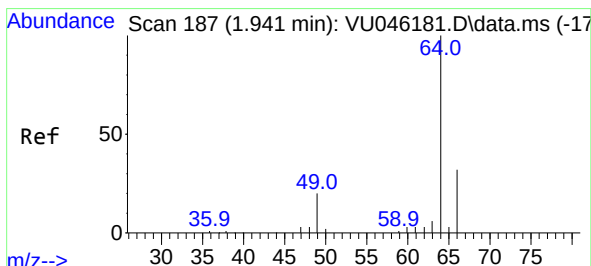
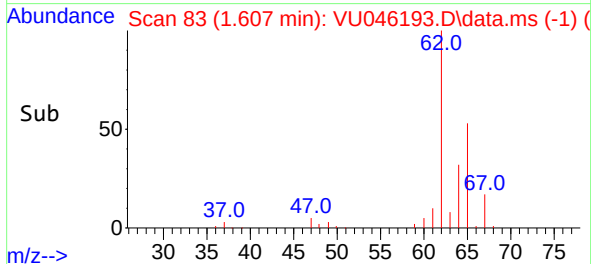
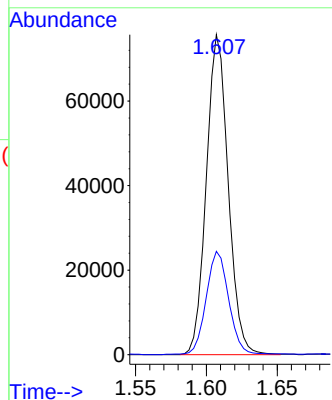
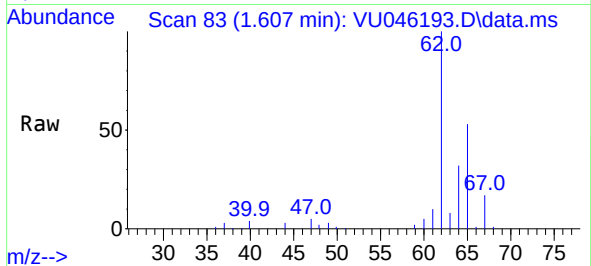
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#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

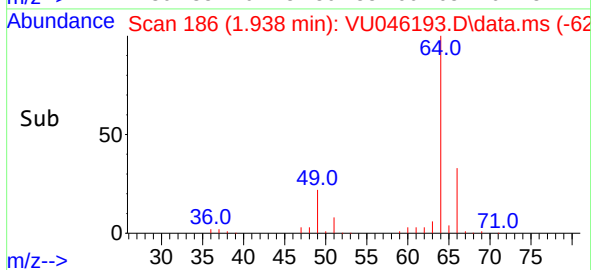
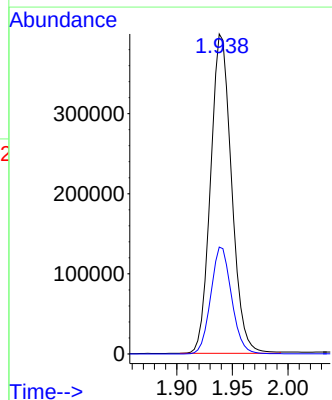
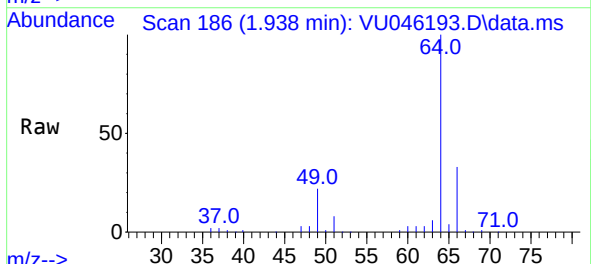
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 ClientSampleId :
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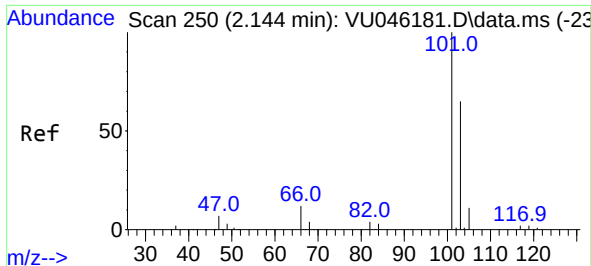
Tgt Ion: 62 Resp: 81467
 Ion Ratio Lower Upper
 62 100
 64 32.3 22.9 42.5



#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

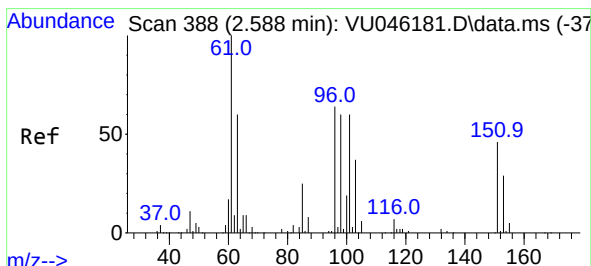
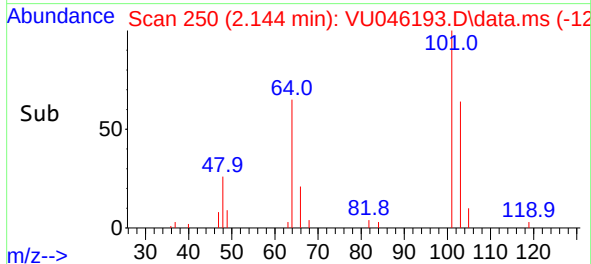
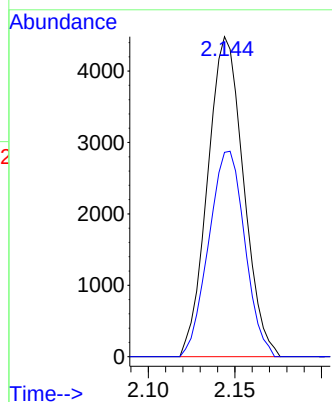
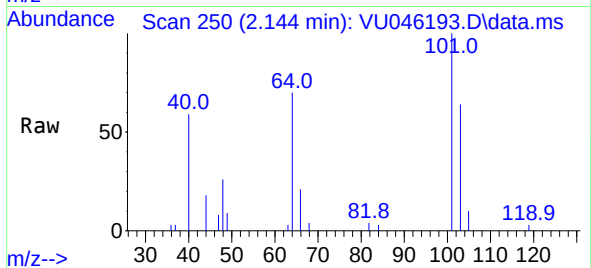




#9
Trichlorofluoromethane
Concen: 2.443 ug/L
RT: 2.144 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU046193.D
Acq: 08 Dec 2021 22:13

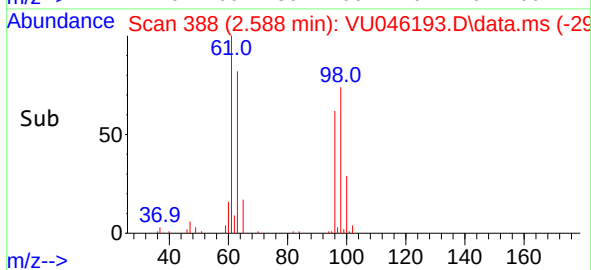
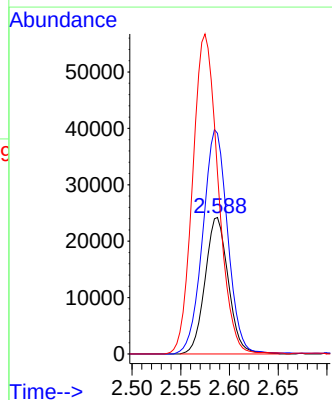
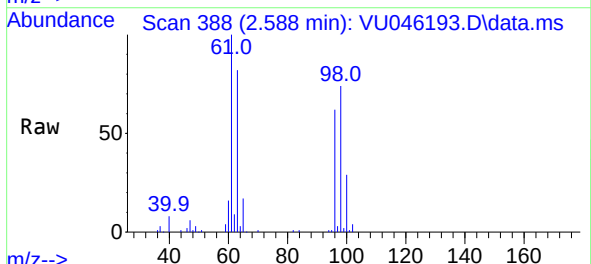
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ClientSampleId :
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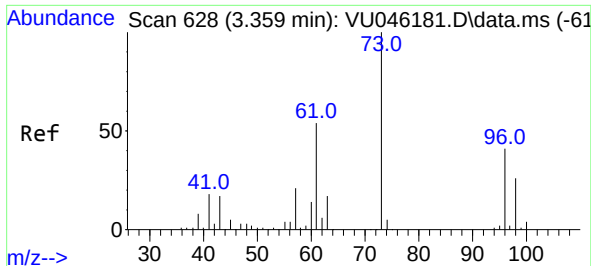
Tgt Ion:101 Resp: 6461
Ion Ratio Lower Upper
101 100
103 64.6 51.8 77.6



#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

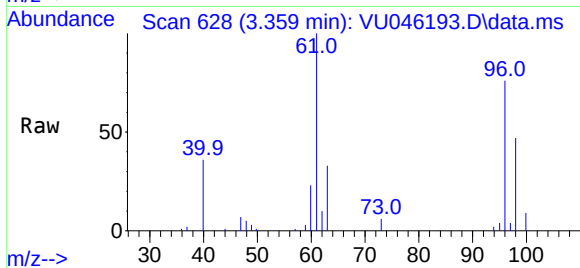
Tgt Ion: 96 Resp: 40175
Ion Ratio Lower Upper
96 100
61 161.6 118.6 220.2
63 132.7 93.0 172.8



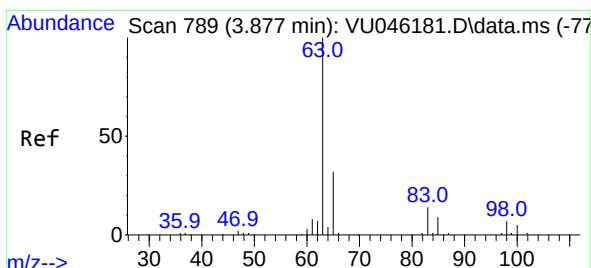
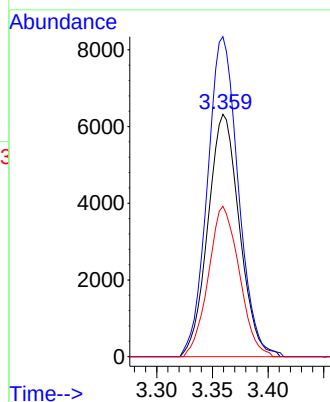
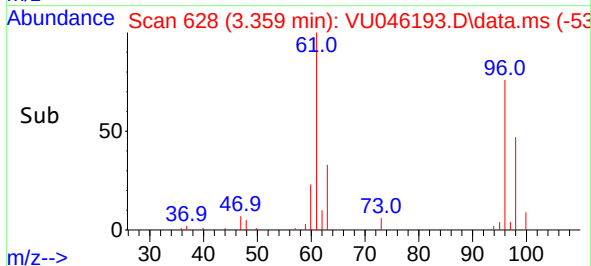


#17
trans-1,2-Dichloroethene
Concen: 8.245 ug/L
RT: 3.359 min Scan# 61
Delta R.T. 0.000 min
Lab File: VU046193.D
Acq: 08 Dec 2021 22:13

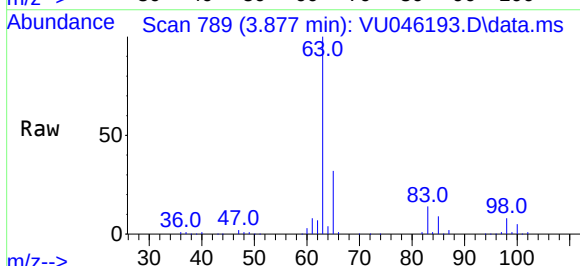
Instrument :
MSVOA_U
ClientSampleId :
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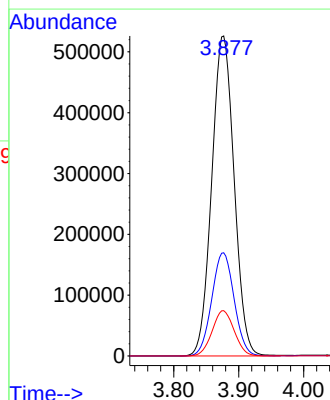
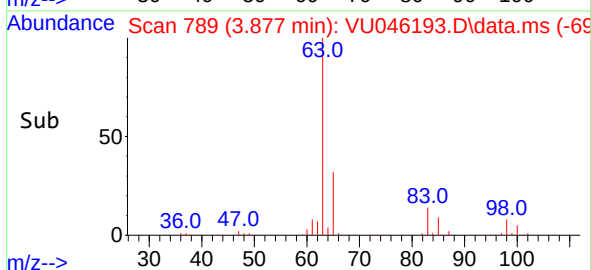
Tgt Ion: 96	Resp: 12455
Ion Ratio	Lower Upper
96 100	
61 132.0	94.6 175.6
98 62.0	44.0 81.8

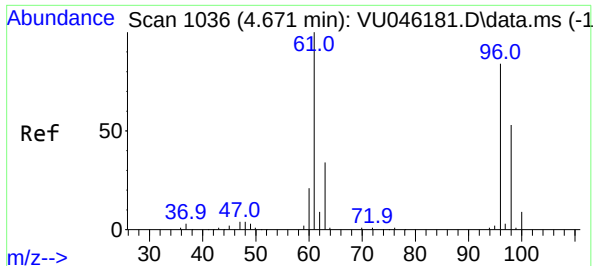


#19
1,1-Dichloroethane
Concen: 458.173 ug/L
RT: 3.877 min Scan# 789
Delta R.T. 0.000 min
Lab File: VU046193.D
Acq: 08 Dec 2021 22:13



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



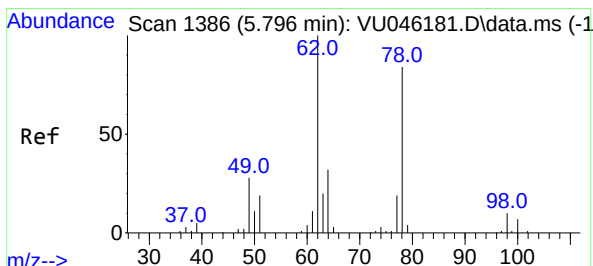
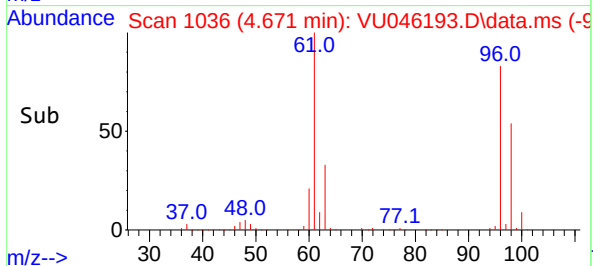
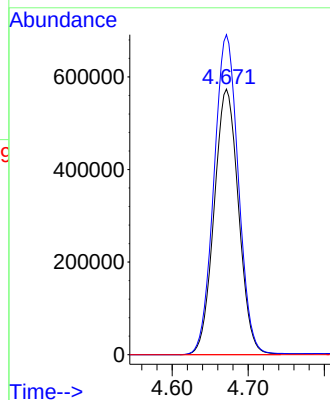
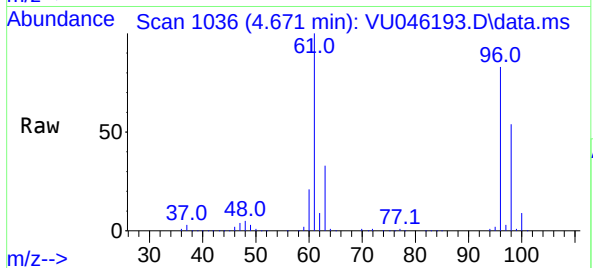


#20
cis-1,2-Dichloroethene
Concen: 781.279 ug/L
RT: 4.671 min Scan# 1036
Delta R.T. 0.000 min
Lab File: VU046193.D
Acq: 08 Dec 2021 22:13

Instrument :
MSVOA_U
ClientSampleId :
EW5N3

Tgt Ion: 96 Resp: 1280639

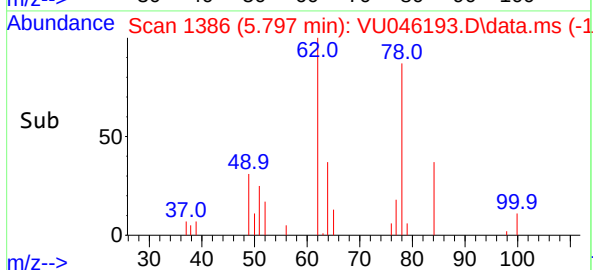
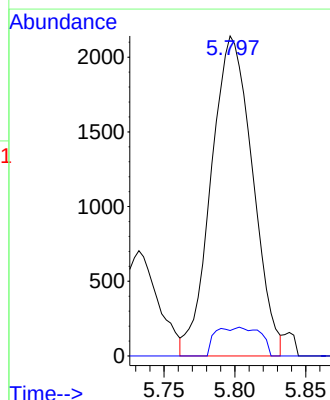
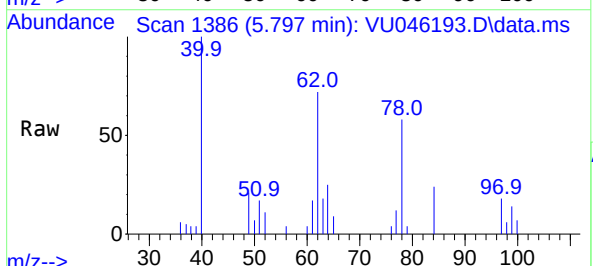
Ion	Ratio	Lower	Upper
96	100		
61	120.5	86.8	161.2
68	0.0	0.0	0.0

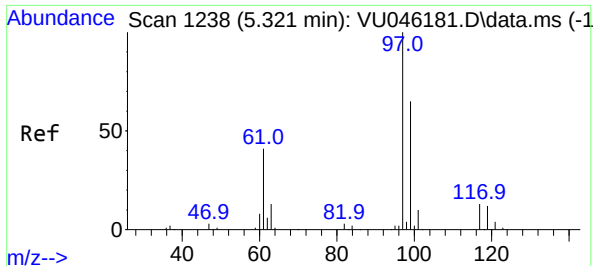


#27
1,2-Dichloroethane
Concen: 1.918 ug/L
RT: 5.797 min Scan# 1386
Delta R.T. -0.003 min
Lab File: VU046193.D
Acq: 08 Dec 2021 22:13

Tgt Ion: 62 Resp: 4344

Ion	Ratio	Lower	Upper
62	100		
98	8.0	7.9	11.9



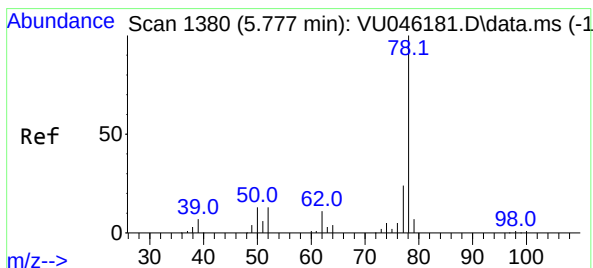
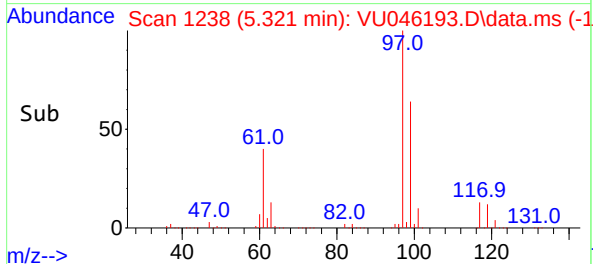
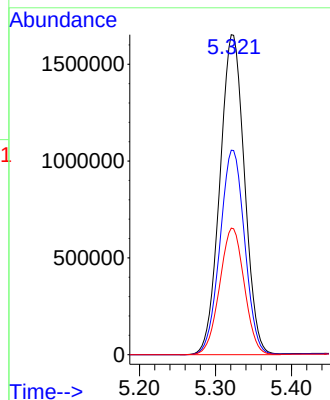
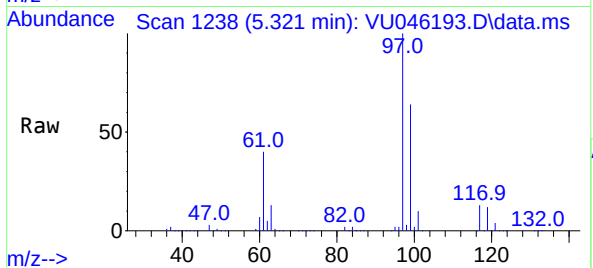


#30
1,1,1-Trichloroethane
Concen: 1476.778 ug/L
RT: 5.321 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU046193.D
Acq: 08 Dec 2021 22:13

Instrument :
MSVOA_U
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EW5N3

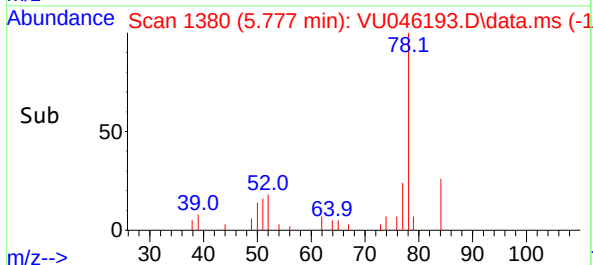
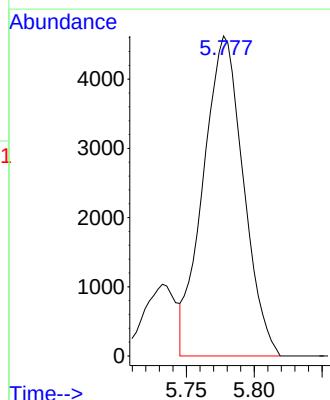
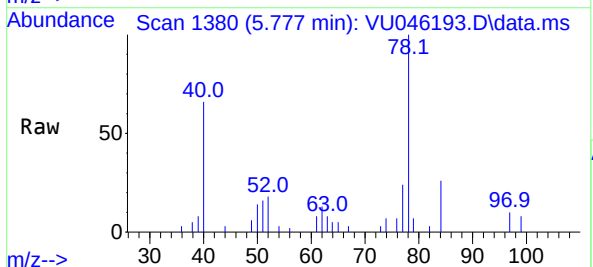
Tgt Ion: 97 Resp: 3715347

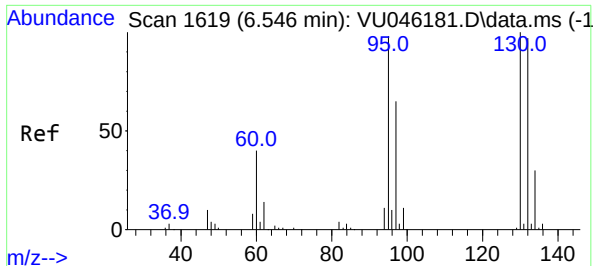
Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.8	77.6
61	39.6	34.4	51.6



#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

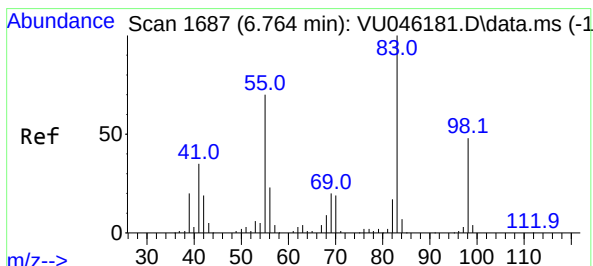
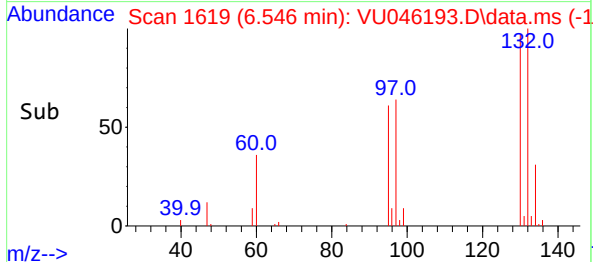
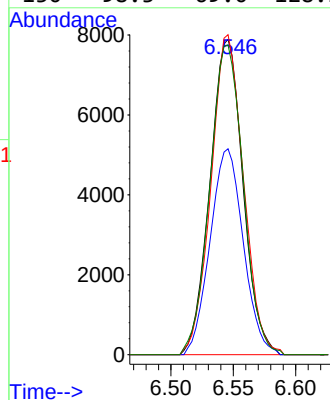
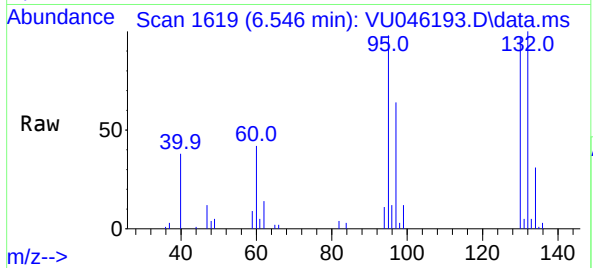




#34
Trichloroethene
Concen: 8.884 ug/L
RT: 6.546 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VU046193.D
Acq: 08 Dec 2021 22:13

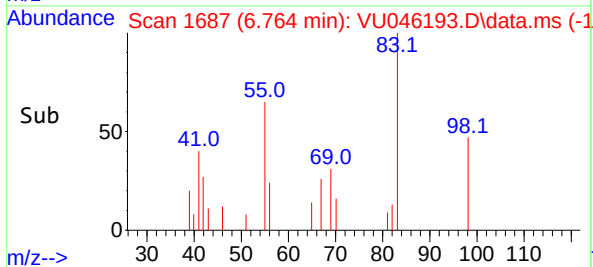
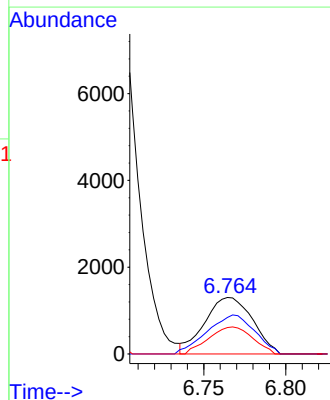
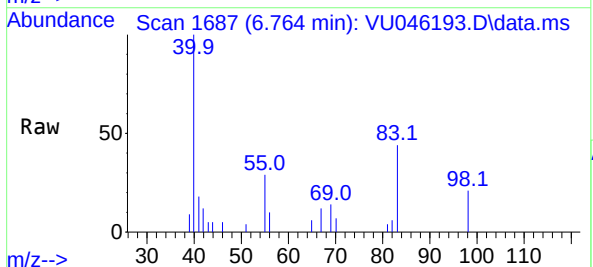
Instrument :
MSVOA_U
ClientSampleId :
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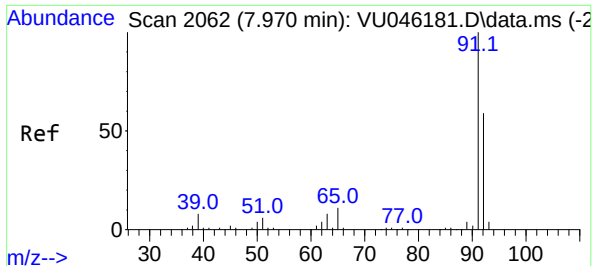
Tgt Ion: 95 Resp: 14519
Ion Ratio Lower Upper
95 100
97 65.4 44.1 81.9
132 101.5 66.8 124.0
130 98.3 69.0 128.1



#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

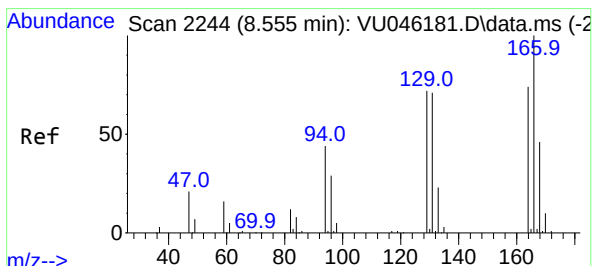
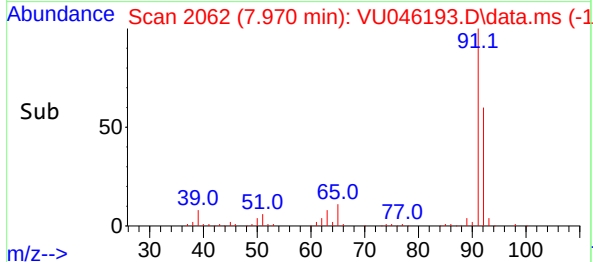
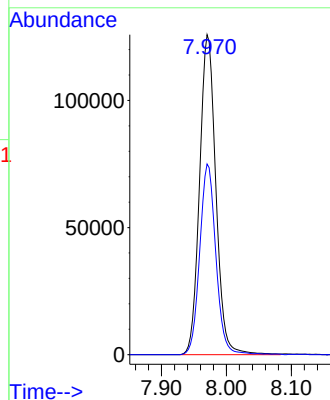
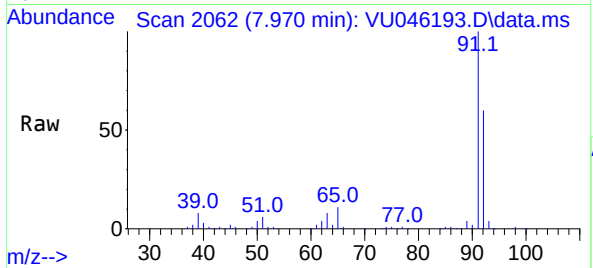




#42
Toluene
Concen: 33.082 ug/L
RT: 7.970 min Scan# 2062
Delta R.T. -0.003 min
Lab File: VU046193.D
Acq: 08 Dec 2021 22:13

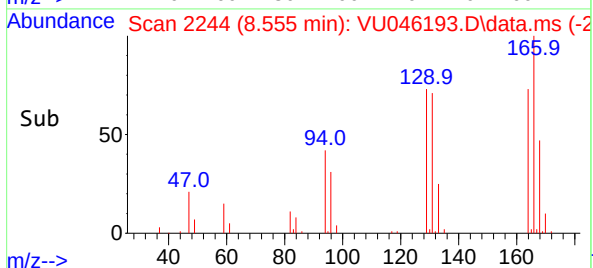
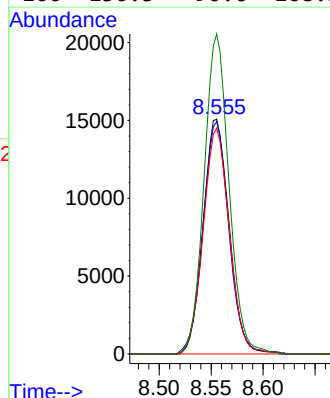
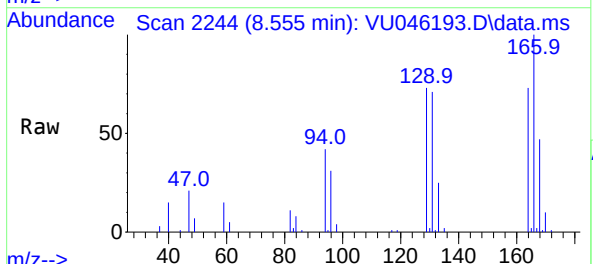
Instrument :
MSVOA_U
ClientSampleId :
EW5N3

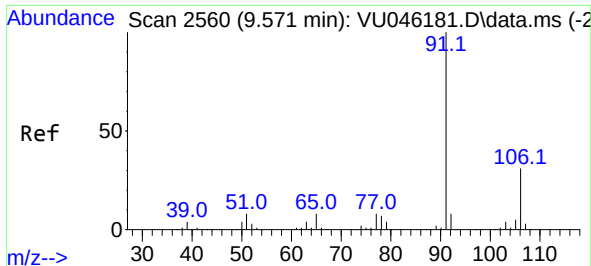
Tgt Ion: 91 Resp: 220202
Ion Ratio Lower Upper
91 100
92 59.6 41.9 77.7



#46
Tetrachloroethene
Concen: 21.881 ug/L
RT: 8.555 min Scan# 2244
Delta R.T. 0.000 min
Lab File: VU046193.D
Acq: 08 Dec 2021 22:13

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

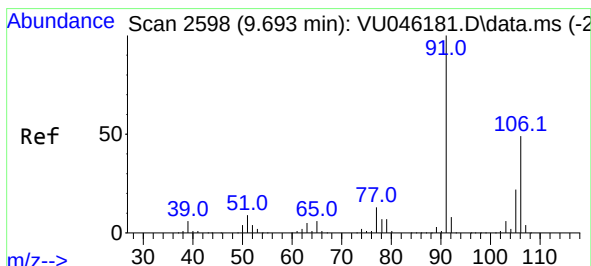
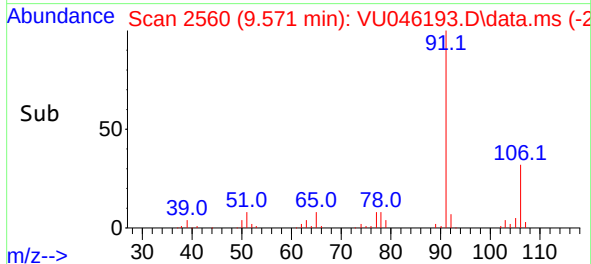
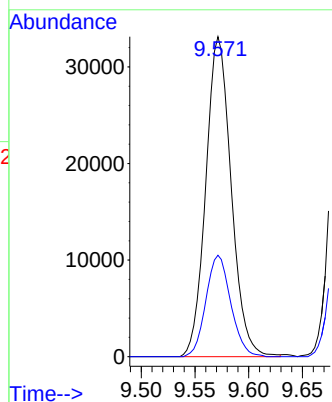
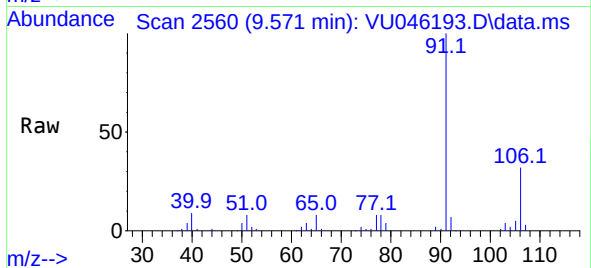




#52
Ethylbenzene
Concen: 7.600 ug/L
RT: 9.571 min Scan# 2560
Delta R.T. -0.003 min
Lab File: VU046193.D
Acq: 08 Dec 2021 22:13

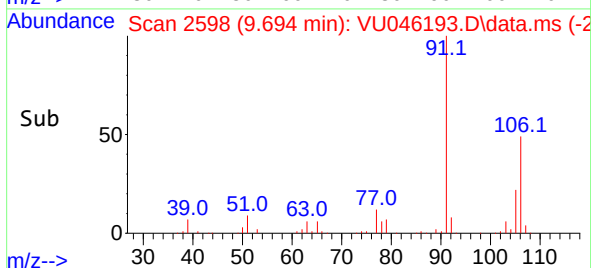
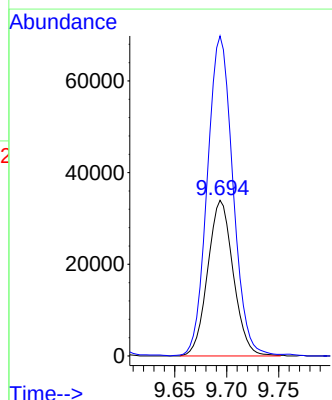
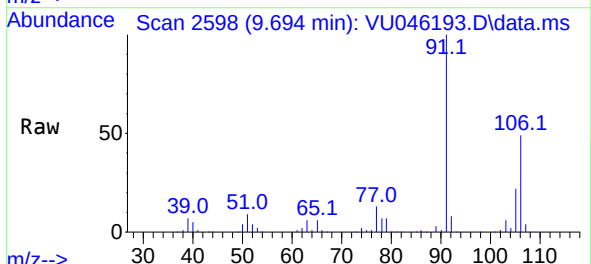
Instrument :
MSVOA_U
ClientSampleId :
EW5N3

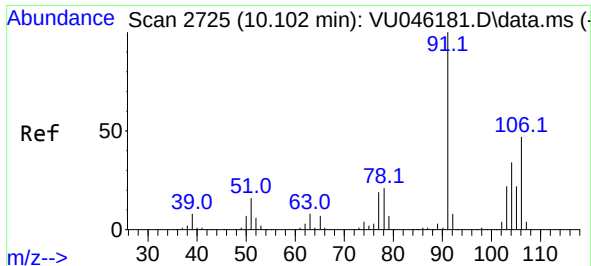
Tgt Ion: 91 Resp: 54444
Ion Ratio Lower Upper
91 100
106 31.7 21.1 39.3



#53
m,p-Xylene
Concen: 20.797 ug/L
RT: 9.694 min Scan# 2598
Delta R.T. -0.003 min
Lab File: VU046193.D
Acq: 08 Dec 2021 22:13

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

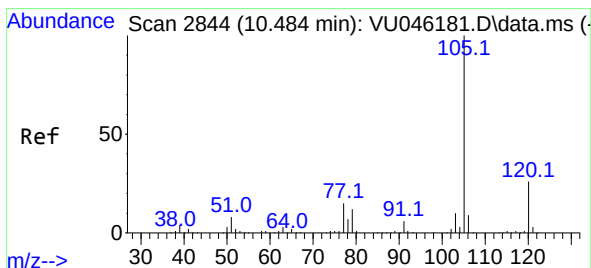
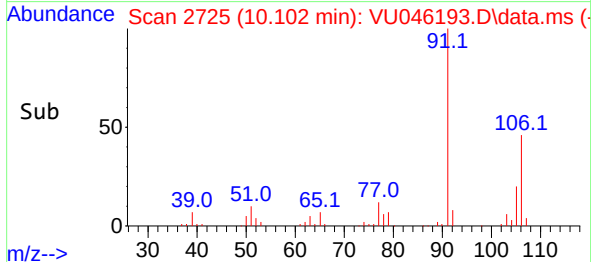
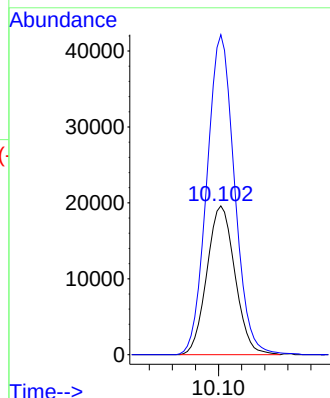
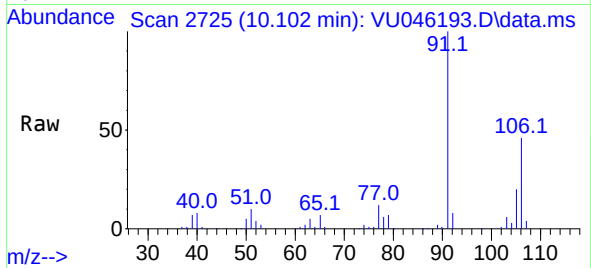




#54
o-xylene
Concen: 12.219 ug/L
RT: 10.102 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU046193.D
Acq: 08 Dec 2021 22:13

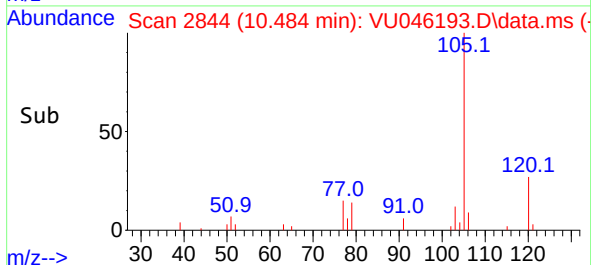
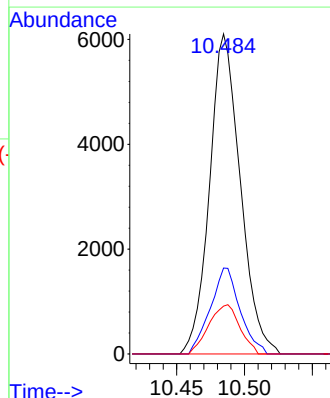
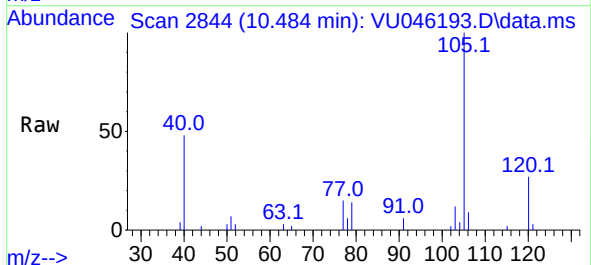
Instrument :
MSVOA_U
ClientSampleId :
EW5N3

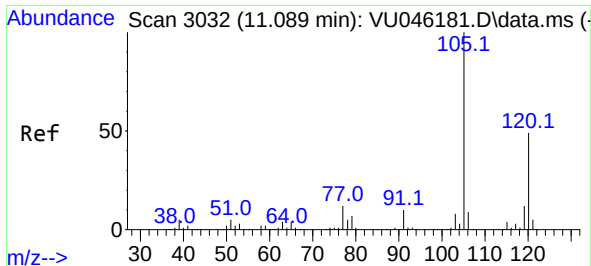
Tgt Ion:106 Resp: 33124
Ion Ratio Lower Upper
106 100
91 215.1 154.2 286.4



#61
Isopropylbenzene
Concen: 1.317 ug/L
RT: 10.484 min Scan# 2844
Delta R.T. -0.003 min
Lab File: VU046193.D
Acq: 08 Dec 2021 22:13

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

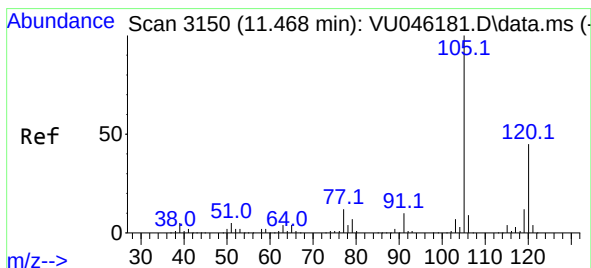
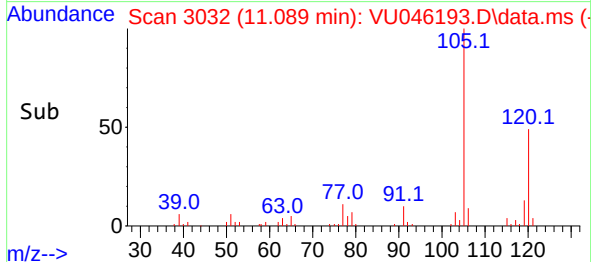
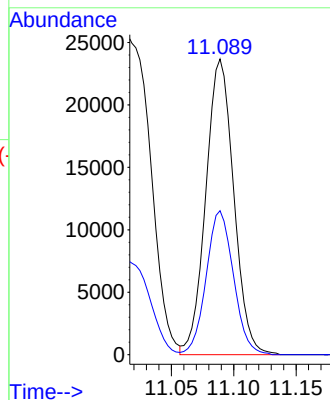
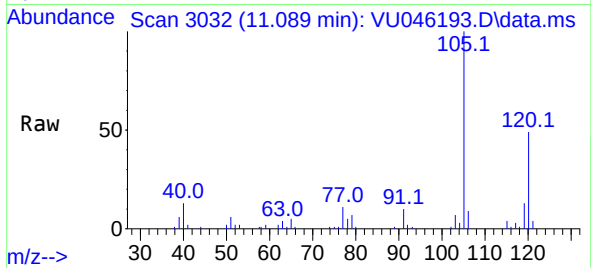




#62
1,3,5-Trimethylbenzene
Concen: 6.068 ug/L
RT: 11.089 min Scan# 3032
Delta R.T. -0.003 min
Lab File: VU046193.D
Acq: 08 Dec 2021 22:13

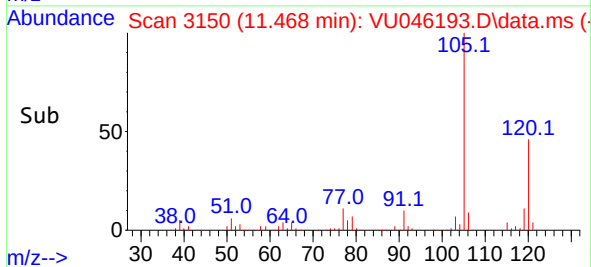
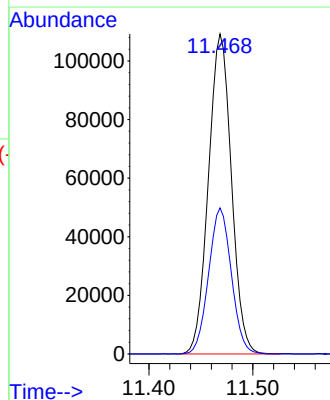
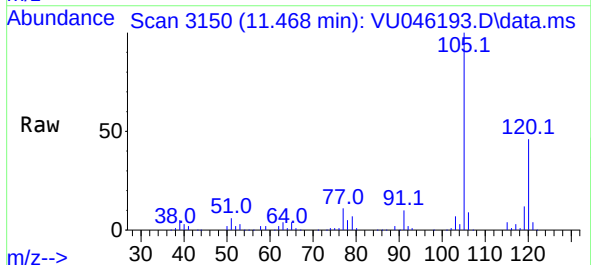
Instrument :
MSVOA_U
ClientSampleId :
EW5N3

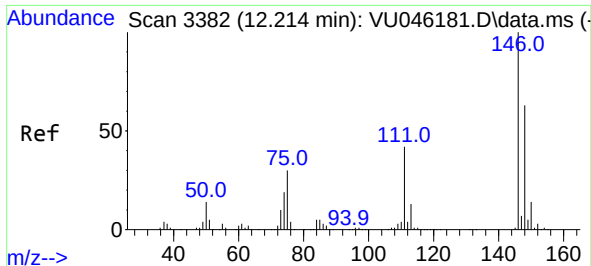
Tgt Ion:105 Resp: 36960
Ion Ratio Lower Upper
105 100
120 47.5 37.8 56.6



#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

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# 31

Delta R.T. -0.003 min

Lab File: VU046193.D

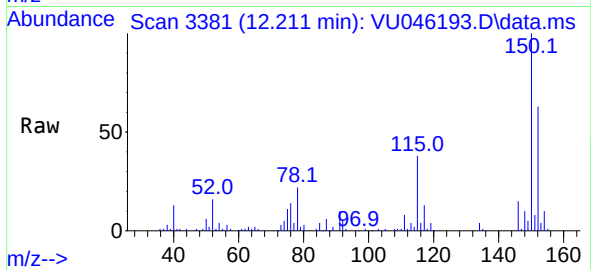
Acq: 08 Dec 2021 22:13

Instrument :

MSVOA_U

ClientSampleId :

EW5N3



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

