

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU120821\
 Data File : VU046192.D
 Acq On : 08 Dec 2021 21:50
 Operator : SY/MD
 Sample : M4983-03
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 EW5N1

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/09/2021
 Supervised By : Mahesh Dadoda 12/09/2021

Quant Time: Dec 09 04:36:16 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	206831	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.417	117	204644	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	110729	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.604	65	76700	45.018	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery =	90.040%		
7) Chloroethane-d5	1.919	69	48676	37.210	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	74.420%		
11) 1,1-Dichloroethene-d2	2.575	63	106032	34.667	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	69.340%		
21) 2-Butanone-d5	4.645	46	157505	116.290	ug/L	0.00
Spiked Amount 100.000	Range 40 - 130		Recovery =	116.290%		
24) Chloroform-d	5.067	84	128546	45.180	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	90.360%		
26) 1,2-Dichloroethane-d4	5.703	65	82419	43.164	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	86.320%		
32) Benzene-d6	5.732	84	258310	44.039	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	88.080%		
36) 1,2-Dichloropropane-d6	6.694	67	83812	46.106	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery =	92.220%		
41) Toluene-d8	7.899	98	234517	43.913	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	87.820%		
43) trans-1,3-Dichloroprop...	8.179	79	41846	47.687	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	95.380%		
47) 2-Hexanone-d5	8.636	63	115136	133.586	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery =	133.590%#		
56) 1,1,2,2-Tetrachloroeth...	10.758	84	139070	50.447	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery =	100.900%		
66) 1,2-Dichlorobenzene-d4	12.195	152	102702	48.162	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	96.320%		
Target Compounds						Qvalue
5) Vinyl chloride	1.607	62	2199497	1083.796	ug/L	99
8) Chloroethane	1.938	64	2030608	1728.112	ug/L	99
12) 1,1-Dichloroethene	2.588	96	38347	26.814	ug/L	96
13) Acetone	2.665	43	8149m	4.814	ug/L	
14) Carbon disulfide	2.809	76	24064	5.424	ug/L	99
16) Methylene chloride	3.051	84	9632	5.661	ug/L	97
17) trans-1,2-Dichloroethene	3.359	96	102691	67.853	ug/L	98
19) 1,1-Dichloroethane	3.877	63	6673727	2425.251	ug/L	99
20) cis-1,2-Dichloroethene	4.671	96	4040179	2460.262	ug/L	97
27) 1,2-Dichloroethane	5.796	62	42441	18.707	ug/L	100
29) Cyclohexane	5.391	56	6242	2.619	ug/L	93
30) 1,1,1-Trichloroethane	5.321	97	1148829	457.333	ug/L	98
33) Benzene	5.777	78	76272	12.314	ug/L	100
34) Trichloroethene	6.546	95	36716	22.502	ug/L	96
35) Methylcyclohexane	6.767	83	9584	3.788	ug/L	98
40) 4-Methyl-2-pentanone	7.793	43	18737	7.860	ug/L	99
42) Toluene	7.970	91	1051655	158.237	ug/L	100
45) 1,1,2-Trichloroethane	8.401	97	9790	6.014	ug/L	96
46) Tetrachloroethene	8.555	164	3883	3.238	ug/L	96

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
52) Ethylbenzene	9.571	91	2264529	316.601	ug/L	99
53) m,p-Xylene	9.697	106	2134326	765.148	ug/L	98
54) o-xylene	10.102	106	1090327	402.830	ug/L	97
61) Isopropylbenzene	10.484	105	274958	38.165	ug/L	100
62) 1,3,5-Trimethylbenzene	11.089	105	1601370	266.672	ug/L	99
63) 1,2,4-Trimethylbenzene	11.471	105	7489742	1246.638	ug/L	99
67) 1,2-Dichlorobenzene	12.214	146	83937	24.356	ug/L	98

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

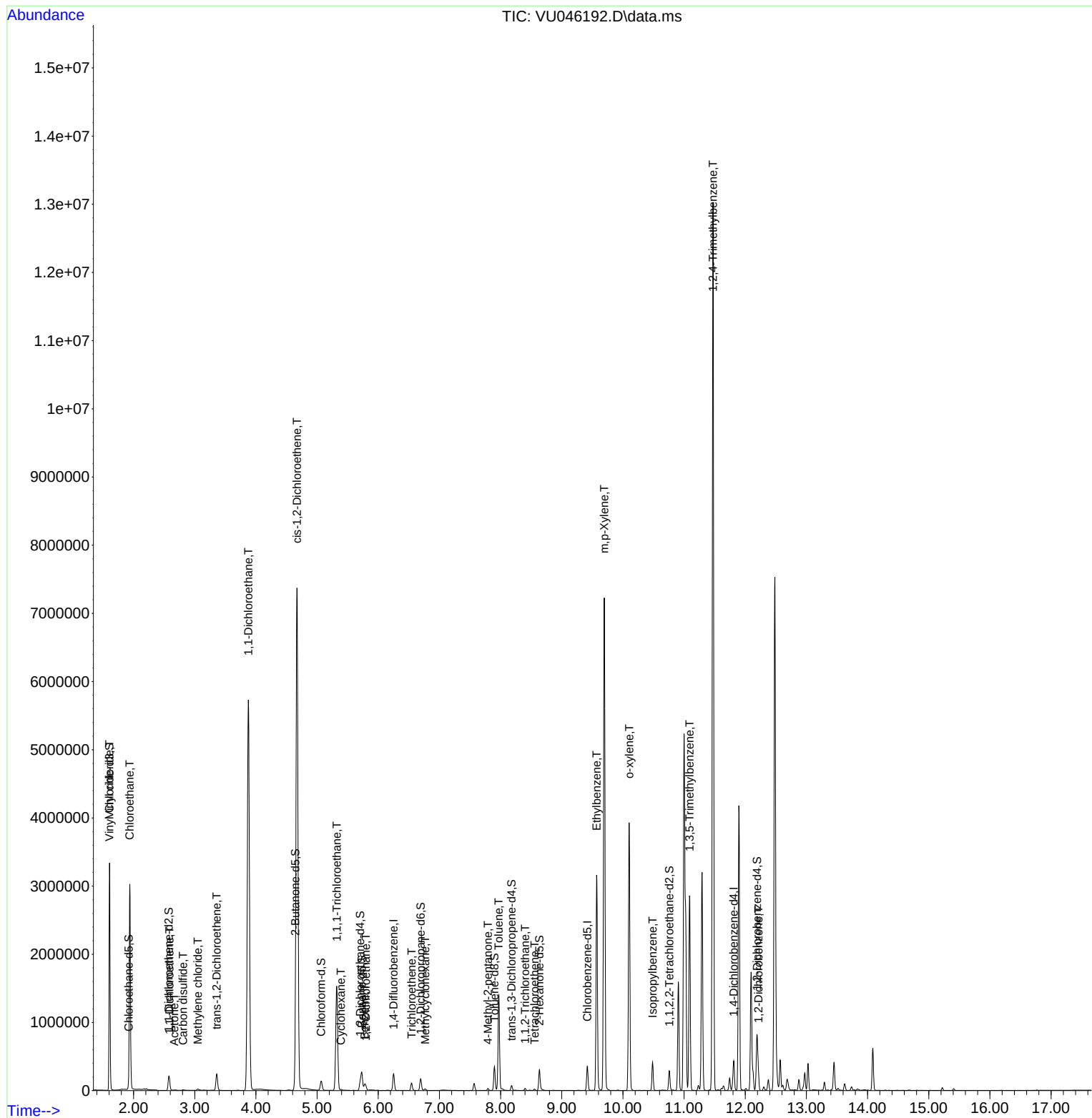
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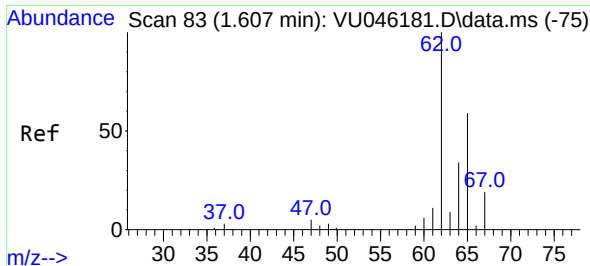
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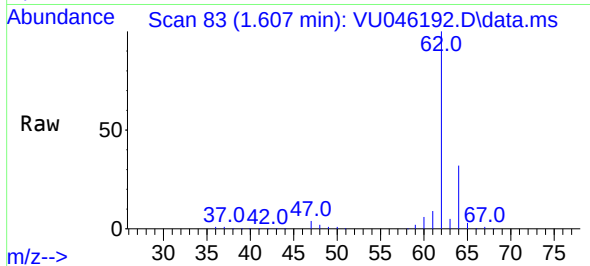
Reviewed By : John Carlone 12/09/2021
Supervised By : Mahesh Dadoda 12/09/2021





#5
 Vinyl chloride
 Concen: 1083.796 ug/L
 RT: 1.607 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VU046192.D
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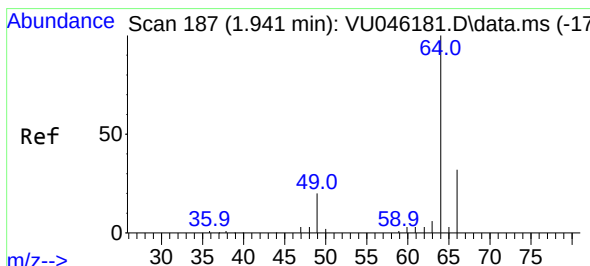
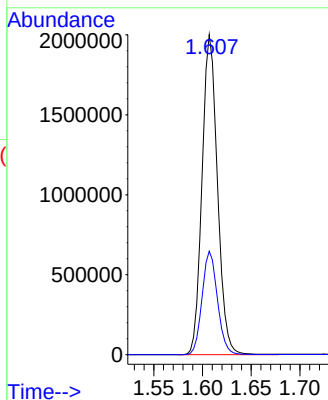
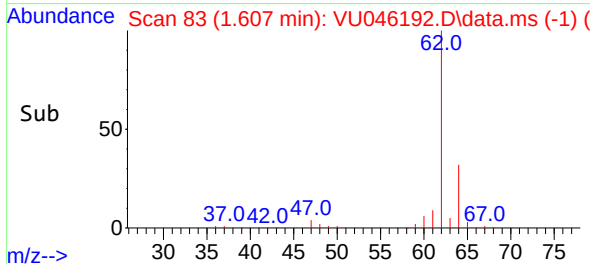
Instrument :
 MSVOA_U
 ClientSampleId :
 EW5N1



Tgt Ion: 62 Resp: 219949
 Ion Ratio Lower Upper
 62 100
 64 32.3 22.9 42.5

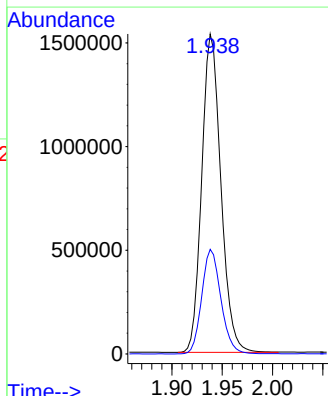
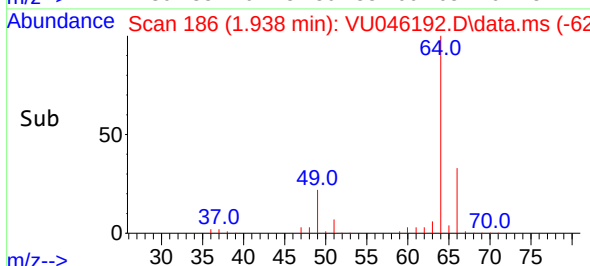
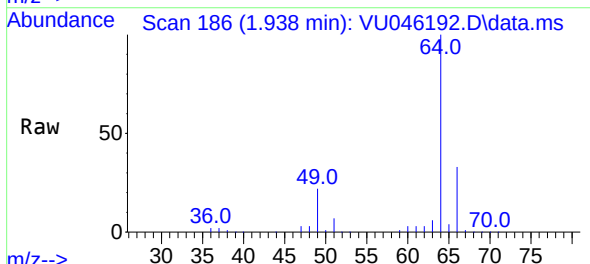
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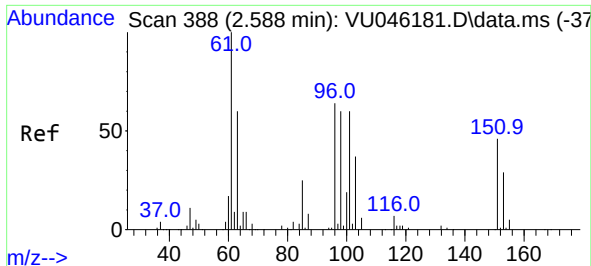
Reviewed By :John Carlone 12/09/2021
 Supervised By :Mahesh Dadoda 12/09/2021



#8
 Chloroethane
 Concen: 1728.112 ug/L
 RT: 1.938 min Scan# 186
 Delta R.T. -0.000 min
 Lab File: VU046192.D
 Acq: 08 Dec 2021 21:50

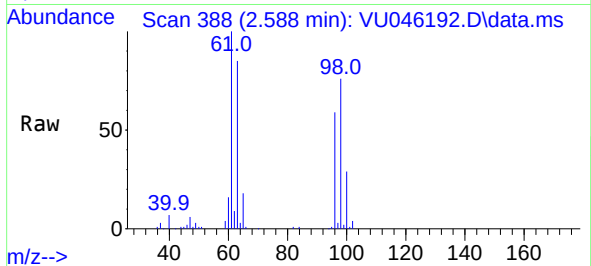
Tgt Ion: 64 Resp: 2030608
 Ion Ratio Lower Upper
 64 100
 66 32.7 22.5 41.9





#12
1,1-Dichloroethene
Concen: 26.814 ug/L
RT: 2.588 min Scan# 388
Delta R.T. 0.003 min
Lab File: VU046192.D
Acq: 08 Dec 2021 21:50

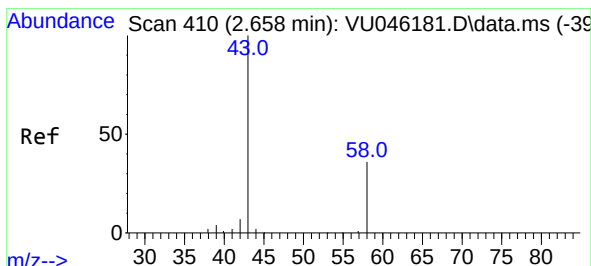
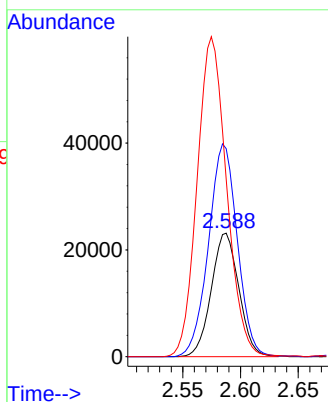
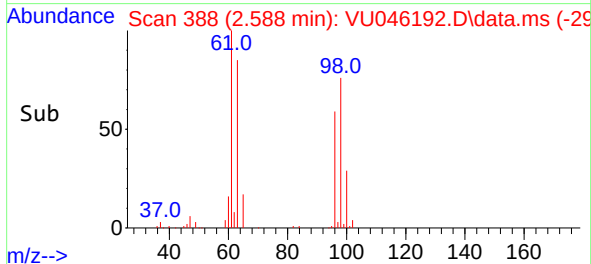
Instrument :
MSVOA_U
ClientSampleId :
EW5N1



Tgt Ion: 96 Resp: 3834
Ion Ratio Lower Upper
96 100
61 168.3 118.6 220.2
63 143.5 93.0 172.8

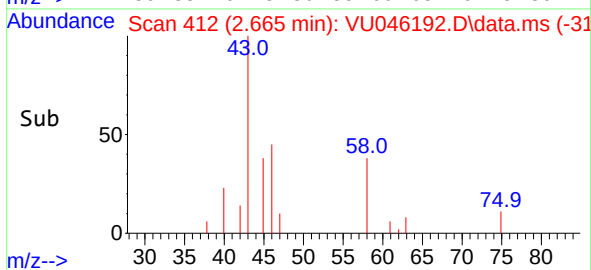
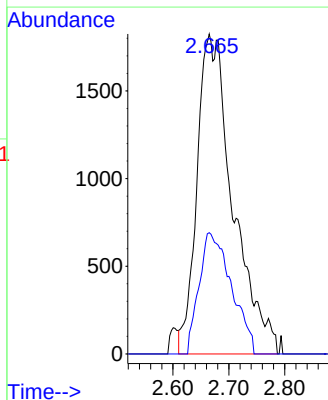
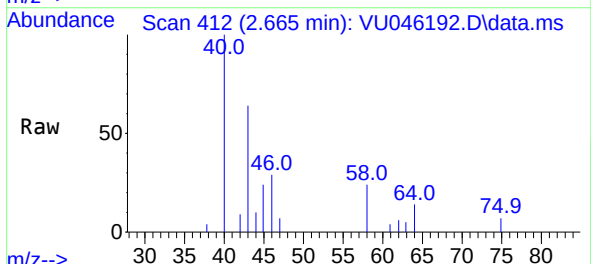
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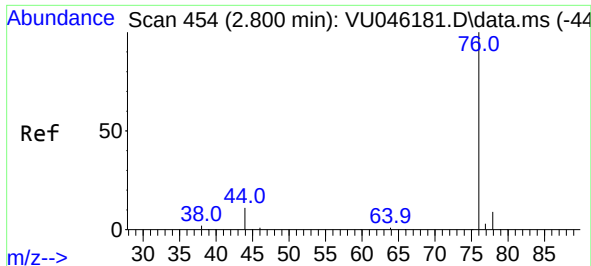
Reviewed By :John Carlone 12/09/2021
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#13
Acetone
Concen: 4.814 ug/L m
RT: 2.665 min Scan# 412
Delta R.T. 0.003 min
Lab File: VU046192.D
Acq: 08 Dec 2021 21:50

Tgt Ion: 43 Resp: 8149
Ion Ratio Lower Upper
43 100
58 30.6 0.0 66.8





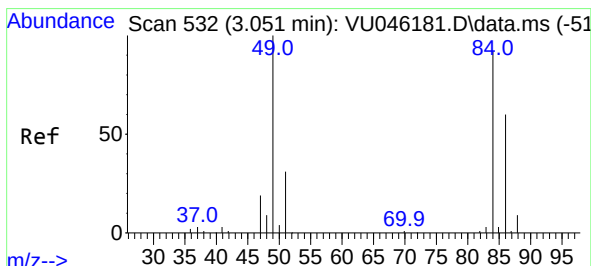
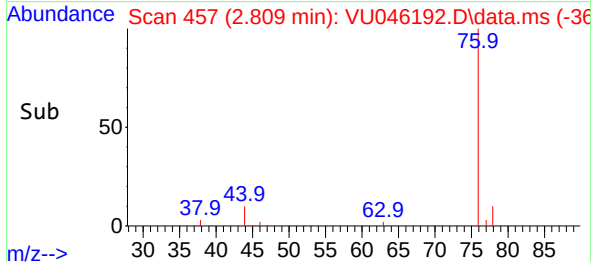
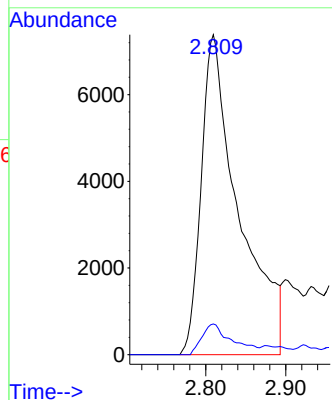
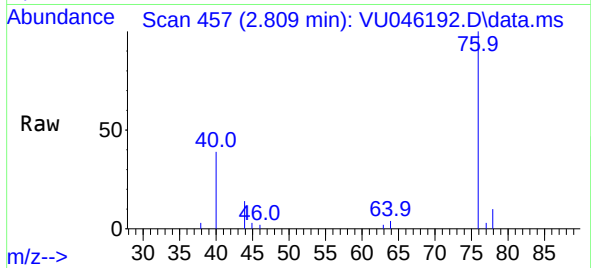
#14
Carbon disulfide
Concen: 5.424 ug/L
RT: 2.809 min Scan# 41
Delta R.T. 0.010 min
Lab File: VU046192.D
Acq: 08 Dec 2021 21:50

Instrument :
MSVOA_U
ClientSampleId :
EW5N1

Tgt Ion: 76 Resp: 2406
Ion Ratio Lower Upper
76 100
78 9.6 7.3 10.9

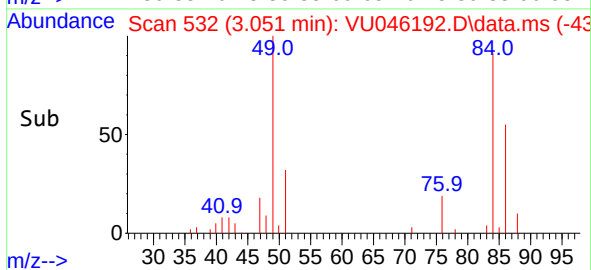
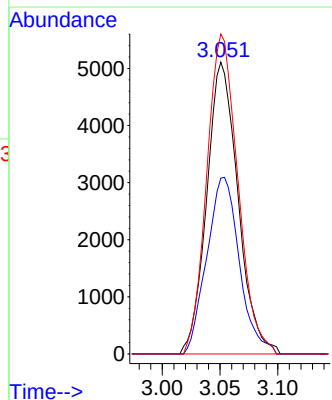
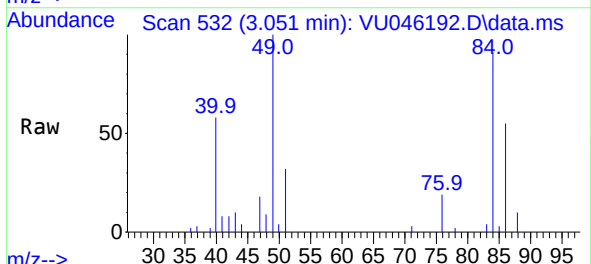
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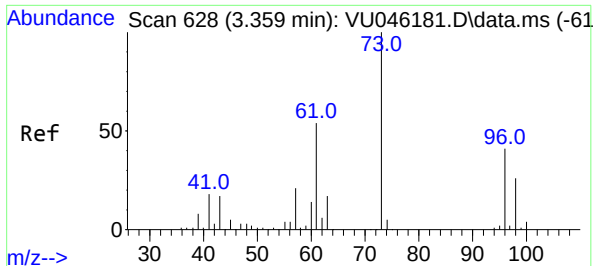
Reviewed By :John Carlone 12/09/2021
Supervised By :Mahesh Dadoda 12/09/2021



#16
Methylene chloride
Concen: 5.661 ug/L
RT: 3.051 min Scan# 532
Delta R.T. -0.000 min
Lab File: VU046192.D
Acq: 08 Dec 2021 21:50

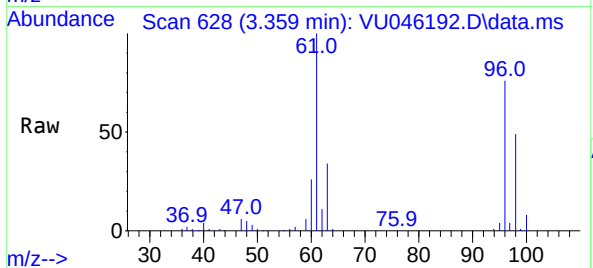
Tgt Ion: 84 Resp: 9632
Ion Ratio Lower Upper
84 100
86 60.3 44.7 83.1
49 109.7 78.4 145.6





#17
trans-1,2-Dichloroethene
Concen: 67.853 ug/L
RT: 3.359 min Scan# 61
Delta R.T. -0.000 min
Lab File: VU046192.D
Acq: 08 Dec 2021 21:50

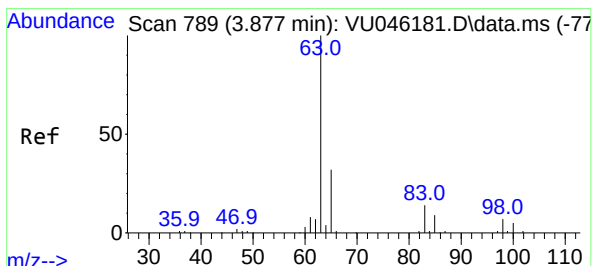
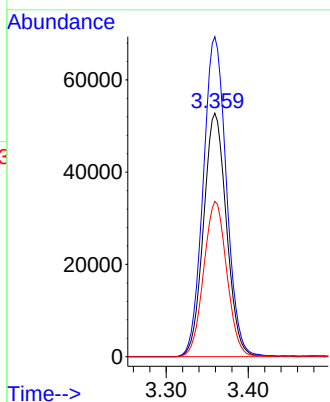
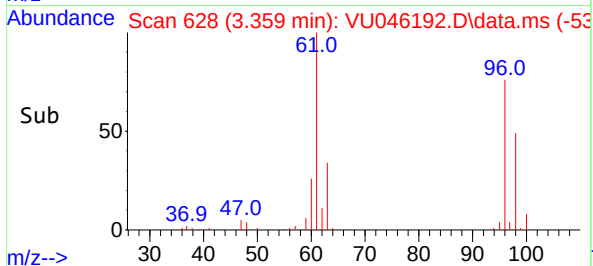
Instrument :
MSVOA_U
ClientSampleId :
EW5N1



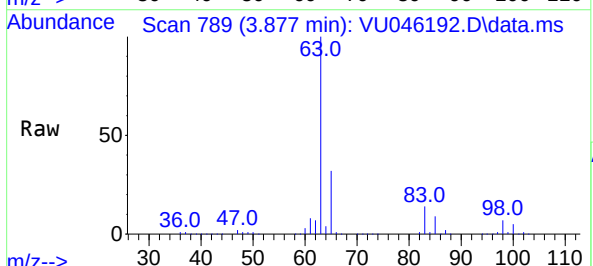
Tgt Ion: 96 Resp: 10269
Ion Ratio Lower Upper
96 100
61 131.4 94.6 175.6
98 63.8 44.0 81.8

Manual Integrations
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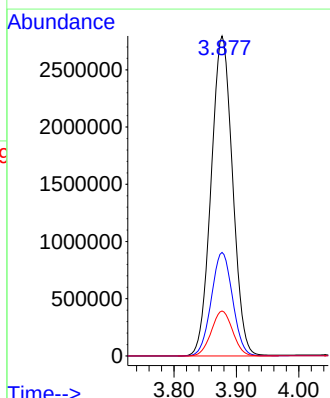
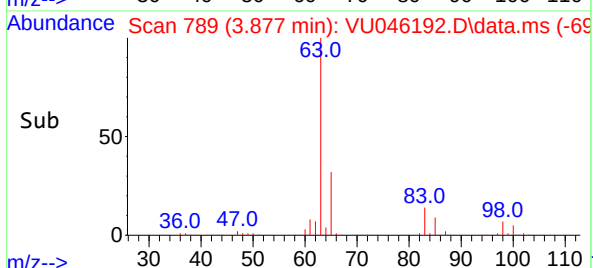
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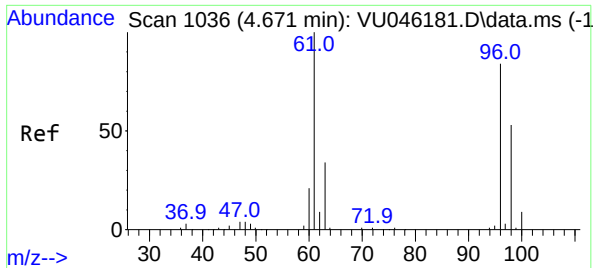


#19
1,1-Dichloroethane
Concen: 2425.251 ug/L
RT: 3.877 min Scan# 789
Delta R.T. -0.000 min
Lab File: VU046192.D
Acq: 08 Dec 2021 21:50



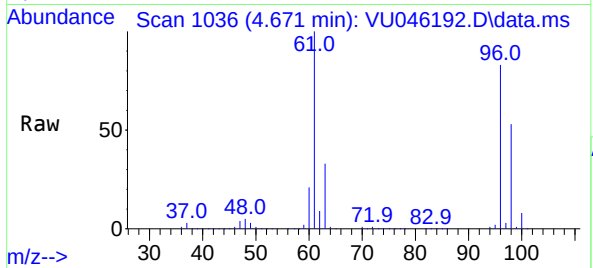
Tgt Ion: 63 Resp: 6673727
Ion Ratio Lower Upper
63 100
65 32.4 22.8 42.4
83 14.0 9.6 17.8





#20
cis-1,2-Dichloroethene
Concen: 2460.262 ug/L
RT: 4.671 min Scan# 1036
Delta R.T. -0.000 min
Lab File: VU046192.D
Acq: 08 Dec 2021 21:50

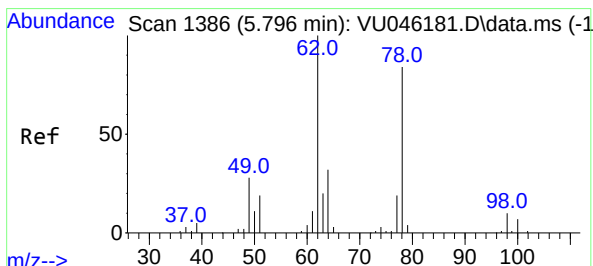
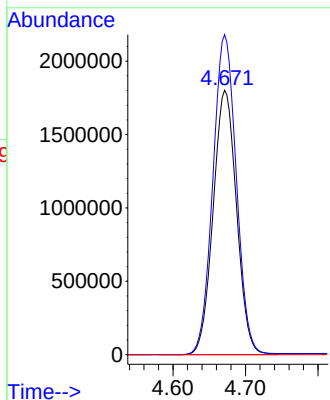
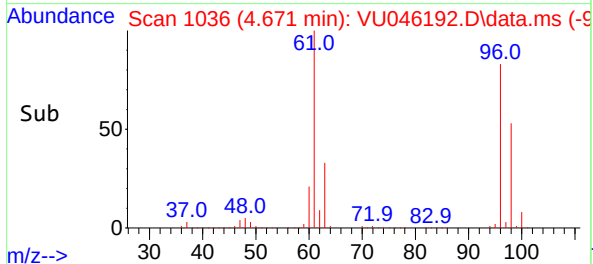
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Tgt Ion: 96 Resp: 4040179
Ion Ratio Lower Upper
96 100
61 121.0 86.8 161.2
68 0.0 0.0 0.0

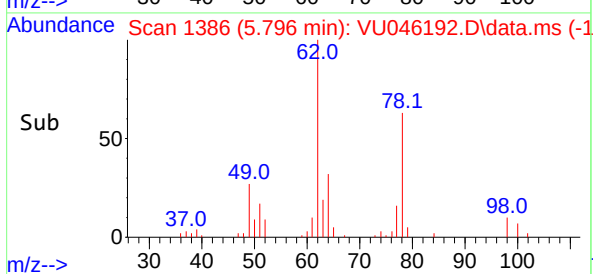
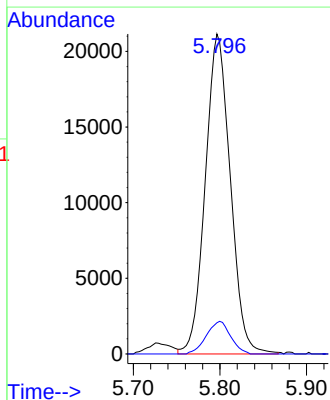
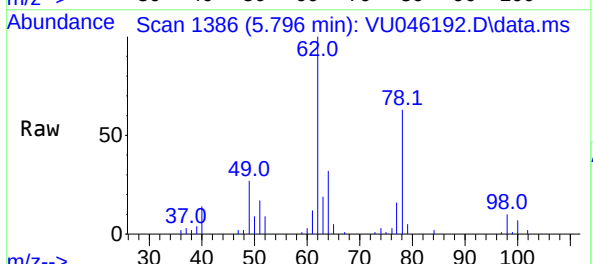
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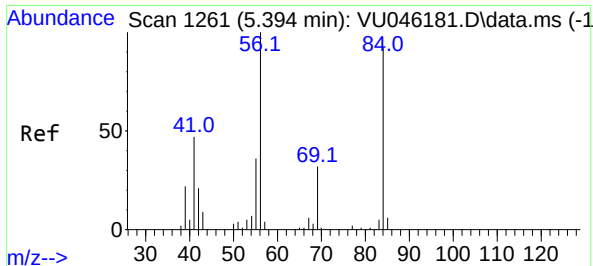
Reviewed By :John Carlone 12/09/2021
Supervised By :Mahesh Dadoda 12/09/2021



#27
1,2-Dichloroethane
Concen: 18.707 ug/L
RT: 5.796 min Scan# 1386
Delta R.T. -0.003 min
Lab File: VU046192.D
Acq: 08 Dec 2021 21:50

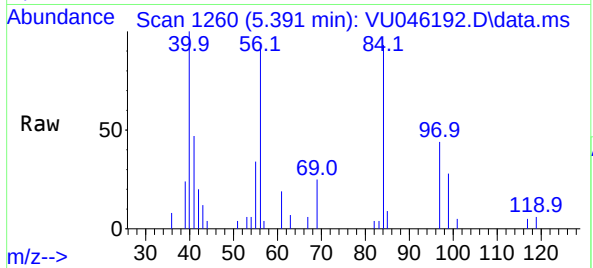
Tgt Ion: 62 Resp: 42441
Ion Ratio Lower Upper
62 100
98 9.7 7.9 11.9





#29
Cyclohexane
Concen: 2.619 ug/L
RT: 5.391 min Scan# 1261
Delta R.T. -0.003 min
Lab File: VU046192.D
Acq: 08 Dec 2021 21:50

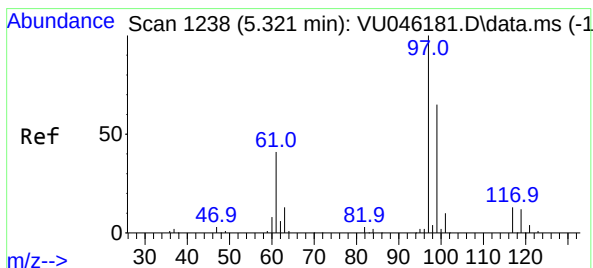
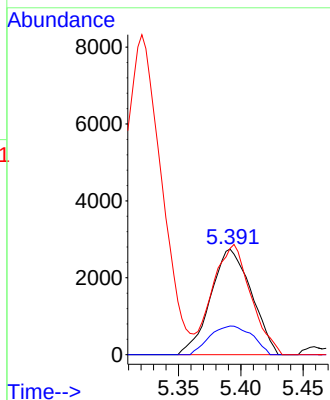
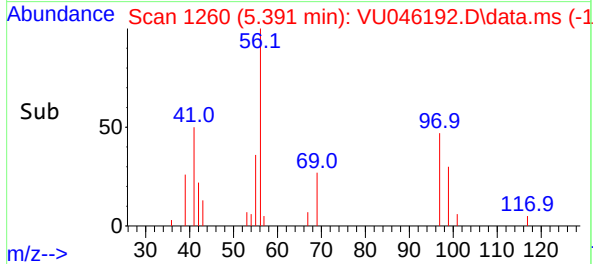
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Tgt Ion: 56 Resp: 624
Ion Ratio Lower Upper
56 100
69 28.3 25.2 37.8
84 98.2 73.3 109.9

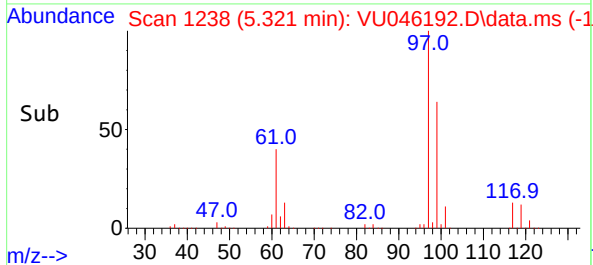
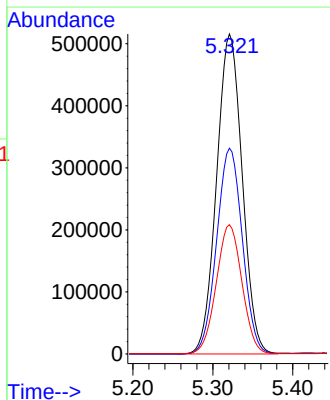
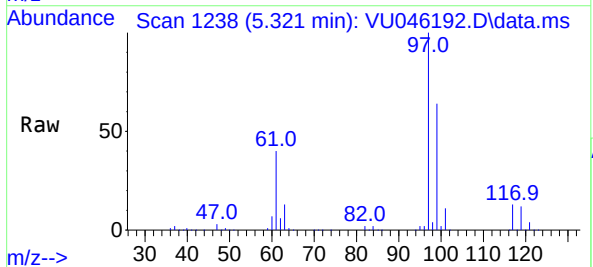
Manual Integrations
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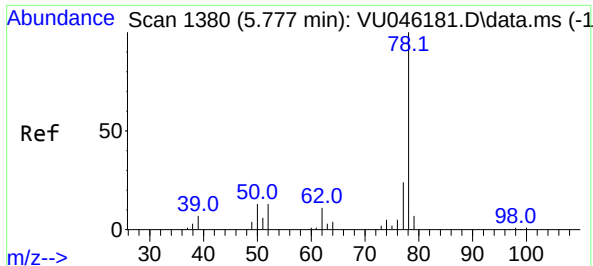
Reviewed By :John Carlone 12/09/2021
Supervised By :Mahesh Dadoda 12/09/2021



#30
1,1,1-Trichloroethane
Concen: 457.333 ug/L
RT: 5.321 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VU046192.D
Acq: 08 Dec 2021 21:50

Tgt Ion: 97 Resp: 1148829
Ion Ratio Lower Upper
97 100
99 64.6 51.8 77.6
61 40.2 34.4 51.6





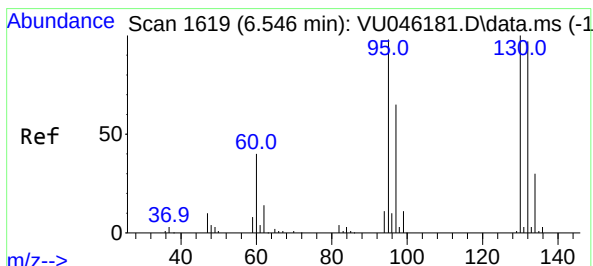
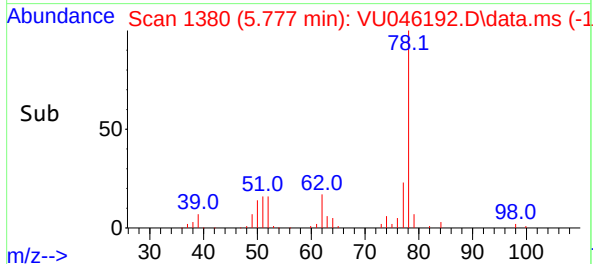
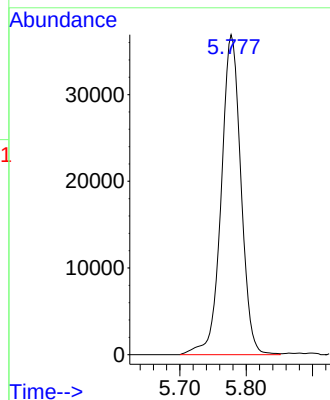
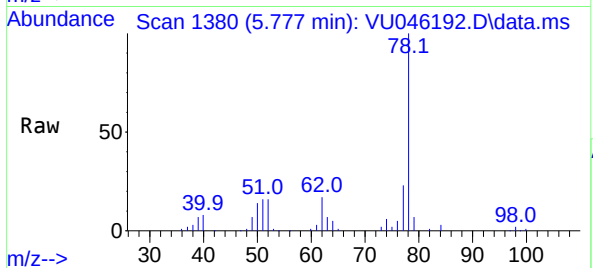
Benzene
Concen: 12.314 ug/L
RT: 5.777 min Scan# 1380
Delta R.T. -0.003 min
Lab File: VU046192.D
Acq: 08 Dec 2021 21:50

Instrument :
MSVOA_U
ClientSampleId :
EW5N1

Tgt Ion: 78 Resp: 7627

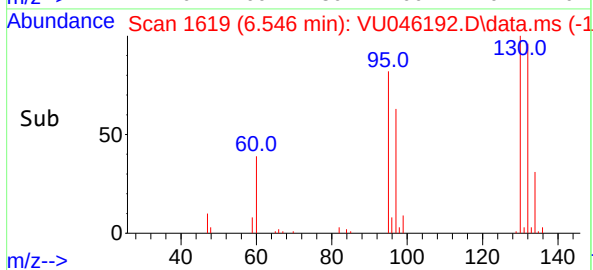
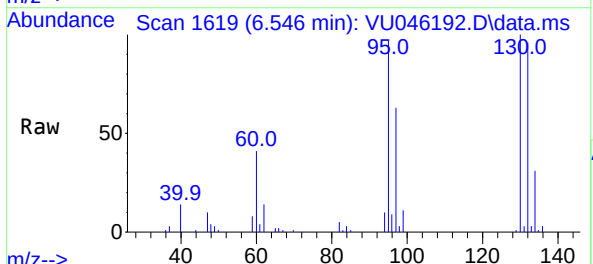
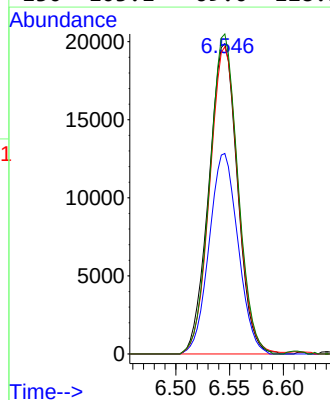
Manual Integrations
APPROVED

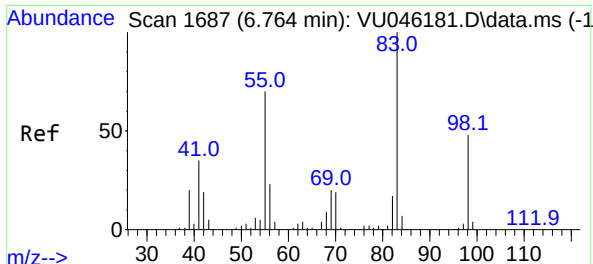
Reviewed By :John Carlone 12/09/2021
Supervised By :Mahesh Dadoda 12/09/2021



Trichloroethene
Concen: 22.502 ug/L
RT: 6.546 min Scan# 1619
Delta R.T. -0.000 min
Lab File: VU046192.D
Acq: 08 Dec 2021 21:50

Tgt Ion: 95 Resp: 36716
Ion Ratio Lower Upper
95 100
97 64.6 44.1 81.9
132 99.0 66.8 124.0
130 103.1 69.0 128.1





#35

Methylcyclohexane

Concen: 3.788 ug/L

RT: 6.767 min Scan# 1

Delta R.T. -0.000 min

Lab File: VU046192.D

Acq: 08 Dec 2021 21:50

Instrument :

MSVOA_U

ClientSampleId :

EW5N1

Tgt Ion: 83 Resp: 9584

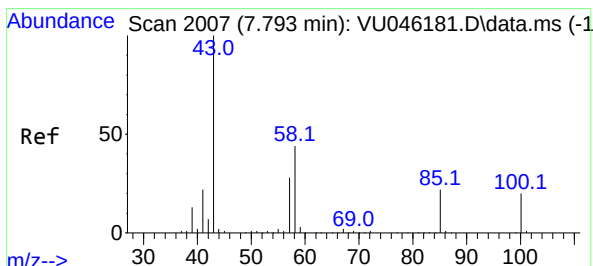
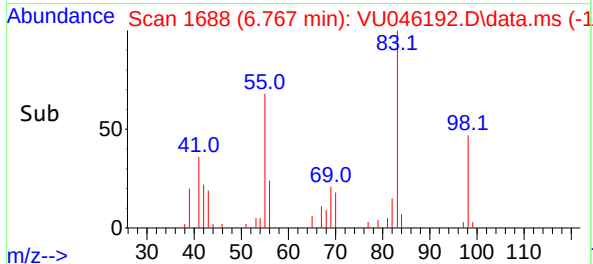
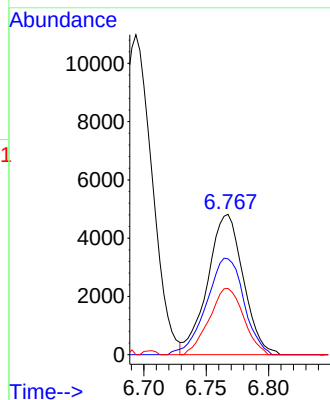
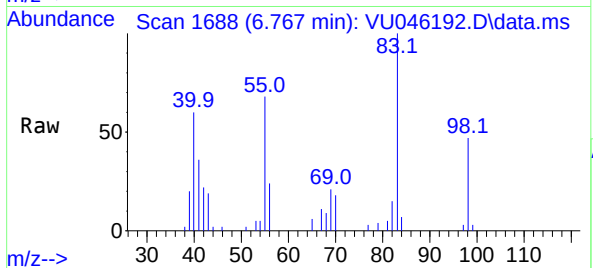
Ion	Ratio	Lower	Upper
83	100		
55	72.1	57.8	86.6
98	45.5	38.4	57.6

Manual Integrations

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Reviewed By :John Carlone 12/09/2021

Supervised By :Mahesh Dadoda 12/09/2021



#40

4-Methyl-2-pentanone

Concen: 7.860 ug/L

RT: 7.793 min Scan# 2007

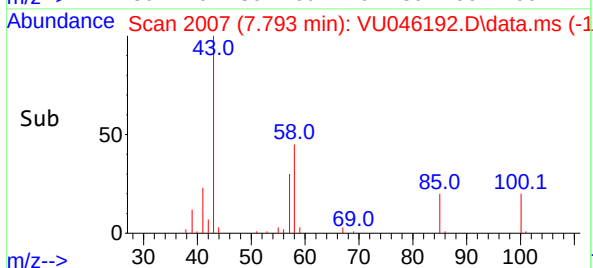
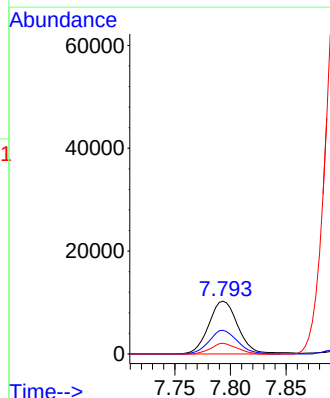
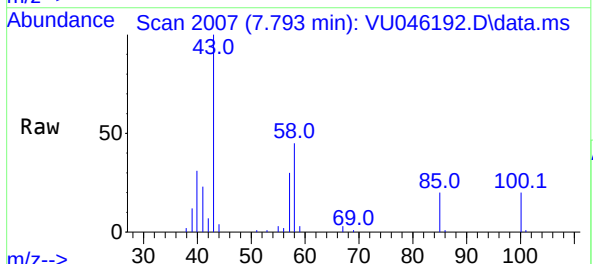
Delta R.T. -0.003 min

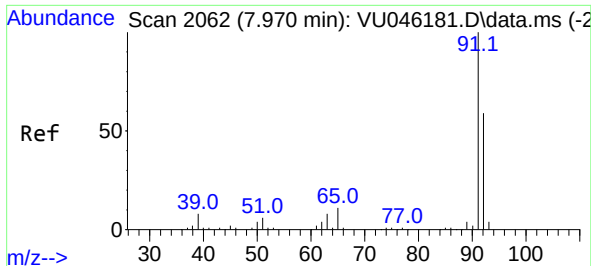
Lab File: VU046192.D

Acq: 08 Dec 2021 21:50

Tgt Ion: 43 Resp: 18737

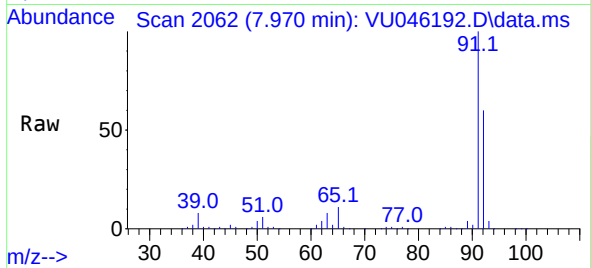
Ion	Ratio	Lower	Upper
43	100		
58	43.2	34.2	51.4
100	17.8	14.5	21.7





#42
Toluene
Concen: 158.237 ug/L
RT: 7.970 min Scan# 2062
Delta R.T. -0.003 min
Lab File: VU046192.D
Acq: 08 Dec 2021 21:50

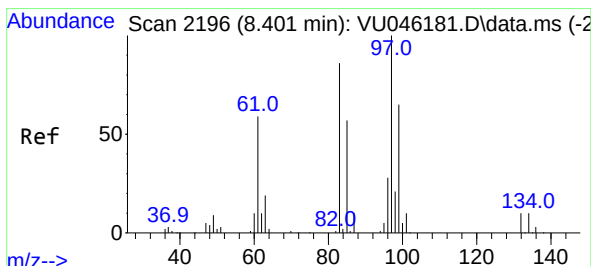
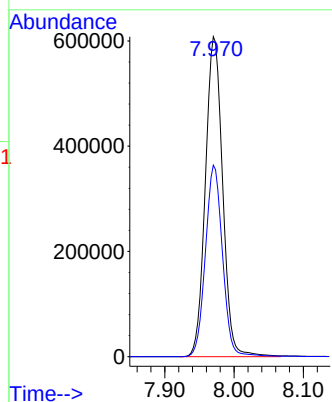
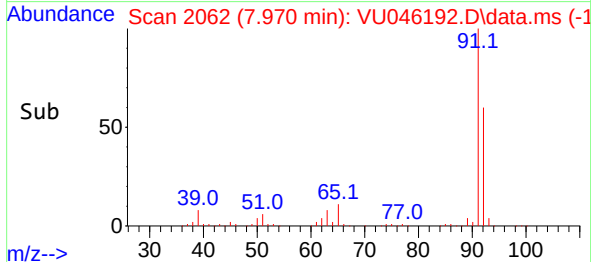
Instrument :
MSVOA_U
Client SampleId :
EW5N1



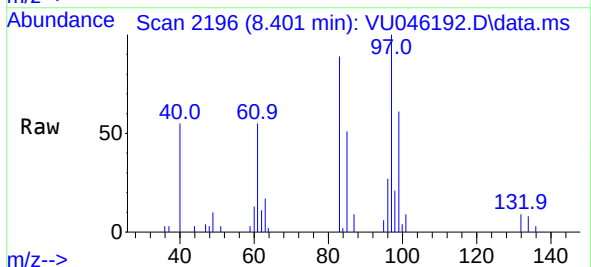
Tgt Ion: 91 Resp: 105165
Ion Ratio Lower Upper
91 100
92 59.8 41.9 77.7

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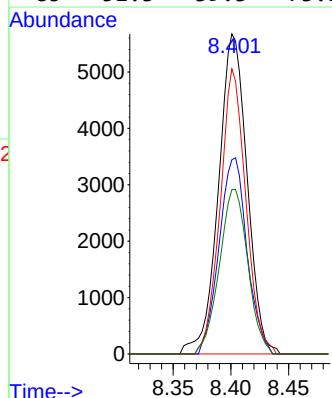
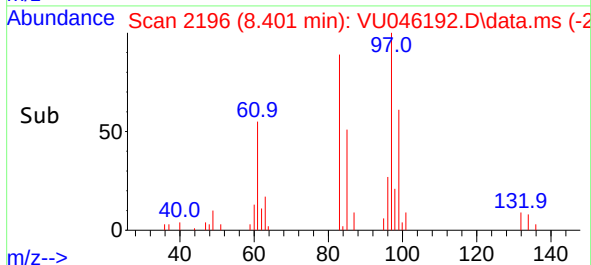
Reviewed By :John Carlone 12/09/2021
Supervised By :Mahesh Dadoda 12/09/2021

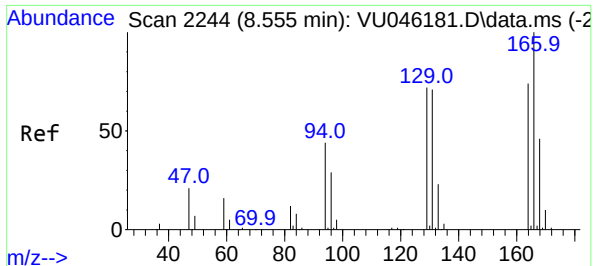


#45
1,1,2-Trichloroethane
Concen: 6.014 ug/L
RT: 8.401 min Scan# 2196
Delta R.T. -0.003 min
Lab File: VU046192.D
Acq: 08 Dec 2021 21:50



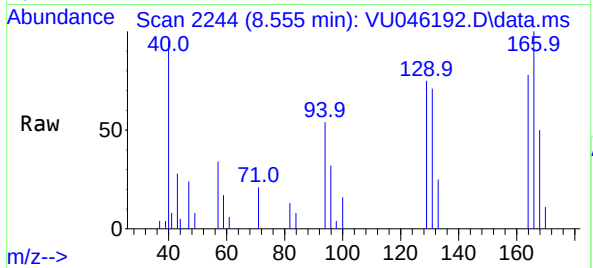
Tgt Ion: 97 Resp: 9790
Ion Ratio Lower Upper
97 100
99 60.7 44.7 82.9
83 89.1 60.2 111.8
85 51.3 39.3 73.1





#46
Tetrachloroethene
Concen: 3.238 ug/L
RT: 8.555 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU046192.D
Acq: 08 Dec 2021 21:50

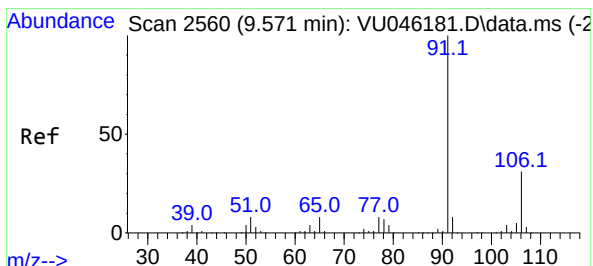
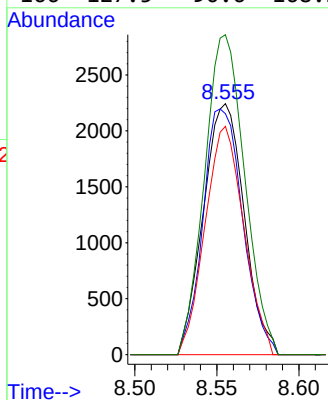
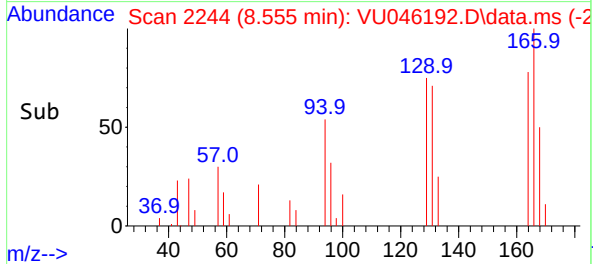
Instrument :
MSVOA_U
ClientSampleId :
EW5N1



Tgt Ion:164 Resp: 388
Ion Ratio Lower Upper
164 100
129 96.0 71.1 132.1
131 90.9 67.8 126.0
166 127.5 90.6 168.2

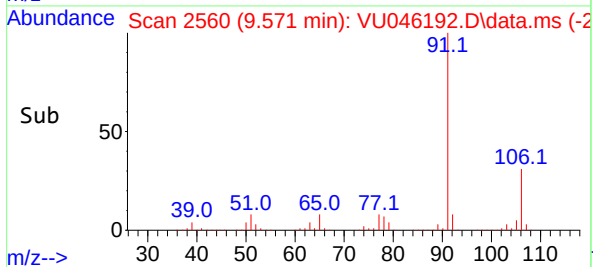
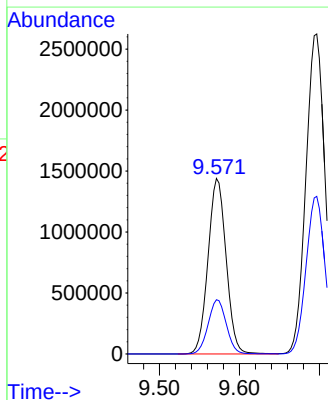
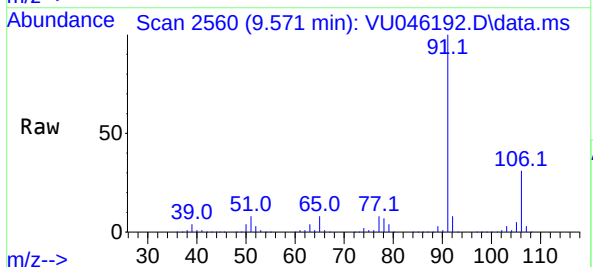
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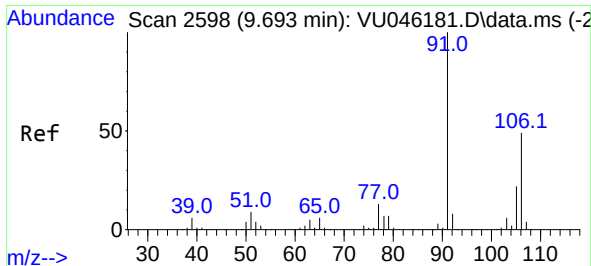
Reviewed By :John Carlone 12/09/2021
Supervised By :Mahesh Dadoda 12/09/2021



#52
Ethylbenzene
Concen: 316.601 ug/L
RT: 9.571 min Scan# 2560
Delta R.T. -0.003 min
Lab File: VU046192.D
Acq: 08 Dec 2021 21:50

Tgt Ion: 91 Resp: 2264529
Ion Ratio Lower Upper
91 100
106 30.9 21.1 39.3





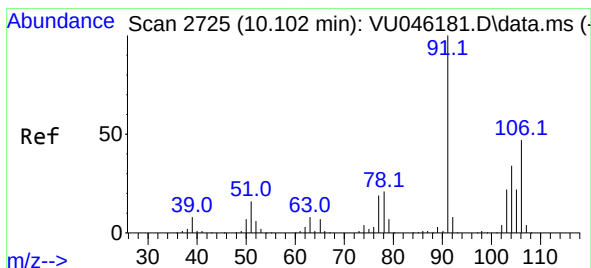
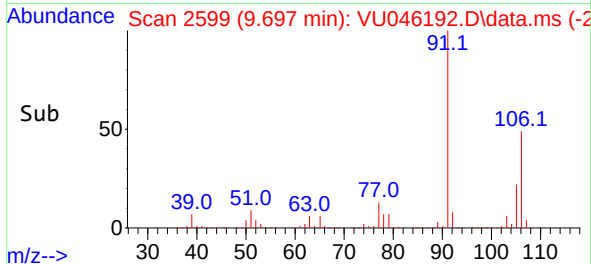
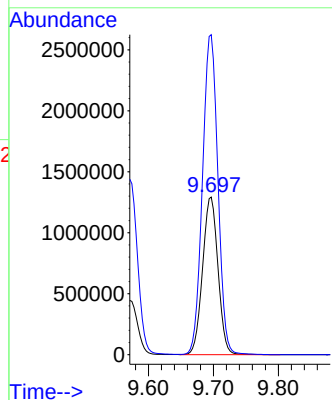
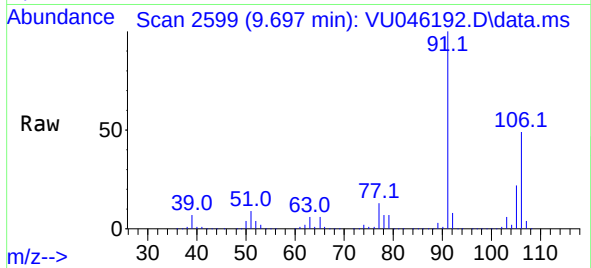
#53
m,p-Xylene
Concen: 765.148 ug/L
RT: 9.697 min Scan# 2598
Delta R.T. -0.000 min
Lab File: VU046192.D
Acq: 08 Dec 2021 21:50

Instrument :
MSVOA_U
ClientSampleId :
EW5N1

Tgt Ion:106 Resp: 2134320
Ion Ratio Lower Upper
106 100
91 203.1 144.3 268.1

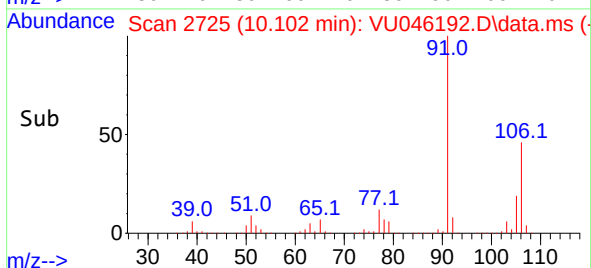
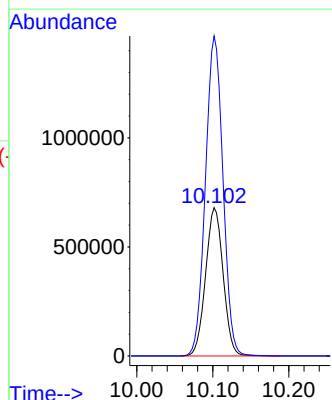
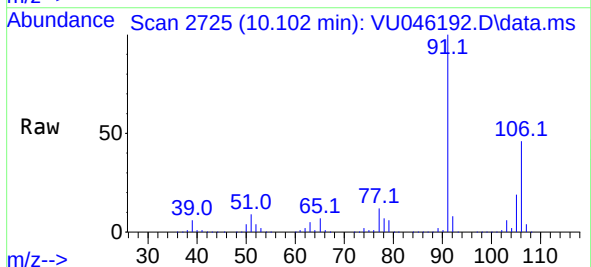
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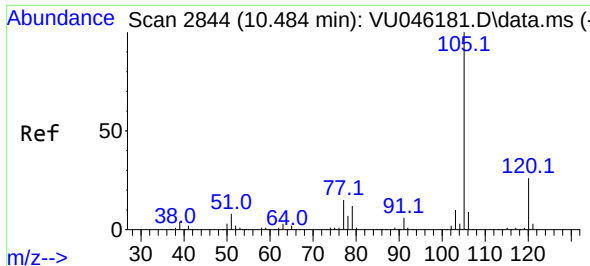
Reviewed By :John Carlone 12/09/2021
Supervised By :Mahesh Dadoda 12/09/2021



#54
o-xylene
Concen: 402.830 ug/L
RT: 10.102 min Scan# 2725
Delta R.T. -0.003 min
Lab File: VU046192.D
Acq: 08 Dec 2021 21:50

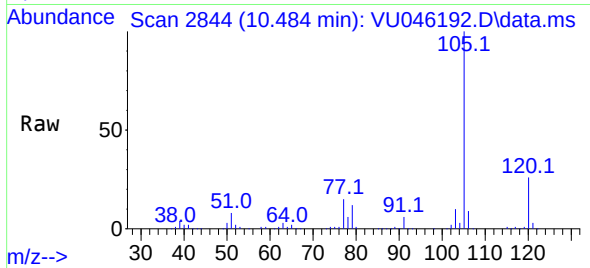
Tgt Ion:106 Resp: 1090327
Ion Ratio Lower Upper
106 100
91 215.8 154.2 286.4





#61
Isopropylbenzene
Concen: 38.165 ug/L
RT: 10.484 min Scan# 2844
Delta R.T. -0.003 min
Lab File: VU046192.D
Acq: 08 Dec 2021 21:50

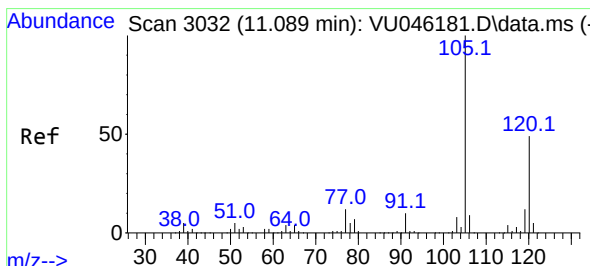
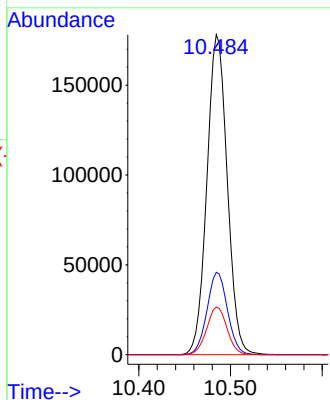
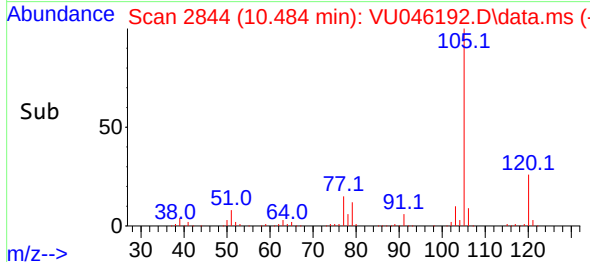
Instrument :
MSVOA_U
ClientSampleId :
EW5N1



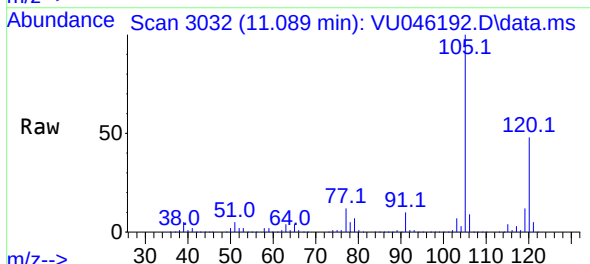
Tgt Ion:105 Resp: 274958
Ion Ratio Lower Upper
105 100
120 25.9 20.7 31.1
77 14.9 12.2 18.4

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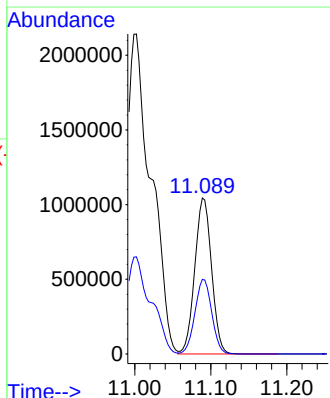
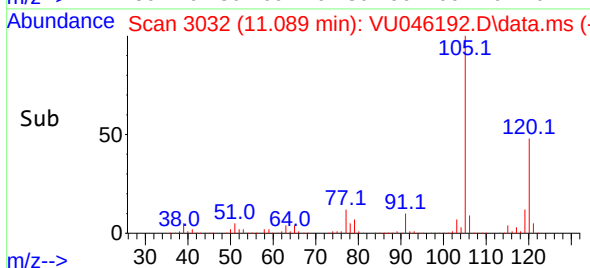
Reviewed By :John Carlone 12/09/2021
Supervised By :Mahesh Dadoda 12/09/2021

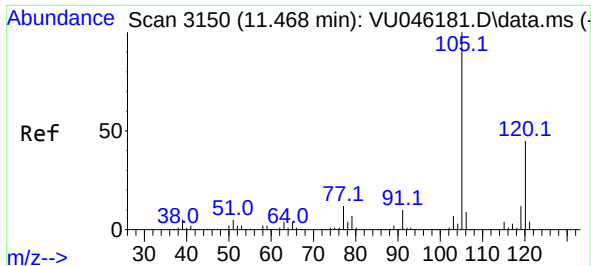


#62
1,3,5-Trimethylbenzene
Concen: 266.672 ug/L
RT: 11.089 min Scan# 3032
Delta R.T. -0.003 min
Lab File: VU046192.D
Acq: 08 Dec 2021 21:50



Tgt Ion:105 Resp: 1601370
Ion Ratio Lower Upper
105 100
120 48.1 37.8 56.6





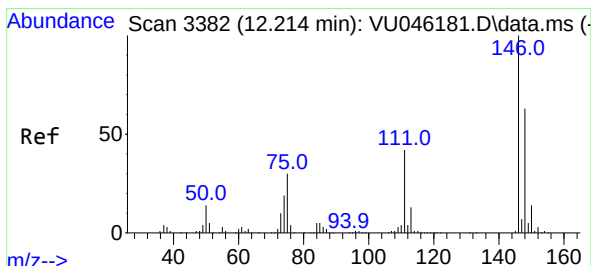
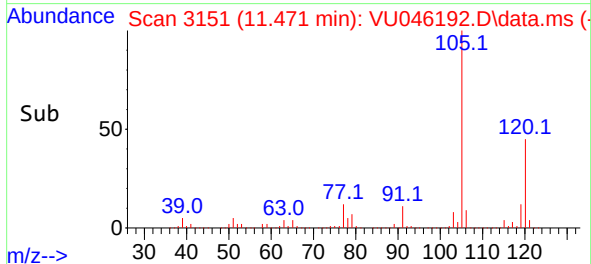
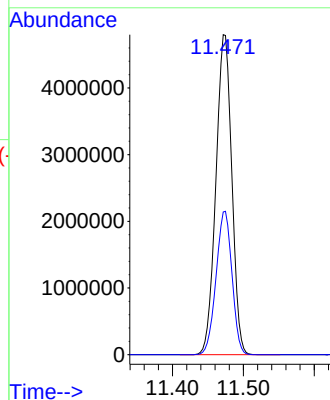
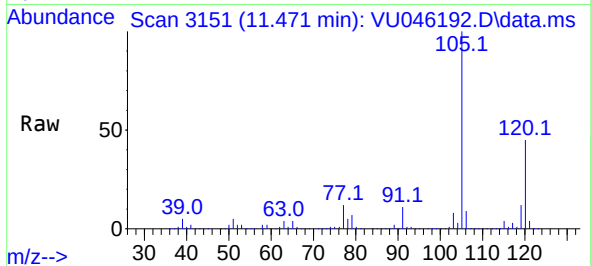
#63
1,2,4-Trimethylbenzene
Concen: 1246.638 ug/L
RT: 11.471 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VU046192.D
Acq: 08 Dec 2021 21:50

Instrument :
MSVOA_U
ClientSampleId :
EW5N1

Tgt Ion:105 Resp: 748974
Ion Ratio Lower Upper
105 100
120 44.7 35.2 52.8

Manual Integrations
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Reviewed By :John Carlone 12/09/2021
Supervised By :Mahesh Dadoda 12/09/2021



#67
1,2-Dichlorobenzene
Concen: 24.356 ug/L
RT: 12.214 min Scan# 3382
Delta R.T. -0.000 min
Lab File: VU046192.D
Acq: 08 Dec 2021 21:50

Tgt Ion:146 Resp: 83937
Ion Ratio Lower Upper
146 100
111 42.0 35.7 53.5
148 64.1 51.2 76.8

