

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU042822\
 Data File : VU048332.D
 Acq On : 28 Apr 2022 11:42
 Operator : SY/MD
 Sample : N2587-02
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 EXET0

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/29/2022
 Supervised By : Mahesh Dadoda 04/29/2022

Quant Time: Apr 29 04:28:29 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM042522WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Apr 29 04:27:14 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.250	114	401050	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.420	117	427957	50.000	ug/L	# 0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	281650	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.600	65	148021	40.136	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery =	80.280%		
7) Chloroethane-d5	1.896	69	124832	48.222	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	96.440%		
11) 1,1-Dichloroethene-d2	2.562	63	200022	33.850	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	67.700%		
21) 2-Butanone-d5	4.623	46	315444	100.285	ug/L	0.00
Spiked Amount 100.000	Range 40 - 130		Recovery =	100.290%		
24) Chloroform-d	5.063	84	285476	42.676	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	85.360%		
26) 1,2-Dichloroethane-d4	5.703	65	183997	46.359	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	92.720%		
32) Benzene-d6	5.729	84	618416	45.818	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	91.640%		
36) 1,2-Dichloropropane-d6	6.690	67	196502	44.037	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery =	88.080%		
41) Toluene-d8	7.899	98	584075	47.741	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	95.480%		
43) trans-1,3-Dichloroprop...	8.179	79	90205	45.813	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	91.620%		
47) 2-Hexanone-d5	8.639	63	300594	124.859	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery =	124.860%		
56) 1,1,2,2-Tetrachloroeth...	10.758	84	384897	49.182	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery =	98.360%		
66) 1,2-Dichlorobenzene-d4	12.195	152	300489	47.427	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	94.860%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.385	85	2352	0.776	ug/L #	85
5) Vinyl chloride	1.607	62	73013	20.889	ug/L	84
8) Chloroethane	1.919	64	8693	4.398	ug/L	86
12) 1,1-Dichloroethene	2.568	96	3484	1.321	ug/L #	1
13) Acetone	2.629	43	39976	19.797	ug/L	99
15) Methyl Acetate	2.964	43	4270	1.065	ug/L #	62
16) Methylene chloride	3.047	84	9216	2.711	ug/L	96
17) trans-1,2-Dichloroethene	3.353	96	8497	3.102	ug/L	93
19) 1,1-Dichloroethane	3.870	63	26853	4.687	ug/L	97
20) cis-1,2-Dichloroethene	4.665	96	54212	16.417	ug/L #	97
22) 2-Butanone	4.716	43	8261	2.767	ug/L #	68
27) 1,2-Dichloroethane	5.796	62	1262808	295.946	ug/L	97
29) Cyclohexane	5.385	56	38950	9.633	ug/L	98
30) 1,1,1-Trichloroethane	5.317	97	7674	1.586	ug/L	93
33) Benzene	5.767	78	22826870m	1801.552	ug/L	
34) Trichloroethene	6.546	95	152895	49.230	ug/L	100
37) 1,2-Dichloropropane	6.790	63	60637	16.820	ug/L	99
40) 4-Methyl-2-pentanone	7.800	43	28273	5.200	ug/L	99
42) Toluene	7.970	91	5403935	406.223	ug/L	100

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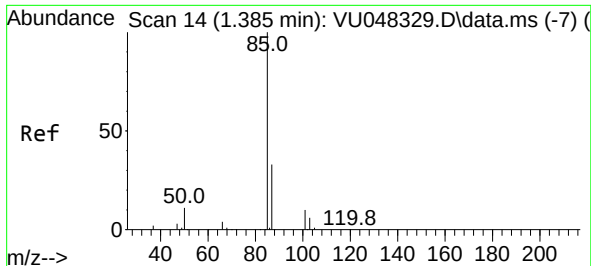
Reviewed By : John Carlone 04/29/2022
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

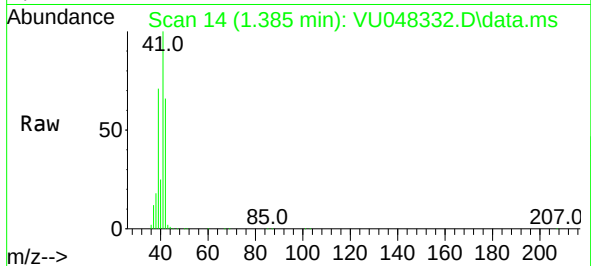
48) 2-Hexanone	8.690	43	30192	6.649	ug/L #	92
50) 1,2-Dibromoethane	8.925	107	16791	4.378	ug/L	96
51) Chlorobenzene	9.446	112	18185564m	1896.542	ug/L	
52) Ethylbenzene	9.571	91	113949	8.271	ug/L	98
53) m,p-Xylene	9.693	106	99542	18.309	ug/L	99
54) o-Xylene	10.102	106	67989	12.414	ug/L	100
62) 1,3,5-Trimethylbenzene	11.089	105	25021	3.015	ug/L	99
63) 1,2,4-Trimethylbenzene	11.468	105	61273	4.802	ug/L	99
65) 1,4-Dichlorobenzene	11.838	146	30974	3.436	ug/L	97
67) 1,2-Dichlorobenzene	12.214	146	189409	20.365	ug/L	97

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



#2
Dichlorodifluoromethane
Concen: 0.776 ug/L
RT: 1.385 min Scan# 14
Delta R.T. -0.000 min
Lab File: VU048332.D
Acq: 28 Apr 2022 11:42

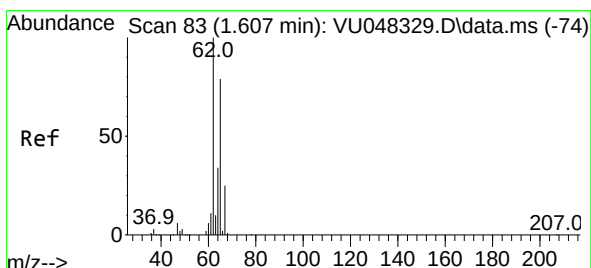
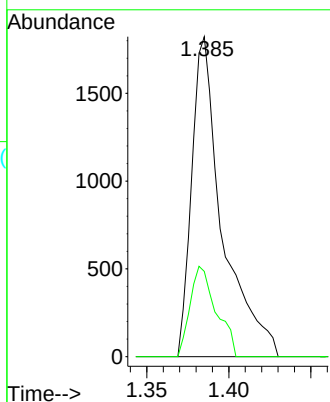
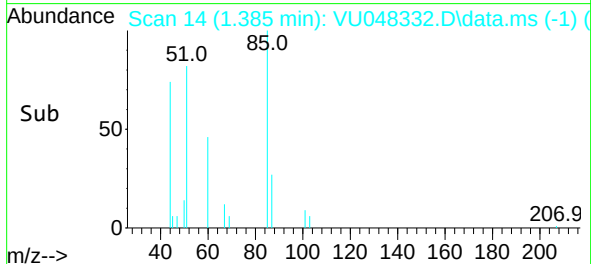
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Tgt Ion: 85 Resp: 2352
Ion Ratio Lower Upper
85 100
87 24.2 26.1 39.1

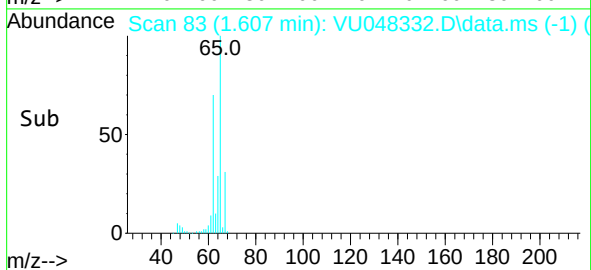
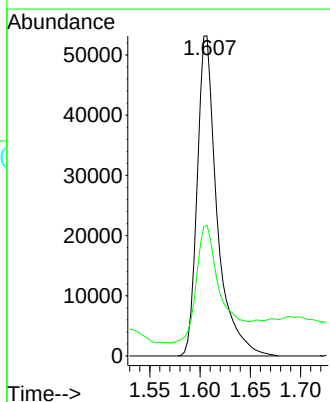
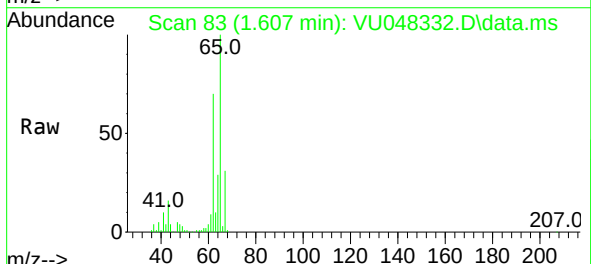
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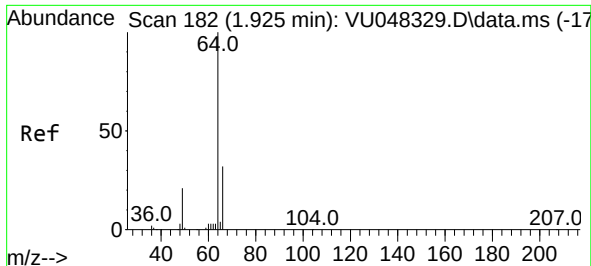
Reviewed By :John Carlone 04/29/2022
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#5
Vinyl chloride
Concen: 20.889 ug/L
RT: 1.607 min Scan# 83
Delta R.T. -0.000 min
Lab File: VU048332.D
Acq: 28 Apr 2022 11:42

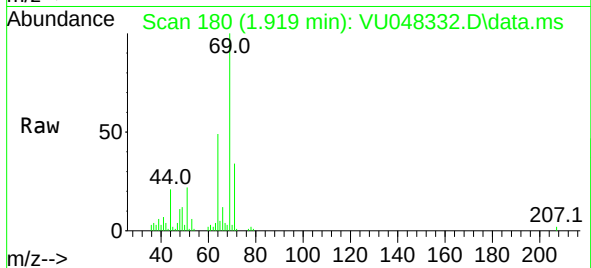
Tgt Ion: 62 Resp: 73013
Ion Ratio Lower Upper
62 100
64 40.8 22.5 41.7





#8
Chloroethane
Concen: 4.398 ug/L
RT: 1.919 min Scan# 11
Delta R.T. -0.007 min
Lab File: VU048332.D
Acq: 28 Apr 2022 11:42

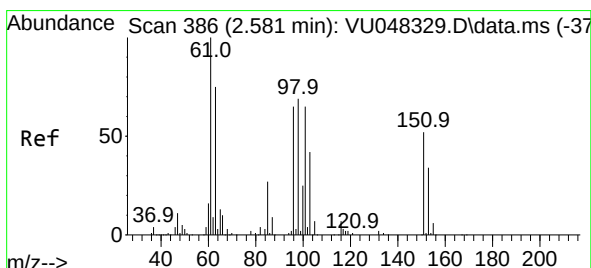
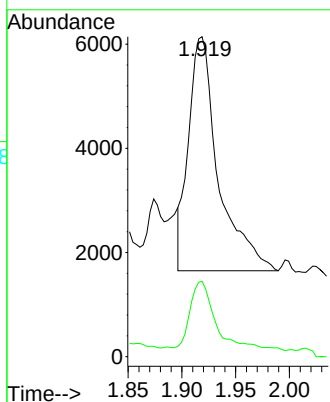
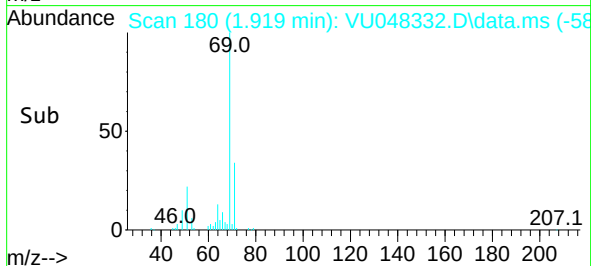
Instrument :
MSVOA_U
ClientSampleId :
EXET0



Tgt Ion: 64 Resp: 869
Ion Ratio Lower Upper
64 100
66 23.6 21.9 40.7

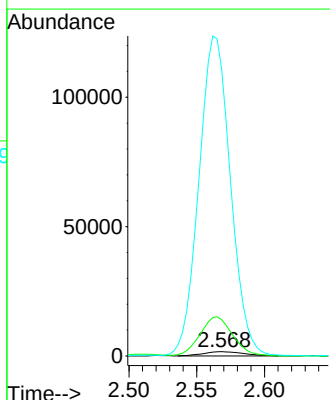
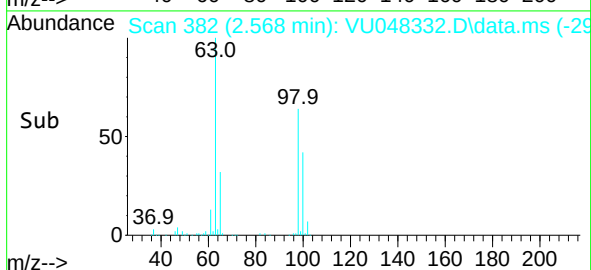
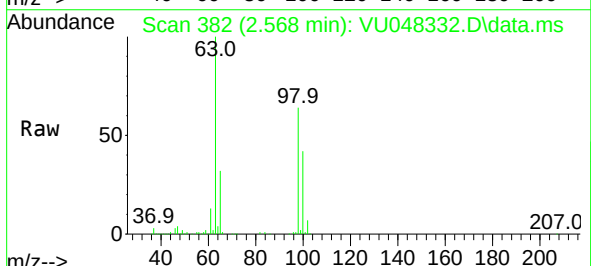
Manual Integrations
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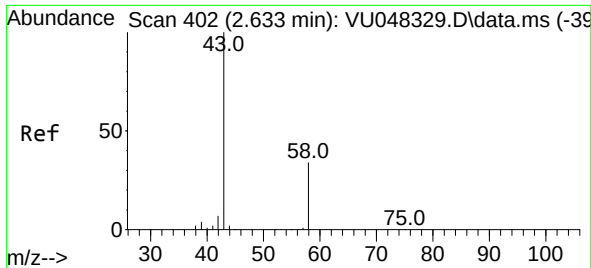
Reviewed By :John Carlone 04/29/2022
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#12
1,1-Dichloroethene
Concen: 1.321 ug/L
RT: 2.568 min Scan# 382
Delta R.T. -0.013 min
Lab File: VU048332.D
Acq: 28 Apr 2022 11:42

Tgt Ion: 96 Resp: 3484
Ion Ratio Lower Upper
96 100
61 854.0 107.9 200.3#
63 6772.7 80.3 149.1#





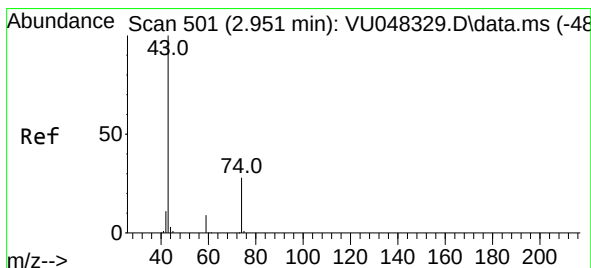
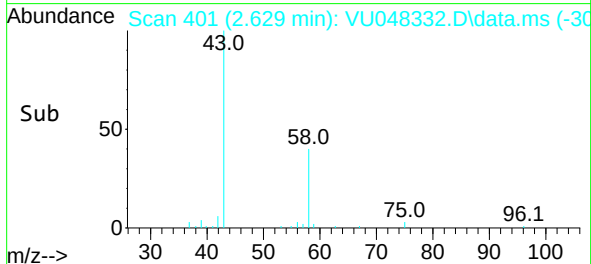
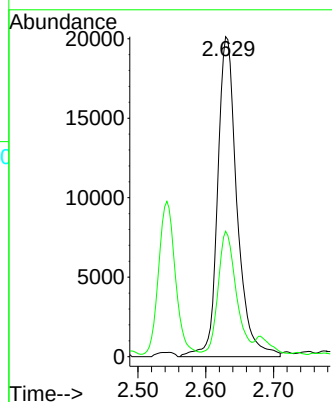
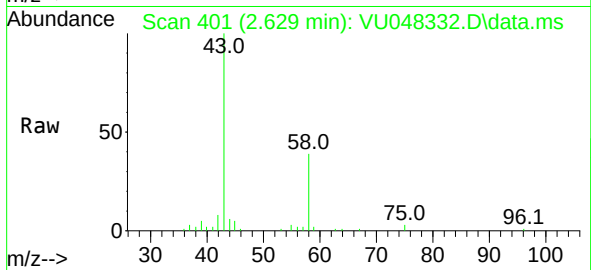
#13
Acetone
Concen: 19.797 ug/L
RT: 2.629 min Scan# 401
Delta R.T. -0.003 min
Lab File: VU048332.D
Acq: 28 Apr 2022 11:42

Instrument :
MSVOA_U
ClientSampleId :
EXET0

Tgt Ion: 43 Resp: 39970
Ion Ratio Lower Upper
43 100
58 36.2 0.0 71.2

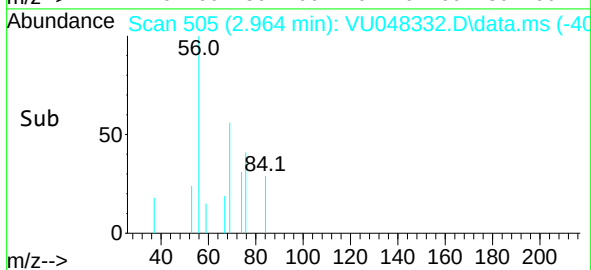
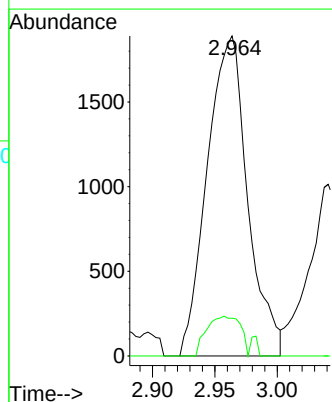
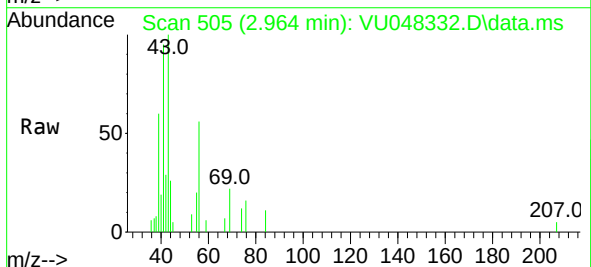
Manual Integrations
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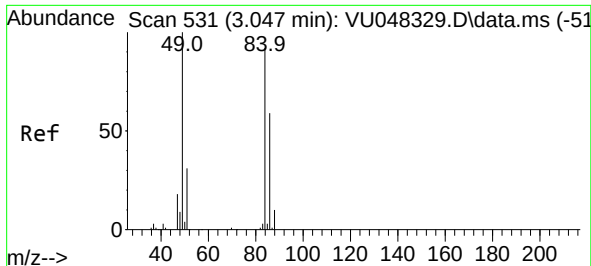
Reviewed By :John Carlone 04/29/2022
Supervised By :Mahesh Dadoda 04/29/2022



#15
Methyl Acetate
Concen: 1.065 ug/L
RT: 2.964 min Scan# 505
Delta R.T. 0.013 min
Lab File: VU048332.D
Acq: 28 Apr 2022 11:42

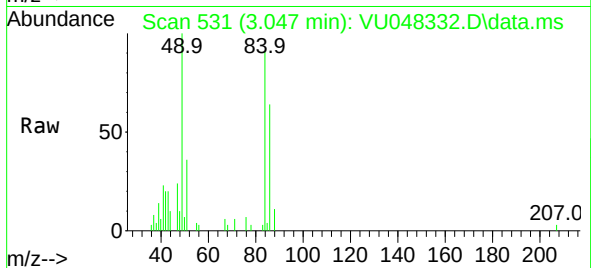
Tgt Ion: 43 Resp: 4270
Ion Ratio Lower Upper
43 100
74 6.8 21.0 31.6#





#16
Methylene chloride
Concen: 2.711 ug/L
RT: 3.047 min Scan# 511
Delta R.T. -0.000 min
Lab File: VU048332.D
Acq: 28 Apr 2022 11:42

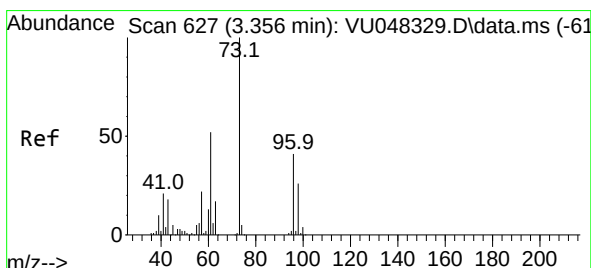
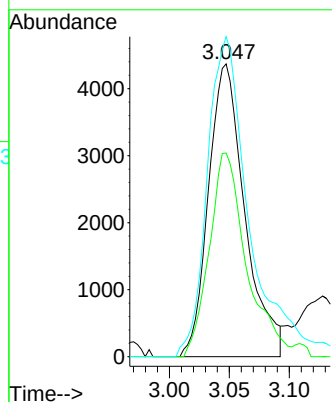
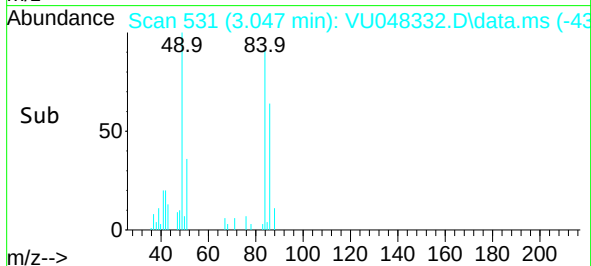
Instrument :
MSVOA_U
ClientSampleId :
EXET0



Tgt Ion: 84 Resp: 9210
Ion Ratio Lower Upper
84 100
86 69.6 45.4 84.2
49 109.3 79.2 147.0

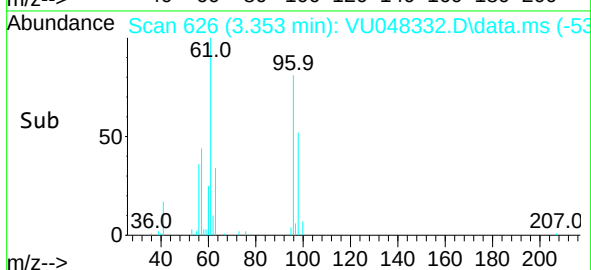
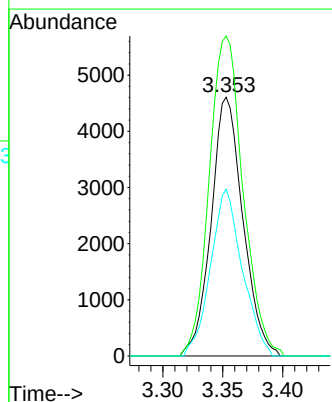
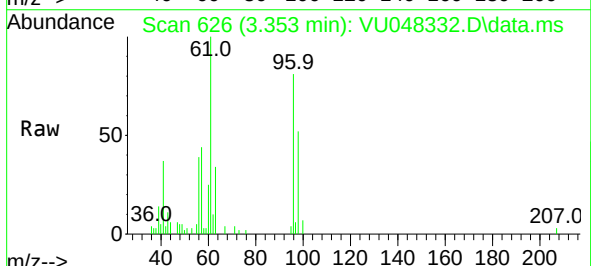
Manual Integrations
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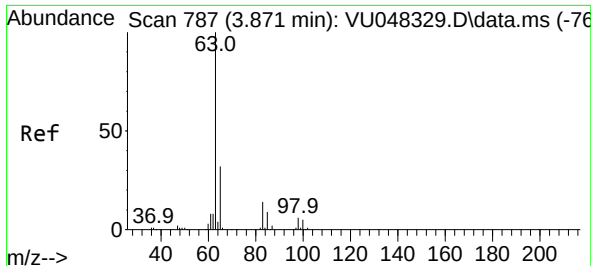
Reviewed By :John Carlone 04/29/2022
Supervised By :Mahesh Dadoda 04/29/2022



#17
trans-1,2-Dichloroethene
Concen: 3.102 ug/L
RT: 3.353 min Scan# 626
Delta R.T. -0.003 min
Lab File: VU048332.D
Acq: 28 Apr 2022 11:42

Tgt Ion: 96 Resp: 8497
Ion Ratio Lower Upper
96 100
61 123.7 95.2 176.8
98 64.5 44.7 83.1





#19

1,1-Dichloroethane

Concen: 4.687 ug/L

RT: 3.870 min Scan# 787

Delta R.T. -0.000 min

Lab File: VU048332.D

Acq: 28 Apr 2022 11:42

Instrument :

MSVOA_U

ClientSampleId :

EXET0

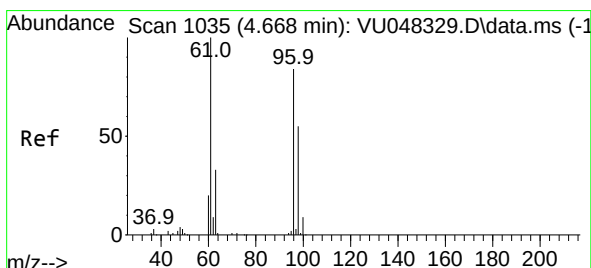
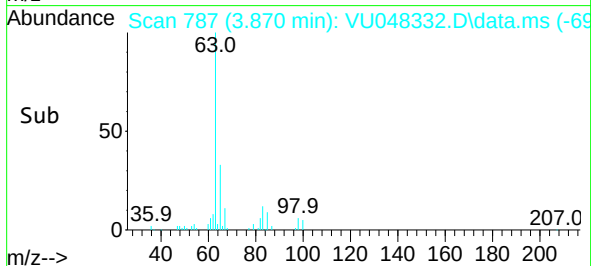
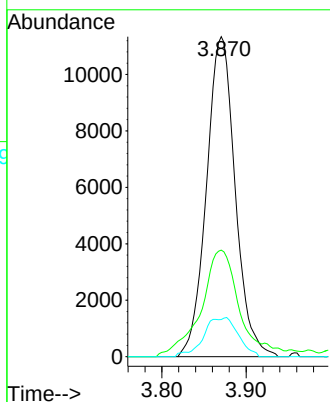
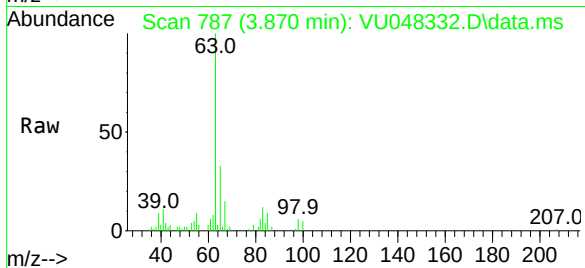
Tgt Ion: 63	Resp: 2685
Ion Ratio	Lower Upper
63 100	
65 33.3	22.0 40.8
83 11.6	8.8 16.4

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#20

cis-1,2-Dichloroethene

Concen: 16.417 ug/L

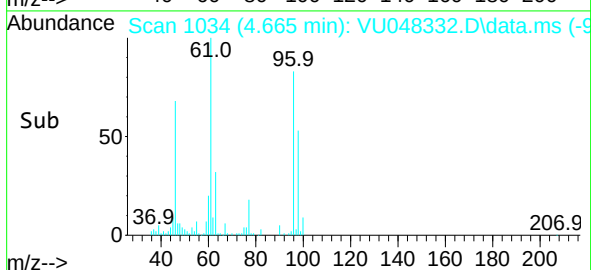
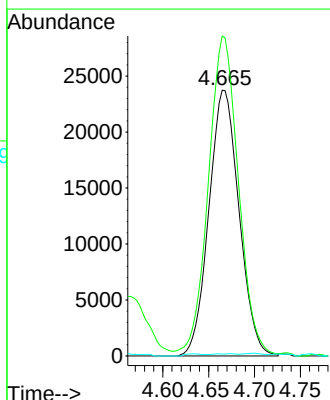
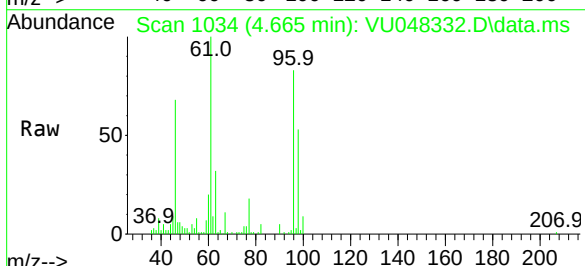
RT: 4.665 min Scan# 1034

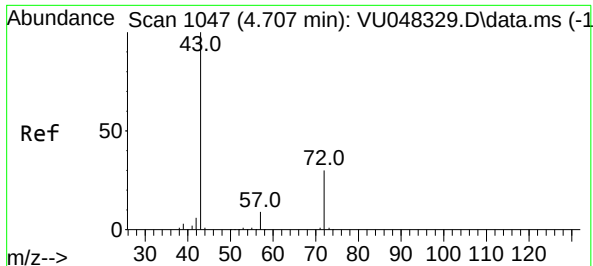
Delta R.T. -0.003 min

Lab File: VU048332.D

Acq: 28 Apr 2022 11:42

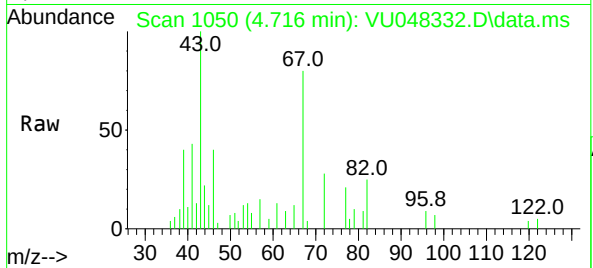
Tgt Ion: 96	Resp: 54212
Ion Ratio	Lower Upper
96 100	
61 120.4	87.0 161.6
68 0.7	0.0 0.0





#22
2-Butanone
Concen: 2.767 ug/L
RT: 4.716 min Scan# 1050
Delta R.T. 0.010 min
Lab File: VU048332.D
Acq: 28 Apr 2022 11:42

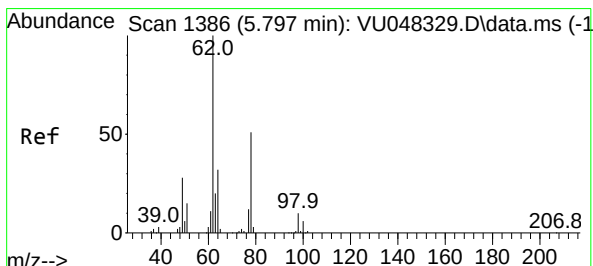
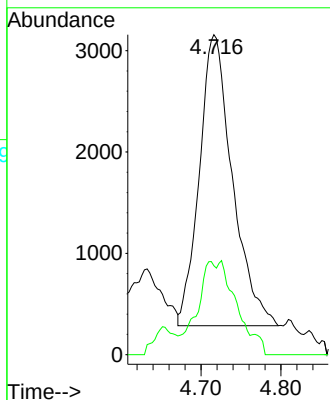
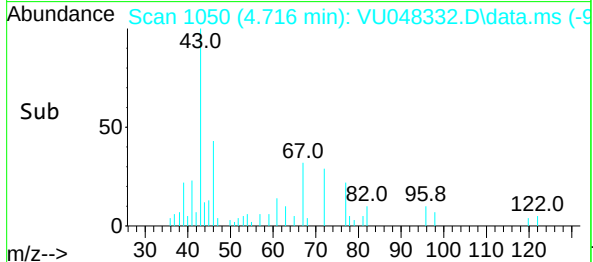
Instrument :
MSVOA_U
ClientSampleId :
EXET0



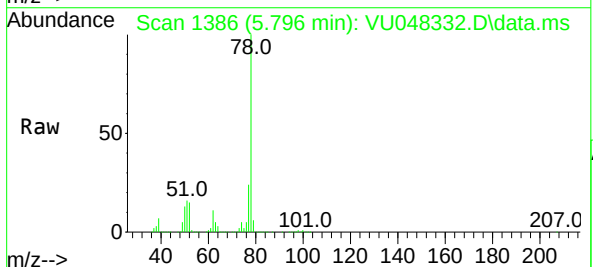
Tgt Ion: 43 Resp: 826
Ion Ratio Lower Upper
43 100
72 12.0 14.6 43.8

Manual Integrations
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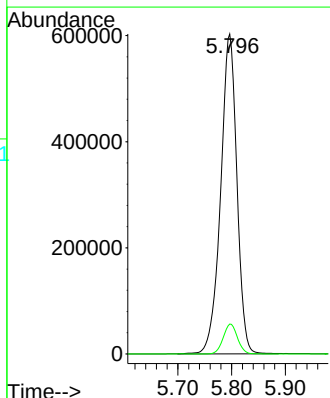
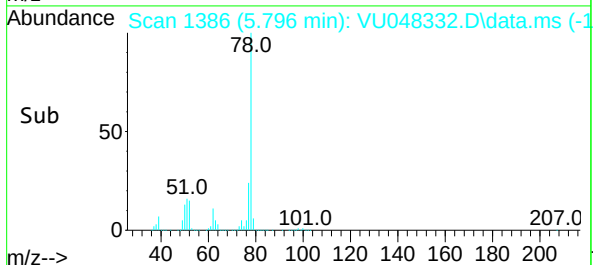
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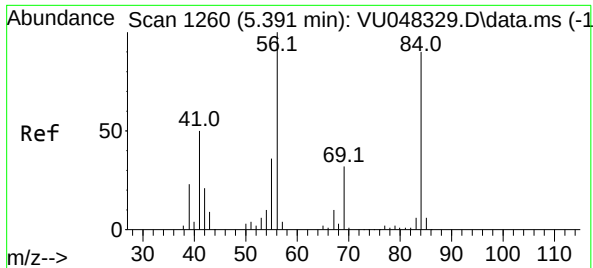


#27
1,2-Dichloroethane
Concen: 295.946 ug/L
RT: 5.796 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VU048332.D
Acq: 28 Apr 2022 11:42



Tgt Ion: 62 Resp: 1262808
Ion Ratio Lower Upper
62 100
98 9.3 8.5 12.7





#29

Cyclohexane

Concen: 9.633 ug/L

RT: 5.385 min Scan# 1258

Delta R.T. -0.007 min

Lab File: VU048332.D

Acq: 28 Apr 2022 11:42

Instrument :

MSVOA_U

ClientSampleId :

EXET0

Tgt Ion: 56 Resp: 38950

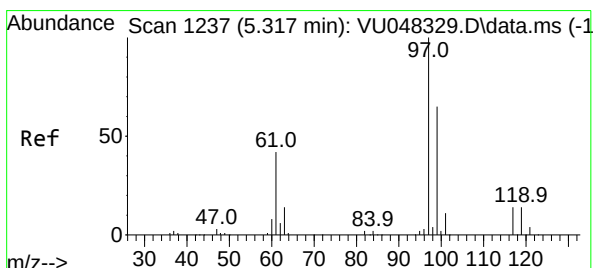
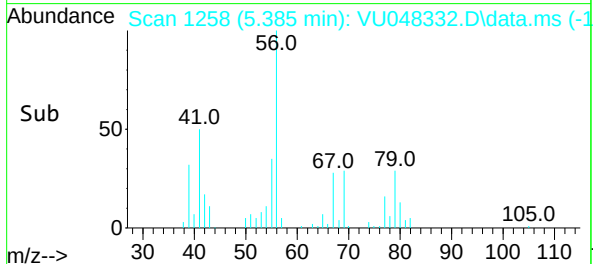
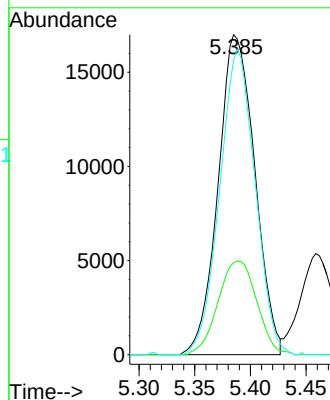
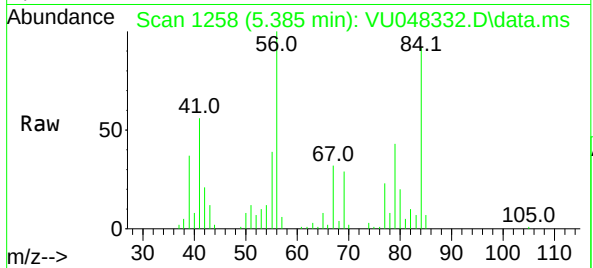
Ion	Ratio	Lower	Upper
56	100		
69	30.9	24.2	36.4
84	92.1	72.2	108.2

Manual Integrations

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Reviewed By :John Carlone 04/29/2022

Supervised By :Mahesh Dadoda 04/29/2022



#30

1,1,1-Trichloroethane

Concen: 1.586 ug/L

RT: 5.317 min Scan# 1237

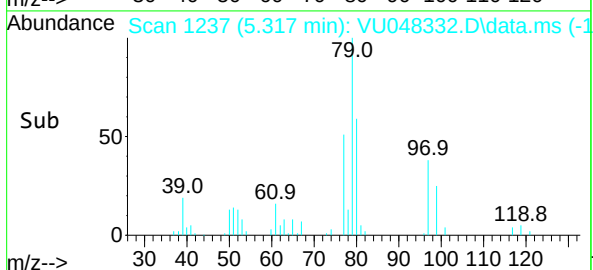
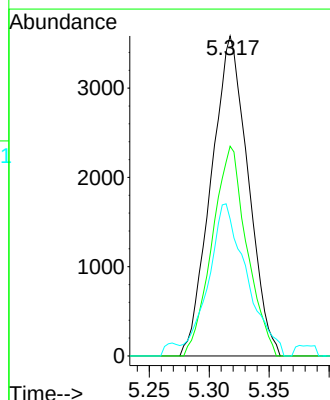
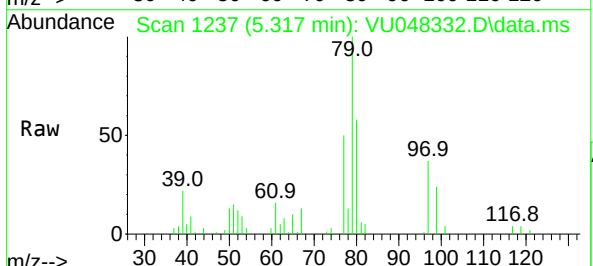
Delta R.T. -0.000 min

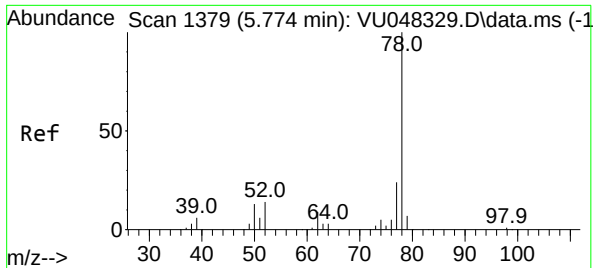
Lab File: VU048332.D

Acq: 28 Apr 2022 11:42

Tgt Ion: 97 Resp: 7674

Ion	Ratio	Lower	Upper
97	100		
99	61.5	51.8	77.8
61	49.2	33.9	50.9





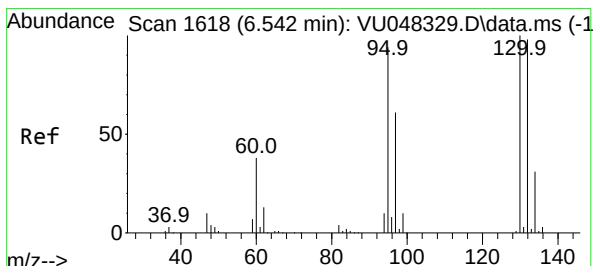
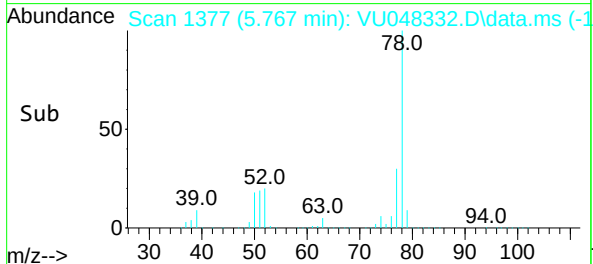
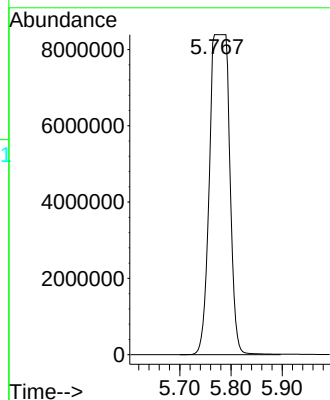
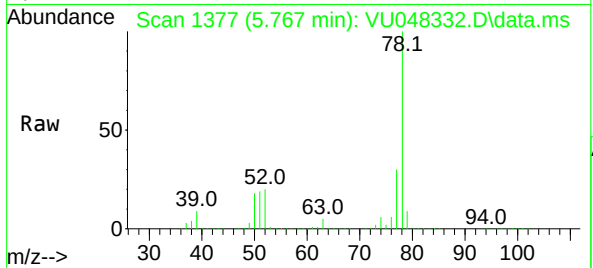
#33
Benzene
Concen: 1801.552 ug/L m
RT: 5.767 min Scan# 11
Delta R.T. -0.007 min
Lab File: VU048332.D
Acq: 28 Apr 2022 11:42

Instrument :
MSVOA_U
ClientSampleId :
EXET0

Tgt Ion: 78 Resp:22826870

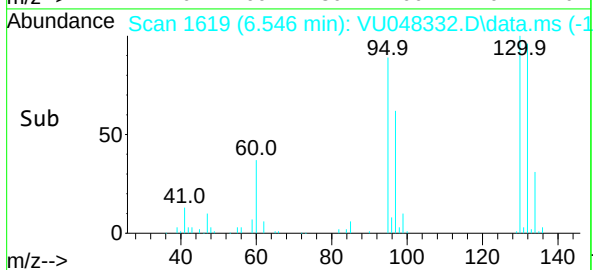
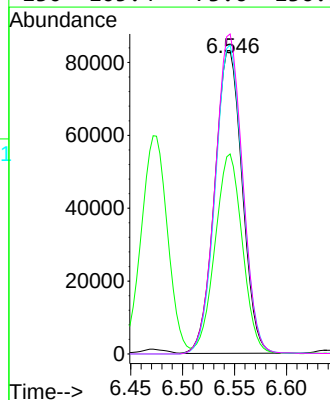
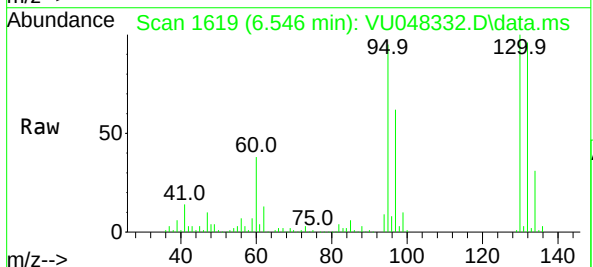
Manual Integrations
APPROVED

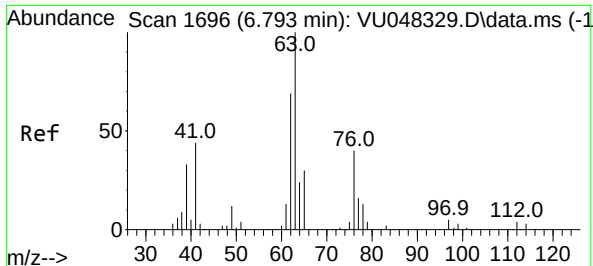
Reviewed By :John Carlone 04/29/2022
Supervised By :Mahesh Dadoda 04/29/2022



#34
Trichloroethene
Concen: 49.230 ug/L
RT: 6.546 min Scan# 1619
Delta R.T. 0.003 min
Lab File: VU048332.D
Acq: 28 Apr 2022 11:42

Tgt Ion: 95 Resp: 152895
Ion Ratio Lower Upper
95 100
97 65.9 45.8 85.2
132 101.7 71.6 133.0
130 105.4 73.6 136.8





#37

1,2-Dichloropropane

Concen: 16.820 ug/L

RT: 6.790 min Scan# 1

Delta R.T. -0.003 min

Lab File: VU048332.D

Acq: 28 Apr 2022 11:42

Instrument :

MSVOA_U

ClientSampleId :

EXET0

Tgt Ion: 63 Resp: 6063

Ion Ratio Lower Upper

63 100

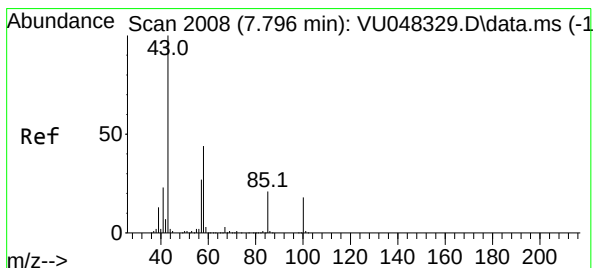
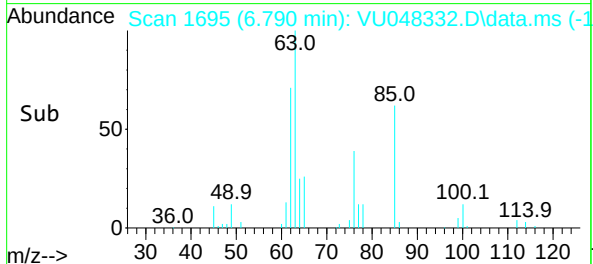
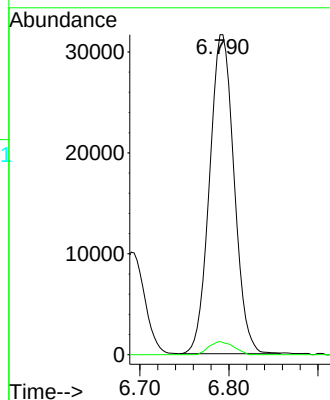
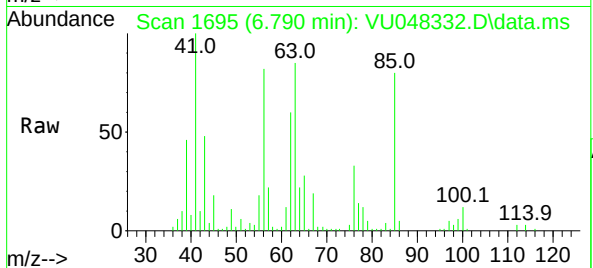
112 4.1 3.1 4.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/29/2022

Supervised By :Mahesh Dadoda 04/29/2022



#40

4-Methyl-2-pentanone

Concen: 5.200 ug/L

RT: 7.800 min Scan# 2009

Delta R.T. 0.003 min

Lab File: VU048332.D

Acq: 28 Apr 2022 11:42

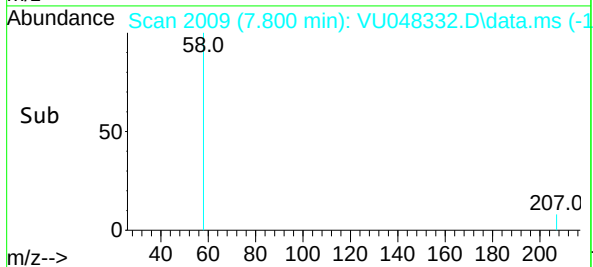
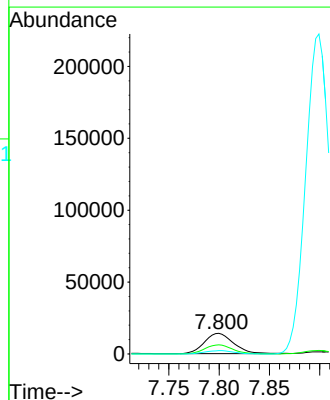
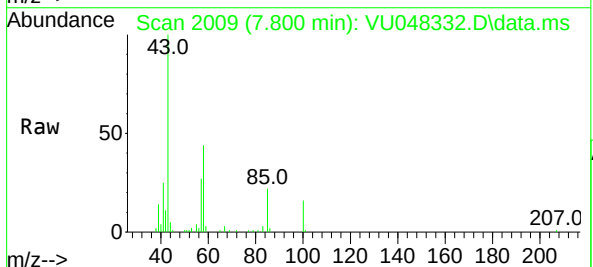
Tgt Ion: 43 Resp: 28273

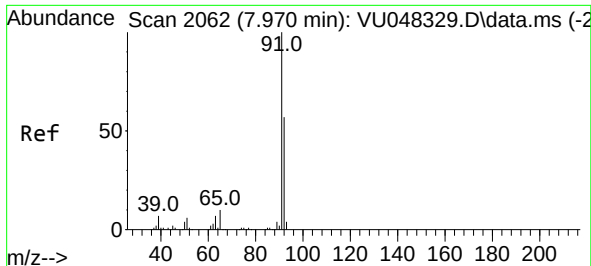
Ion Ratio Lower Upper

43 100

58 43.1 34.4 51.6

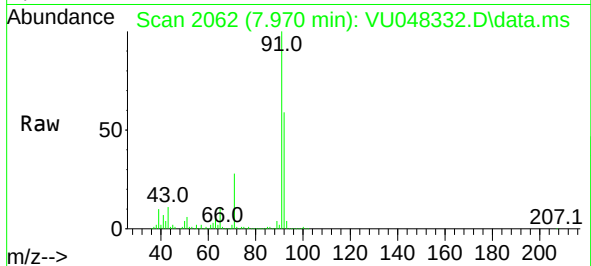
100 16.0 13.6 20.4





#42
Toluene
Concen: 406.223 ug/L
RT: 7.970 min Scan# 2062
Delta R.T. -0.000 min
Lab File: VU048332.D
Acq: 28 Apr 2022 11:42

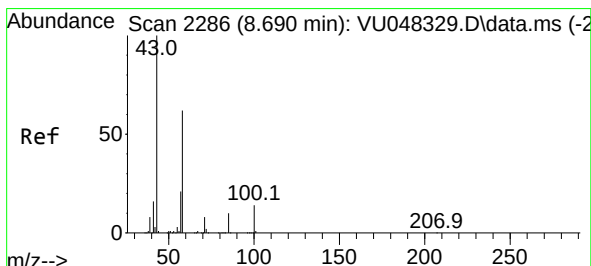
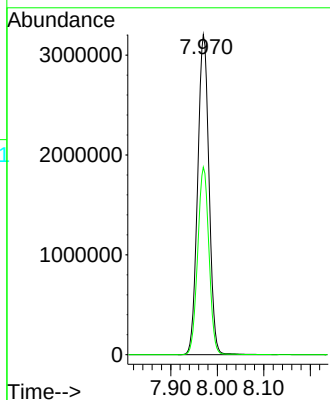
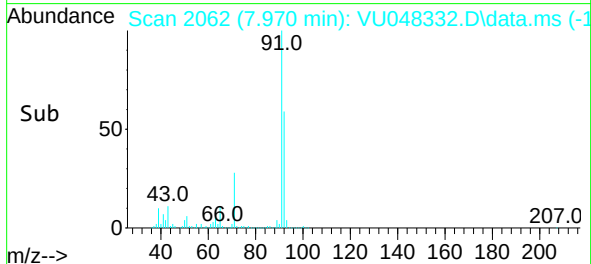
Instrument :
MSVOA_U
ClientSampleId :
EXET0



Tgt Ion: 91 Resp: 540393
Ion Ratio Lower Upper
91 100
92 58.6 40.9 76.0

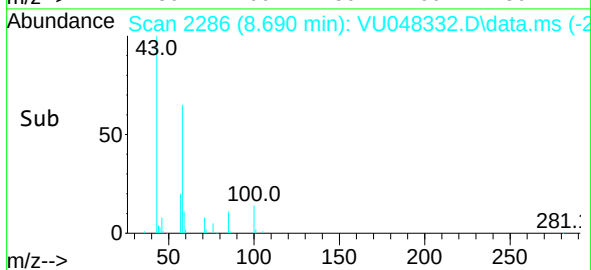
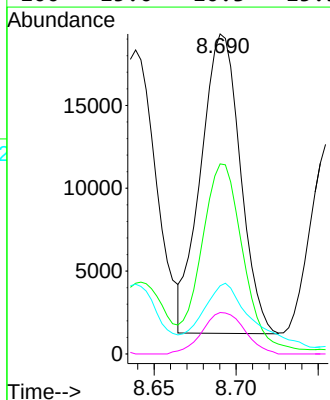
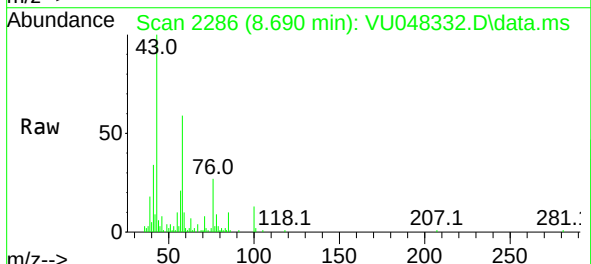
Manual Integrations
APPROVED

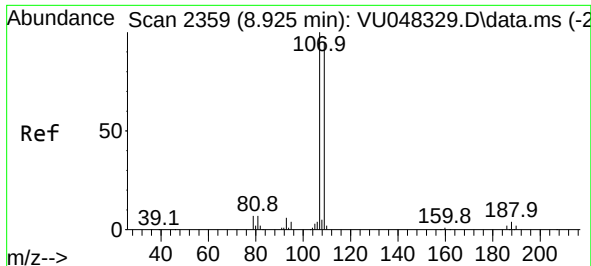
Reviewed By :John Carlone 04/29/2022
Supervised By :Mahesh Dadoda 04/29/2022



#48
2-Hexanone
Concen: 6.649 ug/L
RT: 8.690 min Scan# 2286
Delta R.T. -0.000 min
Lab File: VU048332.D
Acq: 28 Apr 2022 11:42

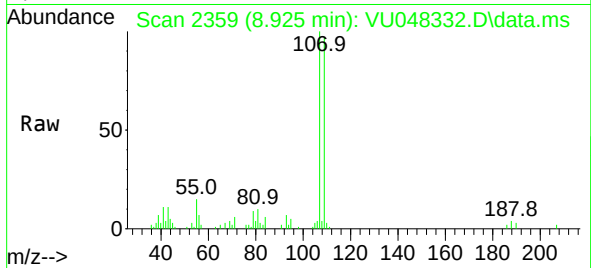
Tgt Ion: 43 Resp: 30192
Ion Ratio Lower Upper
43 100
58 64.7 48.1 72.1
57 27.1 16.2 24.4#
100 15.0 10.3 15.5





#50
1,2-Dibromoethane
Concen: 4.378 ug/L
RT: 8.925 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU048332.D
Acq: 28 Apr 2022 11:42

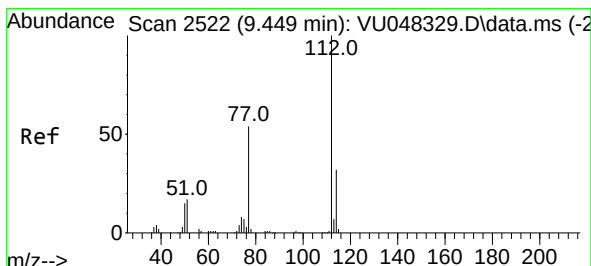
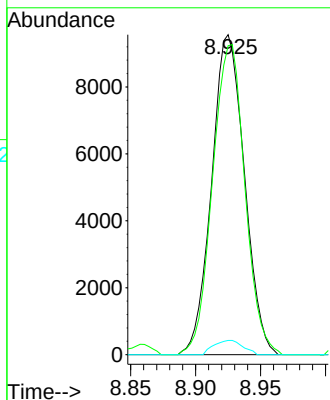
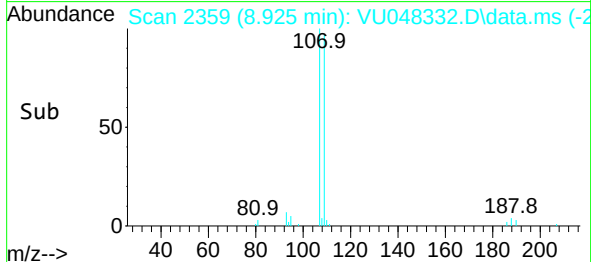
Instrument :
MSVOA_U
ClientSampleId :
EXET0



Tgt Ion:107 Resp: 1679
Ion Ratio Lower Upper
107 100
109 96.6 65.0 120.8
188 4.4 3.1 4.7

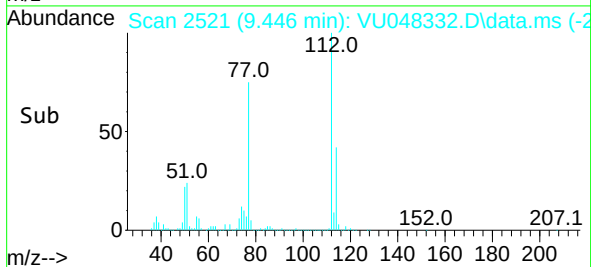
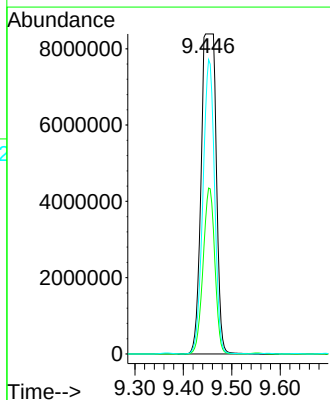
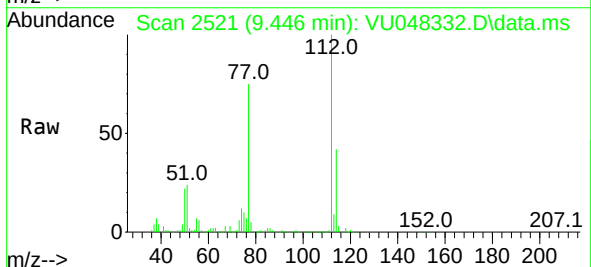
Manual Integrations
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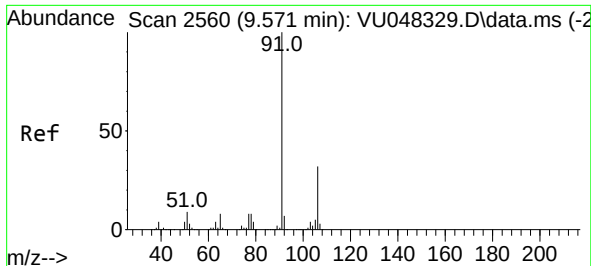
Reviewed By :John Carlone 04/29/2022
Supervised By :Mahesh Dadoda 04/29/2022



#51
Chlorobenzene
Concen: 1896.542 ug/L m
RT: 9.446 min Scan# 2521
Delta R.T. -0.003 min
Lab File: VU048332.D
Acq: 28 Apr 2022 11:42

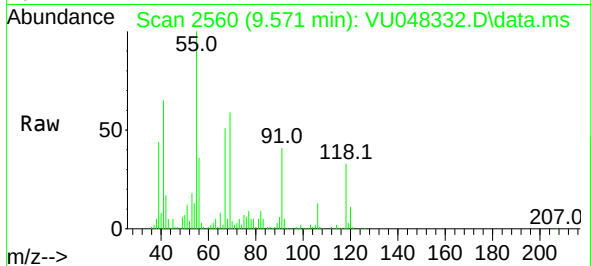
Tgt Ion:112 Resp:18185564
Ion Ratio Lower Upper
112 100
114 41.7 22.7 42.1
77 75.4 44.3 66.5#





#52
Ethylbenzene
Concen: 8.271 ug/L
RT: 9.571 min Scan# 2560
Delta R.T. -0.000 min
Lab File: VU048332.D
Acq: 28 Apr 2022 11:42

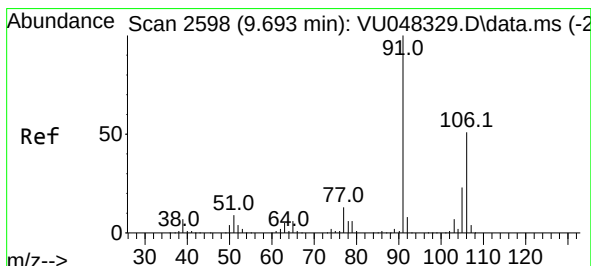
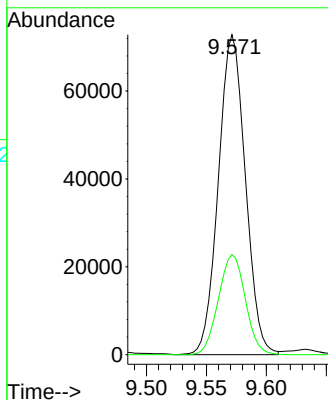
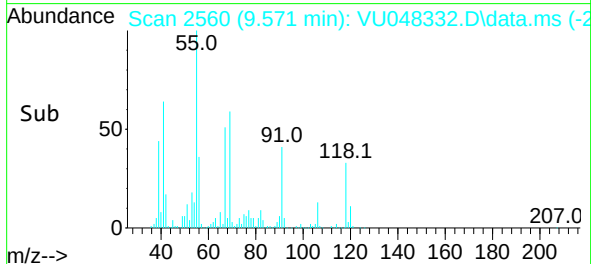
Instrument :
MSVOA_U
ClientSampleId :
EXET0



Tgt Ion: 91 Resp: 113949
Ion Ratio Lower Upper
91 100
106 31.3 22.5 41.9

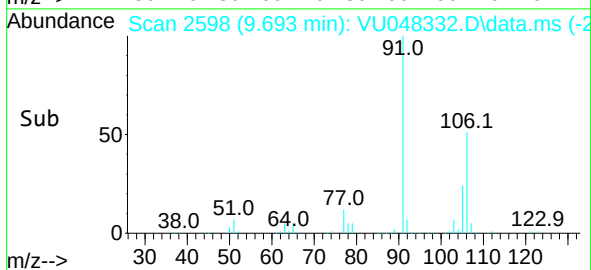
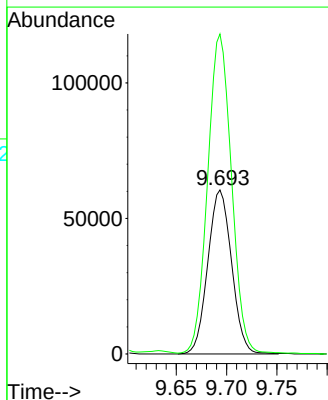
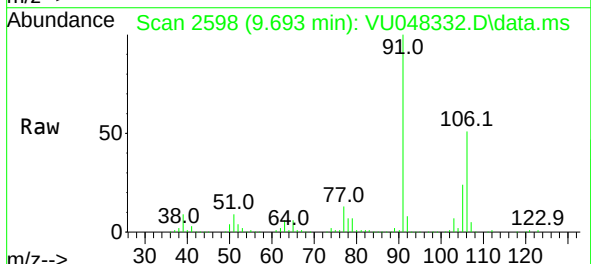
Manual Integrations
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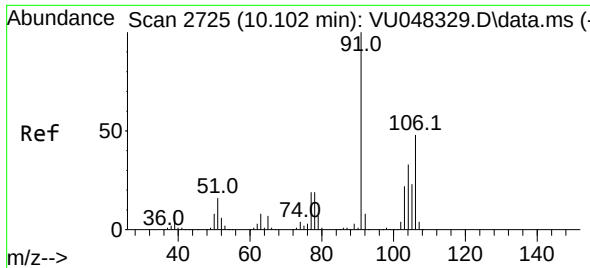
Reviewed By :John Carlone 04/29/2022
Supervised By :Mahesh Dadoda 04/29/2022



#53
m,p-Xylene
Concen: 18.309 ug/L
RT: 9.693 min Scan# 2598
Delta R.T. -0.000 min
Lab File: VU048332.D
Acq: 28 Apr 2022 11:42

Tgt Ion:106 Resp: 99542
Ion Ratio Lower Upper
106 100
91 195.2 137.4 255.2





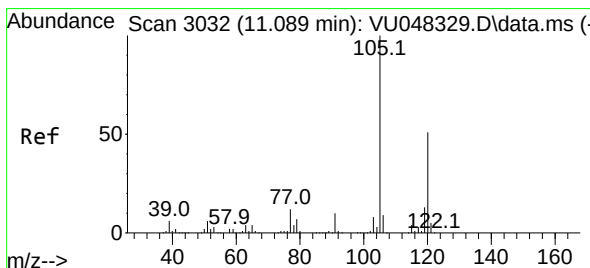
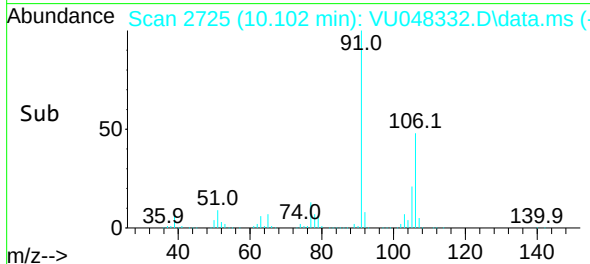
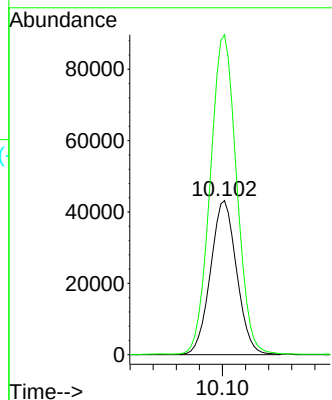
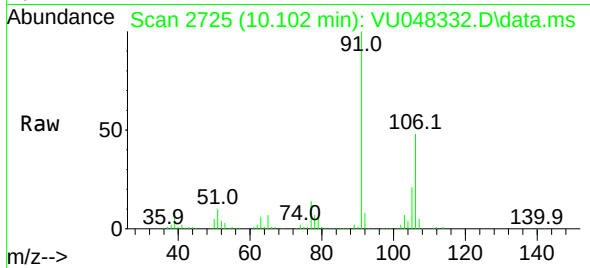
#54
o-Xylene
Concen: 12.414 ug/L
RT: 10.102 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU048332.D
Acq: 28 Apr 2022 11:42

Instrument :
MSVOA_U
ClientSampleId :
EXET0

Tgt Ion:106 Resp: 67989
Ion Ratio Lower Upper
106 100
91 207.6 145.3 269.8

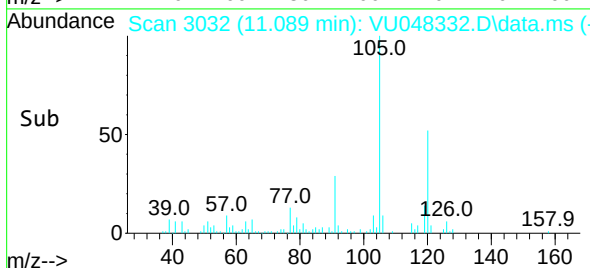
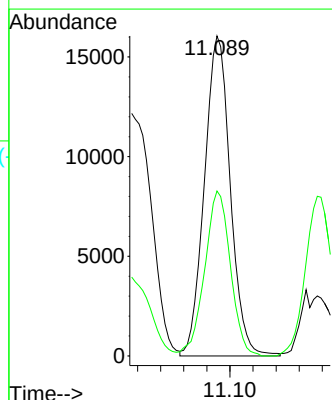
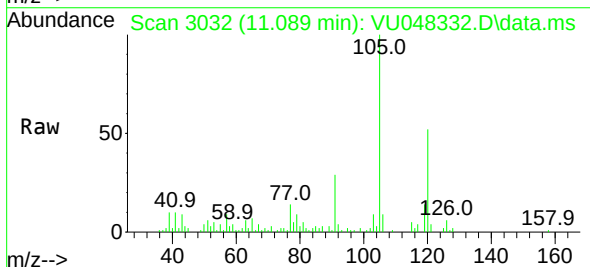
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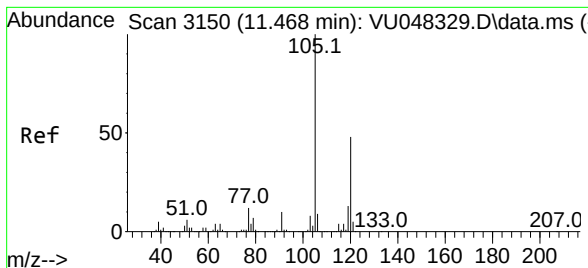
Reviewed By :John Carlone 04/29/2022
Supervised By :Mahesh Dadoda 04/29/2022



#62
1,3,5-Trimethylbenzene
Concen: 3.015 ug/L
RT: 11.089 min Scan# 3032
Delta R.T. -0.000 min
Lab File: VU048332.D
Acq: 28 Apr 2022 11:42

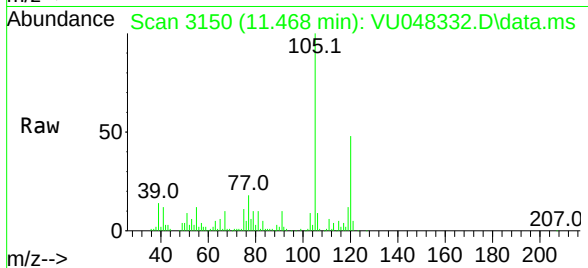
Tgt Ion:105 Resp: 25021
Ion Ratio Lower Upper
105 100
120 51.3 40.7 61.1





#63
1,2,4-Trimethylbenzene
Concen: 4.802 ug/L
RT: 11.468 min Scan# 3150
Delta R.T. -0.000 min
Lab File: VU048332.D
Acq: 28 Apr 2022 11:42

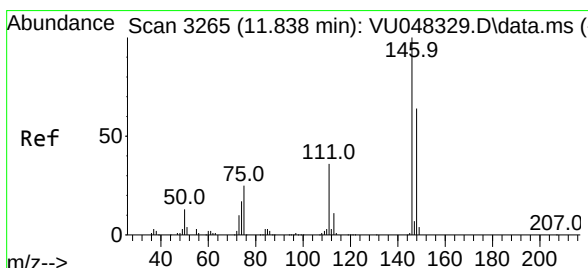
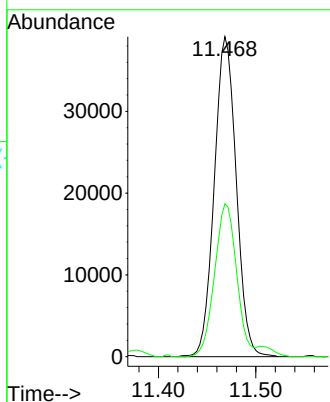
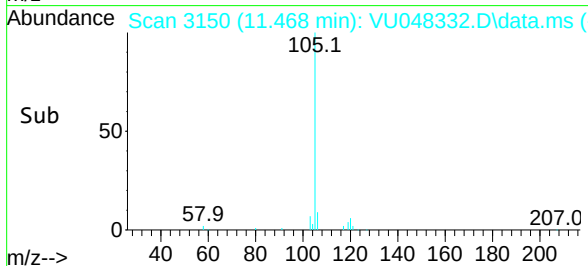
Instrument :
MSVOA_U
ClientSampleId :
EXET0



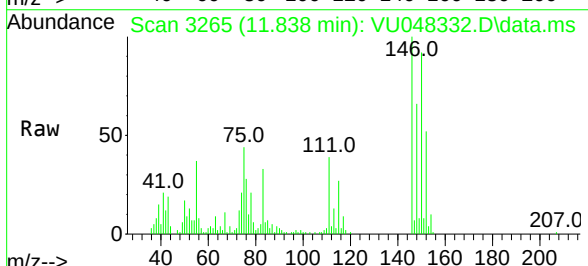
Tgt Ion:105 Resp: 6127
Ion Ratio Lower Upper
105 100
120 47.9 38.0 57.0

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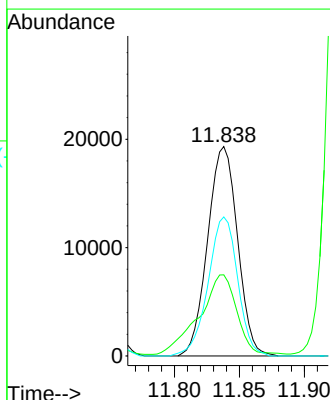
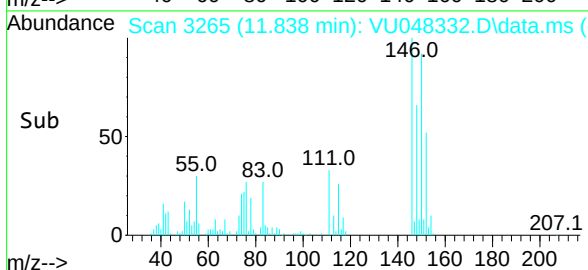
Reviewed By :John Carlone 04/29/2022
Supervised By :Mahesh Dadoda 04/29/2022

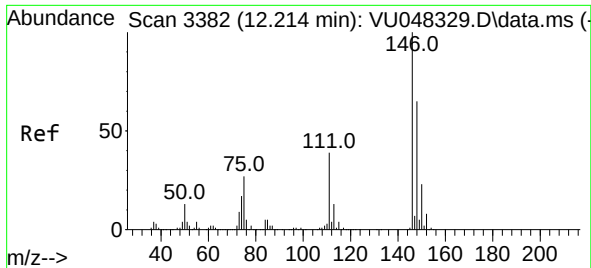


#65
1,4-Dichlorobenzene
Concen: 3.436 ug/L
RT: 11.838 min Scan# 3265
Delta R.T. -0.000 min
Lab File: VU048332.D
Acq: 28 Apr 2022 11:42



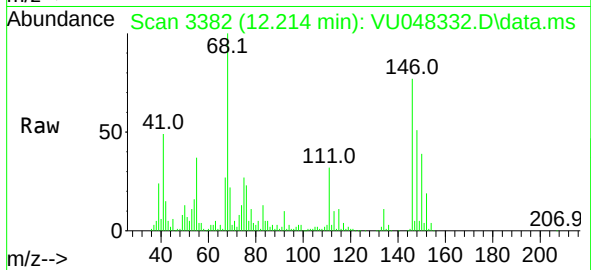
Tgt Ion:146 Resp: 30974
Ion Ratio Lower Upper
146 100
111 38.7 25.9 48.1
148 66.3 45.1 83.7





#67
 1,2-Dichlorobenzene
 Concen: 20.365 ug/L
 RT: 12.214 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: VU048332.D
 Acq: 28 Apr 2022 11:42

Instrument :
 MSVOA_U
 ClientSampleId :
 EXET0



Tgt Ion:146 Resp: 189409
 Ion Ratio Lower Upper
 146 100
 111 41.1 31.7 47.5
 148 65.8 50.9 76.3

Manual Integrations
 APPROVED

Reviewed By :John Carlone 04/29/2022
 Supervised By :Mahesh Dadoda 04/29/2022

