

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM102922\
 Data File : BM037276.D
 Acq On : 29 Oct 2022 18:14
 Operator : CG/JU
 Sample : N5273-01MSD
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 LIDEN-GAS-PIPELINEMSD

Quant Time: Oct 31 02:07:29 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM102822.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 31 01:34:15 2022
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Christian Giraldo 10/31/2022
 Supervised By : Jagrut Upadhyay 11/01/2022

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.875	152	502561	20.000	ng	0.00
21) Naphthalene-d8	10.675	136	1850228	20.000	ng	0.00
39) Acenaphthene-d10	14.504	164	924456	20.000	ng	0.00
64) Phenanthrene-d10	17.245	188	1580850	20.000	ng	0.00
76) Chrysene-d12	21.421	240	1507242	20.000	ng	0.00
86) Perylene-d12	23.780	264	1655396	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.446	112	3405419	117.067	ng	0.00
7) Phenol-d6	7.051	99	4198193	106.335	ng	0.00
23) Nitrobenzene-d5	9.045	82	2447836	66.748	ng	0.00
42) 2,4,6-Tribromophenol	15.998	330	1205030	110.610	ng	0.00
45) 2-Fluorobiphenyl	13.133	172	4422950	63.570	ng	0.00
79) Terphenyl-d14	19.862	244	4792023	57.014	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.328	88	450071	37.784	ng	99
3) Pyridine	3.734	79	1260179	35.510	ng	98
4) n-Nitrosodimethylamine	3.652	42	640176	41.273	ng	98
6) Aniline	7.204	93	1932154	40.032	ng	99
8) 2-Chlorophenol	7.440	128	1542553	43.569	ng	99
9) Benzaldehyde	7.016	77	1047431	52.413	ng	99
10) Phenol	7.075	94	1876354	42.415	ng	99
11) bis(2-Chloroethyl)ether	7.304	93	1501609	42.337	ng	99
12) 1,3-Dichlorobenzene	7.757	146	1712296	44.259	ng	99
13) 1,4-Dichlorobenzene	7.910	146	1738480	43.563	ng	99
14) 1,2-Dichlorobenzene	8.222	146	1660401	43.321	ng	98
15) Benzyl Alcohol	8.122	79	1169538m	41.434	ng	
16) 2,2'-oxybis(1-Chloropr...	8.410	45	2094132	41.415	ng	99
17) 2-Methylphenol	8.328	107	1166415	40.346	ng	99
18) Hexachloroethane	8.945	117	631460	44.868	ng	100
19) n-Nitroso-di-n-propyla...	8.692	70	1044309	38.593	ng	99
20) 3+4-Methylphenols	8.657	107	1527895	38.476	ng	99
22) Acetophenone	8.704	105	2106597	43.805	ng	# 99
24) Nitrobenzene	9.087	77	1555647	41.841	ng	98
25) Isophorone	9.610	82	2666042	43.498	ng	99
26) 2-Nitrophenol	9.792	139	752521	45.211	ng	98
27) 2,4-Dimethylphenol	9.857	122	1182581	47.874	ng	99
28) bis(2-Chloroethoxy)met...	10.092	93	1767393	46.347	ng	100
29) 2,4-Dichlorophenol	10.328	162	1207943	42.600	ng	99
30) 1,2,4-Trichlorobenzene	10.534	180	1398038	43.477	ng	98
31) Naphthalene	10.728	128	4304986	41.068	ng	100
32) Benzoic acid	10.010	122	726405	34.592	ng	98
33) 4-Chloroaniline	10.845	127	1110771	26.602	ng	99
34) Hexachlorobutadiene	10.998	225	788477	43.913	ng	99
35) Caprolactam	11.651	113	327848	38.032	ng	98
36) 4-Chloro-3-methylphenol	11.969	107	1144152	39.155	ng	99
37) 2-Methylnaphthalene	12.333	142	2834458	39.909	ng	100
38) 1-Methylnaphthalene	12.551	142	2649018	38.172	ng	100
40) 1,2,4,5-Tetrachloroben...	12.698	216	1368527	49.235	ng	99
41) Hexachlorocyclopentadiene	12.675	237	1606687	121.322	ng	99
43) 2,4,6-Trichlorophenol	12.945	196	867198	45.321	ng	99

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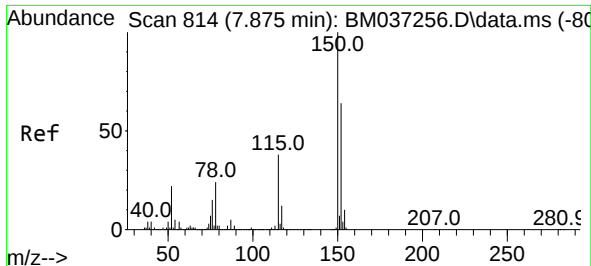
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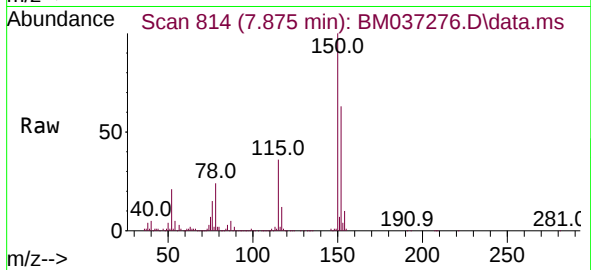
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	13.016	196	928943	44.009	ng	99
46) 1,1'-Biphenyl	13.345	154	3444425	46.171	ng	99
47) 2-Chloronaphthalene	13.386	162	2641236	44.490	ng	100
48) 2-Nitroaniline	13.598	65	724984	42.258	ng	99
49) Acenaphthylene	14.227	152	3991072	43.307	ng	100
50) Dimethylphthalate	13.974	163	2862711	40.542	ng	100
51) 2,6-Dinitrotoluene	14.098	165	626347	41.887	ng	96
52) Acenaphthene	14.569	154	2390865	41.964	ng	99
53) 3-Nitroaniline	14.427	138	506090	30.295	ng	99
54) 2,4-Dinitrophenol	14.633	184	628436	65.130	ng	93
55) Dibenzofuran	14.904	168	3626291	41.324	ng	99
56) 4-Nitrophenol	14.739	139	1125985	84.490	ng	99
57) 2,4-Dinitrotoluene	14.880	165	821930	41.772	ng	99
58) Fluorene	15.551	166	3011326	41.112	ng	100
59) 2,3,4,6-Tetrachlorophenol	15.133	232	719222	40.653	ng	99
60) Diethylphthalate	15.333	149	2756260	40.161	ng	99
61) 4-Chlorophenyl-phenyle...	15.545	204	1440437	42.506	ng	99
62) 4-Nitroaniline	15.586	138	640054	38.203	ng	99
63) Azobenzene	15.839	77	2741024	40.542	ng	99
65) 4,6-Dinitro-2-methylph...	15.639	198	389383	36.633	ng	99
66) n-Nitrosodiphenylamine	15.768	169	2396620	44.852	ng	99
67) 4-Bromophenyl-phenylether	16.439	248	814520	45.914	ng	98
68) Hexachlorobenzene	16.551	284	959555	44.695	ng	98
69) Atrazine	16.715	200	741610	55.160	ng	100
70) Pentachlorophenol	16.898	266	1141380	91.365	ng	98
71) Phenanthrene	17.292	178	4196475	42.787	ng	100
72) Anthracene	17.380	178	4142338	44.613	ng	100
73) Carbazole	17.657	167	3750234	44.032	ng	100
74) Di-n-butylphthalate	18.215	149	4408561	46.877	ng	100
75) Fluoranthene	19.304	202	4510163	43.503	ng	99
77) Benzidine	19.498	184	2473369	110.049	ng	100
78) Pyrene	19.662	202	4648462	40.107	ng	99
80) Butylbenzylphthalate	20.562	149	1883189	45.497	ng	99
81) Benzo(a)anthracene	21.403	228	4553105	42.431	ng	100
82) 3,3'-Dichlorobenzidine	21.345	252	1589283	50.427	ng	99
83) Chrysene	21.456	228	4287879	41.476	ng	100
84) Bis(2-ethylhexyl)phtha...	21.333	149	2836639	51.061	ng	# 97
85) Di-n-octyl phthalate	22.239	149	4722512	53.977	ng	100
87) Indeno(1,2,3-cd)pyrene	26.227	276	6153917	45.403	ng	100
88) Benzo(b)fluoranthene	23.062	252	5090087	44.290	ng	99
89) Benzo(k)fluoranthene	23.109	252	4986942	42.541	ng	99
90) Benzo(a)pyrene	23.680	252	4491815	47.969	ng	99
91) Dibenzo(a,h)anthracene	26.244	278	5244963	46.598	ng	100
92) Benzo(g,h,i)perylene	26.980	276	5023673	45.859	ng	100

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



#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.875 min Scan# 814
Delta R.T. -0.000 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

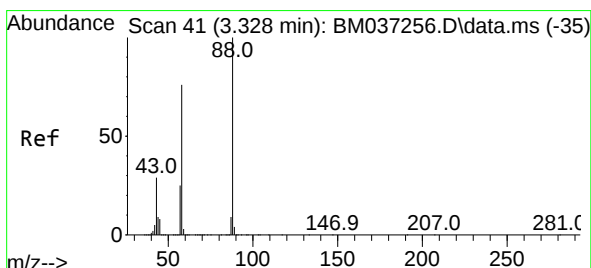
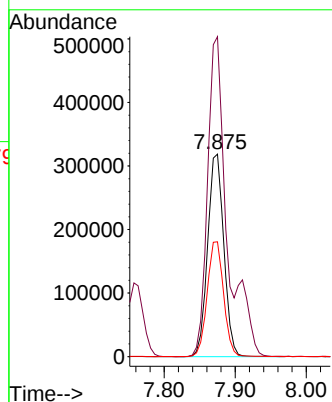
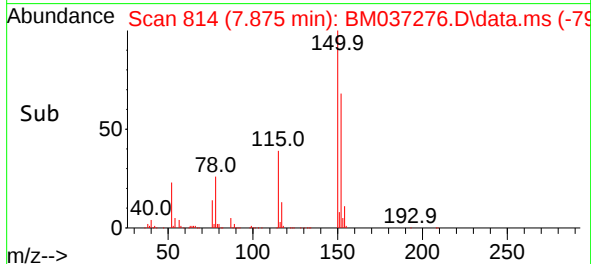
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMSD



Tgt Ion:152 Resp: 502563
Ion Ratio Lower Upper
152 100
150 158.0 124.8 187.2
115 56.7 47.0 70.4

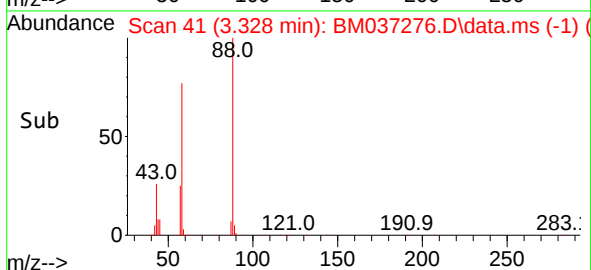
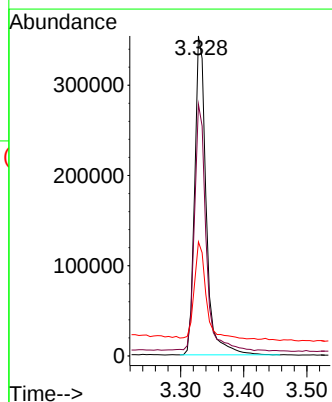
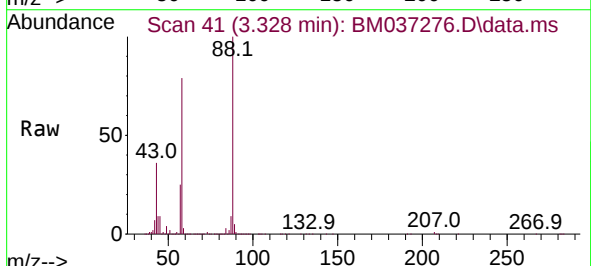
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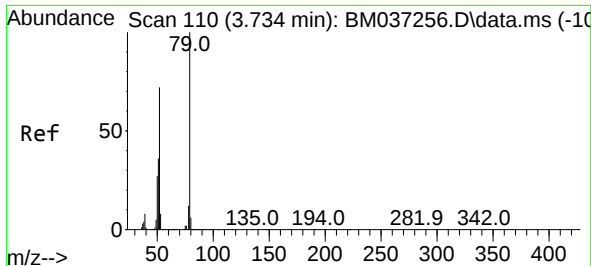
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022



#2
1,4-Dioxane
Concen: 37.784 ng
RT: 3.328 min Scan# 41
Delta R.T. 0.000 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

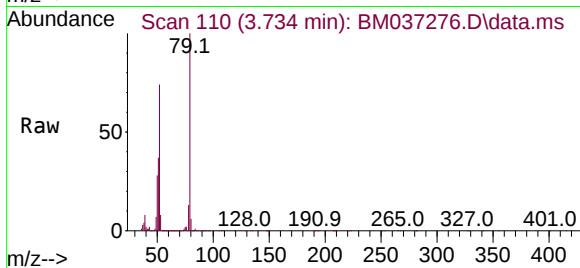
Tgt Ion: 88 Resp: 450071
Ion Ratio Lower Upper
88 100
58 78.9 63.5 95.3
43 31.4 24.2 36.4





#3
Pyridine
Concen: 35.510 ng
RT: 3.734 min Scan# 110
Delta R.T. -0.000 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

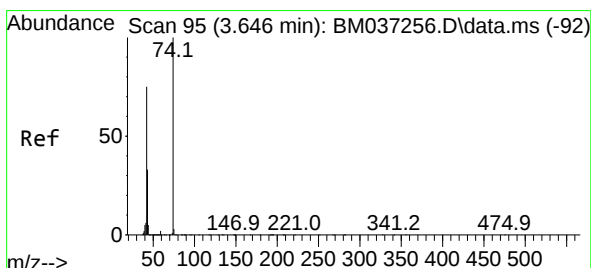
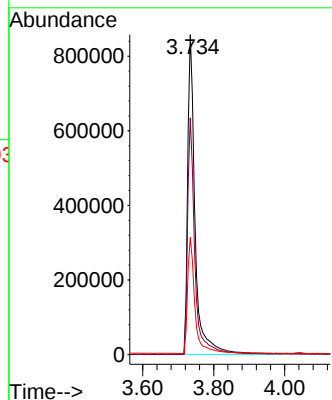
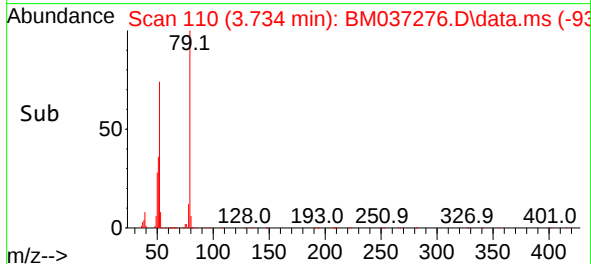
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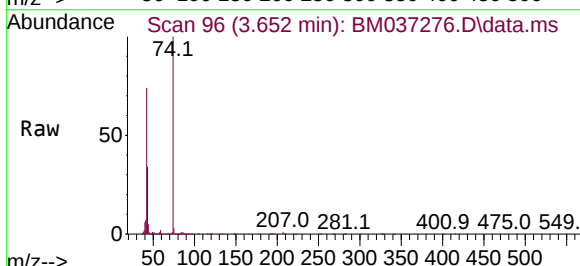
Tgt Ion: 79 Resp: 1260179
Ion Ratio Lower Upper
79 100
52 74.0 57.8 86.6
51 36.6 29.0 43.6

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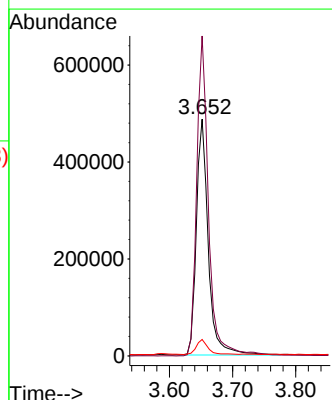
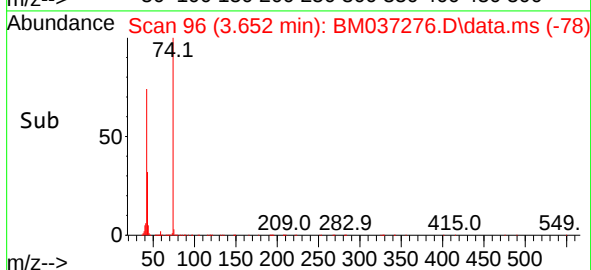
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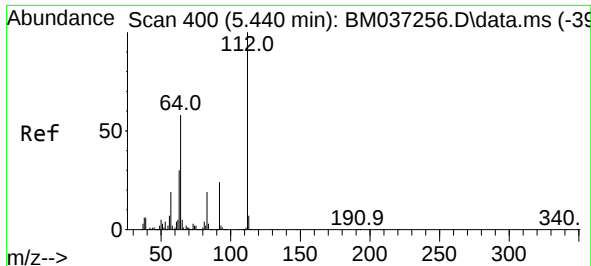


#4
n-Nitrosodimethylamine
Concen: 41.273 ng
RT: 3.652 min Scan# 96
Delta R.T. 0.006 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14



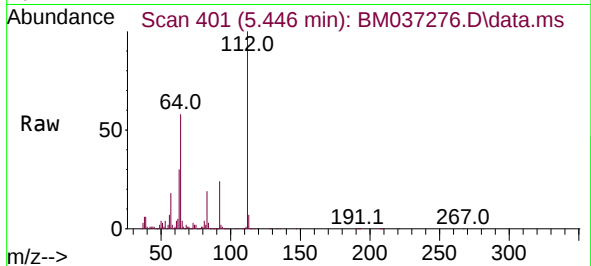
Tgt Ion: 42 Resp: 640176
Ion Ratio Lower Upper
42 100
74 135.1 106.2 159.2
44 7.0 5.4 8.0





#5
2-Fluorophenol
Concen: 117.067 ng
RT: 5.446 min Scan# 400
Delta R.T. 0.006 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

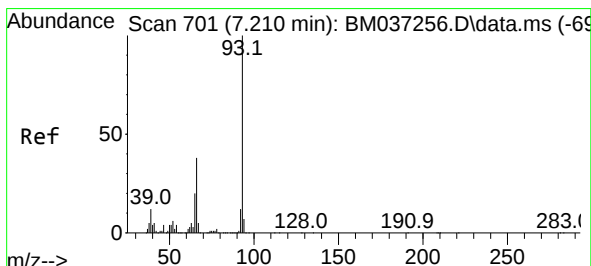
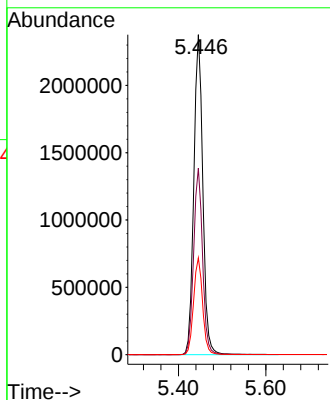
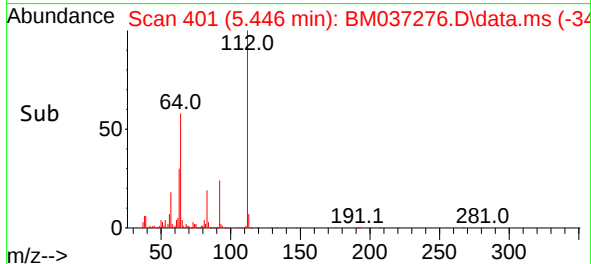
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Tgt Ion:112 Resp: 3405419
Ion Ratio Lower Upper
112 100
64 58.3 46.8 70.2
63 30.2 24.4 36.6

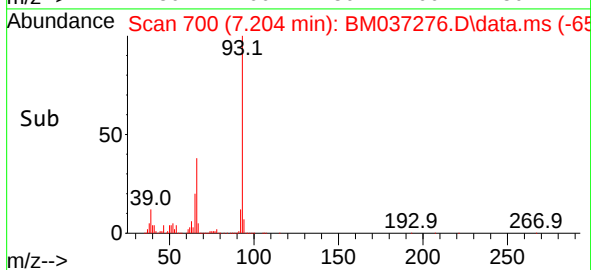
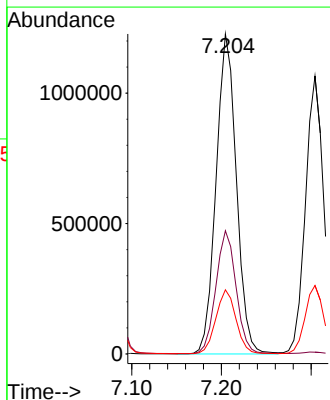
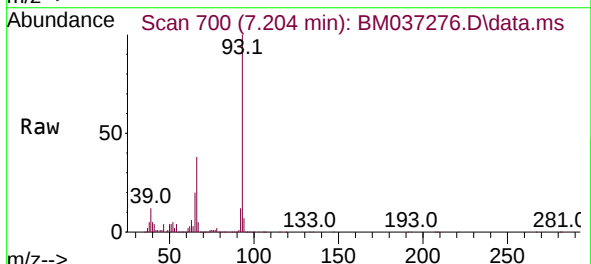
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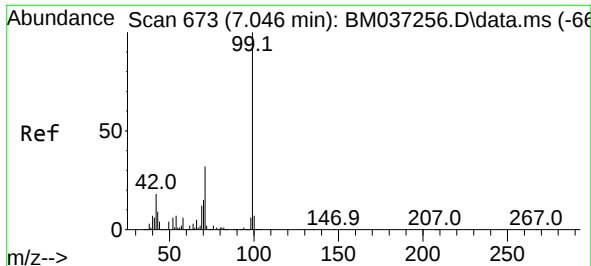
Reviewed By :Christian Giraldo 10/31/2022
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#6
Aniline
Concen: 40.032 ng
RT: 7.204 min Scan# 700
Delta R.T. -0.006 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

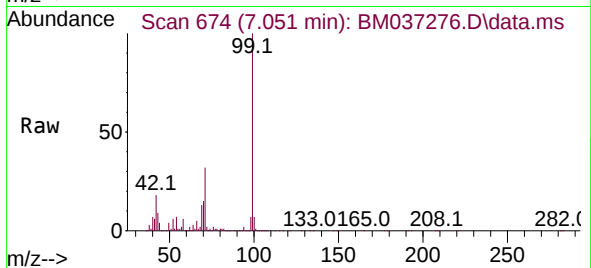
Tgt Ion: 93 Resp: 1932154
Ion Ratio Lower Upper
93 100
66 38.5 30.4 45.6
65 20.0 16.2 24.2





#7
Phenol-d6
Concen: 106.335 ng
RT: 7.051 min Scan# 61
Delta R.T. 0.005 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

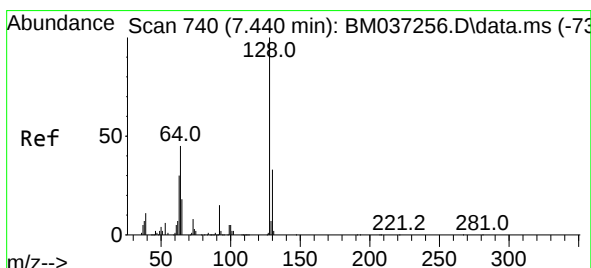
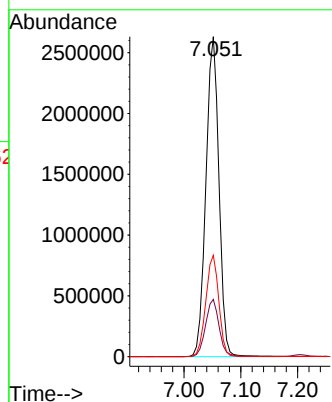
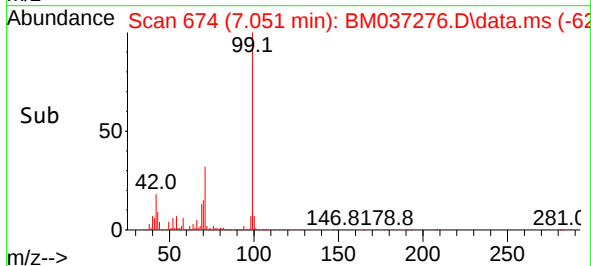
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ClientSampleId :
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Tgt Ion: 99 Resp: 4198193
Ion Ratio Lower Upper
99 100
42 17.9 14.8 22.2
71 31.7 25.6 38.4

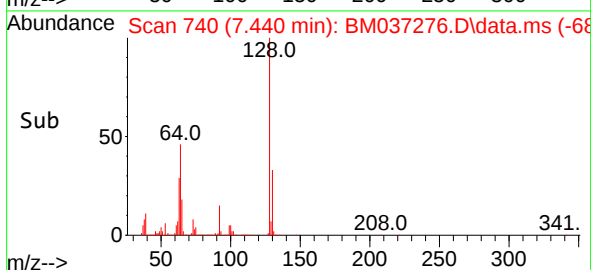
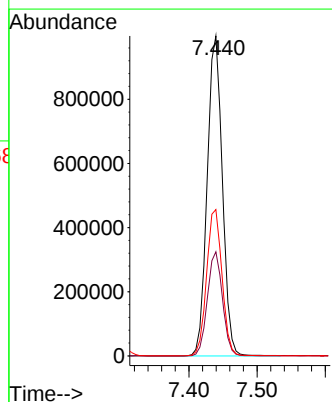
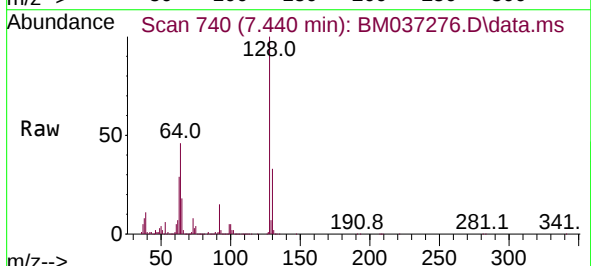
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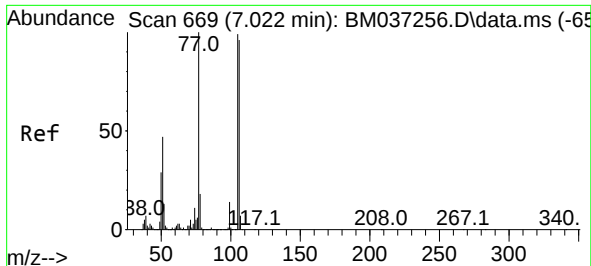
Reviewed By :Christian Giraldo 10/31/2022
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#8
2-Chlorophenol
Concen: 43.569 ng
RT: 7.440 min Scan# 740
Delta R.T. -0.000 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

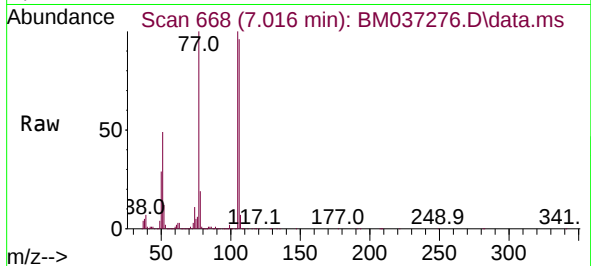
Tgt Ion:128 Resp: 1542553
Ion Ratio Lower Upper
128 100
130 32.5 12.7 52.7
64 45.7 26.4 66.4





#9
Benzaldehyde
Concen: 52.413 ng
RT: 7.016 min Scan# 60
Delta R.T. -0.006 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

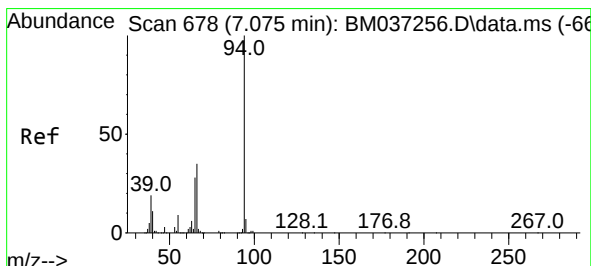
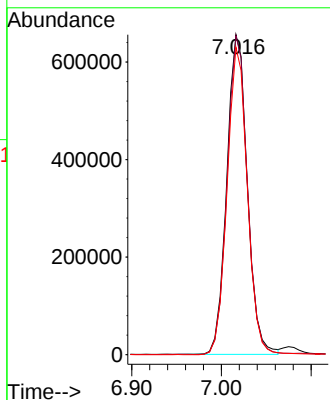
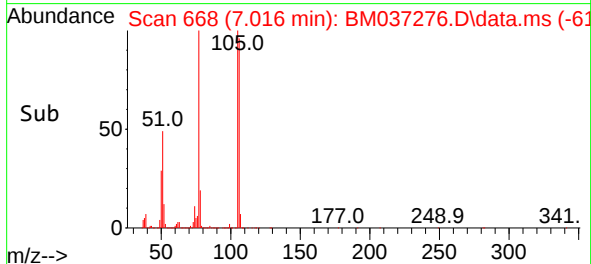
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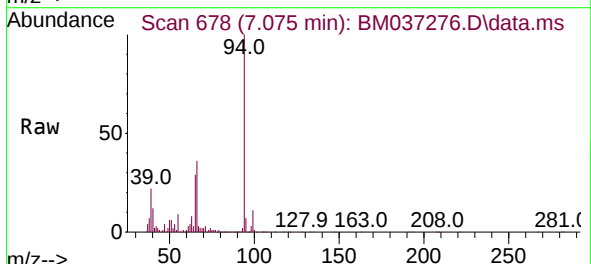
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Ion Ratio Lower Upper
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105 99.6 78.6 118.6
106 96.1 75.8 115.8

Manual Integrations
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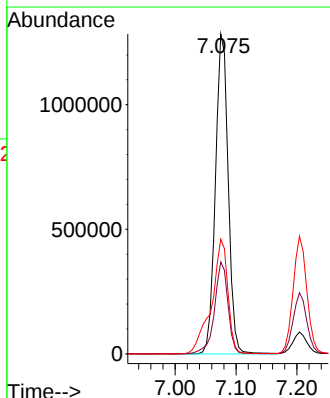
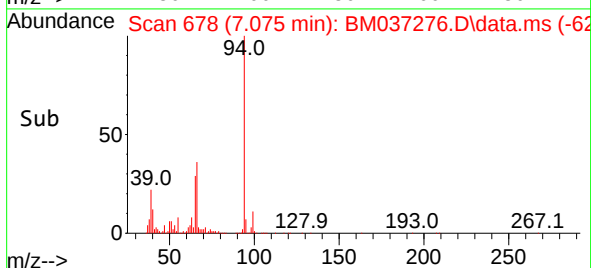
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022

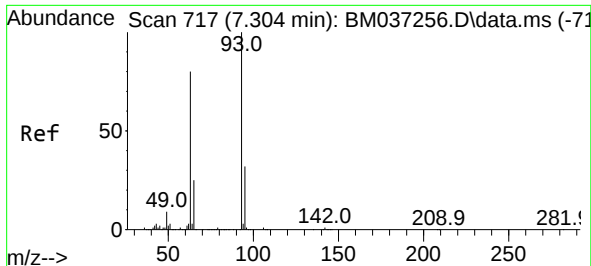


#10
Phenol
Concen: 42.415 ng
RT: 7.075 min Scan# 678
Delta R.T. -0.000 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14



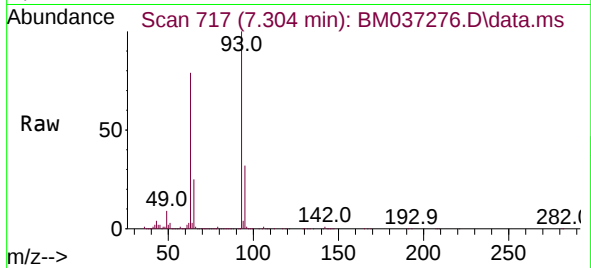
Tgt Ion: 94 Resp: 1876354
Ion Ratio Lower Upper
94 100
65 28.7 8.1 48.1
66 35.8 15.5 55.5





#11
bis(2-Chloroethyl)ether
Concen: 42.337 ng
RT: 7.304 min Scan# 717
Delta R.T. -0.000 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

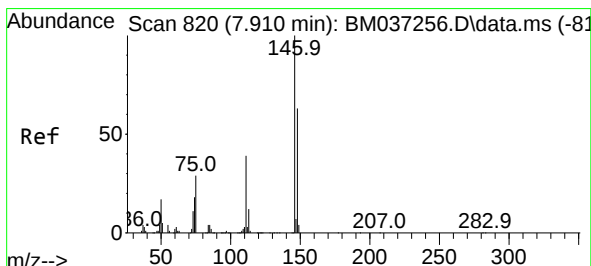
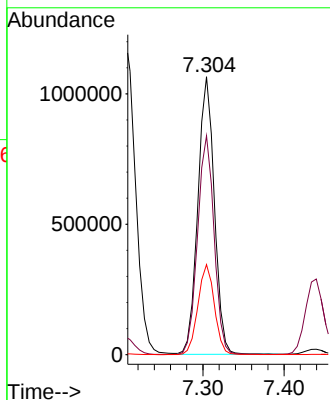
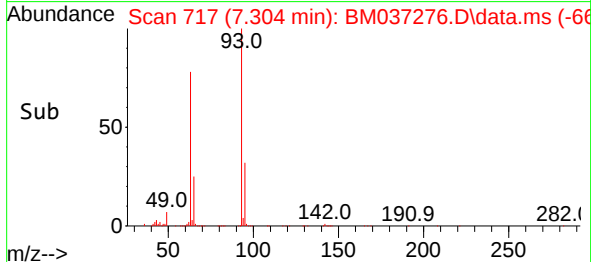
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMSD



Tgt Ion: 93 Resp: 1501609
Ion Ratio Lower Upper
93 100
63 78.8 59.3 99.3
95 32.4 12.0 52.0

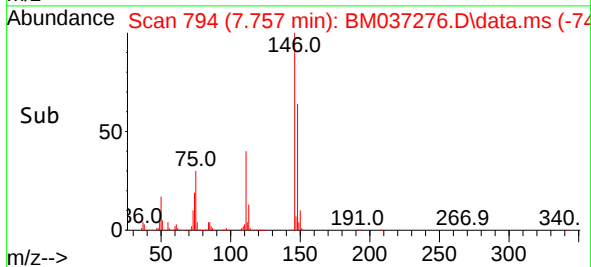
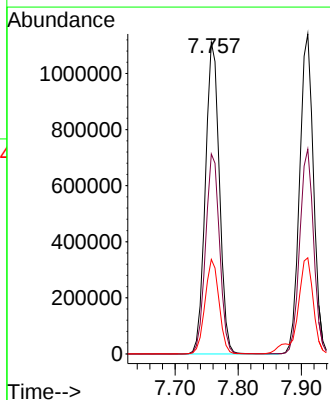
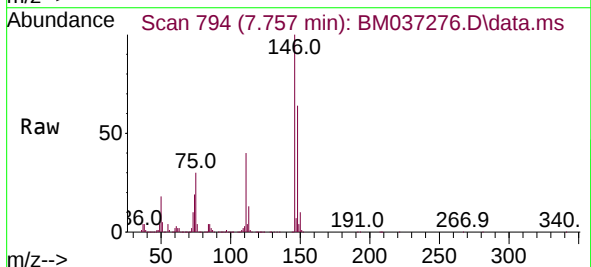
Manual Integrations
APPROVED

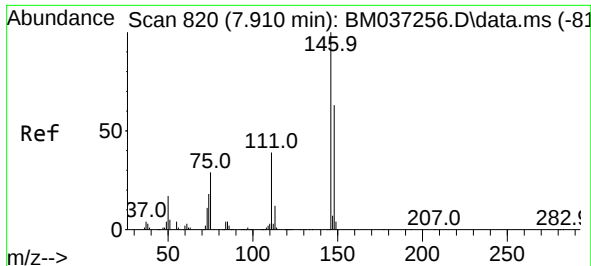
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022



#12
1,3-Dichlorobenzene
Concen: 44.259 ng
RT: 7.757 min Scan# 794
Delta R.T. -0.006 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

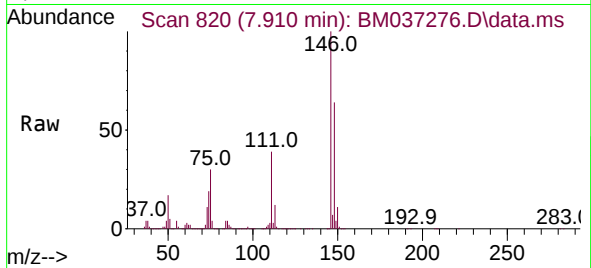
Tgt Ion:146 Resp: 1712296
Ion Ratio Lower Upper
146 100
148 64.2 50.5 75.7
75 30.3 24.5 36.7





#13
1,4-Dichlorobenzene
Concen: 43.563 ng
RT: 7.910 min Scan# 81
Delta R.T. -0.000 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

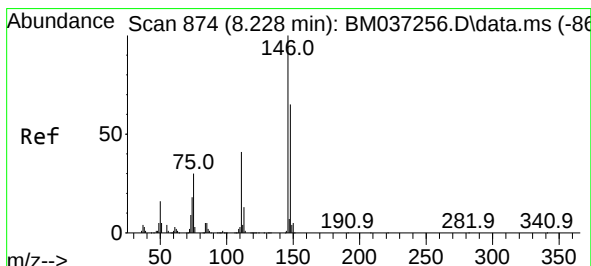
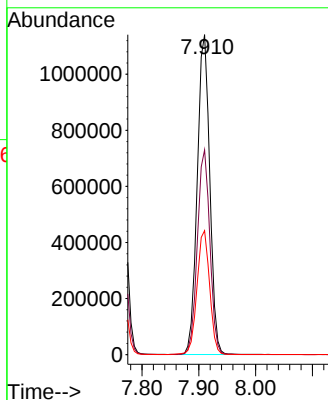
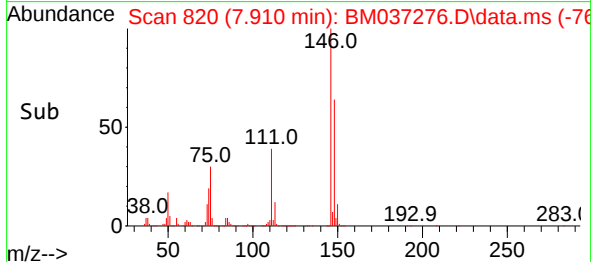
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMSD



Tgt Ion:146 Resp: 1738480
Ion Ratio Lower Upper
146 100
148 64.0 50.5 75.7
111 38.7 31.1 46.7

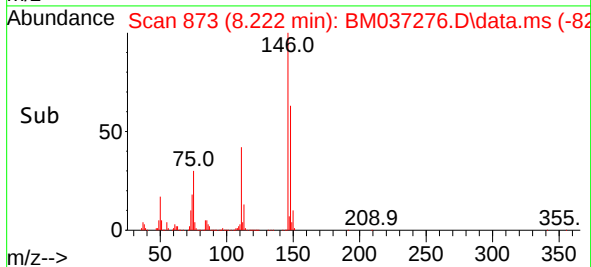
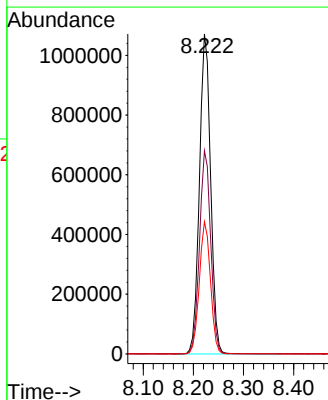
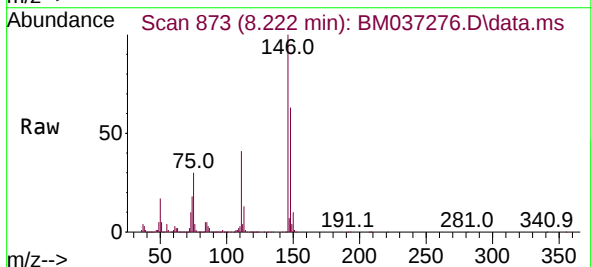
Manual Integrations
APPROVED

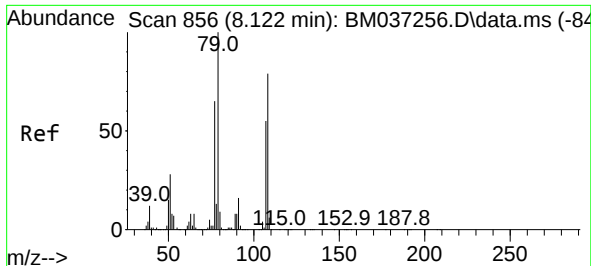
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022



#14
1,2-Dichlorobenzene
Concen: 43.321 ng
RT: 8.222 min Scan# 873
Delta R.T. -0.006 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

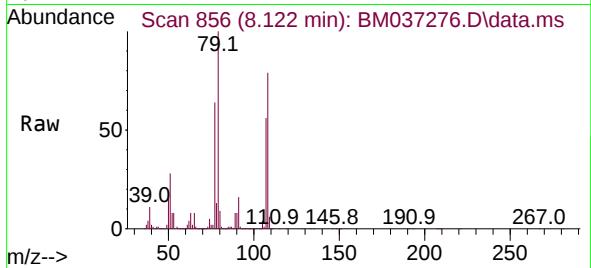
Tgt Ion:146 Resp: 1660401
Ion Ratio Lower Upper
146 100
148 63.5 52.4 78.6
111 41.3 33.0 49.6





#15
Benzyl Alcohol
Concen: 41.434 ng m
RT: 8.122 min Scan# 856
Delta R.T. -0.000 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

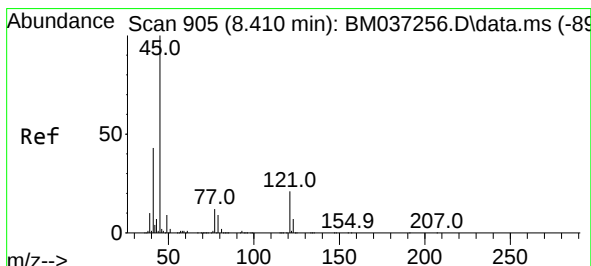
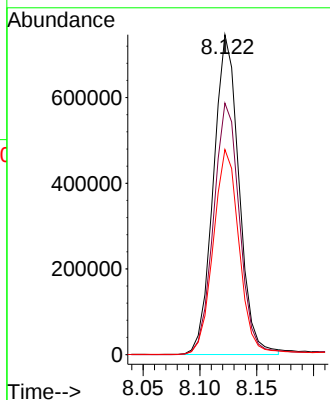
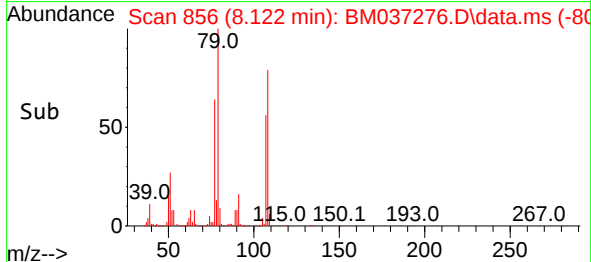
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMSD



Tgt Ion: 79 Resp: 1169538
Ion Ratio Lower Upper
79 100
108 78.6 63.1 94.7
77 64.1 51.7 77.5

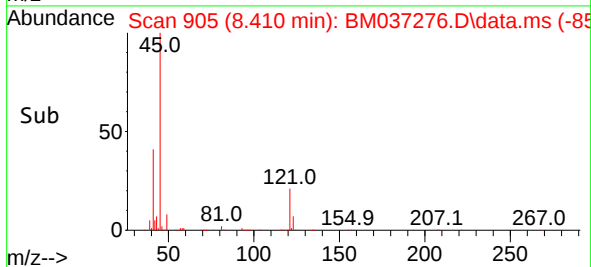
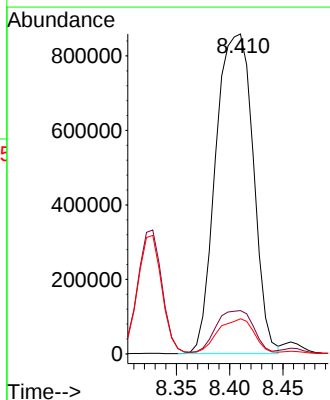
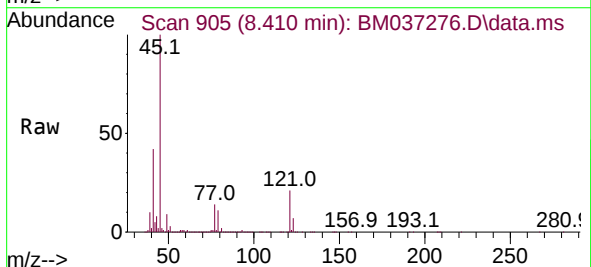
Manual Integrations
APPROVED

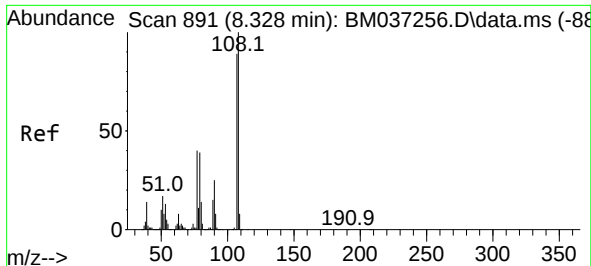
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022



#16
2,2'-oxybis(1-Chloropropane)
Concen: 41.415 ng
RT: 8.410 min Scan# 905
Delta R.T. -0.000 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

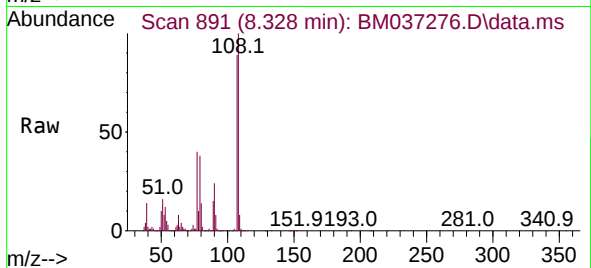
Tgt Ion: 45 Resp: 2094132
Ion Ratio Lower Upper
45 100
77 13.5 0.0 34.0
79 11.0 0.0 30.6





#17
2-Methylphenol
Concen: 40.346 ng
RT: 8.328 min Scan# 891
Delta R.T. -0.000 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

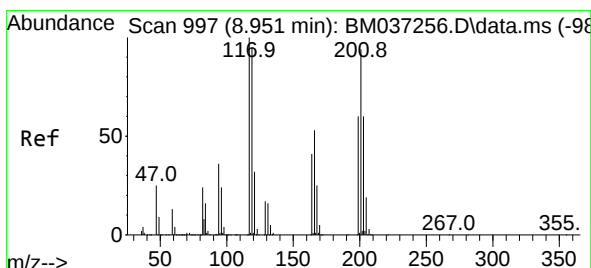
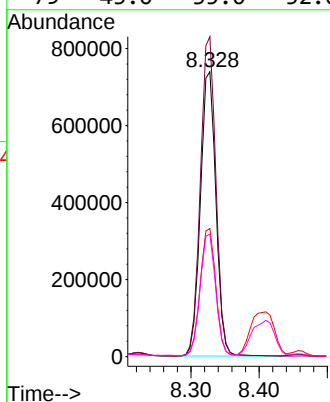
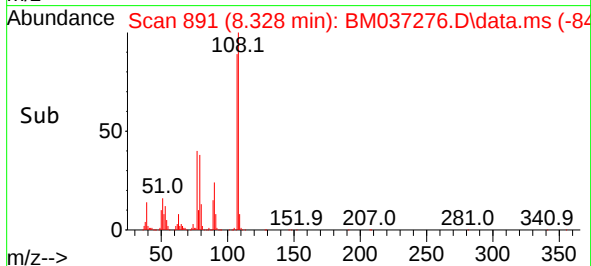
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMSD



Tgt Ion:107 Resp: 1166415
Ion Ratio Lower Upper
107 100
108 112.4 89.5 134.3
77 45.0 36.2 54.2
79 43.0 35.0 52.6

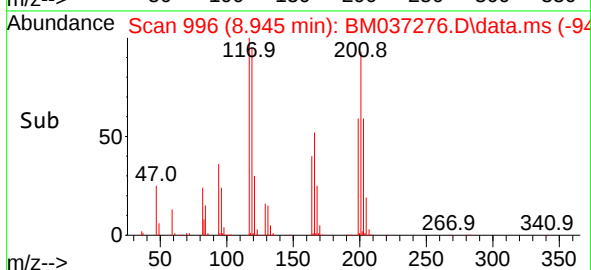
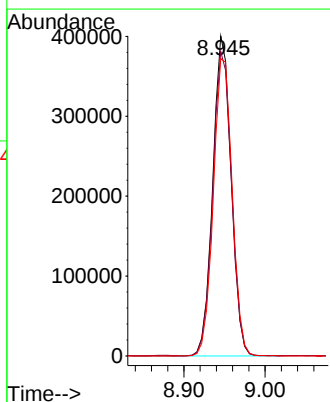
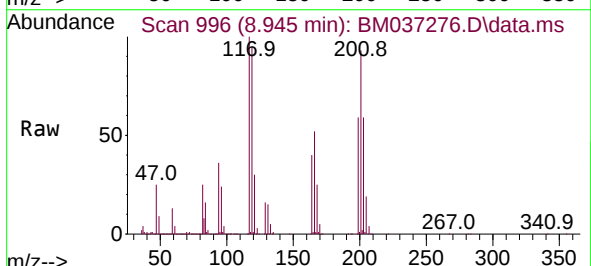
Manual Integrations
APPROVED

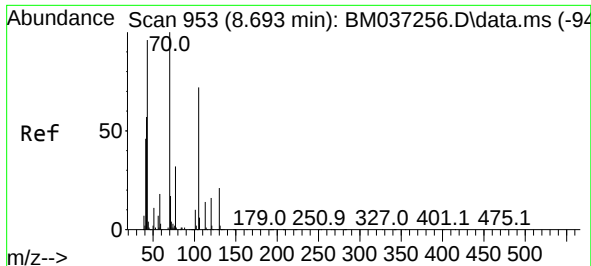
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022



#18
Hexachloroethane
Concen: 44.868 ng
RT: 8.945 min Scan# 996
Delta R.T. -0.006 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

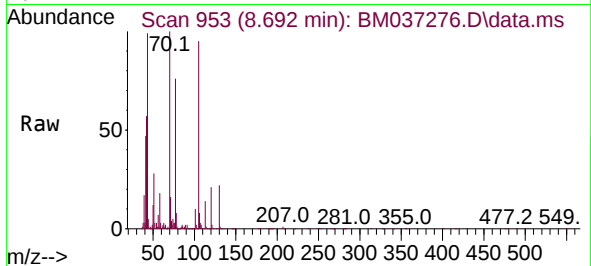
Tgt Ion:117 Resp: 631460
Ion Ratio Lower Upper
117 100
119 95.1 75.9 113.9
201 92.9 75.0 112.4





#19
n-Nitroso-di-n-propylamine
Concen: 38.593 ng
RT: 8.692 min Scan# 953
Delta R.T. -0.001 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

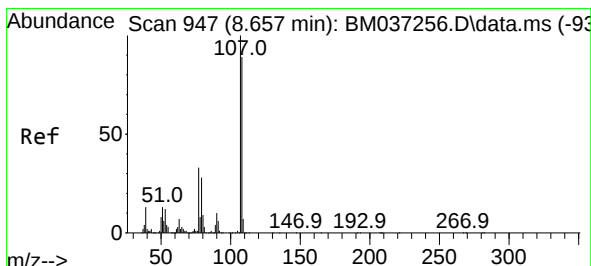
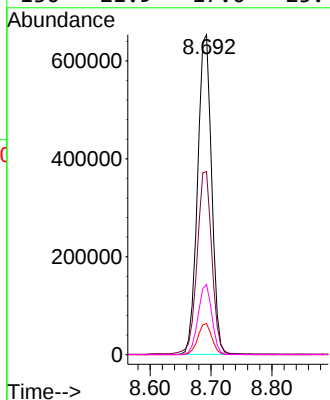
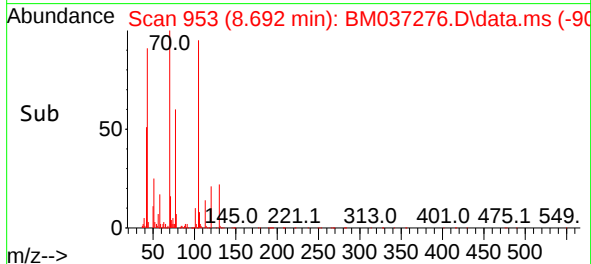
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMSD



Tgt Ion: 70 Resp: 1044309
Ion Ratio Lower Upper
70 100
42 57.2 46.4 69.6
101 9.7 7.8 11.8
130 21.9 17.0 25.4

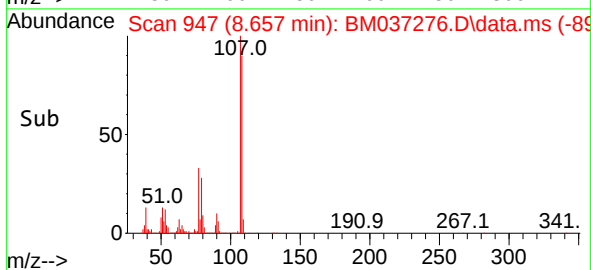
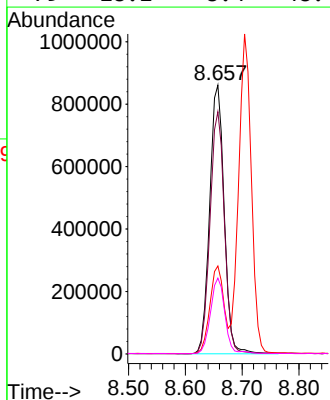
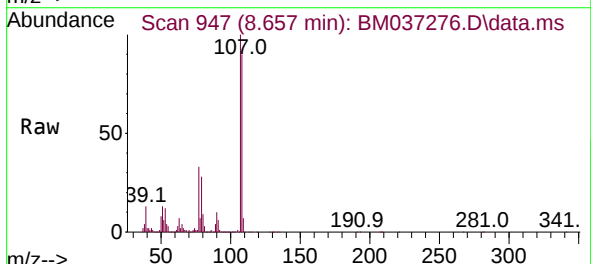
Manual Integrations
APPROVED

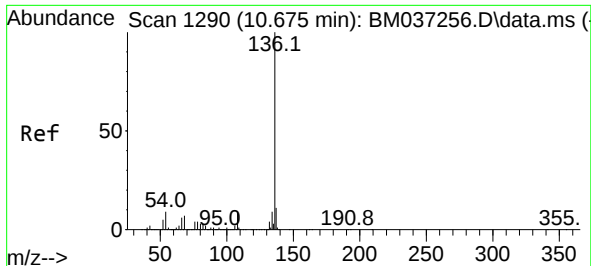
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022



#20
3+4-Methylphenols
Concen: 38.476 ng
RT: 8.657 min Scan# 947
Delta R.T. -0.000 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

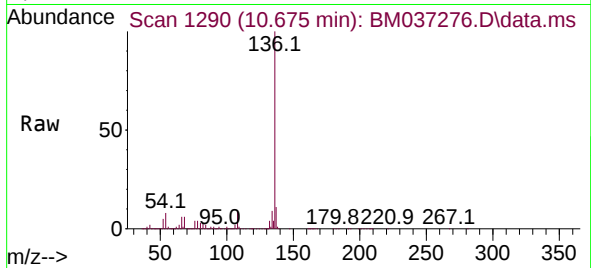
Tgt Ion:107 Resp: 1527895
Ion Ratio Lower Upper
107 100
108 90.1 69.4 109.4
77 32.7 12.8 52.8
79 28.2 8.4 48.4





#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.675 min Scan# 1290
Delta R.T. -0.000 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

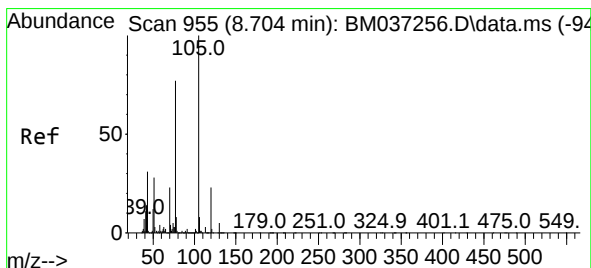
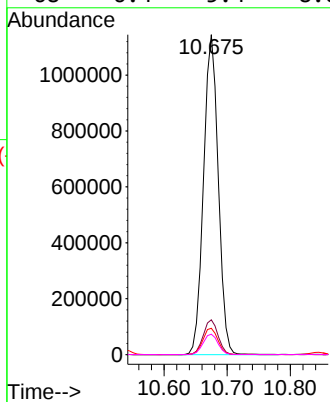
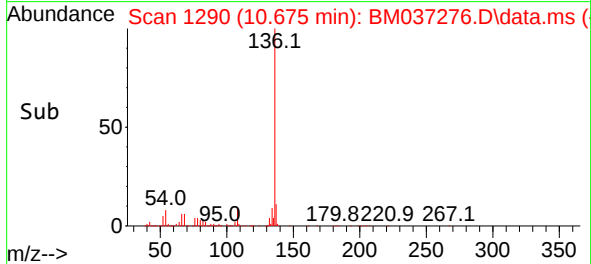
Instrument : BNA_M
ClientSampleId : LIDEN-GAS-PIPELINEMSD



Tgt Ion:136 Resp: 1850228
Ion Ratio Lower Upper
136 100
137 10.9 9.0 13.4
54 8.2 7.0 10.4
68 6.4 5.4 8.0

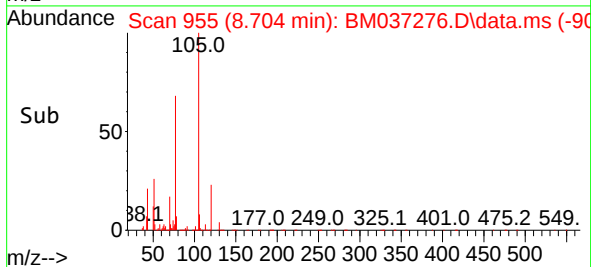
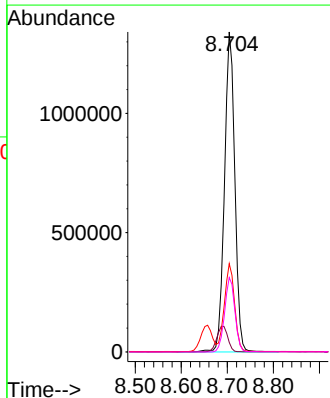
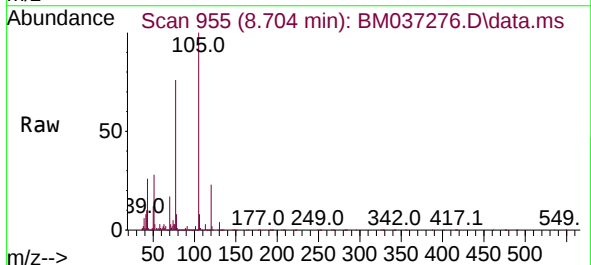
Manual Integrations
APPROVED

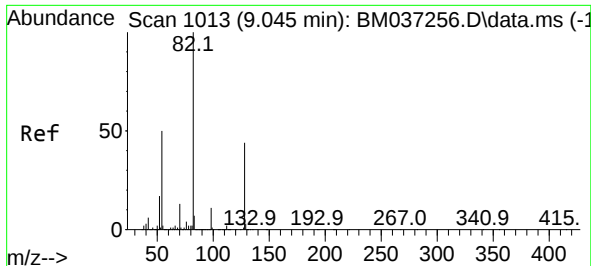
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022



#22
Acetophenone
Concen: 43.805 ng
RT: 8.704 min Scan# 955
Delta R.T. -0.000 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

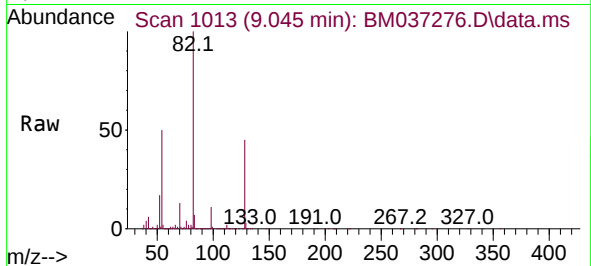
Tgt Ion:105 Resp: 2106597
Ion Ratio Lower Upper
105 100
71 3.0 3.0 4.4#
51 27.6 22.1 33.1
120 23.2 18.2 27.2





#23
Nitrobenzene-d5
Concen: 66.748 ng
RT: 9.045 min Scan# 1013
Delta R.T. 0.000 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

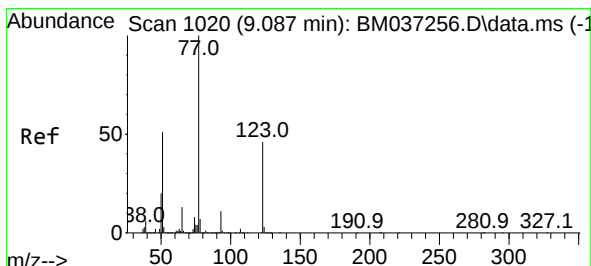
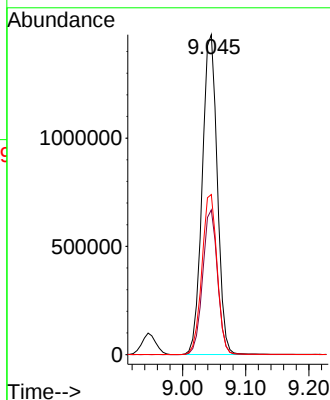
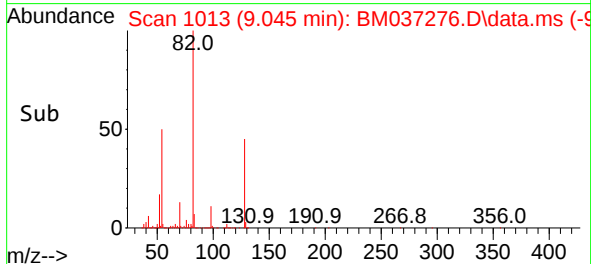
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMSD



Tgt Ion: 82 Resp: 2447836
Ion Ratio Lower Upper
82 100
128 45.2 35.2 52.8
54 50.0 40.4 60.6

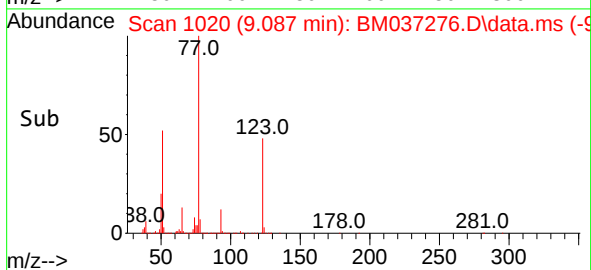
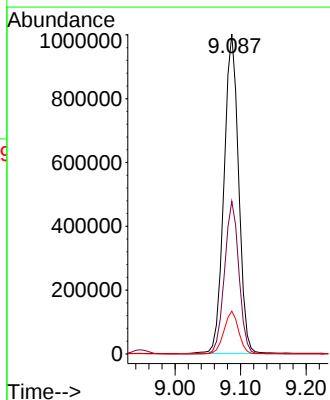
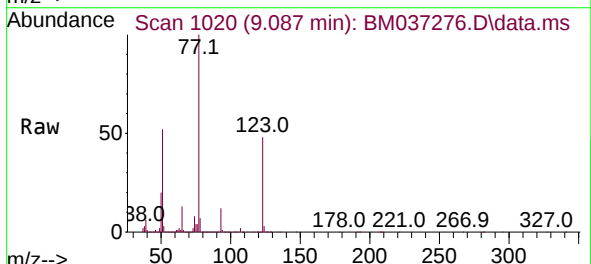
Manual Integrations
APPROVED

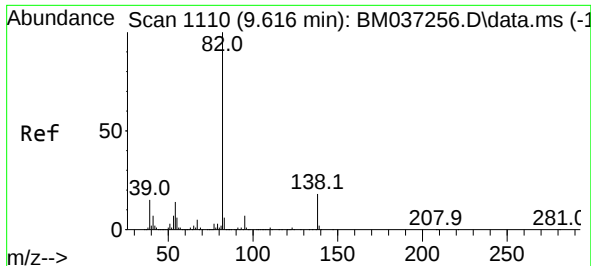
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022



#24
Nitrobenzene
Concen: 41.841 ng
RT: 9.087 min Scan# 1020
Delta R.T. -0.000 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

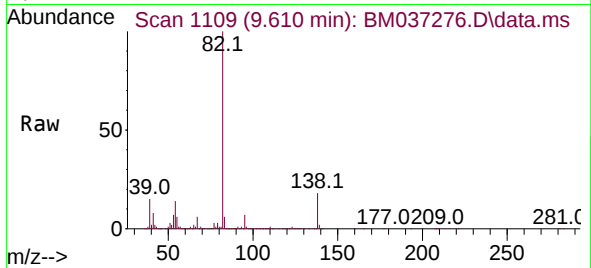
Tgt Ion: 77 Resp: 1555647
Ion Ratio Lower Upper
77 100
123 47.7 36.6 55.0
65 13.4 10.6 16.0





#25
Isophorone
Concen: 43.498 ng
RT: 9.610 min Scan# 1110
Delta R.T. -0.006 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

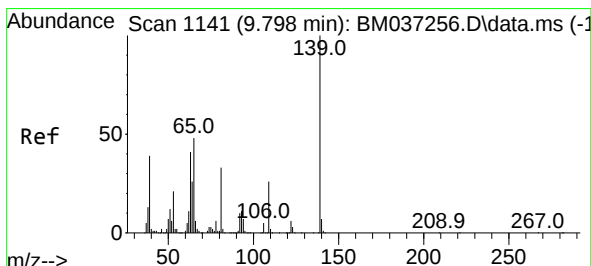
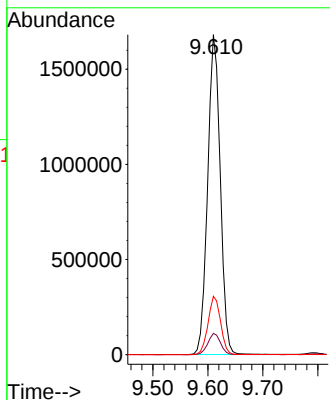
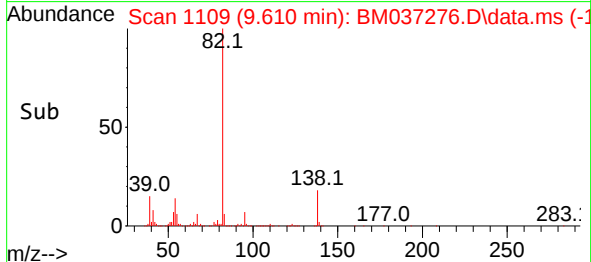
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMSD



Tgt Ion: 82 Resp: 266604
Ion Ratio Lower Upper
82 100
95 6.6 5.4 8.0
138 18.2 14.2 21.4

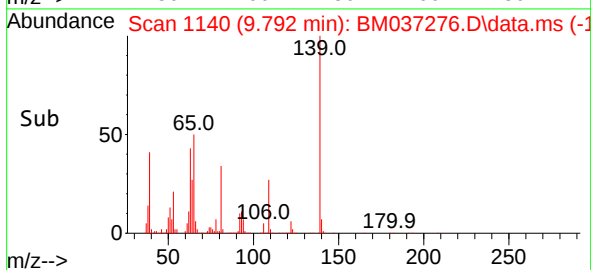
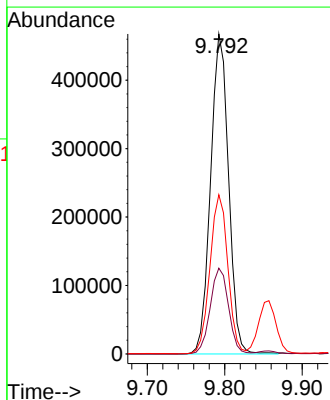
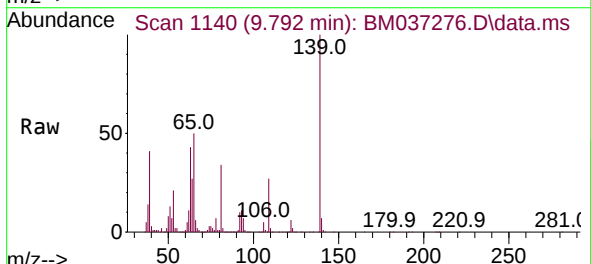
Manual Integrations
APPROVED

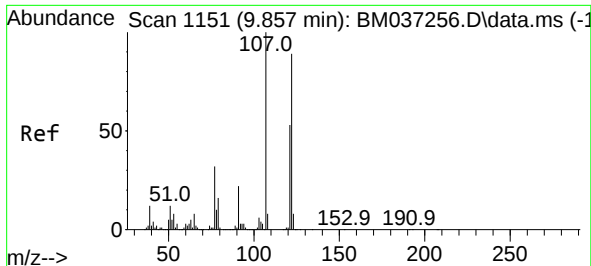
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022



#26
2-Nitrophenol
Concen: 45.211 ng
RT: 9.792 min Scan# 1140
Delta R.T. -0.006 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

Tgt Ion:139 Resp: 752521
Ion Ratio Lower Upper
139 100
109 26.8 21.1 31.7
65 49.7 38.6 58.0





#27

2,4-Dimethylphenol

Concen: 47.874 ng

RT: 9.857 min Scan# 1151

Delta R.T. -0.000 min

Lab File: BM037276.D

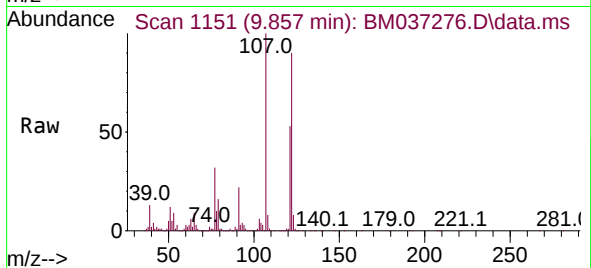
Acq: 29 Oct 2022 18:14

Instrument :

BNA_M

ClientSampleId :

LIDEN-GAS-PIPELINEMSD



Tgt Ion:122 Resp: 118258

Ion Ratio Lower Upper

122 100

107 111.4 89.7 134.5

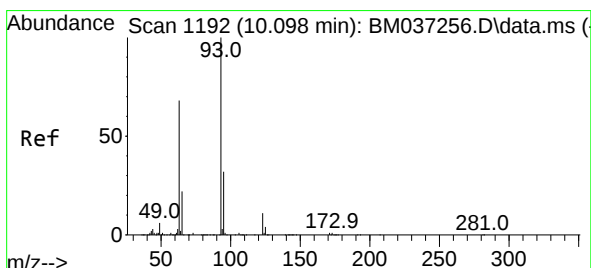
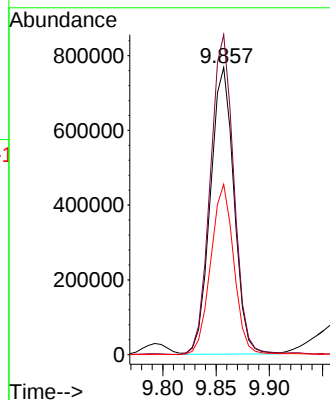
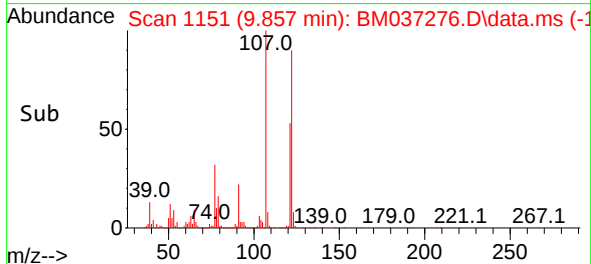
121 59.3 47.1 70.7

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 10/31/2022

Supervised By :Jagrut Upadhyay 11/01/2022



#28

bis(2-Chloroethoxy)methane

Concen: 46.347 ng

RT: 10.092 min Scan# 1191

Delta R.T. -0.006 min

Lab File: BM037276.D

Acq: 29 Oct 2022 18:14

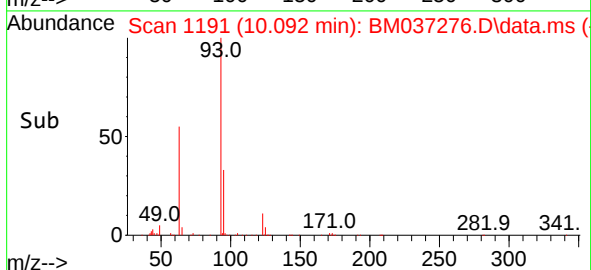
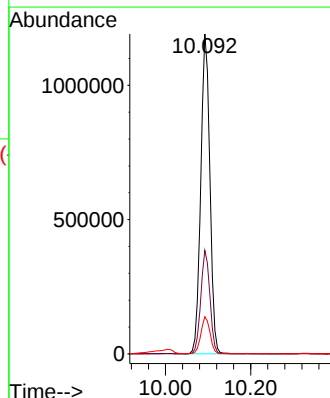
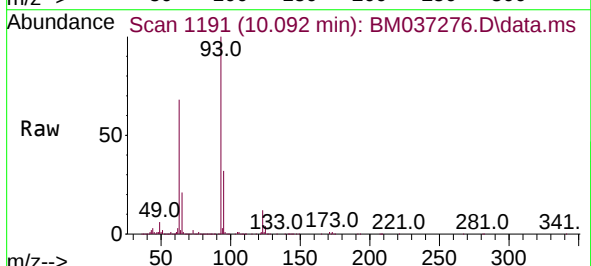
Tgt Ion: 93 Resp: 1767393

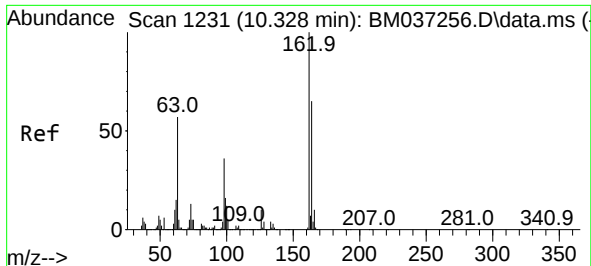
Ion Ratio Lower Upper

93 100

95 32.3 25.8 38.8

123 11.6 9.3 13.9





#29

2,4-Dichlorophenol

Concen: 42.600 ng

RT: 10.328 min Scan# 1231

Delta R.T. -0.000 min

Lab File: BM037276.D

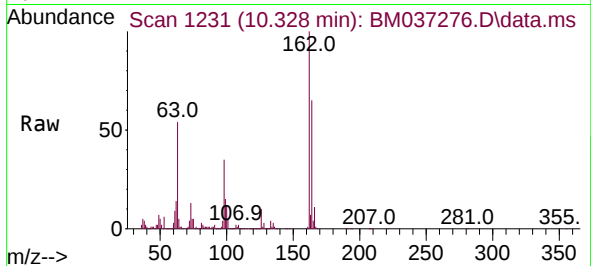
Acq: 29 Oct 2022 18:14

Instrument :

BNA_M

ClientSampleId :

LIDEN-GAS-PIPELINEMSD



Tgt Ion:162 Resp: 1207943

Ion Ratio Lower Upper

162 100

164 64.6 45.0 85.0

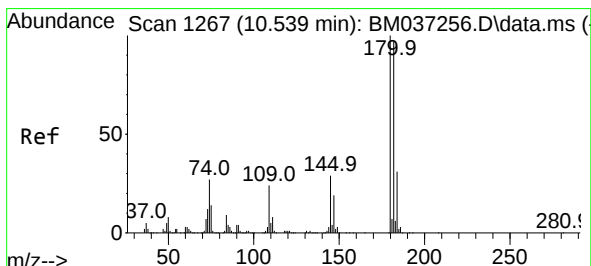
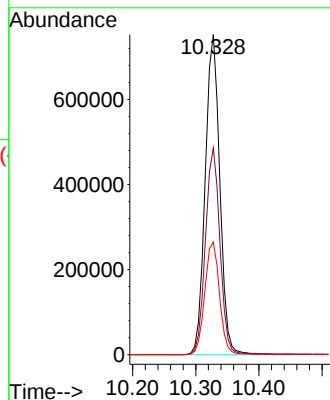
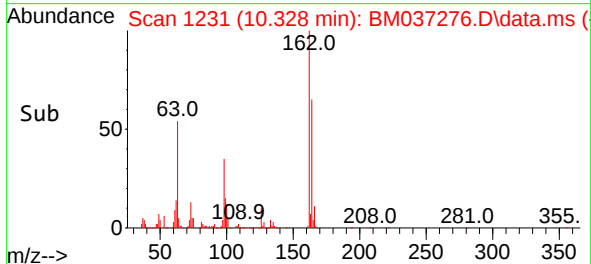
98 35.2 16.2 56.2

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 10/31/2022

Supervised By :Jagrut Upadhyay 11/01/2022



#30

1,2,4-Trichlorobenzene

Concen: 43.477 ng

RT: 10.534 min Scan# 1266

Delta R.T. -0.005 min

Lab File: BM037276.D

Acq: 29 Oct 2022 18:14

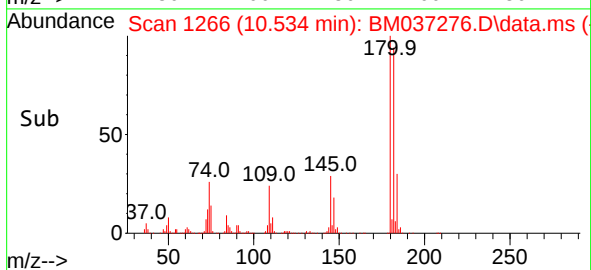
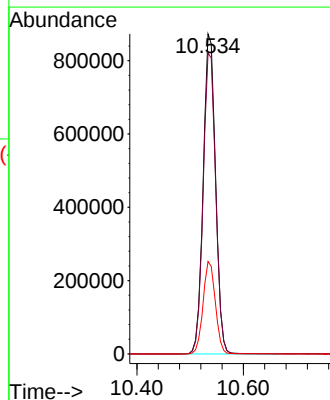
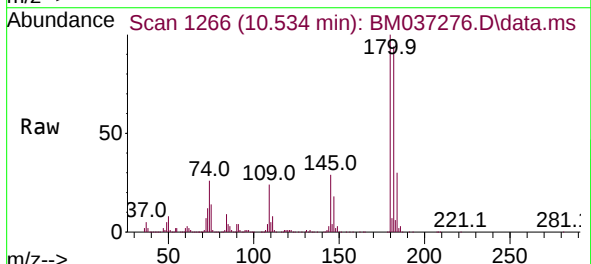
Tgt Ion:180 Resp: 1398038

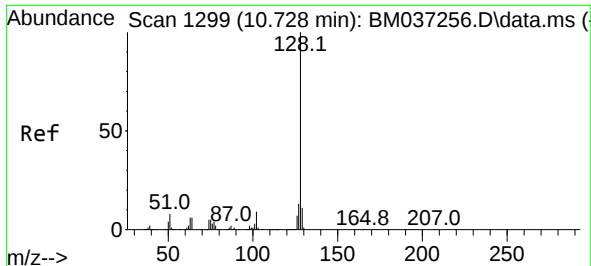
Ion Ratio Lower Upper

180 100

182 94.0 77.5 116.3

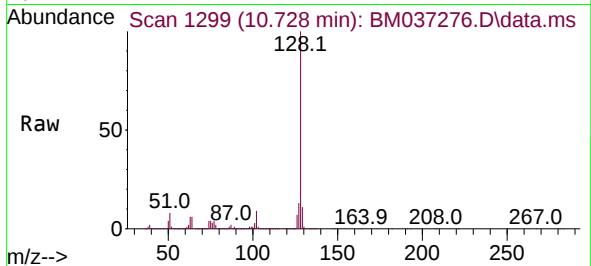
145 28.9 23.5 35.3





#31
Naphthalene
Concen: 41.068 ng
RT: 10.728 min Scan# 1299
Delta R.T. -0.000 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

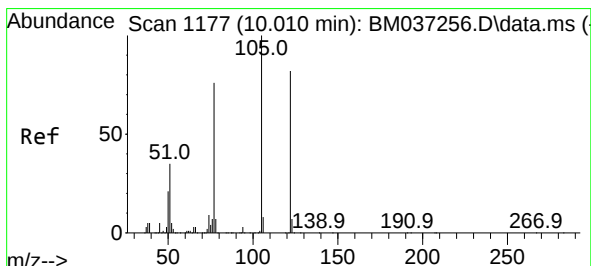
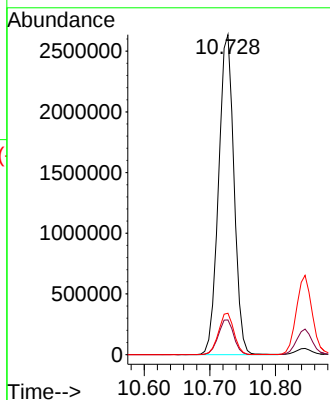
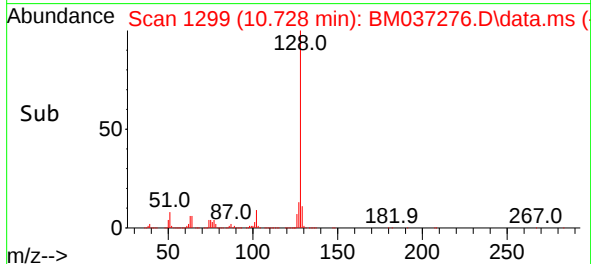
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMSD



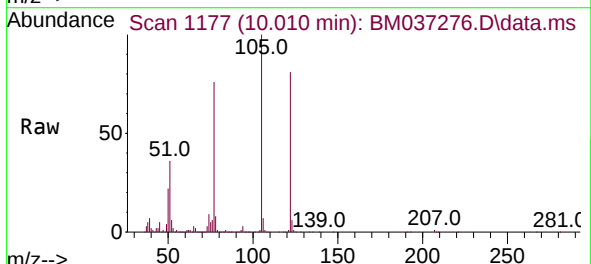
Tgt Ion:128 Resp: 4304986
Ion Ratio Lower Upper
128 100
129 10.8 8.7 13.1
127 12.9 10.2 15.2

Manual Integrations
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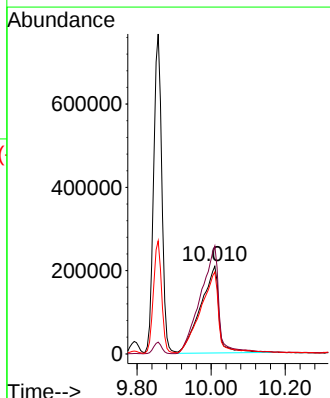
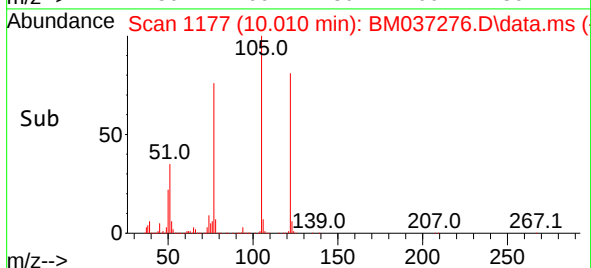
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022

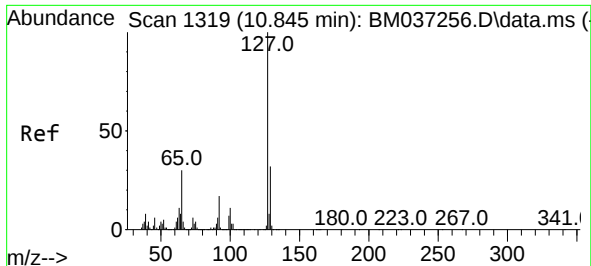


#32
Benzoic acid
Concen: 34.592 ng
RT: 10.010 min Scan# 1177
Delta R.T. 0.000 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14



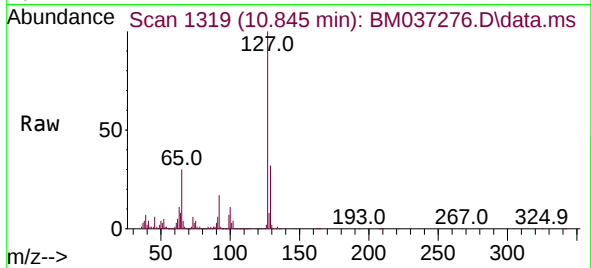
Tgt Ion:122 Resp: 726405
Ion Ratio Lower Upper
122 100
105 123.2 100.1 140.1
77 93.6 71.7 111.7





#33
4-Chloroaniline
Concen: 26.602 ng
RT: 10.845 min Scan# 1319
Delta R.T. -0.000 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

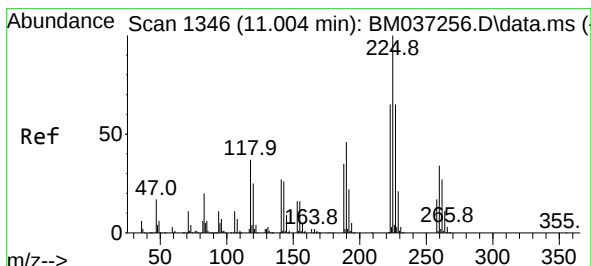
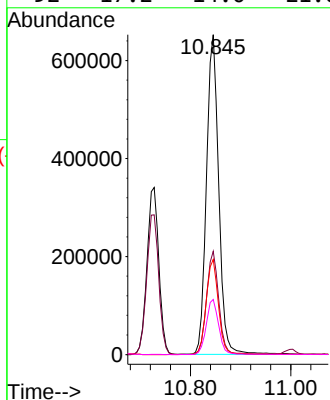
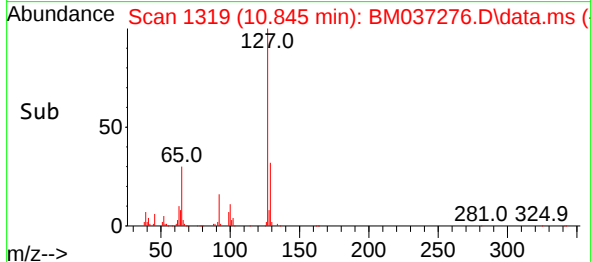
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMSD



Tgt Ion:127 Resp: 111077
Ion Ratio Lower Upper
127 100
129 32.3 25.5 38.3
65 29.7 24.0 36.0
92 17.2 14.0 21.0

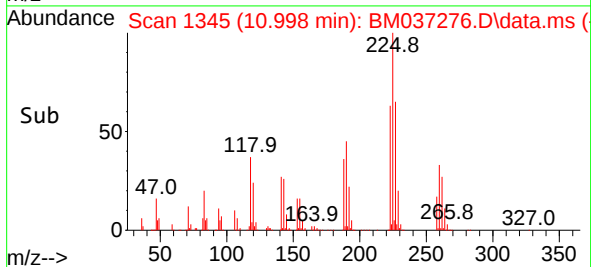
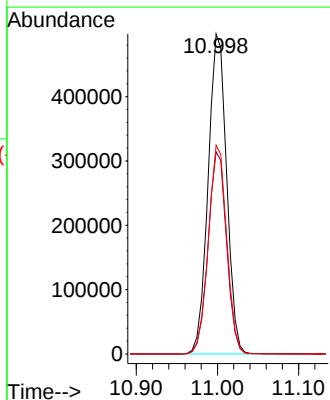
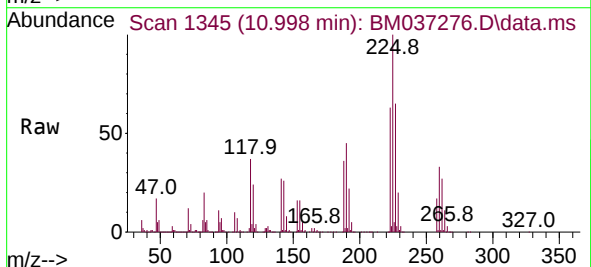
Manual Integrations
APPROVED

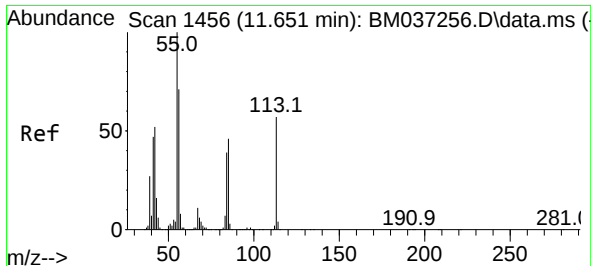
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022



#34
Hexachlorobutadiene
Concen: 43.913 ng
RT: 10.998 min Scan# 1345
Delta R.T. -0.006 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

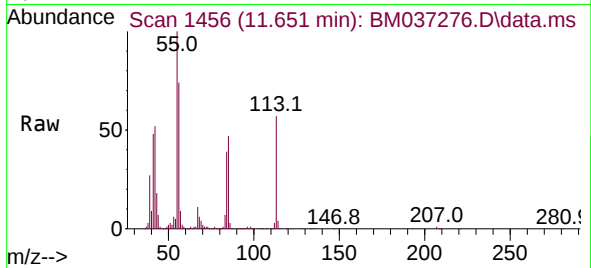
Tgt Ion:225 Resp: 788477
Ion Ratio Lower Upper
225 100
223 63.2 51.9 77.9
227 65.2 52.2 78.4





#35
Caprolactam
Concen: 38.032 ng
RT: 11.651 min Scan# 1456
Delta R.T. -0.000 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

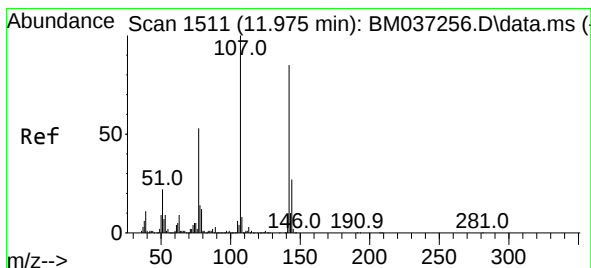
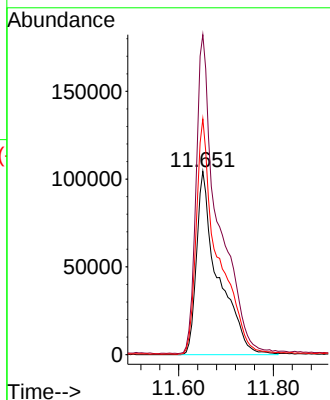
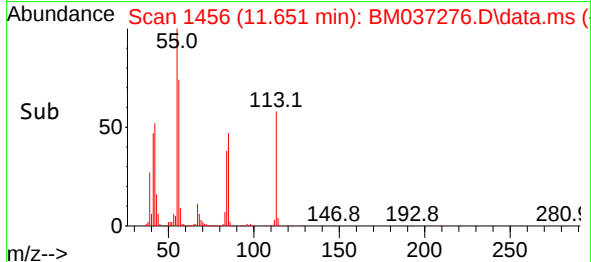
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMSD



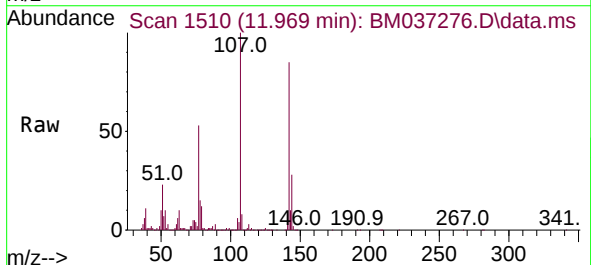
Tgt Ion:113 Resp: 327848
Ion Ratio Lower Upper
113 100
55 174.6 156.9 196.9
56 128.7 106.4 146.4

Manual Integrations
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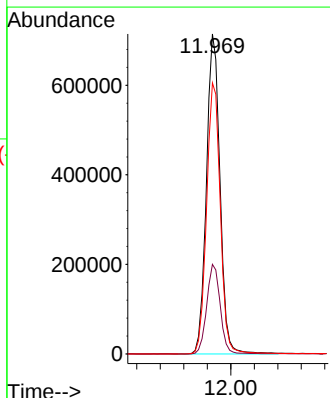
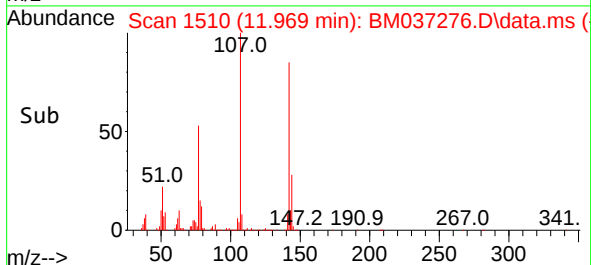
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022

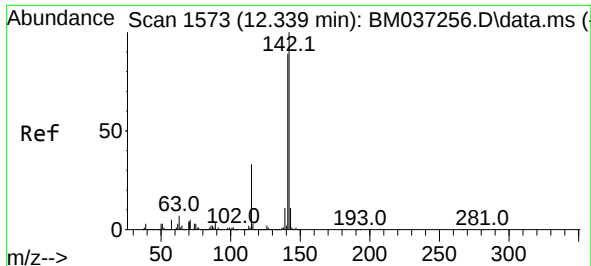


#36
4-Chloro-3-methylphenol
Concen: 39.155 ng
RT: 11.969 min Scan# 1510
Delta R.T. -0.006 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14



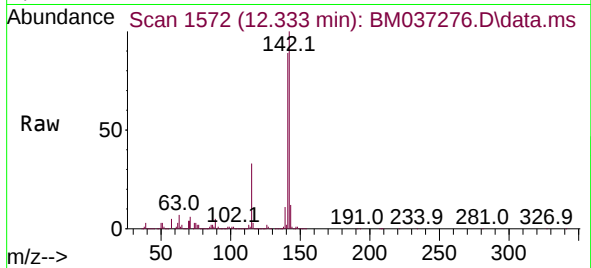
Tgt Ion:107 Resp: 1144152
Ion Ratio Lower Upper
107 100
144 28.0 21.8 32.6
142 84.7 68.1 102.1





#37
2-Methylnaphthalene
Concen: 39.909 ng
RT: 12.333 min Scan# 1572
Delta R.T. -0.006 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

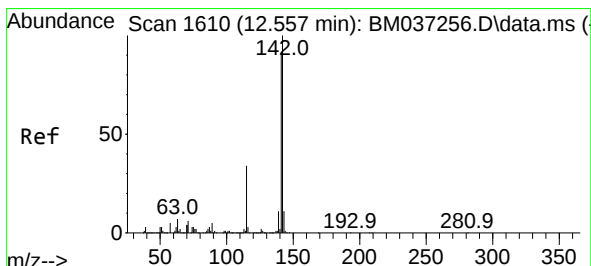
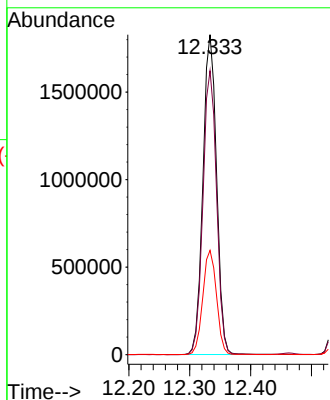
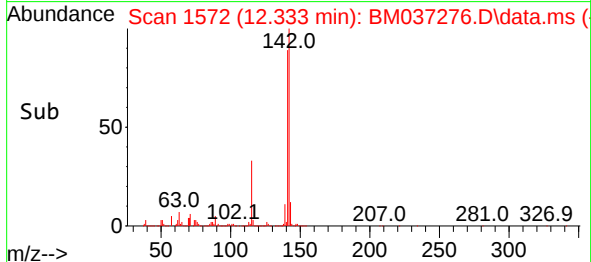
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMSD



Tgt Ion:142 Resp: 2834458
Ion Ratio Lower Upper
142 100
141 88.7 71.3 106.9
115 32.6 26.0 39.0

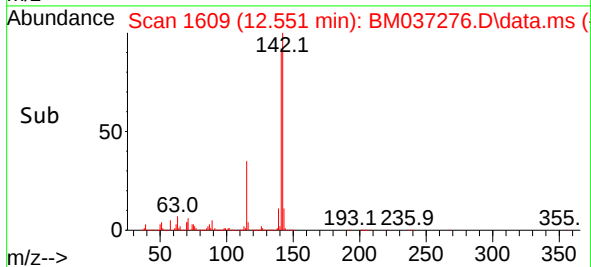
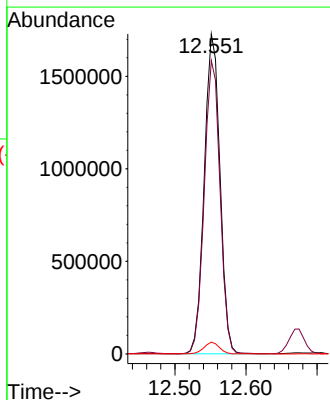
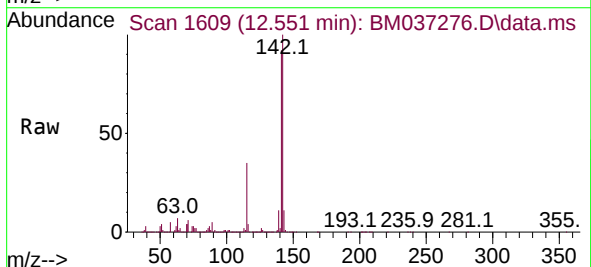
Manual Integrations
APPROVED

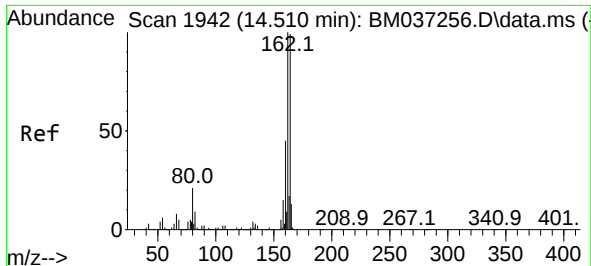
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022



#38
1-Methylnaphthalene
Concen: 38.172 ng
RT: 12.551 min Scan# 1609
Delta R.T. -0.006 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

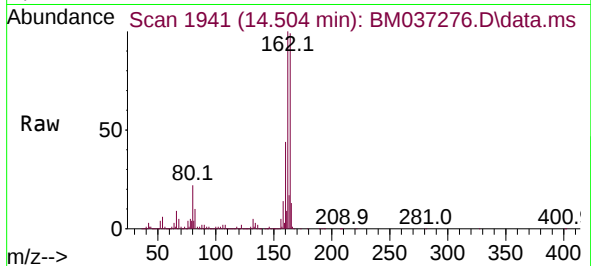
Tgt Ion:142 Resp: 2649018
Ion Ratio Lower Upper
142 100
141 91.6 73.0 109.6
116 3.7 2.8 4.2





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.504 min Scan# 1942
Delta R.T. -0.006 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

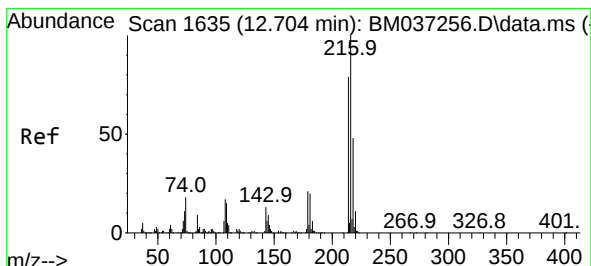
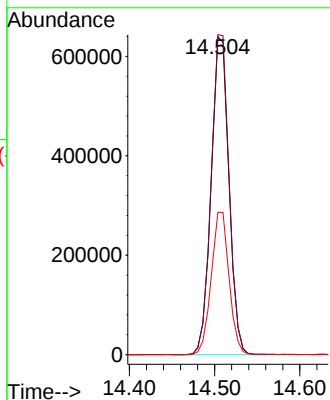
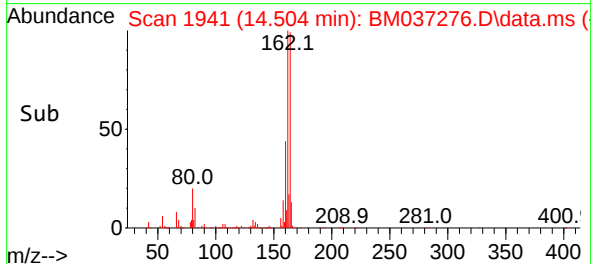
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMSD



Tgt Ion:164 Resp: 924456
Ion Ratio Lower Upper
164 100
162 100.7 80.6 120.8
160 44.8 36.2 54.4

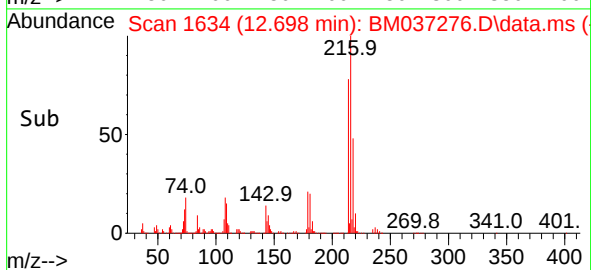
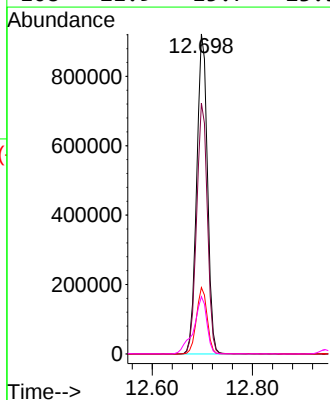
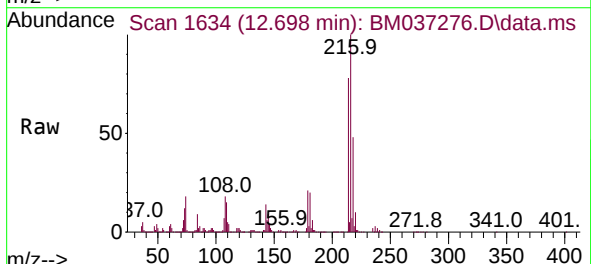
Manual Integrations
APPROVED

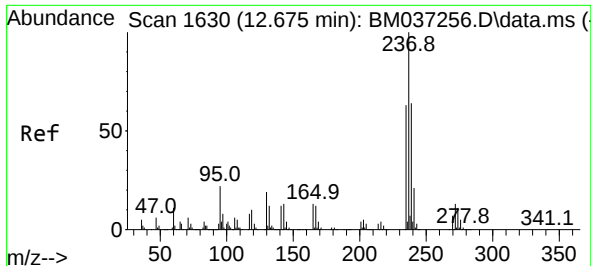
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022



#40
1,2,4,5-Tetrachlorobenzene
Concen: 49.235 ng
RT: 12.698 min Scan# 1634
Delta R.T. -0.006 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

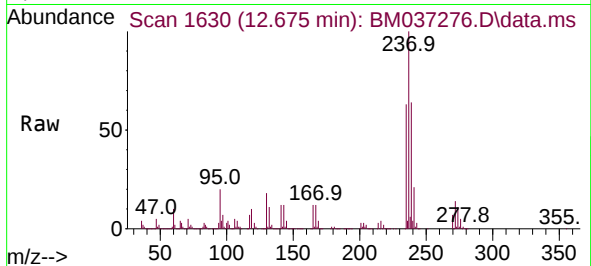
Tgt Ion:216 Resp: 1368527
Ion Ratio Lower Upper
216 100
214 78.6 63.1 94.7
179 20.6 16.8 25.2
108 21.9 15.7 23.5





#41
Hexachlorocyclopentadiene
Concen: 121.322 ng
RT: 12.675 min Scan# 1630
Delta R.T. -0.000 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

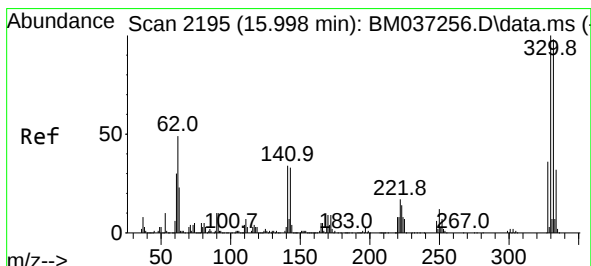
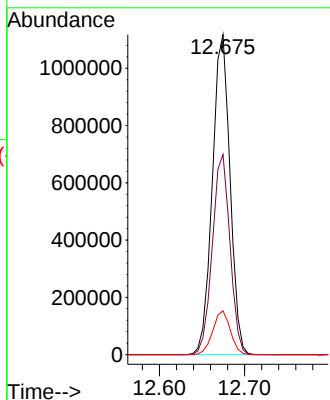
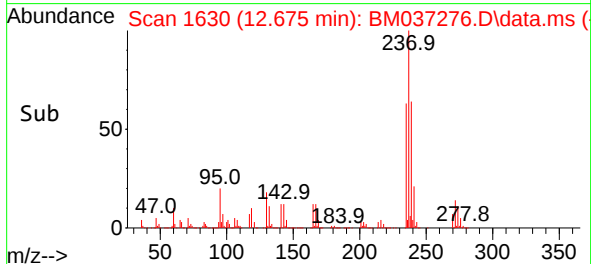
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMSD



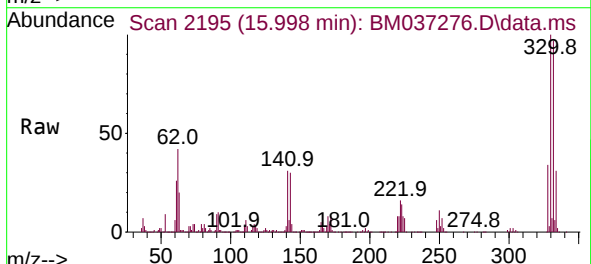
Tgt Ion:237 Resp: 160668
Ion Ratio Lower Upper
237 100
235 62.5 42.9 82.9
272 13.7 0.0 33.1

Manual Integrations
APPROVED

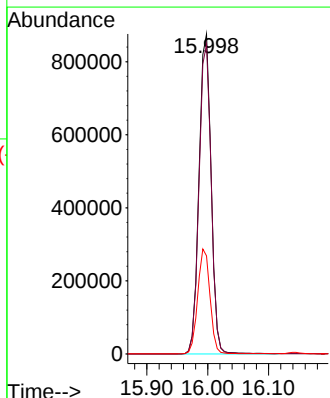
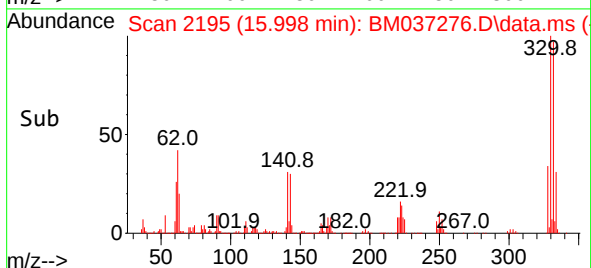
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022

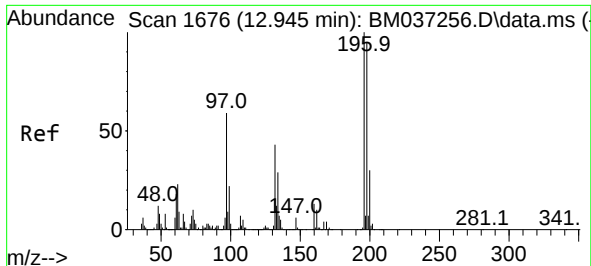


#42
2,4,6-Tribromophenol
Concen: 110.610 ng
RT: 15.998 min Scan# 2195
Delta R.T. -0.000 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14



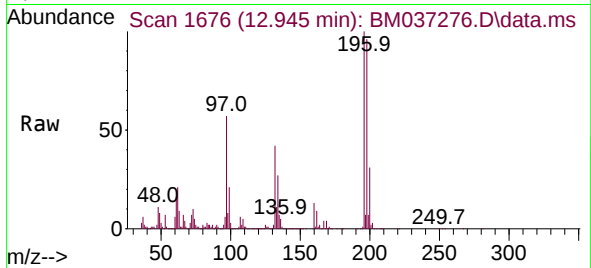
Tgt Ion:330 Resp: 1205030
Ion Ratio Lower Upper
330 100
332 97.2 78.0 117.0
141 33.4 27.5 41.3





#43
2,4,6-Trichlorophenol
Concen: 45.321 ng
RT: 12.945 min Scan# 1676
Delta R.T. 0.000 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

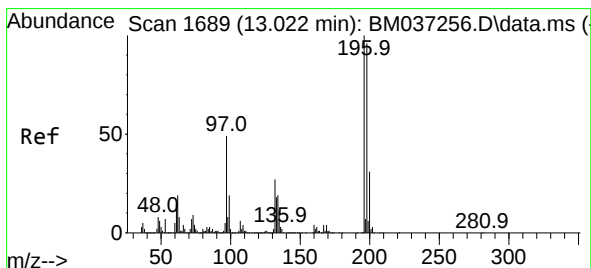
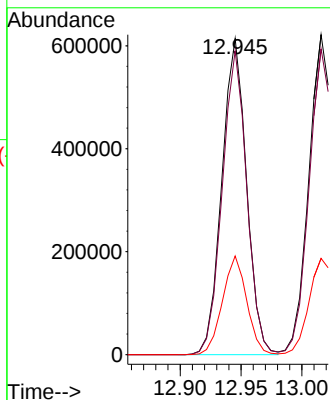
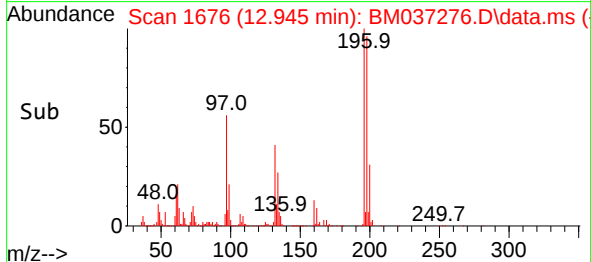
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMSD



Tgt Ion:196 Resp: 867198
Ion Ratio Lower Upper
196 100
198 96.1 76.1 114.1
200 31.2 24.4 36.6

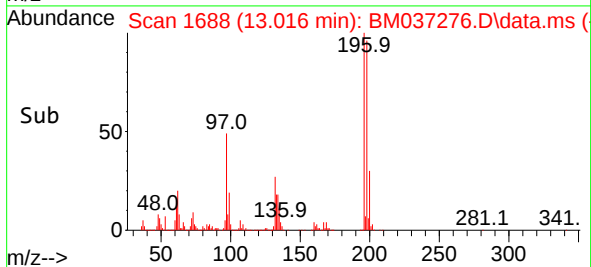
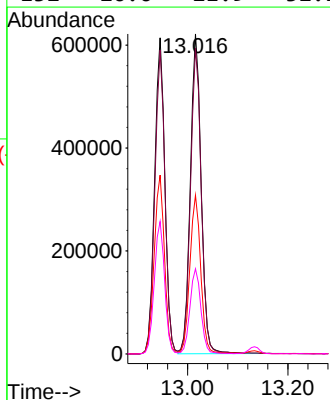
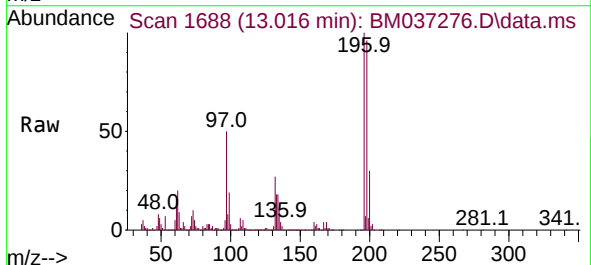
Manual Integrations
APPROVED

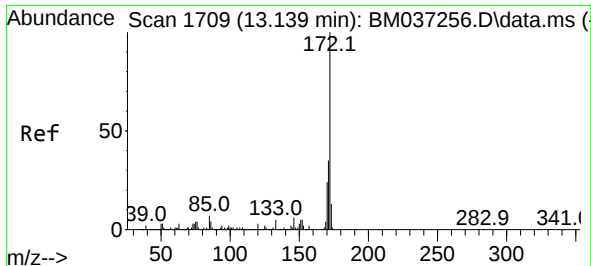
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022



#44
2,4,5-Trichlorophenol
Concen: 44.009 ng
RT: 13.016 min Scan# 1688
Delta R.T. -0.006 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

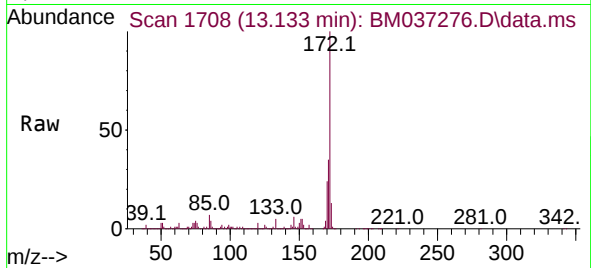
Tgt Ion:196 Resp: 928943
Ion Ratio Lower Upper
196 100
198 95.5 77.0 115.6
97 49.6 39.4 59.2
132 26.6 21.9 32.9





#45
2-Fluorobiphenyl
Concen: 63.570 ng
RT: 13.133 min Scan# 1708
Delta R.T. -0.006 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

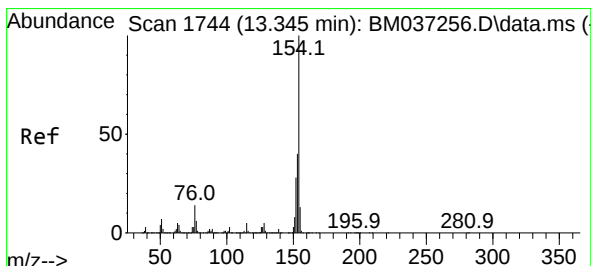
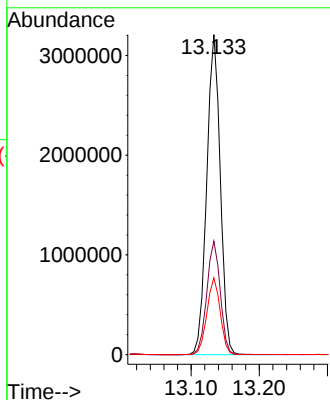
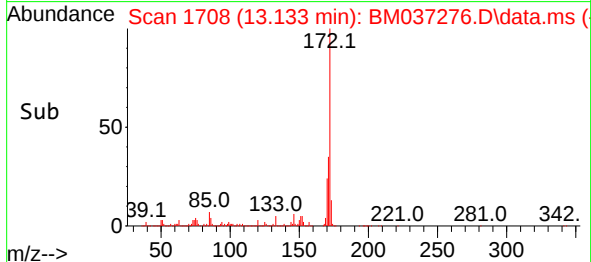
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMSD



Tgt Ion:172 Resp: 4422950
Ion Ratio Lower Upper
172 100
171 35.5 28.1 42.1
170 24.0 19.0 28.4

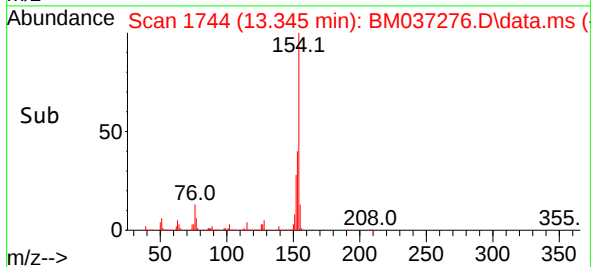
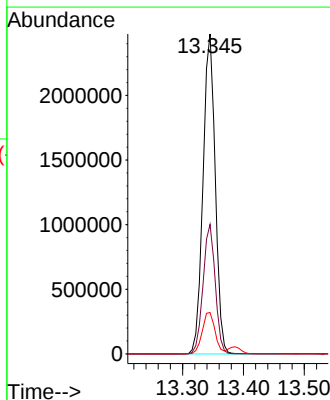
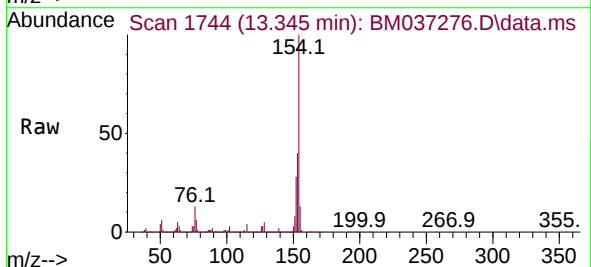
Manual Integrations
APPROVED

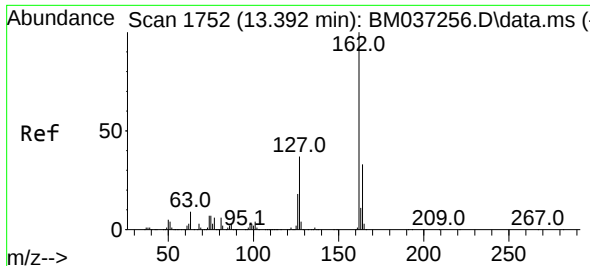
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022



#46
1,1'-Biphenyl
Concen: 46.171 ng
RT: 13.345 min Scan# 1744
Delta R.T. 0.000 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

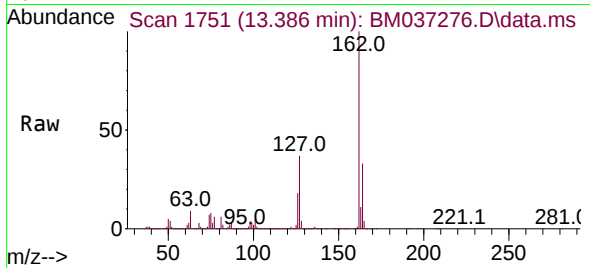
Tgt Ion:154 Resp: 3444425
Ion Ratio Lower Upper
154 100
153 40.5 20.3 60.3
76 12.9 0.0 33.7





#47
2-Chloronaphthalene
Concen: 44.490 ng
RT: 13.386 min Scan# 1751
Delta R.T. -0.006 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

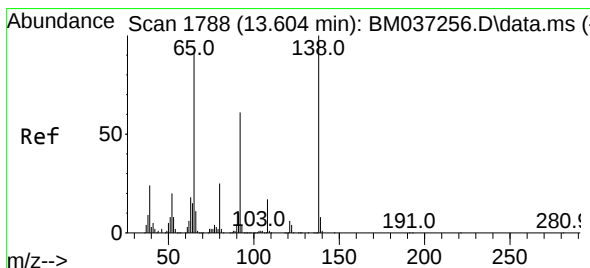
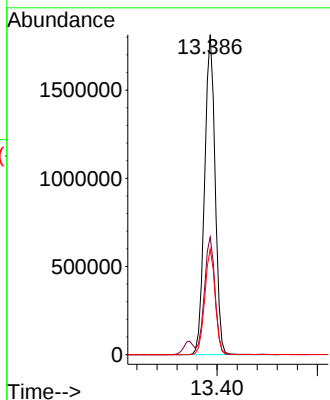
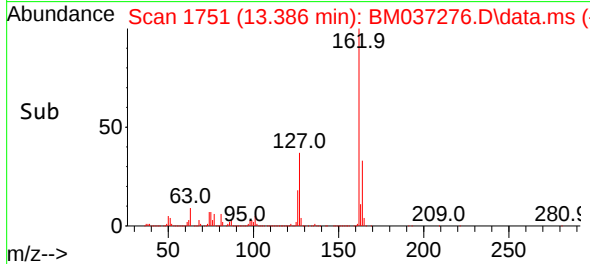
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMSD



Tgt Ion:162 Resp: 2641236
Ion Ratio Lower Upper
162 100
127 36.7 29.5 44.3
164 32.9 26.3 39.5

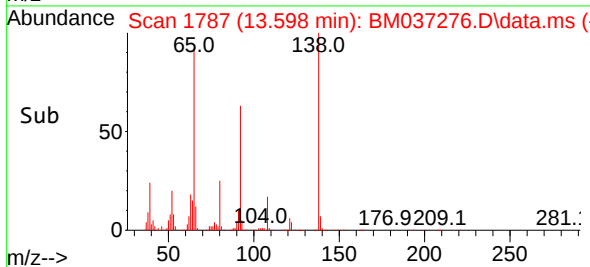
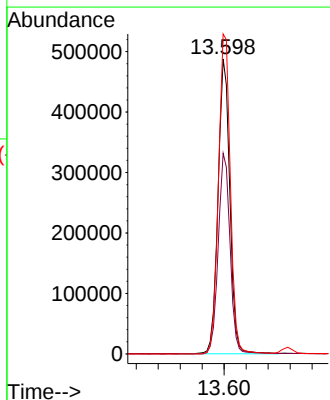
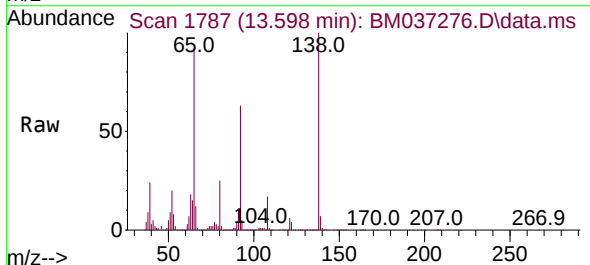
Manual Integrations
APPROVED

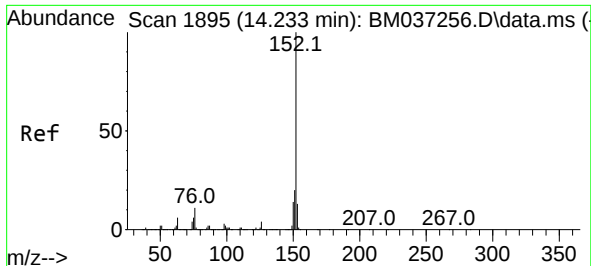
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022



#48
2-Nitroaniline
Concen: 42.258 ng
RT: 13.598 min Scan# 1787
Delta R.T. -0.006 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

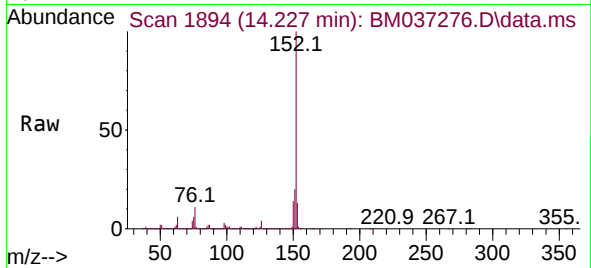
Tgt Ion: 65 Resp: 724984
Ion Ratio Lower Upper
65 100
92 68.0 53.7 80.5
138 108.5 87.4 131.2





#49
Acenaphthylene
Concen: 43.307 ng
RT: 14.227 min Scan# 1894
Delta R.T. -0.006 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

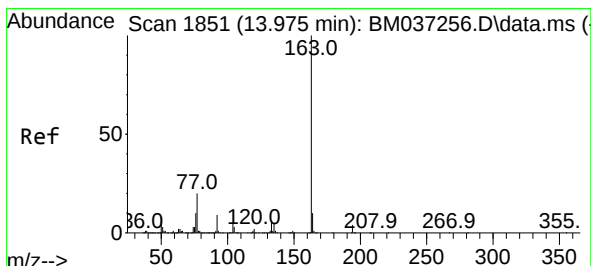
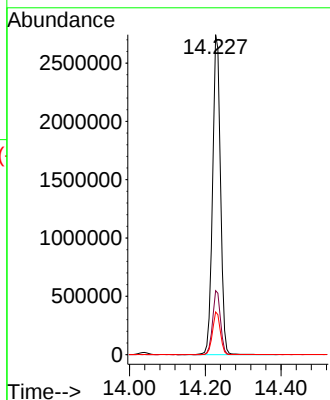
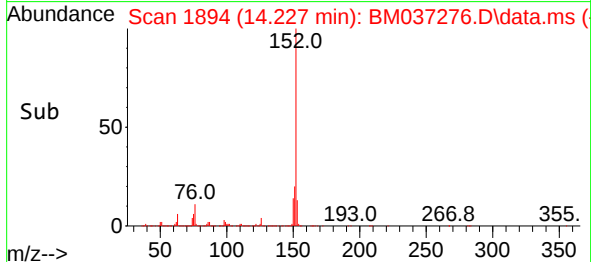
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMSD



Tgt Ion:152 Resp: 3991072
Ion Ratio Lower Upper
152 100
151 20.0 16.0 24.0
153 13.3 10.6 15.8

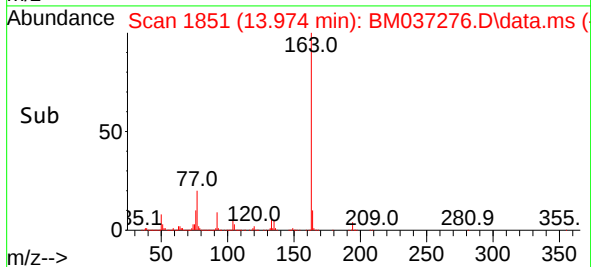
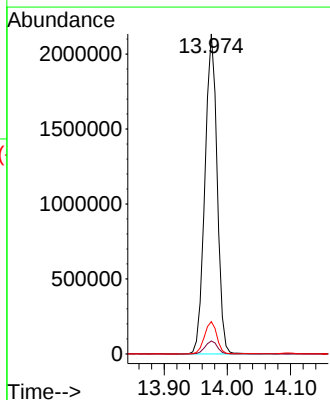
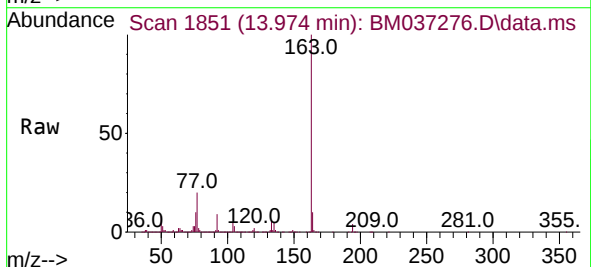
Manual Integrations
APPROVED

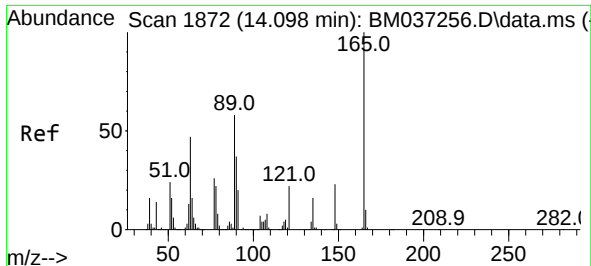
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022



#50
Dimethylphthalate
Concen: 40.542 ng
RT: 13.974 min Scan# 1851
Delta R.T. -0.001 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

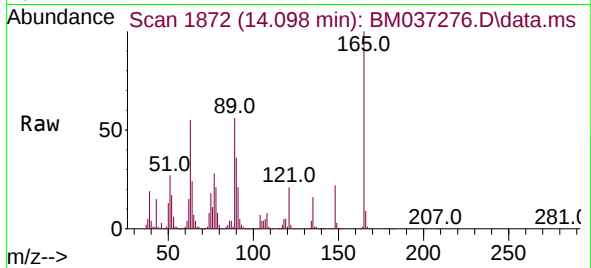
Tgt Ion:163 Resp: 2862711
Ion Ratio Lower Upper
163 100
194 4.0 3.0 4.6
164 10.1 8.2 12.2





#51
2,6-Dinitrotoluene
Concen: 41.887 ng
RT: 14.098 min Scan# 1872
Delta R.T. -0.000 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

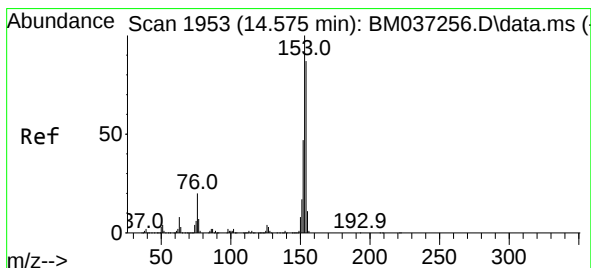
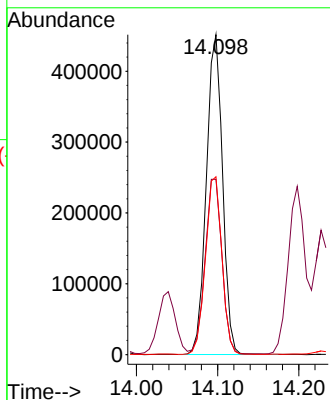
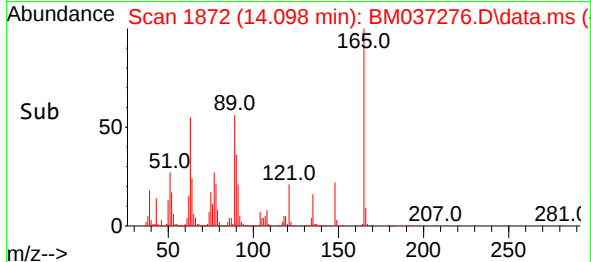
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMSD



Tgt Ion:165 Resp: 626347
Ion Ratio Lower Upper
165 100
63 54.8 46.2 69.2
89 55.6 46.6 69.8

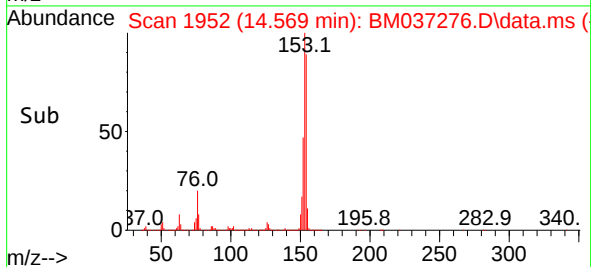
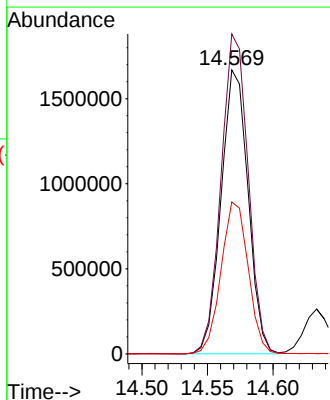
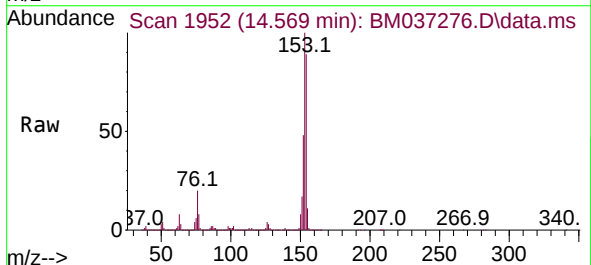
Manual Integrations
APPROVED

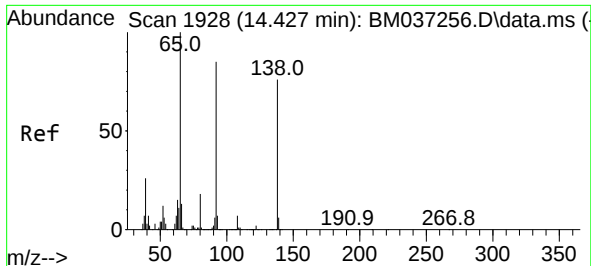
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022



#52
Acenaphthene
Concen: 41.964 ng
RT: 14.569 min Scan# 1952
Delta R.T. -0.006 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

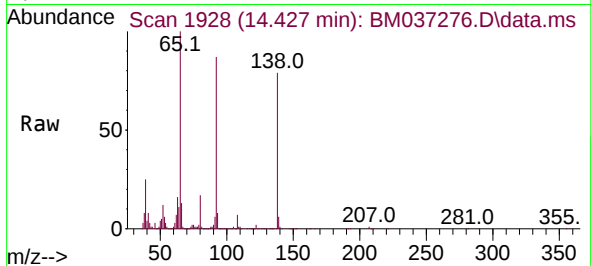
Tgt Ion:154 Resp: 2390865
Ion Ratio Lower Upper
154 100
153 112.7 91.5 137.3
152 53.6 43.0 64.6





#53
3-Nitroaniline
Concen: 30.295 ng
RT: 14.427 min Scan# 1928
Delta R.T. 0.000 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

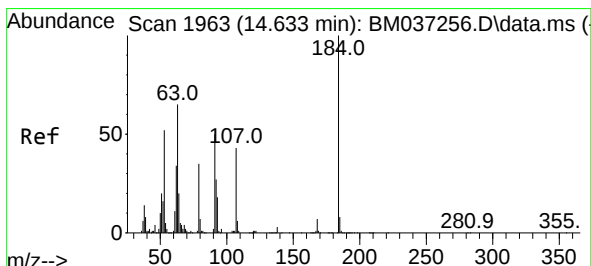
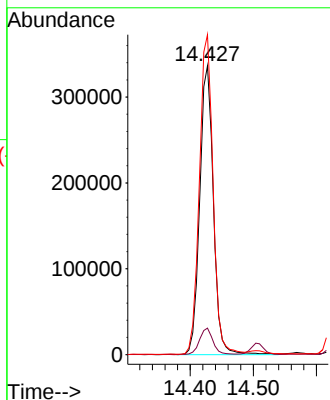
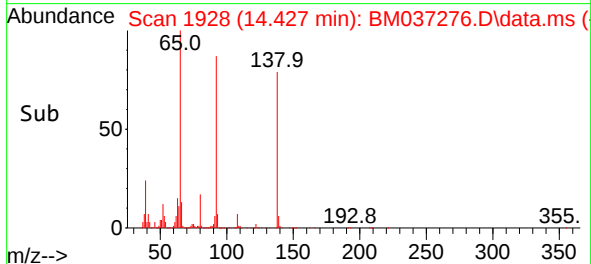
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMSD



Tgt Ion:138 Resp: 506090
Ion Ratio Lower Upper
138 100
108 9.2 7.3 10.9
92 110.8 89.8 134.8

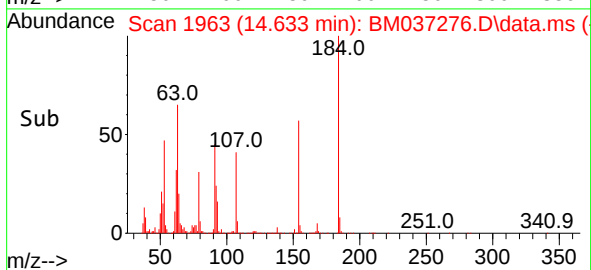
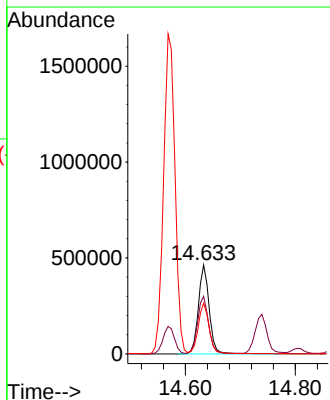
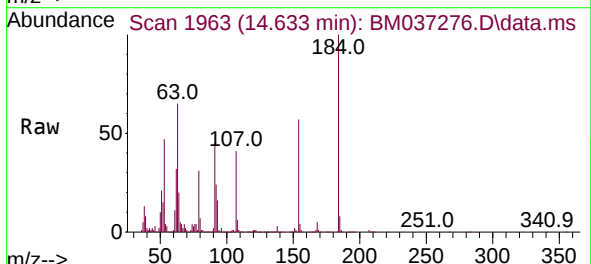
Manual Integrations
APPROVED

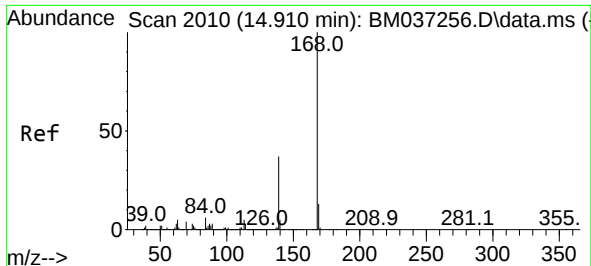
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022



#54
2,4-Dinitrophenol
Concen: 65.130 ng
RT: 14.633 min Scan# 1963
Delta R.T. 0.000 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

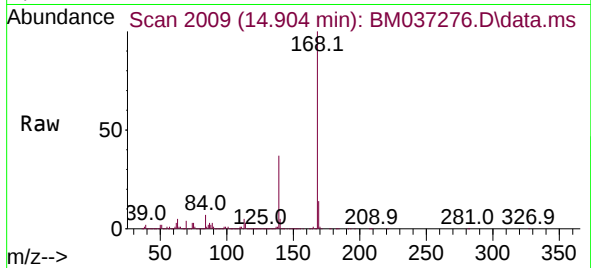
Tgt Ion:184 Resp: 628436
Ion Ratio Lower Upper
184 100
63 64.7 57.7 86.5
154 56.9 48.3 72.5





#55
Dibenzenofuran
Concen: 41.324 ng
RT: 14.904 min Scan# 2010
Delta R.T. -0.006 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

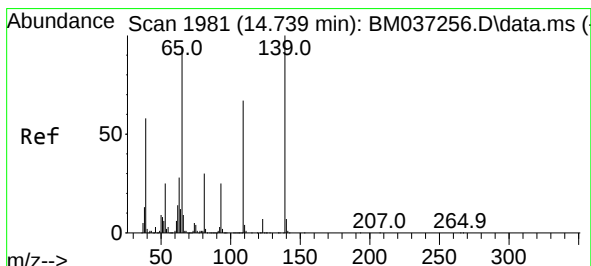
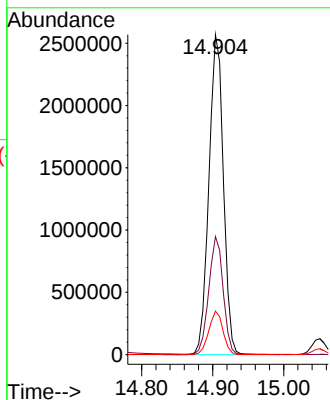
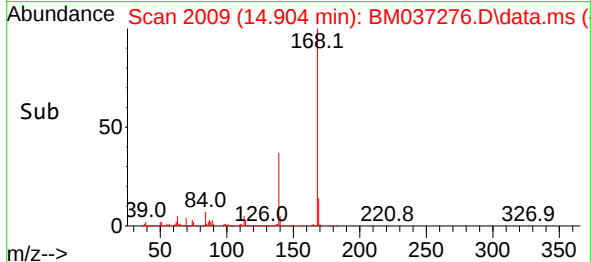
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMSD



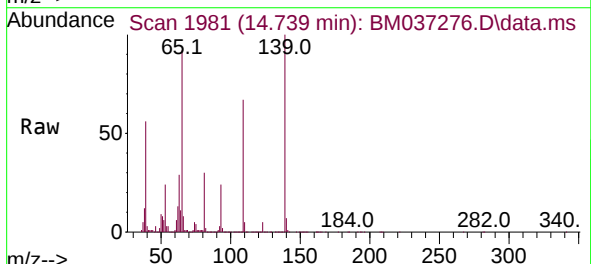
Tgt Ion:168 Resp: 362629
Ion Ratio Lower Upper
168 100
139 36.9 29.3 43.9
169 13.6 10.6 16.0

Manual Integrations
APPROVED

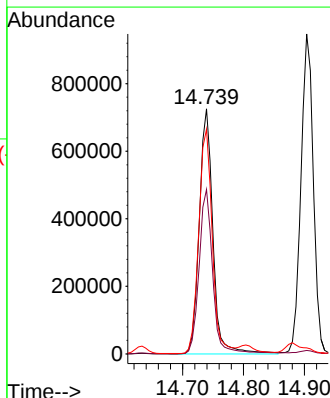
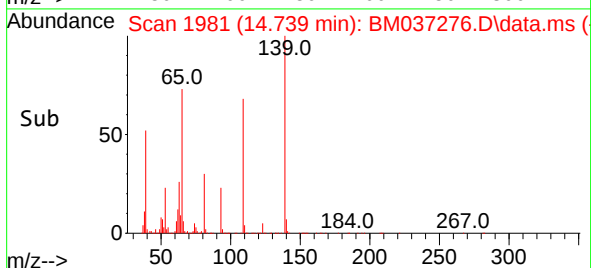
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022

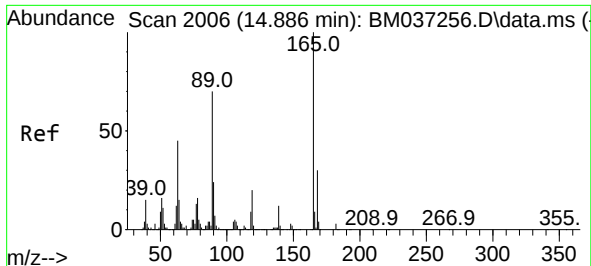


#56
4-Nitrophenol
Concen: 84.490 ng
RT: 14.739 min Scan# 1981
Delta R.T. 0.000 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14



Tgt Ion:139 Resp: 1125985
Ion Ratio Lower Upper
139 100
109 67.1 47.4 87.4
65 91.7 73.8 113.8





#57

2,4-Dinitrotoluene

Concen: 41.772 ng

RT: 14.880 min Scan# 20

Delta R.T. -0.006 min

Lab File: BM037276.D

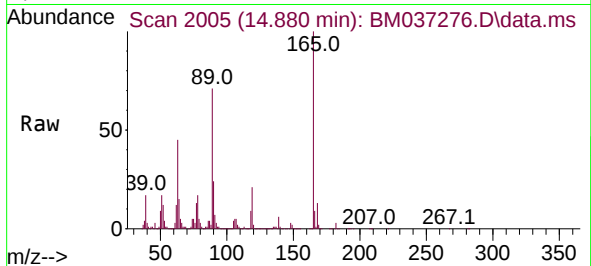
Acq: 29 Oct 2022 18:14

Instrument :

BNA_M

ClientSampleId :

LIDEN-GAS-PIPELINEMSD



Tgt Ion:165 Resp: 821936

Ion Ratio Lower Upper

165 100

63 45.2 36.3 54.5

89 71.0 56.3 84.5

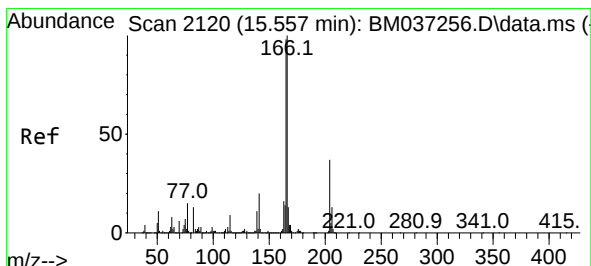
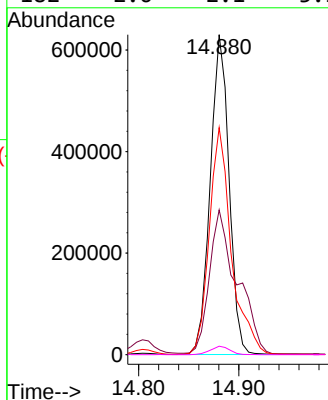
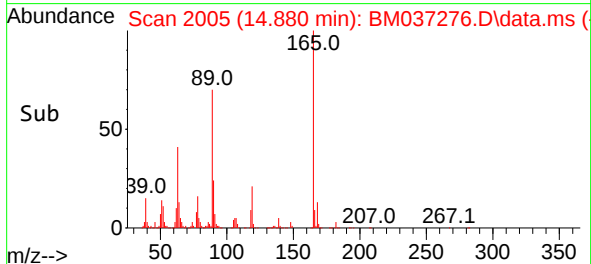
182 2.6 2.1 3.1

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 10/31/2022

Supervised By :Jagrut Upadhyay 11/01/2022



#58

Fluorene

Concen: 41.112 ng

RT: 15.551 min Scan# 2119

Delta R.T. -0.006 min

Lab File: BM037276.D

Acq: 29 Oct 2022 18:14

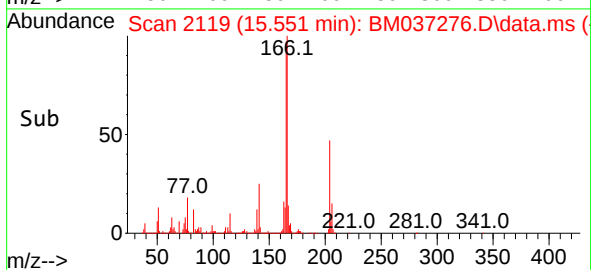
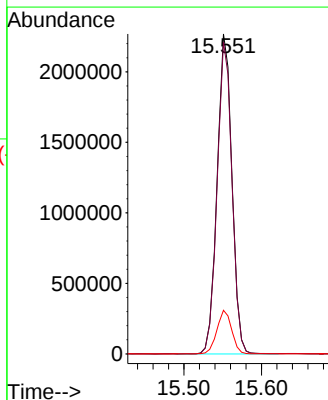
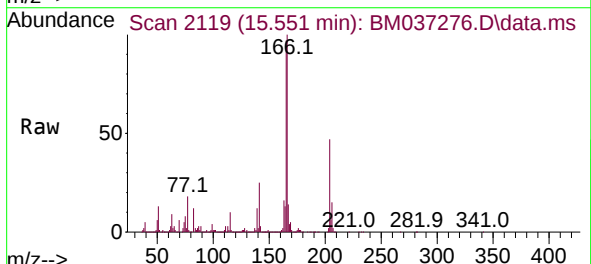
Tgt Ion:166 Resp: 3011326

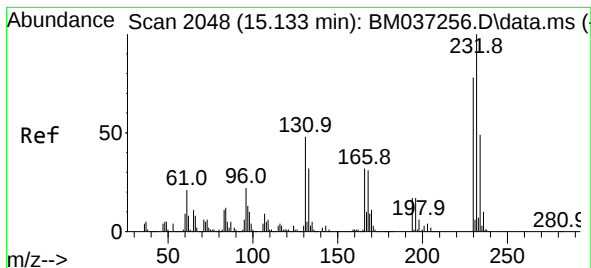
Ion Ratio Lower Upper

166 100

165 97.5 78.2 117.4

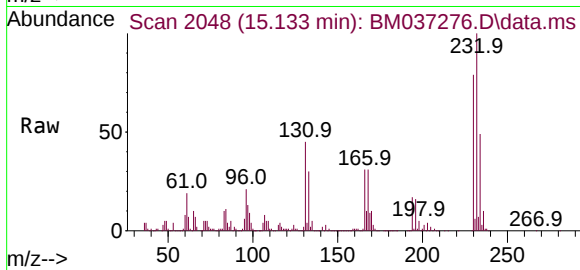
167 13.6 10.6 15.8





#59
2,3,4,6-Tetrachlorophenol
Concen: 40.653 ng
RT: 15.133 min Scan# 2048
Delta R.T. -0.000 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

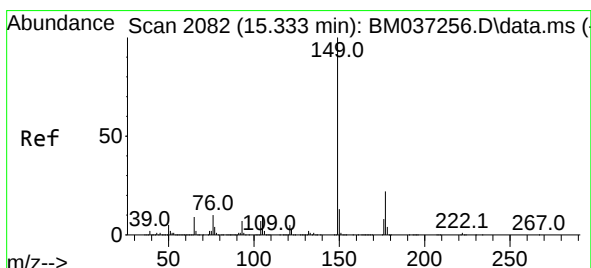
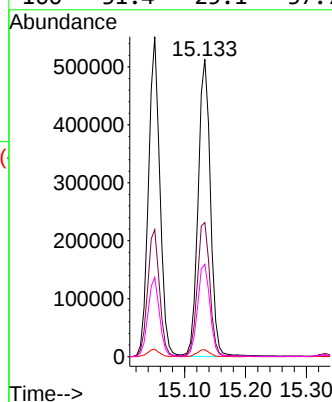
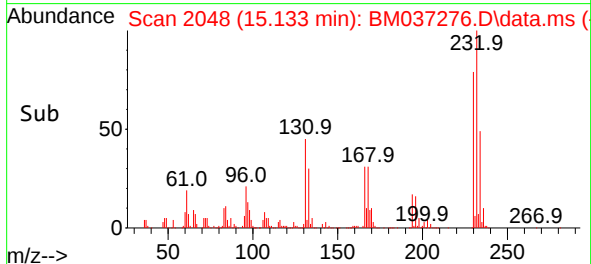
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMSD



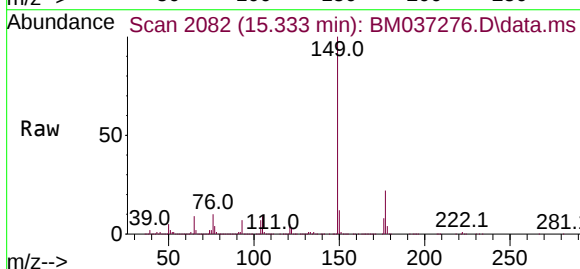
Tgt Ion:232 Resp: 719222
Ion Ratio Lower Upper
232 100
131 46.4 37.8 56.8
130 2.4 1.9 2.9
166 31.4 25.1 37.7

Manual Integrations
APPROVED

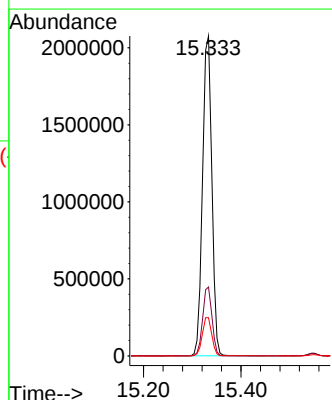
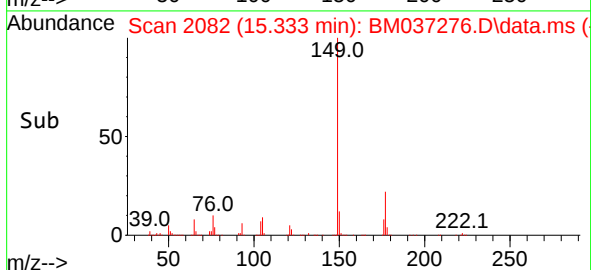
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022

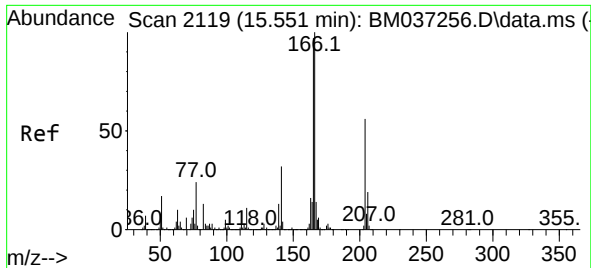


#60
Diethylphthalate
Concen: 40.161 ng
RT: 15.333 min Scan# 2082
Delta R.T. -0.000 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14



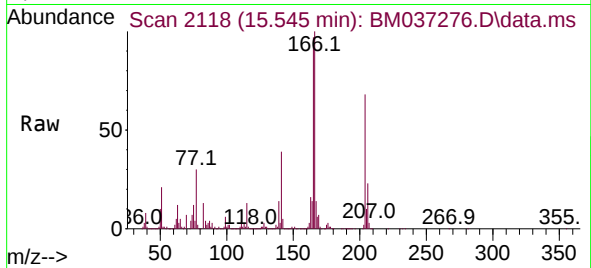
Tgt Ion:149 Resp: 2756260
Ion Ratio Lower Upper
149 100
177 21.5 17.4 26.0
150 11.9 10.0 15.0





#61
4-Chlorophenyl-phenylether
Concen: 42.506 ng
RT: 15.545 min Scan# 2118
Delta R.T. -0.006 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

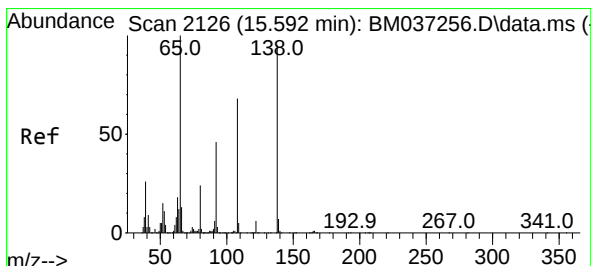
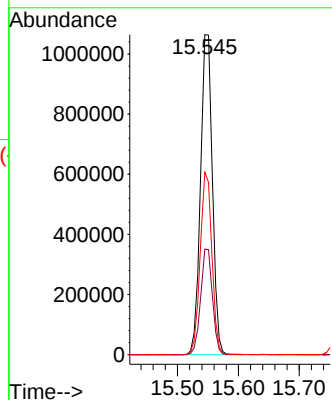
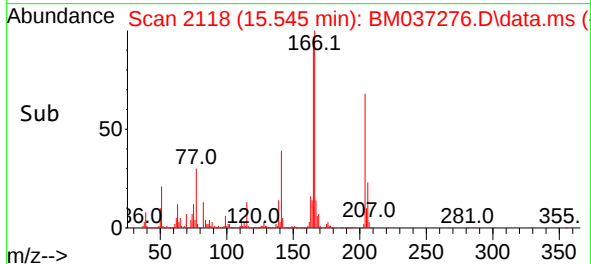
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMSD



Tgt Ion:204 Resp: 144043
Ion Ratio Lower Upper
204 100
206 33.0 26.6 39.8
141 57.0 45.2 67.8

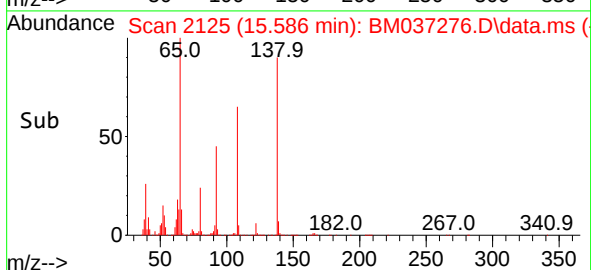
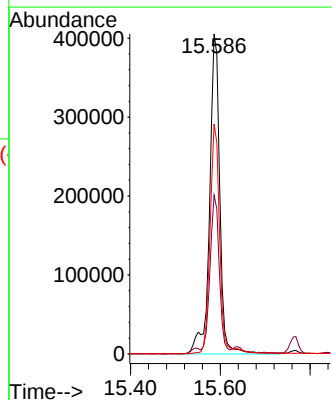
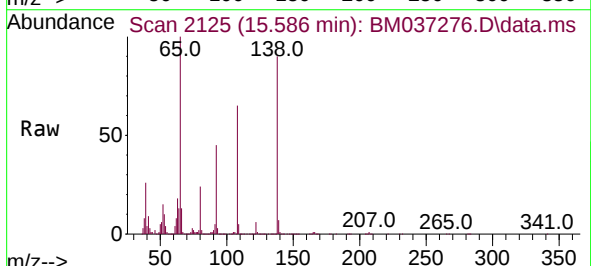
Manual Integrations
APPROVED

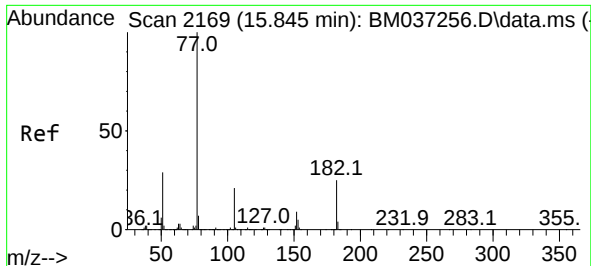
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022



#62
4-Nitroaniline
Concen: 38.203 ng
RT: 15.586 min Scan# 2125
Delta R.T. -0.006 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

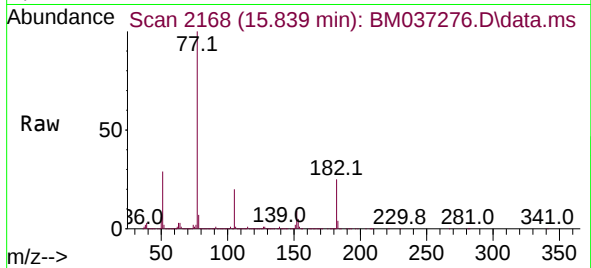
Tgt Ion:138 Resp: 640054
Ion Ratio Lower Upper
138 100
92 49.6 28.1 68.1
108 71.8 51.3 91.3





#63
Azobenzene
Concen: 40.542 ng
RT: 15.839 min Scan# 2169
Delta R.T. -0.006 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

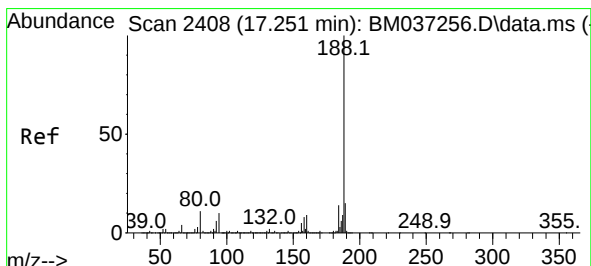
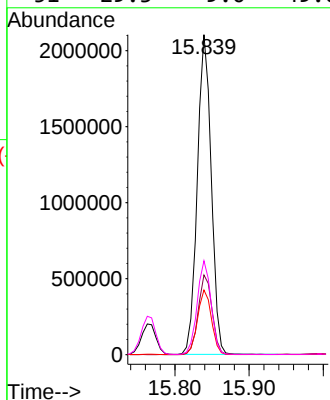
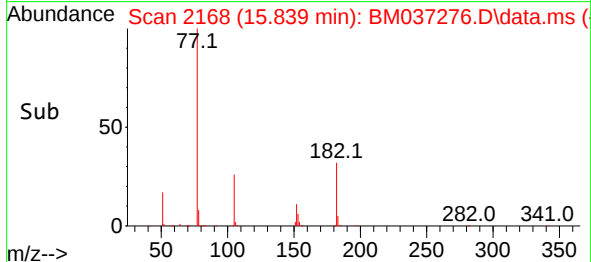
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMSD



Tgt Ion: 77 Resp: 2741024
Ion Ratio Lower Upper
77 100
182 24.9 5.1 45.1
105 20.2 0.5 40.5
51 29.3 9.0 49.0

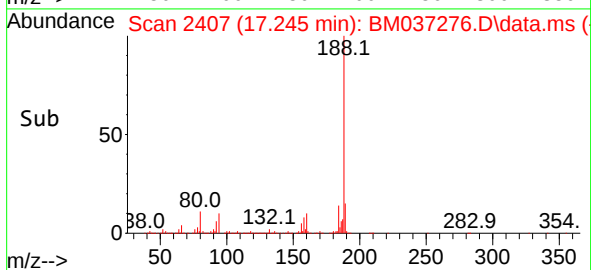
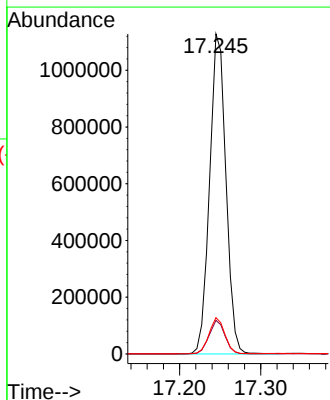
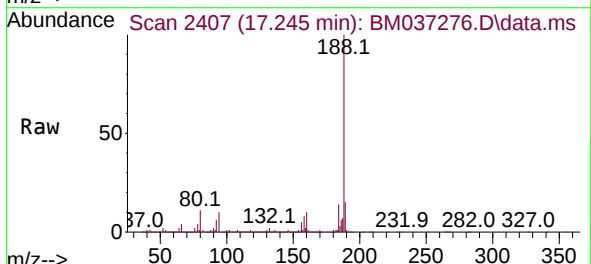
Manual Integrations
APPROVED

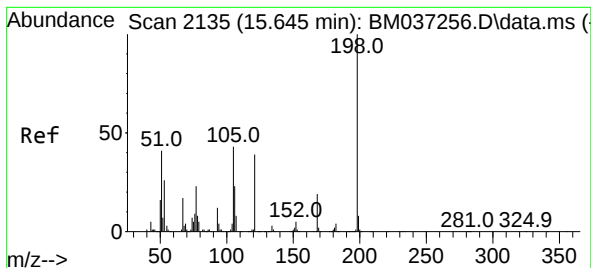
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.245 min Scan# 2407
Delta R.T. -0.006 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

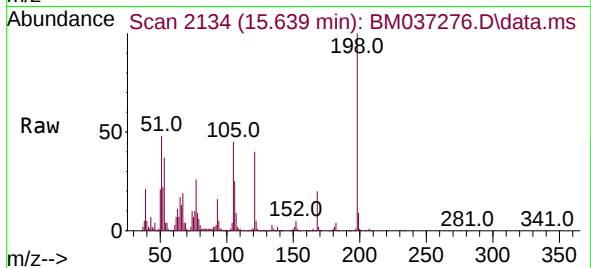
Tgt Ion:188 Resp: 1580850
Ion Ratio Lower Upper
188 100
94 10.5 7.9 11.9
80 11.3 8.5 12.7





#65
4,6-Dinitro-2-methylphenol
Concen: 36.633 ng
RT: 15.639 min Scan# 2134
Delta R.T. -0.006 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

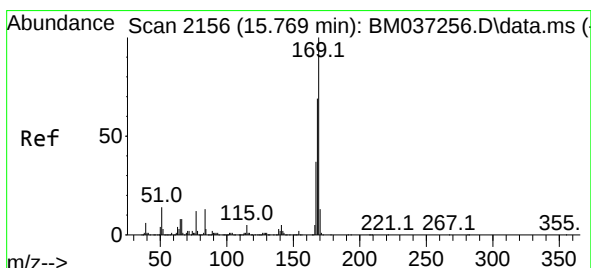
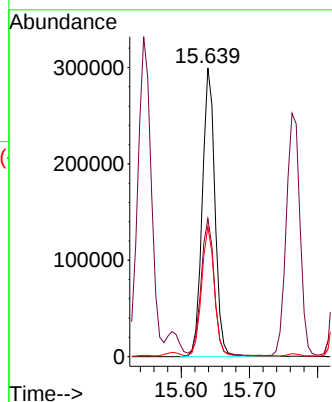
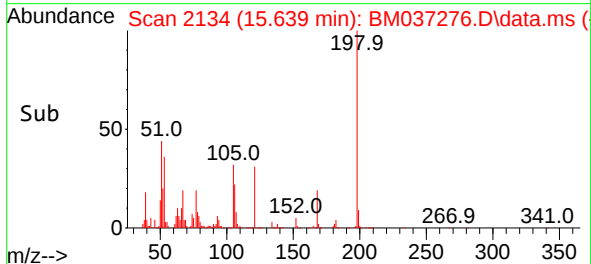
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMSD



Tgt Ion:198 Resp: 389383
Ion Ratio Lower Upper
198 100
51 47.8 26.8 66.8
105 45.0 24.1 64.1

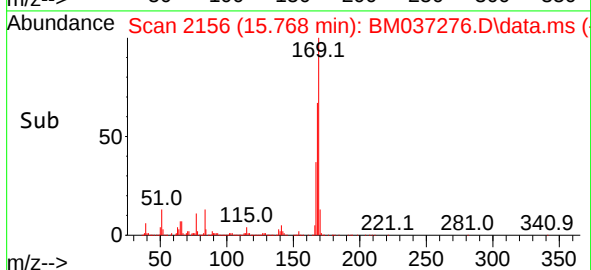
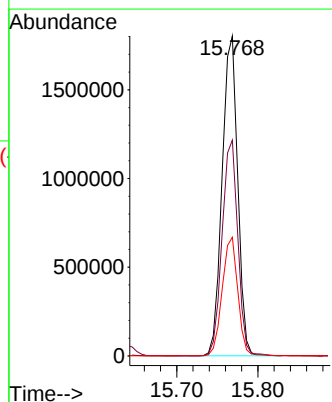
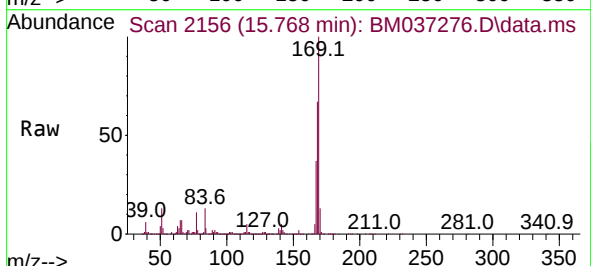
Manual Integrations
APPROVED

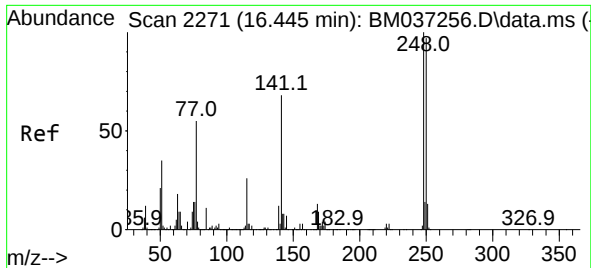
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022



#66
n-Nitrosodiphenylamine
Concen: 44.852 ng
RT: 15.768 min Scan# 2156
Delta R.T. -0.000 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

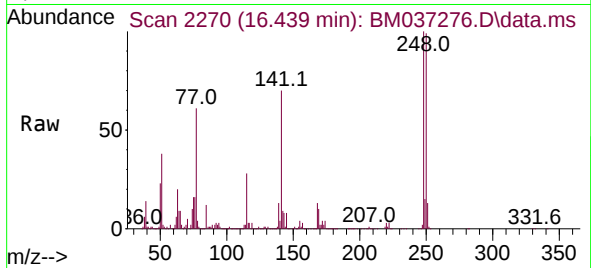
Tgt Ion:169 Resp: 2396620
Ion Ratio Lower Upper
169 100
168 67.4 54.8 82.2
167 37.1 29.5 44.3





#67
4-Bromophenyl-phenylether
Concen: 45.914 ng
RT: 16.439 min Scan# 2270
Delta R.T. -0.006 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

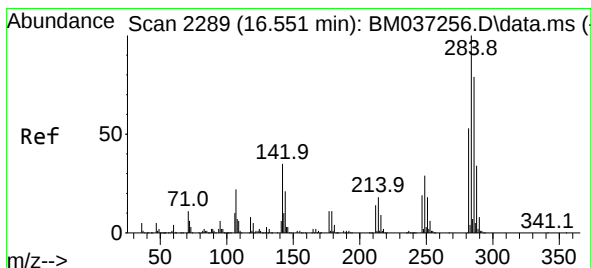
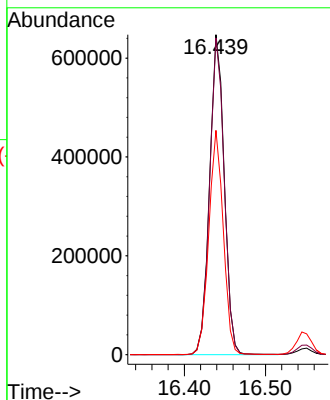
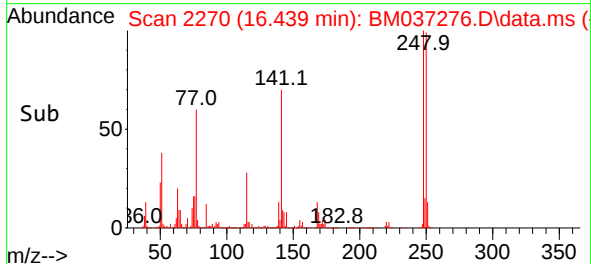
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMSD



Tgt Ion:248 Resp: 814520
Ion Ratio Lower Upper
248 100
250 98.9 77.8 116.6
141 70.1 54.2 81.2

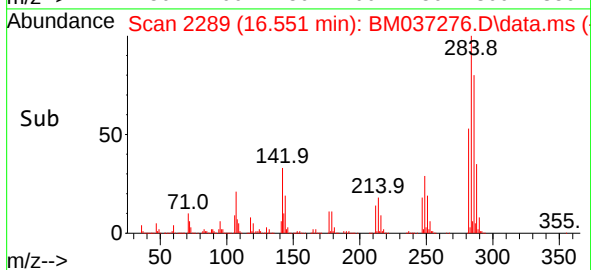
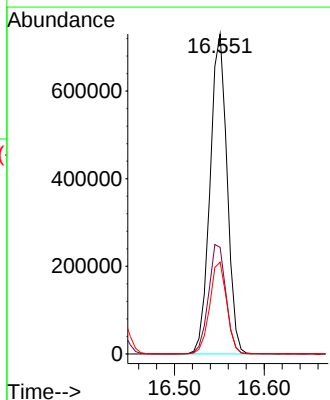
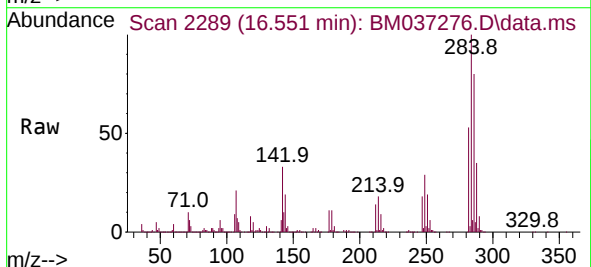
Manual Integrations
APPROVED

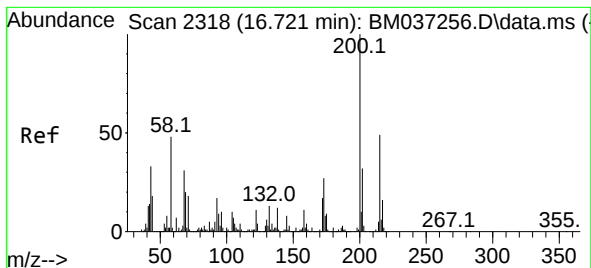
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022



#68
Hexachlorobenzene
Concen: 44.695 ng
RT: 16.551 min Scan# 2289
Delta R.T. -0.000 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

Tgt Ion:284 Resp: 959555
Ion Ratio Lower Upper
284 100
142 33.3 28.2 42.4
249 28.7 23.1 34.7





#69

Atrazine

Concen: 55.160 ng

RT: 16.715 min Scan# 2317

Delta R.T. -0.006 min

Lab File: BM037276.D

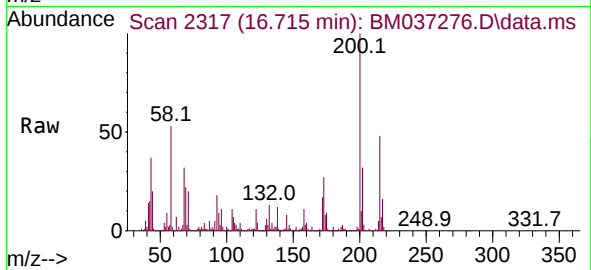
Acq: 29 Oct 2022 18:14

Instrument :

BNA_M

ClientSampleId :

LIDEN-GAS-PIPELINEMSD



Tgt Ion:200 Resp: 741610

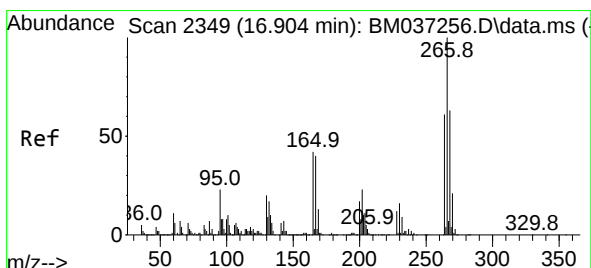
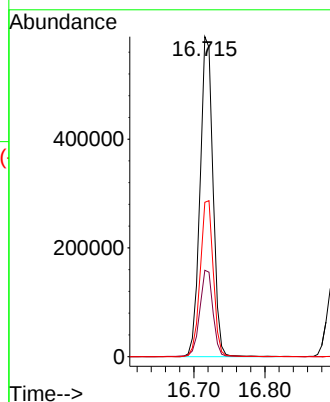
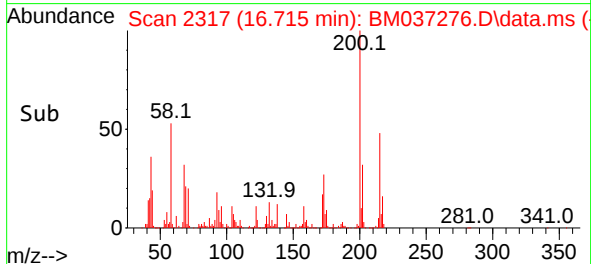
Ion	Ratio	Lower	Upper
200	100		
173	27.0	6.8	46.8
215	48.2	28.5	68.5

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 10/31/2022

Supervised By :Jagrut Upadhyay 11/01/2022



#70

Pentachlorophenol

Concen: 91.365 ng

RT: 16.898 min Scan# 2348

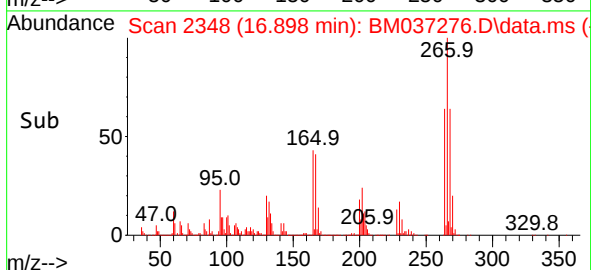
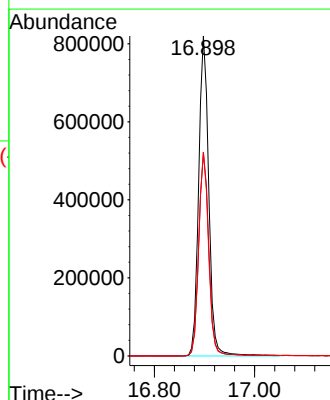
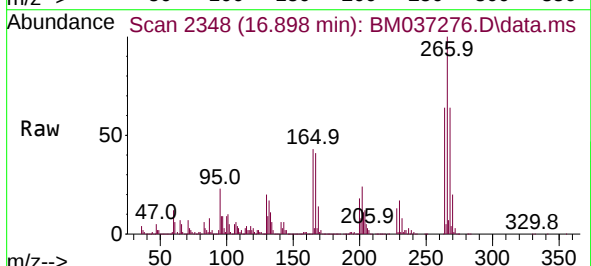
Delta R.T. -0.006 min

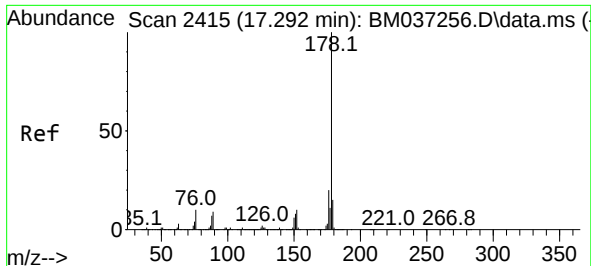
Lab File: BM037276.D

Acq: 29 Oct 2022 18:14

Tgt Ion:266 Resp: 1141380

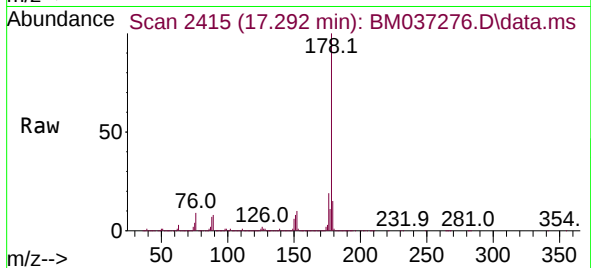
Ion	Ratio	Lower	Upper
266	100		
268	63.6	50.7	76.1
264	63.7	49.1	73.7





#71
Phenanthrene
Concen: 42.787 ng
RT: 17.292 min Scan# 2415
Delta R.T. -0.000 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

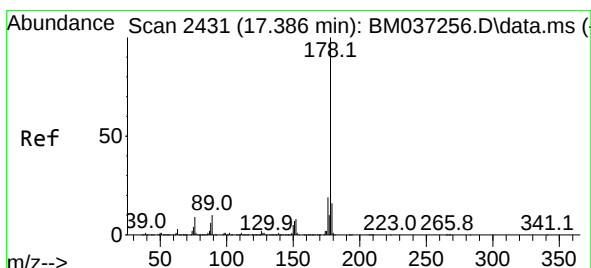
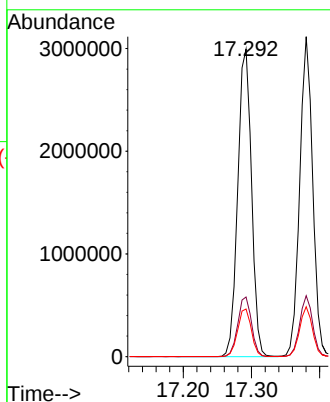
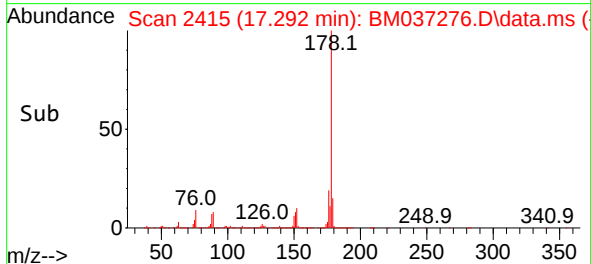
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMSD



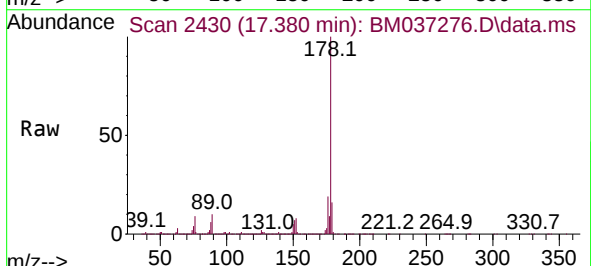
Tgt Ion:178 Resp: 4196475
Ion Ratio Lower Upper
178 100
176 19.4 15.6 23.4
179 15.5 12.4 18.6

Manual Integrations
APPROVED

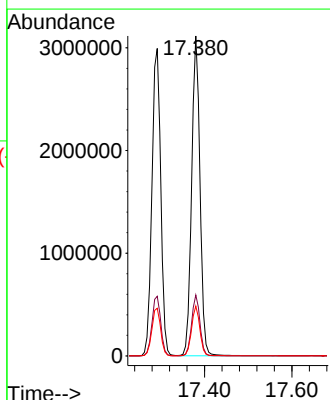
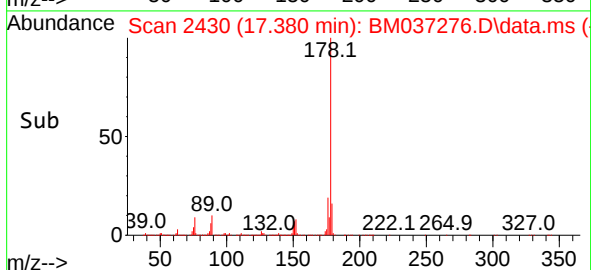
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022

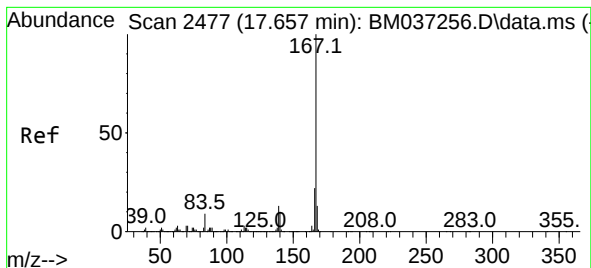


#72
Anthracene
Concen: 44.613 ng
RT: 17.380 min Scan# 2430
Delta R.T. -0.006 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14



Tgt Ion:178 Resp: 4142338
Ion Ratio Lower Upper
178 100
176 19.0 15.4 23.0
179 15.6 12.6 19.0





#73

Carbazole

Concen: 44.032 ng

RT: 17.657 min Scan# 24

Delta R.T. -0.000 min

Lab File: BM037276.D

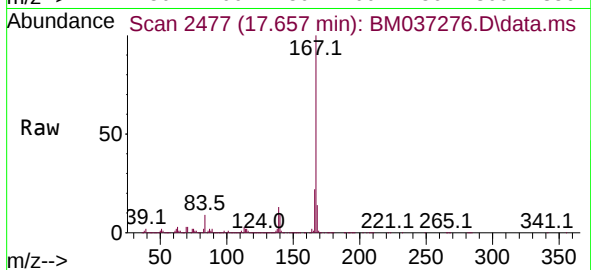
Acq: 29 Oct 2022 18:14

Instrument :

BNA_M

ClientSampleId :

LIDEN-GAS-PIPELINEMSD



Tgt Ion:167 Resp: 3750234

Ion Ratio Lower Upper

167 100

166 21.8 17.4 26.2

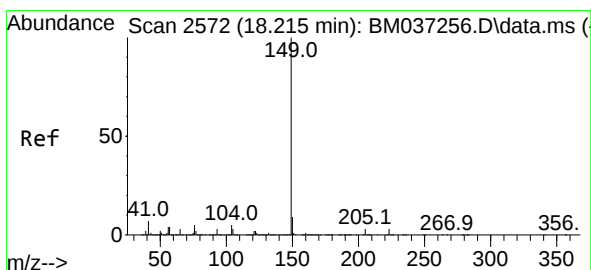
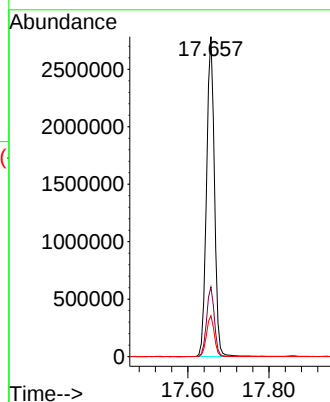
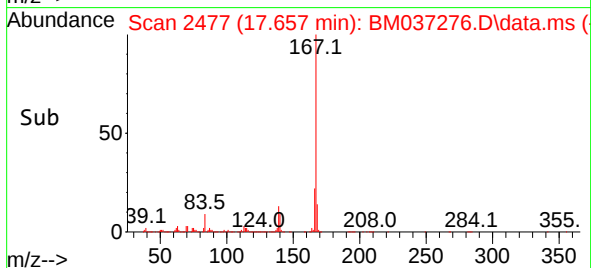
139 12.8 10.4 15.6

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 10/31/2022

Supervised By :Jagrut Upadhyay 11/01/2022



#74

Di-n-butylphthalate

Concen: 46.877 ng

RT: 18.215 min Scan# 2572

Delta R.T. -0.000 min

Lab File: BM037276.D

Acq: 29 Oct 2022 18:14

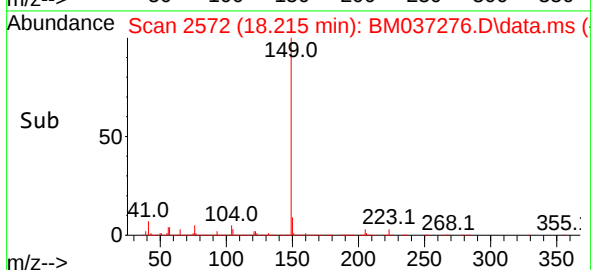
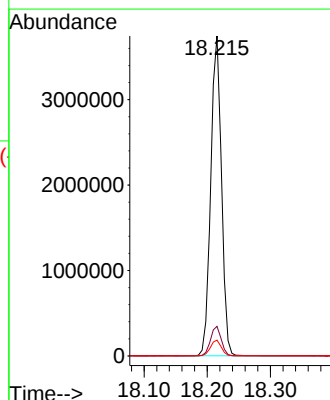
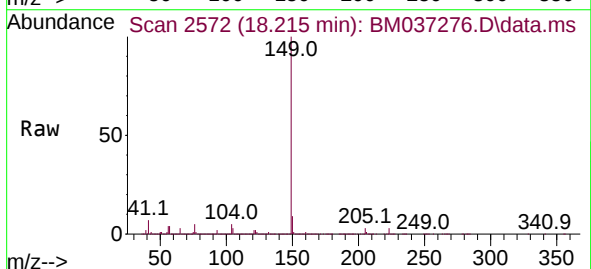
Tgt Ion:149 Resp: 4408561

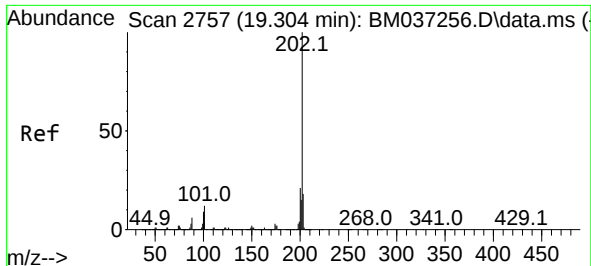
Ion Ratio Lower Upper

149 100

150 9.3 7.4 11.0

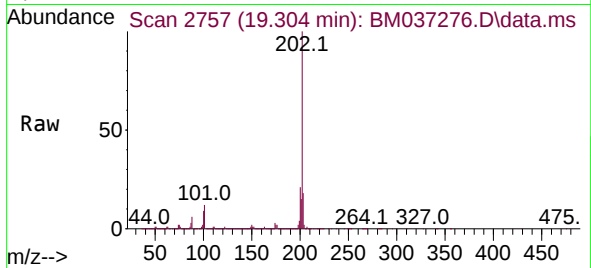
104 4.9 4.0 6.0





#75
Fluoranthene
Concen: 43.503 ng
RT: 19.304 min Scan# 21
Delta R.T. -0.000 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

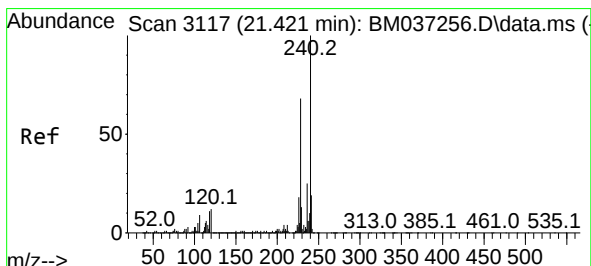
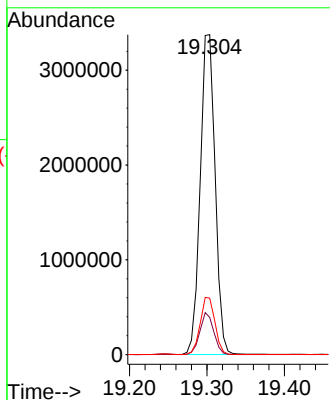
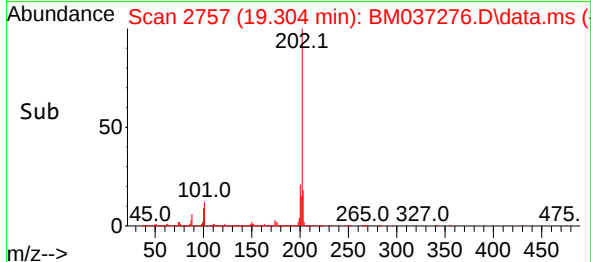
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMSD



Tgt Ion:202 Resp: 4510163
Ion Ratio Lower Upper
202 100
101 11.6 0.0 32.4
203 17.7 0.0 37.8

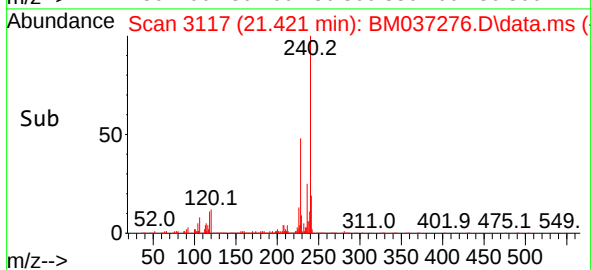
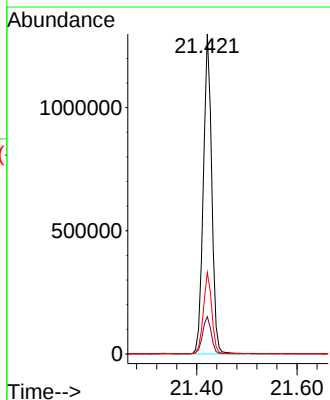
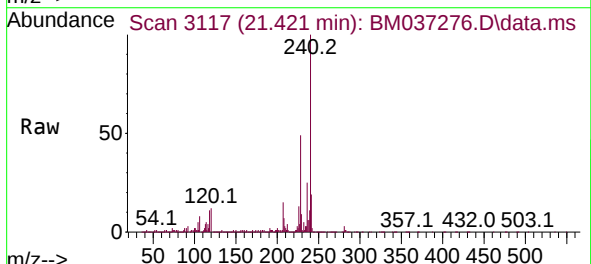
Manual Integrations
APPROVED

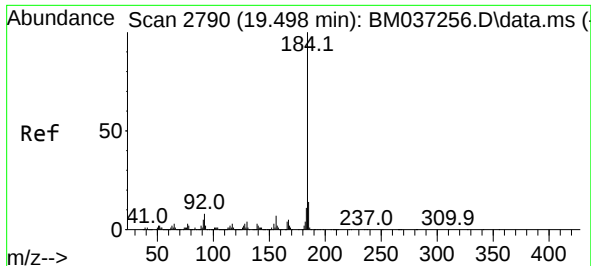
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.421 min Scan# 3117
Delta R.T. 0.000 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

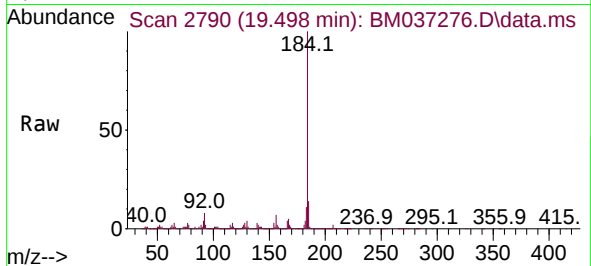
Tgt Ion:240 Resp: 1507242
Ion Ratio Lower Upper
240 100
120 11.6 9.9 14.9
236 25.4 20.3 30.5





#77
Benzidine
Concen: 110.049 ng
RT: 19.498 min Scan# 21
Delta R.T. -0.000 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

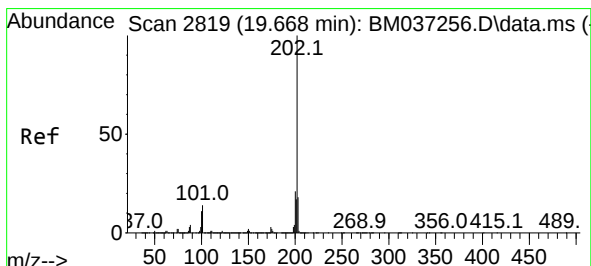
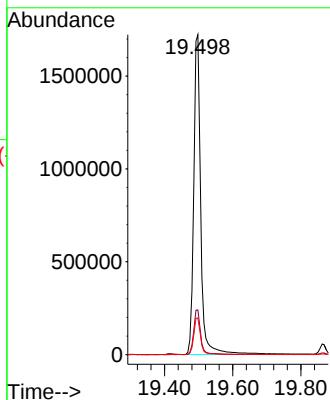
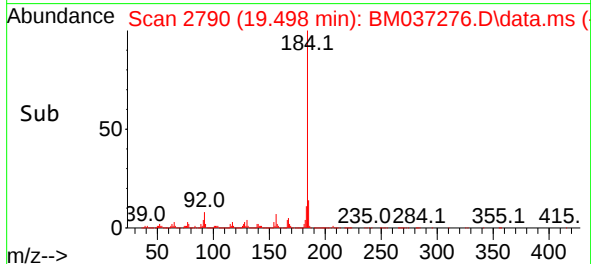
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMSD



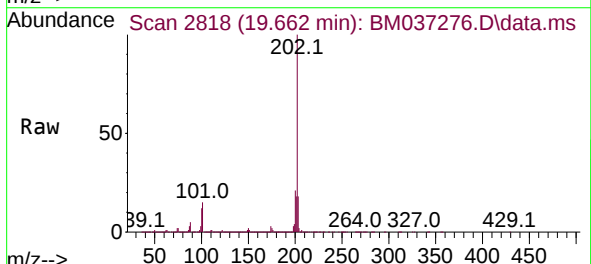
Tgt Ion:184 Resp: 2473369
Ion Ratio Lower Upper
184 100
185 14.0 11.3 16.9
183 11.4 9.0 13.4

Manual Integrations
APPROVED

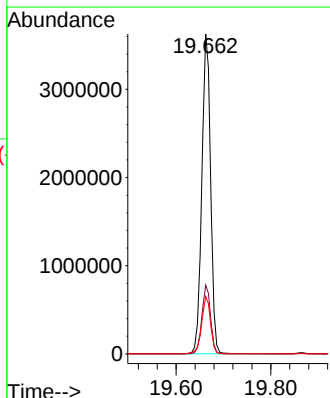
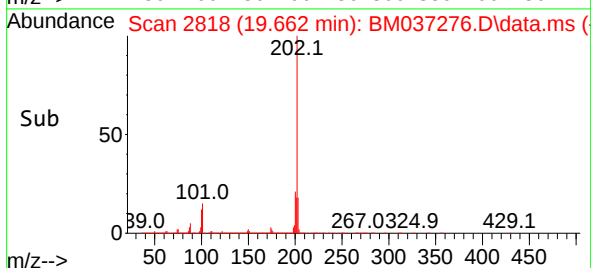
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022

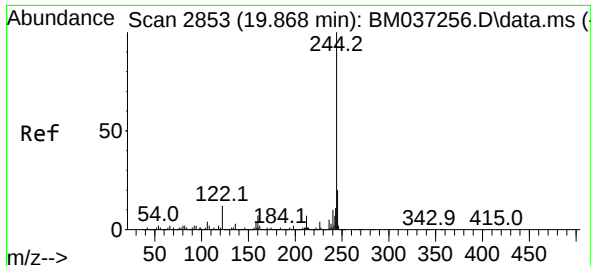


#78
Pyrene
Concen: 40.107 ng
RT: 19.662 min Scan# 2818
Delta R.T. -0.006 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14



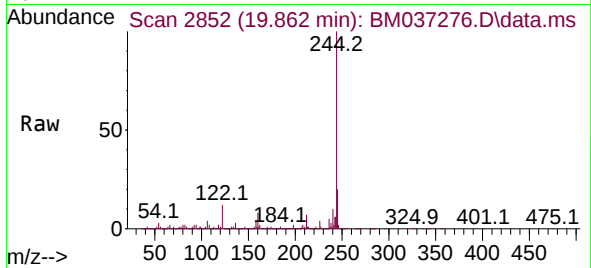
Tgt Ion:202 Resp: 4648462
Ion Ratio Lower Upper
202 100
200 21.5 17.0 25.6
203 17.9 14.1 21.1





#79
 Terphenyl-d14
 Concen: 57.014 ng
 RT: 19.862 min Scan# 2853
 Delta R.T. -0.006 min
 Lab File: BM037276.D
 Acq: 29 Oct 2022 18:14

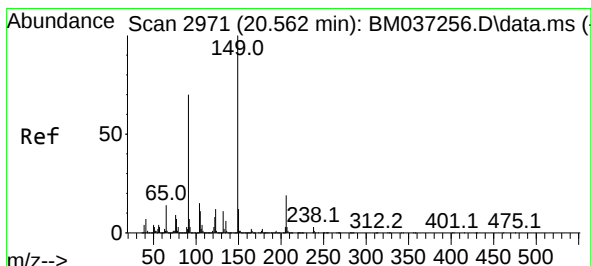
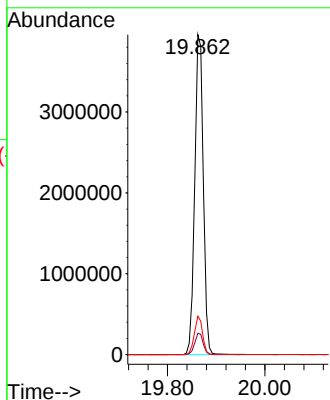
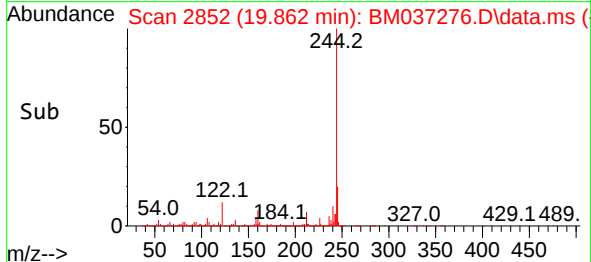
Instrument :
 BNA_M
 ClientSampleId :
 LIDEN-GAS-PIPELINEMSD



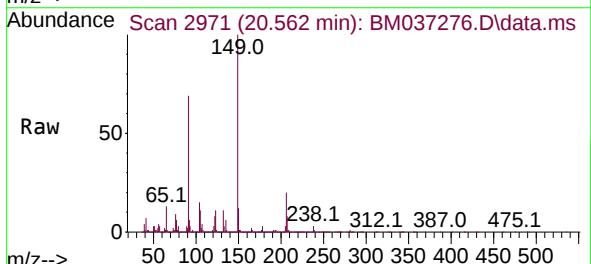
Tgt Ion:244 Resp: 4792023
 Ion Ratio Lower Upper
 244 100
 212 6.7 5.4 8.2
 122 12.0 9.4 14.2

Manual Integrations
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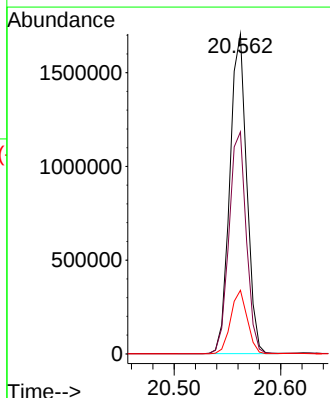
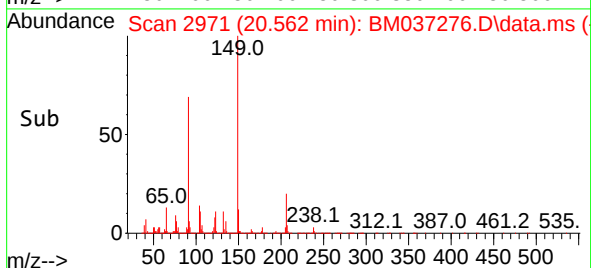
Reviewed By :Christian Giraldo 10/31/2022
 Supervised By :Jagrut Upadhyay 11/01/2022

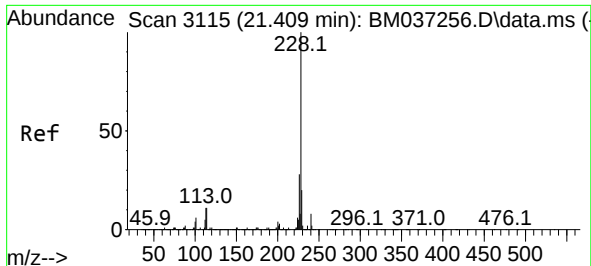


#80
 Butylbenzylphthalate
 Concen: 45.497 ng
 RT: 20.562 min Scan# 2971
 Delta R.T. 0.000 min
 Lab File: BM037276.D
 Acq: 29 Oct 2022 18:14



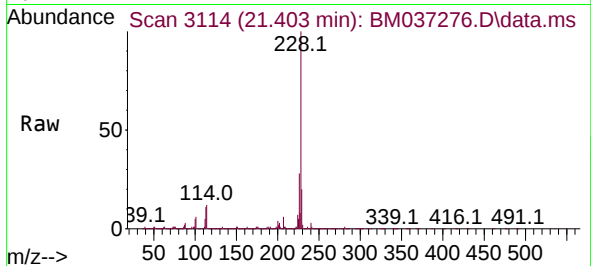
Tgt Ion:149 Resp: 1883189
 Ion Ratio Lower Upper
 149 100
 91 69.4 56.2 84.4
 206 19.9 15.4 23.0





#81
Benzo(a)anthracene
Concen: 42.431 ng
RT: 21.403 min Scan# 3114
Delta R.T. -0.006 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

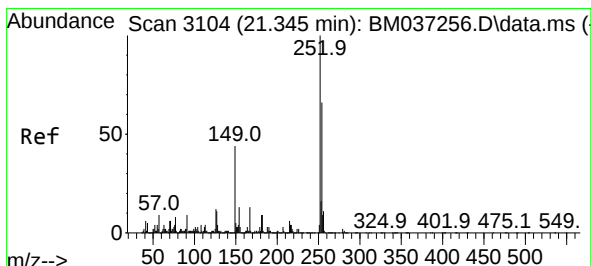
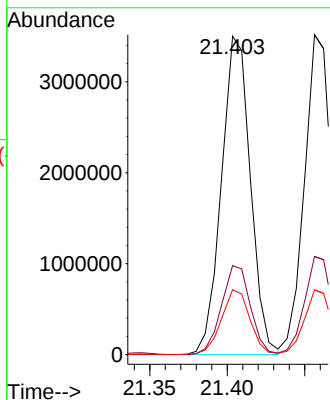
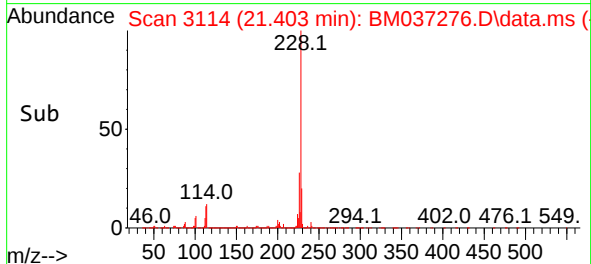
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMSD



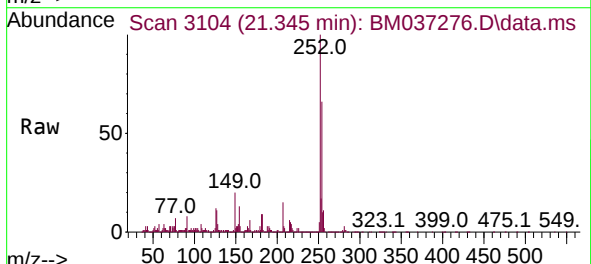
Tgt Ion:228 Resp: 4553105
Ion Ratio Lower Upper
228 100
226 28.0 22.3 33.5
229 20.4 16.2 24.2

Manual Integrations
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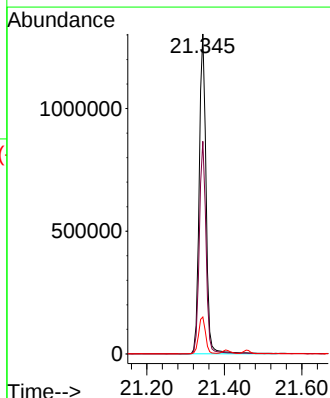
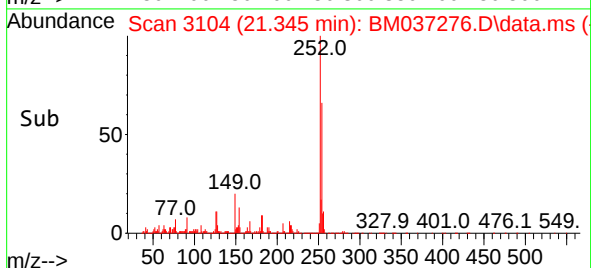
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022

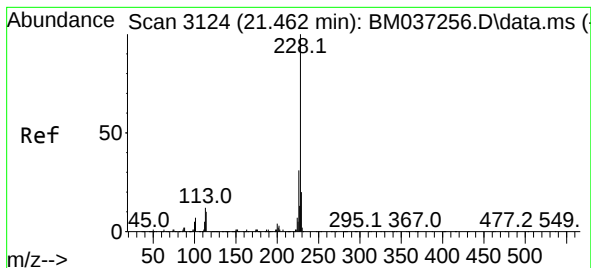


#82
3,3'-Dichlorobenzidine
Concen: 50.427 ng
RT: 21.345 min Scan# 3104
Delta R.T. -0.000 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14



Tgt Ion:252 Resp: 1589283
Ion Ratio Lower Upper
252 100
254 66.4 52.7 79.1
126 11.5 9.8 14.6





#83

Chrysene

Concen: 41.476 ng

RT: 21.456 min Scan# 3124

Delta R.T. -0.006 min

Lab File: BM037276.D

Acq: 29 Oct 2022 18:14

Instrument :

BNA_M

ClientSampleId :

LIDEN-GAS-PIPELINEMSD

Tgt Ion:228 Resp: 4287879

Ion Ratio Lower Upper

228 100

226 30.7 24.4 36.6

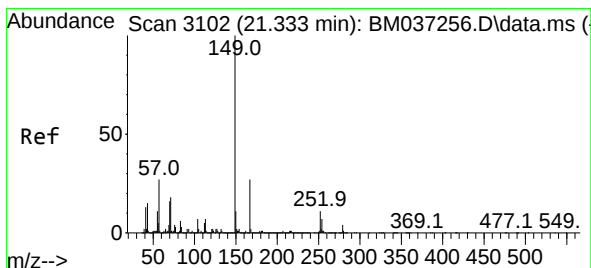
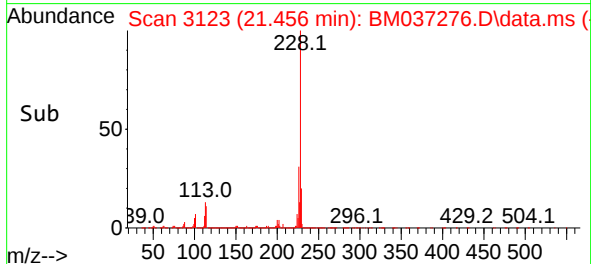
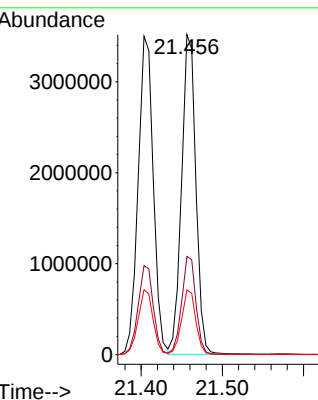
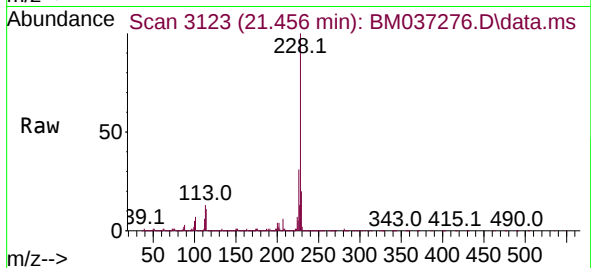
229 20.2 16.0 24.0

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 10/31/2022

Supervised By :Jagrut Upadhyay 11/01/2022



#84

Bis(2-ethylhexyl)phthalate

Concen: 51.061 ng

RT: 21.333 min Scan# 3102

Delta R.T. -0.000 min

Lab File: BM037276.D

Acq: 29 Oct 2022 18:14

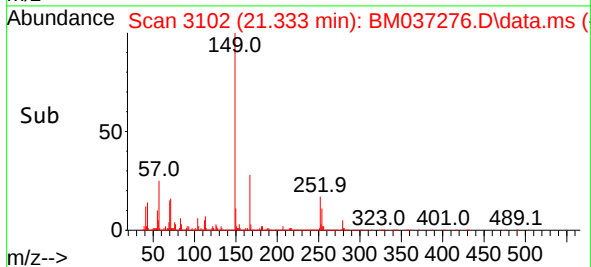
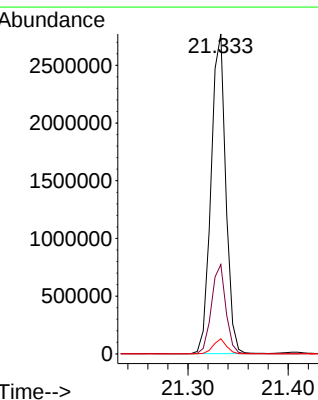
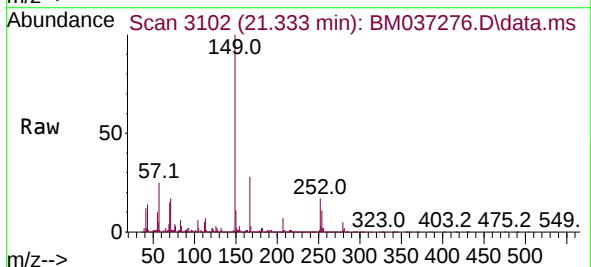
Tgt Ion:149 Resp: 2836639

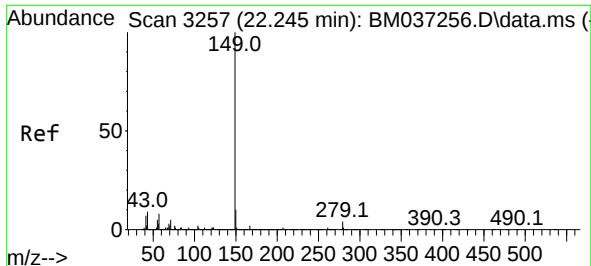
Ion Ratio Lower Upper

149 100

167 27.9 21.2 31.8

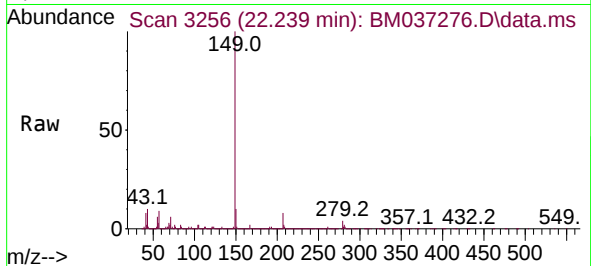
279 4.7 3.1 4.7#





#85
Di-n-octyl phthalate
Concen: 53.977 ng
RT: 22.239 min Scan# 31
Delta R.T. -0.006 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

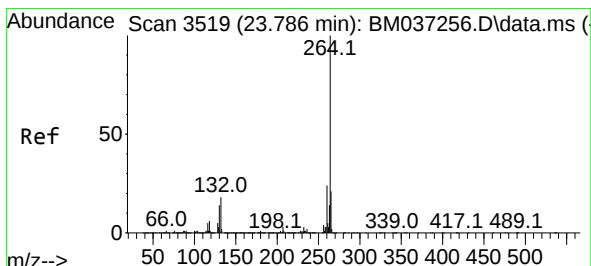
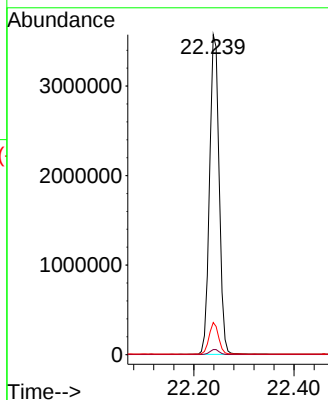
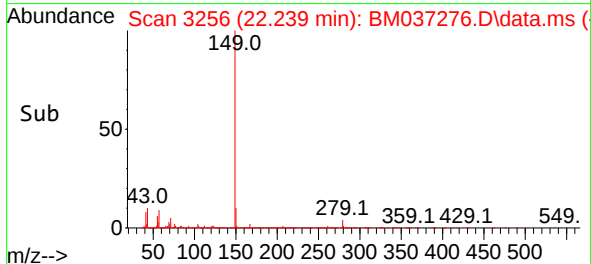
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMSD



Tgt Ion:149 Resp: 4722512
Ion Ratio Lower Upper
149 100
167 1.6 1.3 1.9
43 9.9 8.0 12.0

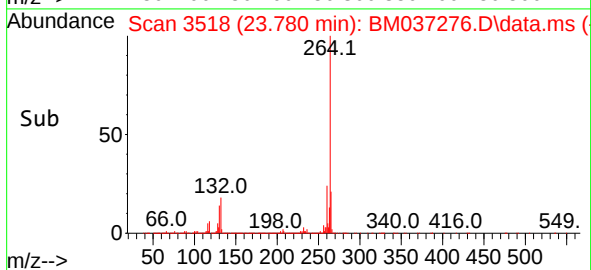
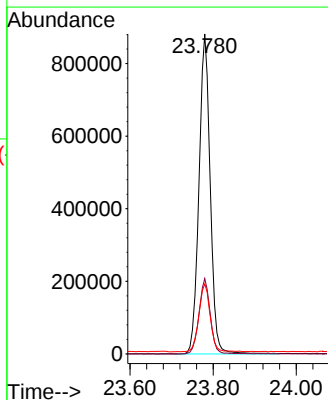
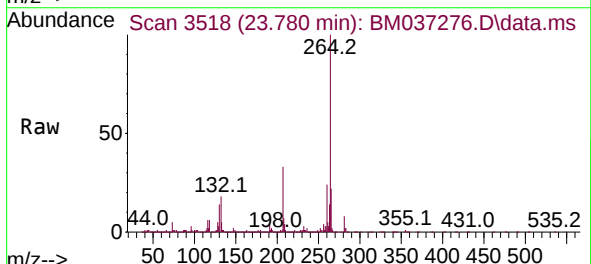
Manual Integrations
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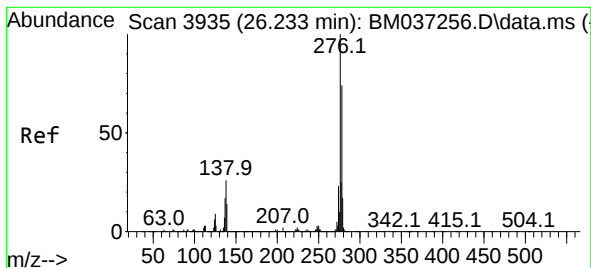
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022



#86
Perylene-d12
Concen: 20.000 ng
RT: 23.780 min Scan# 3518
Delta R.T. -0.006 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

Tgt Ion:264 Resp: 1655396
Ion Ratio Lower Upper
264 100
260 23.6 18.9 28.3
265 21.9 17.7 26.5





#87

Indeno(1,2,3-cd)pyrene

Concen: 45.403 ng

RT: 26.227 min Scan# 3934

Delta R.T. -0.006 min

Lab File: BM037276.D

Acq: 29 Oct 2022 18:14

Instrument :

BNA_M

ClientSampleId :

LIDEN-GAS-PIPELINEMSD

Tgt Ion:276 Resp: 615391

Ion Ratio Lower Upper

276 100

138 26.7 21.5 32.3

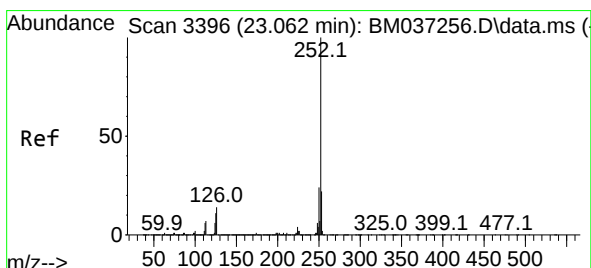
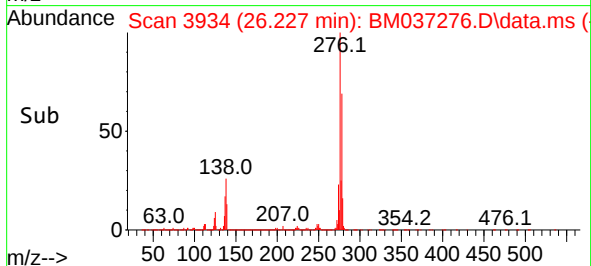
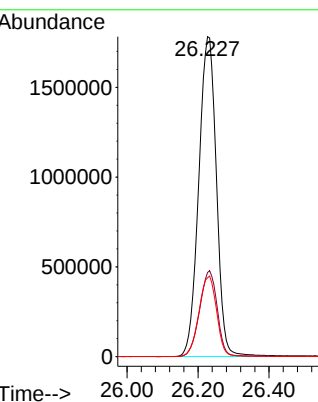
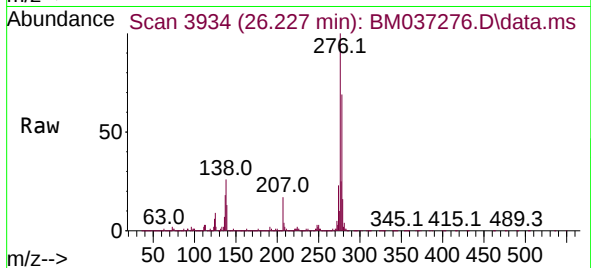
277 25.2 20.1 30.1

Manual Integrations

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Reviewed By :Christian Giraldo 10/31/2022

Supervised By :Jagrut Upadhyay 11/01/2022



#88

Benzo(b)fluoranthene

Concen: 44.290 ng

RT: 23.062 min Scan# 3396

Delta R.T. -0.000 min

Lab File: BM037276.D

Acq: 29 Oct 2022 18:14

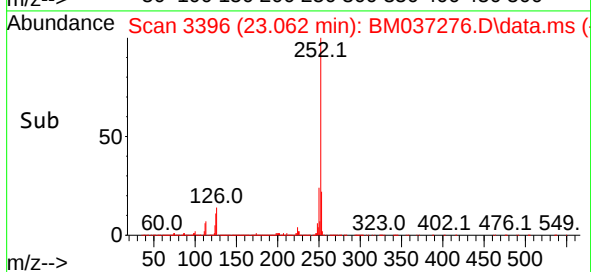
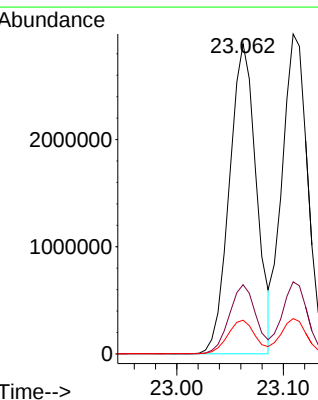
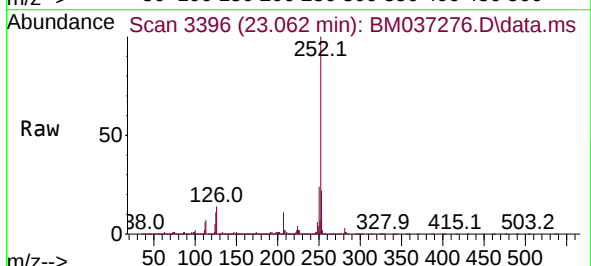
Tgt Ion:252 Resp: 5090087

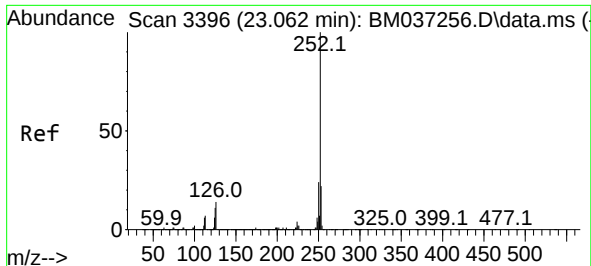
Ion Ratio Lower Upper

252 100

253 22.3 17.8 26.6

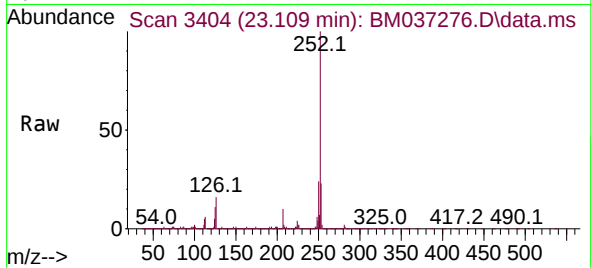
125 10.9 9.1 13.7





#89
Benzo(k)fluoranthene
Concen: 42.541 ng
RT: 23.109 min Scan# 34
Delta R.T. -0.006 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

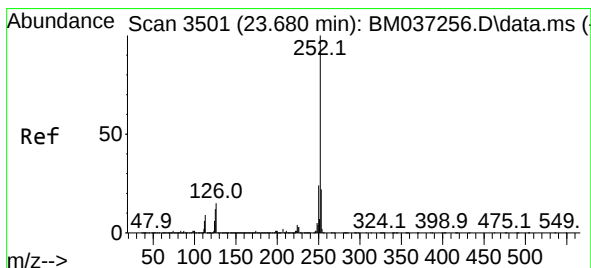
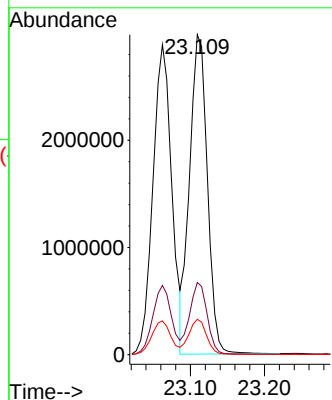
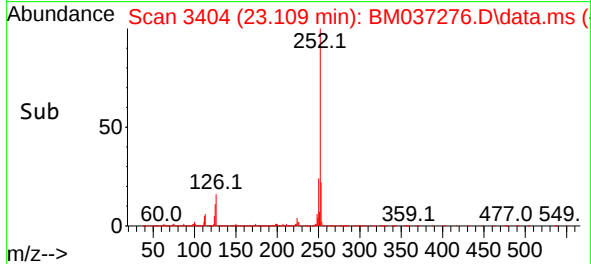
Instrument :
BNA_M
ClientSampleId :
LIDEN-GAS-PIPELINEMSD



Tgt Ion:252 Resp: 498694
Ion Ratio Lower Upper
252 100
253 22.5 17.8 26.6
125 11.1 9.1 13.7

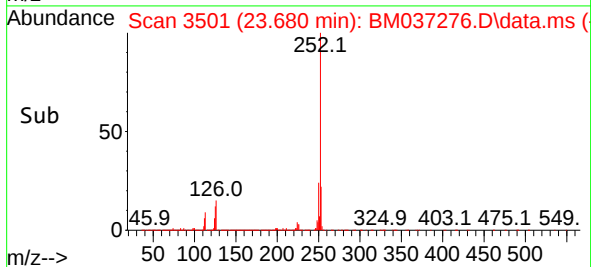
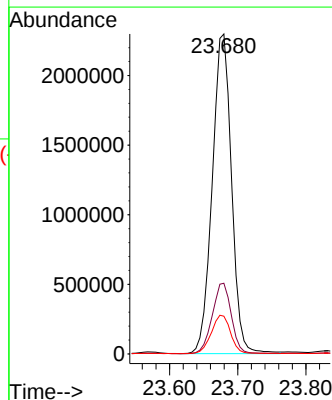
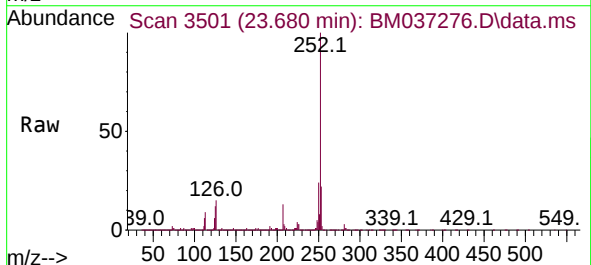
Manual Integrations
APPROVED

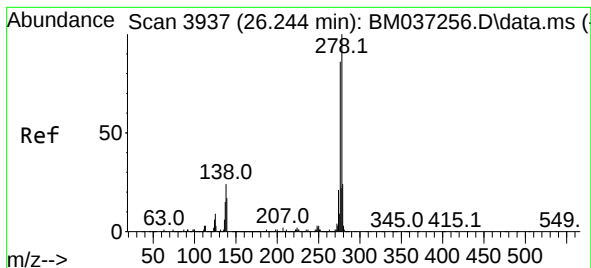
Reviewed By :Christian Giraldo 10/31/2022
Supervised By :Jagrut Upadhyay 11/01/2022



#90
Benzo(a)pyrene
Concen: 47.969 ng
RT: 23.680 min Scan# 3501
Delta R.T. -0.000 min
Lab File: BM037276.D
Acq: 29 Oct 2022 18:14

Tgt Ion:252 Resp: 4491815
Ion Ratio Lower Upper
252 100
253 22.1 17.4 26.2
125 11.8 9.9 14.9





#91

Dibenzo(a,h)anthracene

Concen: 46.598 ng

RT: 26.244 min Scan# 3937

Delta R.T. -0.000 min

Lab File: BM037276.D

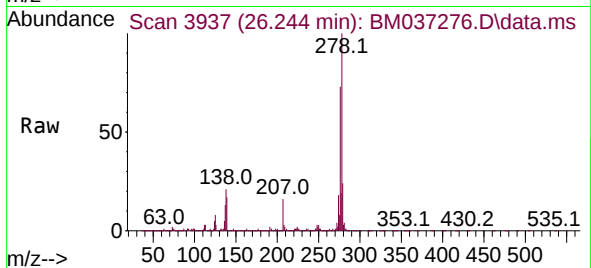
Acq: 29 Oct 2022 18:14

Instrument :

BNA_M

ClientSampleId :

LIDEN-GAS-PIPELINEMSD



Tgt Ion:278 Resp: 5244963

Ion Ratio Lower Upper

278 100

139 16.9 13.8 20.8

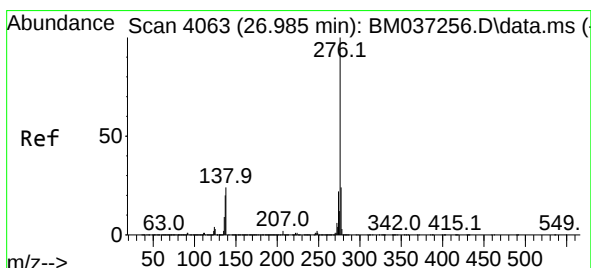
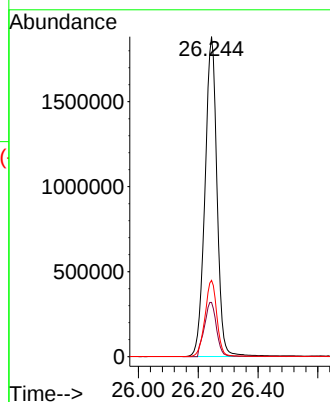
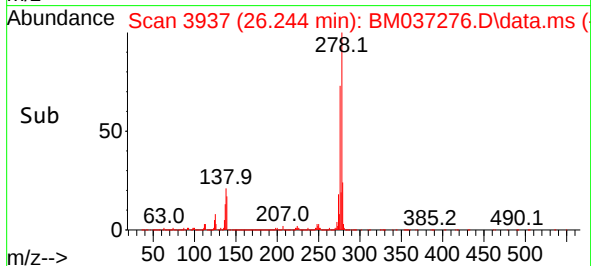
279 23.8 19.0 28.6

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 10/31/2022

Supervised By :Jagrut Upadhyay 11/01/2022



#92

Benzo(g,h,i)perylene

Concen: 45.859 ng

RT: 26.980 min Scan# 4062

Delta R.T. -0.006 min

Lab File: BM037276.D

Acq: 29 Oct 2022 18:14

Tgt Ion:276 Resp: 5023673

Ion Ratio Lower Upper

276 100

277 24.2 19.4 29.2

138 23.5 18.9 28.3

