

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071522\
 Data File : BF129249.D
 Acq On : 15 Jul 2022 20:58
 Operator : CG\JU
 Sample : N3697-01MSD
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PIPELINE-PIGGING-TK2045LMSD

Quant Time: Jul 16 01:43:14 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071522.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 15 12:55:49 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	246989	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	1000885	20.000	ng	0.00
39) Acenaphthene-d10	9.945	164	509990	20.000	ng	0.00
64) Phenanthrene-d10	11.433	188	794624	20.000	ng	# 0.00
76) Chrysene-d12	14.074	240	471490	20.000	ng	# 0.00
86) Perylene-d12	15.562	264	462190	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.534	112	1821722	117.794	ng	0.02
7) Phenol-d6	6.534	99	2221126	111.045	ng	0.00
23) Nitrobenzene-d5	7.469	82	1666038	88.979	ng	0.00
42) 2,4,6-Tribromophenol	10.739	330	618516	130.666	ng	0.00
45) 2-Fluorobiphenyl	9.263	172	2617127	86.942	ng	0.00
79) Terphenyl-d14	13.015	244	2146116	85.150	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.769	88	341347	48.448	ng	91
3) Pyridine	3.546	79	855367	47.207	ng	92
4) n-Nitrosodimethylamine	3.498	42	468319	54.718	ng	93
6) Aniline	6.569	93	1024103	43.580	ng	98
8) 2-Chlorophenol	6.686	128	917005	56.312	ng	98
9) Benzaldehyde	6.451	77	459346	37.421	ng	99
10) Phenol	6.545	94	1053368	52.427	ng	95
11) bis(2-Chloroethyl)ether	6.634	93	985995	60.507	ng	96
12) 1,3-Dichlorobenzene	6.839	146	957158	55.271	ng	98
13) 1,4-Dichlorobenzene	6.916	146	966108	55.157	ng	98
14) 1,2-Dichlorobenzene	7.069	146	929518	56.934	ng	99
15) Benzyl Alcohol	7.045	79	855148	64.195	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.169	45	1488816	57.339	ng	96
17) 2-Methylphenol	7.151	107	744598	54.396	ng	99
18) Hexachloroethane	7.410	117	377669	57.707	ng	# 88
19) n-Nitroso-di-n-propyla...	7.316	70	683564	58.102	ng	95
20) 3+4-Methylphenols	7.304	107	890400	52.925	ng	90
22) Acetophenone	7.310	105	1245749	53.934	ng	# 95
24) Nitrobenzene	7.486	77	1009470	56.675	ng	94
25) Isophorone	7.722	82	1905443	60.550	ng	100
26) 2-Nitrophenol	7.798	139	497145	55.565	ng	95
27) 2,4-Dimethylphenol	7.833	122	894283	64.280	ng	98
28) bis(2-Chloroethoxy)met...	7.928	93	1179334	56.261	ng	99
29) 2,4-Dichlorophenol	8.039	162	738831	53.419	ng	99
30) 1,2,4-Trichlorobenzene	8.122	180	758880	52.878	ng	96
31) Naphthalene	8.204	128	2644053	55.757	ng	99
32) Benzoic acid	7.963	122	449891	41.637	ng	# 74
33) 4-Chloroaniline	8.251	127	391431	19.905	ng	96
34) Hexachlorobutadiene	8.316	225	429363	53.179	ng	100
35) Caprolactam	8.686	113	228176	49.664	ng	# 85
36) 4-Chloro-3-methylphenol	8.739	107	832931	55.205	ng	94
37) 2-Methylnaphthalene	8.898	142	1769416	57.249	ng	99
38) 1-Methylnaphthalene	8.998	142	1661368	55.582	ng	98
40) 1,2,4,5-Tetrachloroben...	9.063	216	692154	54.588	ng	98
41) Hexachlorocyclopentadiene	9.045	237	542649	85.046	ng	98
43) 2,4,6-Trichlorophenol	9.175	196	498974	53.442	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071522\
 Data File : BF129249.D
 Acq On : 15 Jul 2022 20:58
 Operator : CG\JU
 Sample : N3697-01MSD
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

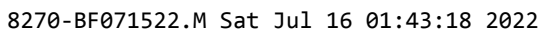
Instrument :
 BNA_F
 ClientSampleId :
 PIPELINE-PIGGING-TK2045LMSD

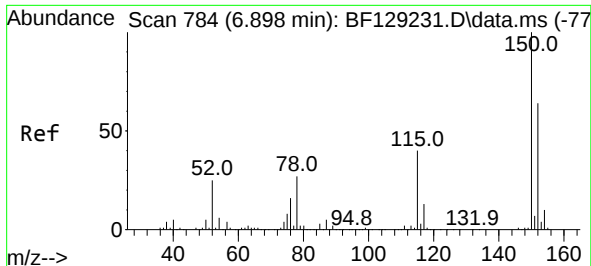
Quant Time: Jul 16 01:43:14 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071522.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 15 12:55:49 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.222	196	524353	53.092	ng	# 94
46) 1,1'-Biphenyl	9.363	154	1967772	54.552	ng	99
47) 2-Chloronaphthalene	9.386	162	1545857	54.409	ng	98
48) 2-Nitroaniline	9.486	65	550325	57.653	ng	95
49) Acenaphthylene	9.810	152	2326359	54.401	ng	100
50) Dimethylphthalate	9.669	163	1839003	55.568	ng	99
51) 2,6-Dinitrotoluene	9.727	165	423974	59.203	ng	88
52) Acenaphthene	9.980	154	1441257	51.561	ng	99
53) 3-Nitroaniline	9.898	138	247735	28.969	ng	96
54) 2,4-Dinitrophenol	10.004	184	194627	50.708	ng	95
55) Dibenzofuran	10.151	168	2056220	51.820	ng	96
56) 4-Nitrophenol	10.069	139	568745	84.028	ng	95
57) 2,4-Dinitrotoluene	10.133	165	548752	58.435	ng	97
58) Fluorene	10.492	166	1616279	53.554	ng	98
59) 2,3,4,6-Tetrachlorophenol	10.269	232	388973	50.985	ng	# 90
60) Diethylphthalate	10.363	149	1758329	54.941	ng	99
61) 4-Chlorophenyl-phenyle...	10.480	204	725276	51.876	ng	# 87
62) 4-Nitroaniline	10.516	138	397795	46.986	ng	96
63) Azobenzene	10.645	77	1798295	52.639	ng	96
65) 4,6-Dinitro-2-methylph...	10.539	198	192734	38.389	ng	# 73
66) n-Nitrosodiphenylamine	10.604	169	1462257	57.676	ng	97
67) 4-Bromophenyl-phenylether	10.974	248	467476	55.886	ng	90
68) Hexachlorobenzene	11.045	284	482568	54.960	ng	98
69) Atrazine	11.145	200	432652	61.556	ng	94
70) Pentachlorophenol	11.245	266	523992	100.359	ng	98
71) Phenanthrene	11.463	178	2240096	55.525	ng	100
72) Anthracene	11.516	178	2198394	54.856	ng	99
73) Carbazole	11.669	167	2031623	50.823	ng	99
74) Di-n-butylphthalate	11.986	149	2570365	55.952	ng	97
75) Fluoranthene	12.651	202	2008894	49.997	ng	98
78) Pyrene	12.880	202	1985141	51.983	ng	100
80) Butylbenzylphthalate	13.486	149	928929	54.612	ng	99
81) Benzo(a)anthracene	14.068	228	1523017	51.211	ng	100
82) 3,3'-Dichlorobenzidine	14.027	252	206084	27.701	ng	# 96
83) Chrysene	14.104	228	1423815	50.157	ng	99
84) Bis(2-ethylhexyl)phtha...	14.039	149	1349138	59.608	ng	100
85) Di-n-octyl phthalate	14.657	149	1933928	59.573	ng	98
87) Indeno(1,2,3-cd)pyrene	17.086	276	1812420	62.887	ng	97
88) Benzo(b)fluoranthene	15.162	252	1405408	49.497	ng	99
89) Benzo(k)fluoranthene	15.162	252	1405408	50.662	ng	99
90) Benzo(a)pyrene	15.504	252	1409607	60.982	ng	# 95
91) Dibenzo(a,h)anthracene	17.103	278	1546054	66.320	ng	96
92) Benzo(g,h,i)perylene	17.551	276	1578292	66.232	ng	97

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

Quant Time: Jul 16 01:43:14 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 15 12:55:49 2022
Response via : Initial Calibration

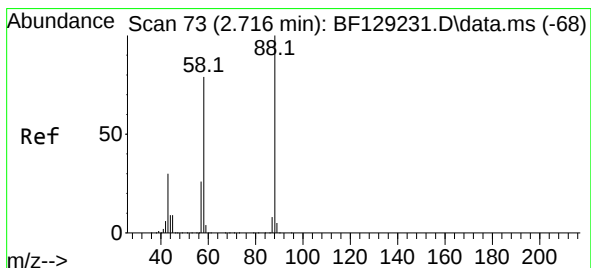
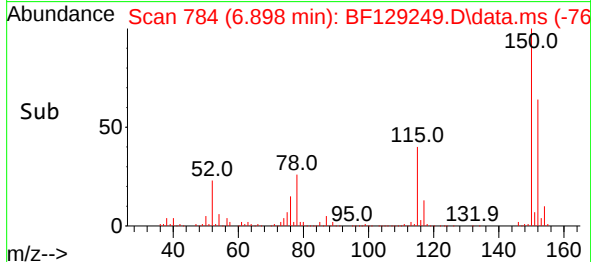
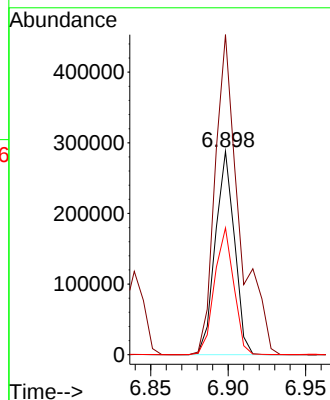
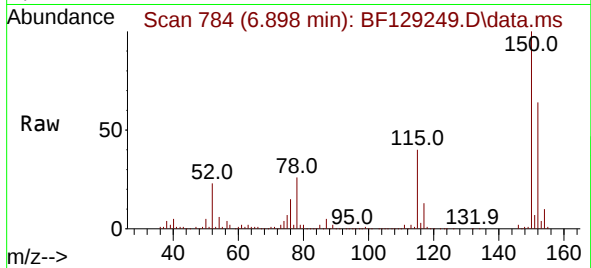




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.898 min Scan# 71
 Delta R.T. 0.000 min
 Lab File: BF129249.D
 Acq: 15 Jul 2022 20:58

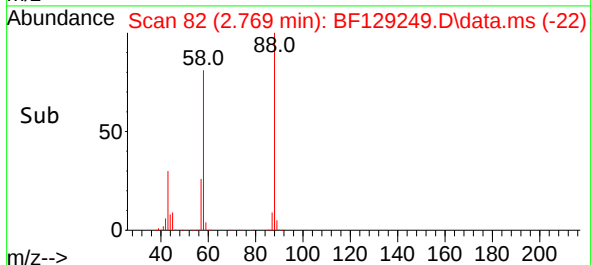
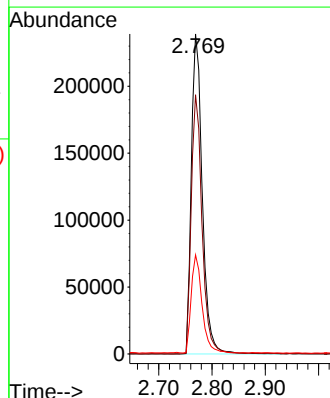
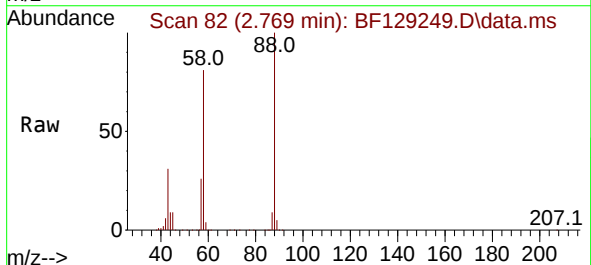
Instrument :
 BNA_F
 ClientSampleId :
 PIPELINE-PIGGING-TK2045LMSD

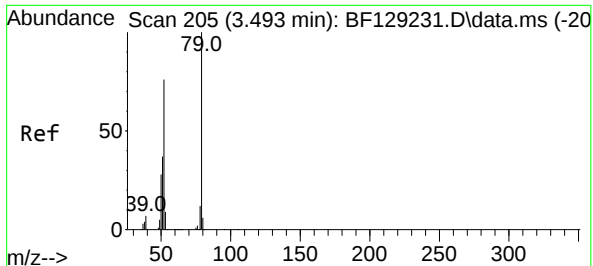
Tgt Ion:152 Resp: 246989
 Ion Ratio Lower Upper
 152 100
 150 157.4 123.7 185.5
 115 62.3 49.9 74.9



#2
 1,4-Dioxane
 Concen: 48.448 ng
 RT: 2.769 min Scan# 82
 Delta R.T. 0.053 min
 Lab File: BF129249.D
 Acq: 15 Jul 2022 20:58

Tgt Ion: 88 Resp: 341347
 Ion Ratio Lower Upper
 88 100
 58 80.0 71.8 107.8
 43 30.4 26.6 39.8

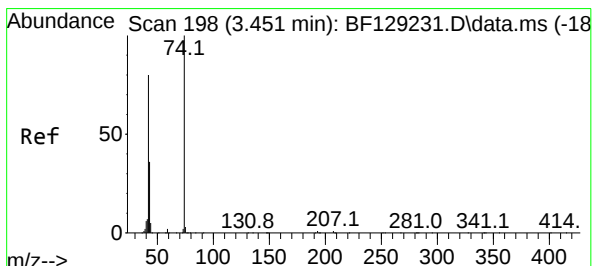
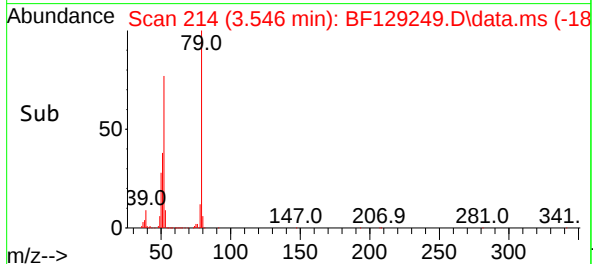
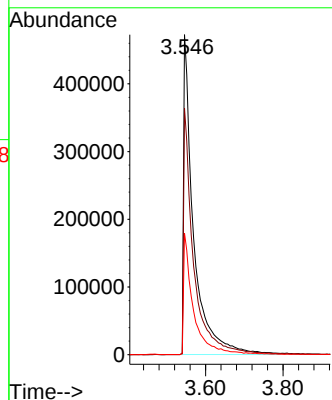
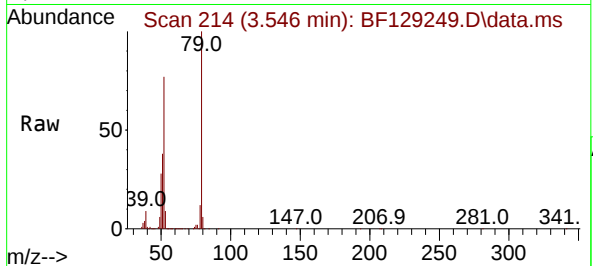




#3
 Pyridine
 Concen: 47.207 ng
 RT: 3.546 min Scan# 214
 Delta R.T. 0.053 min
 Lab File: BF129249.D
 Acq: 15 Jul 2022 20:58

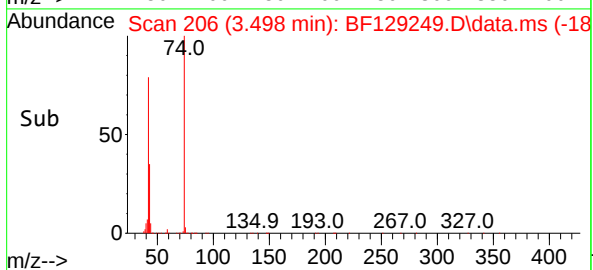
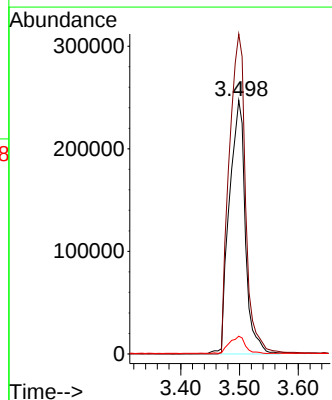
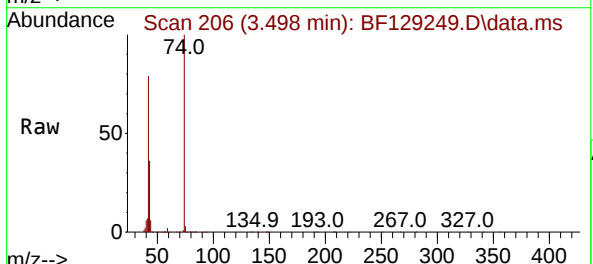
Instrument :
 BNA_F
 ClientSampleId :
 PIPELINE-PIGGING-TK2045LMSD

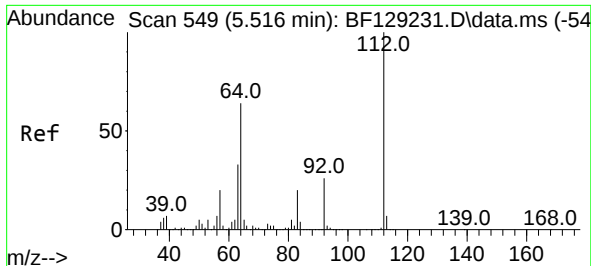
Tgt Ion: 79 Resp: 855367
 Ion Ratio Lower Upper
 79 100
 52 77.0 68.6 102.8
 51 38.0 32.9 49.3



#4
 n-Nitrosodimethylamine
 Concen: 54.718 ng
 RT: 3.498 min Scan# 206
 Delta R.T. 0.047 min
 Lab File: BF129249.D
 Acq: 15 Jul 2022 20:58

Tgt Ion: 42 Resp: 468319
 Ion Ratio Lower Upper
 42 100
 74 126.2 94.8 142.2
 44 7.0 6.6 10.0

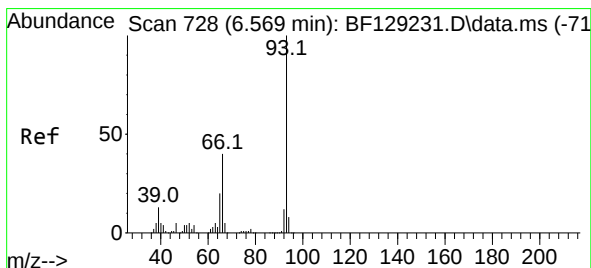
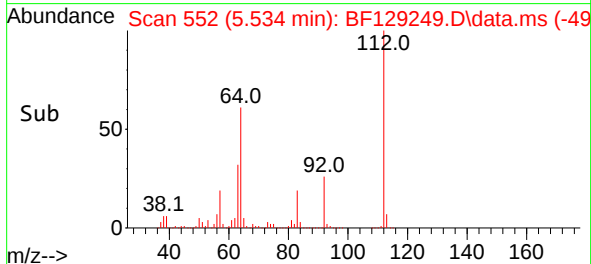
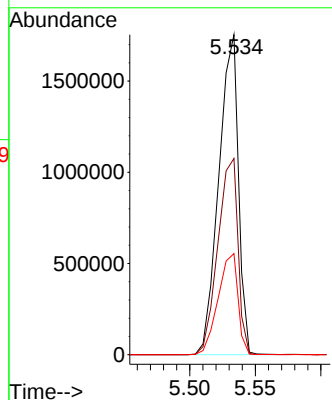
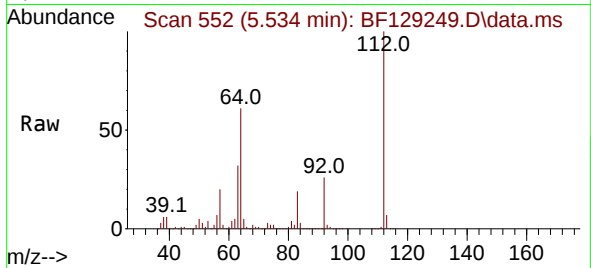




#5
2-Fluorophenol
Concen: 117.794 ng
RT: 5.534 min Scan# 511
Delta R.T. 0.018 min
Lab File: BF129249.D
Acq: 15 Jul 2022 20:58

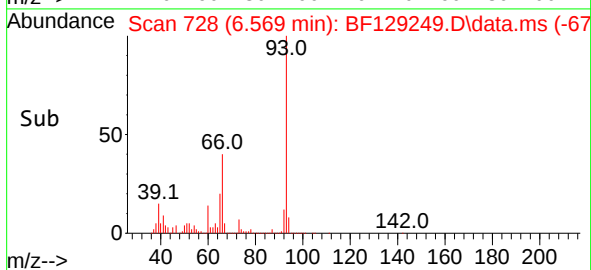
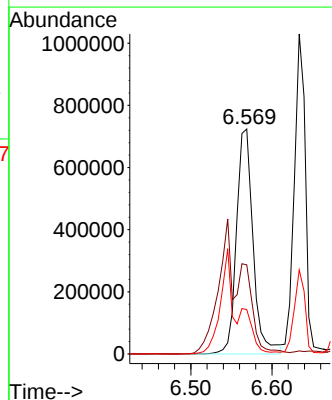
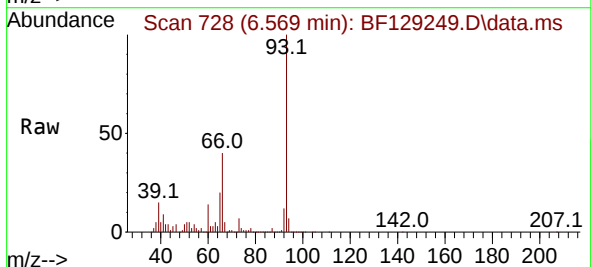
Instrument :
BNA_F
ClientSampleId :
PIPELINE-PIGGING-TK2045LMSD

Tgt Ion:112 Resp: 1821722
Ion Ratio Lower Upper
112 100
64 61.3 53.3 79.9
63 31.6 28.0 42.0



#6
Aniline
Concen: 43.580 ng
RT: 6.569 min Scan# 728
Delta R.T. -0.000 min
Lab File: BF129249.D
Acq: 15 Jul 2022 20:58

Tgt Ion: 93 Resp: 1024103
Ion Ratio Lower Upper
93 100
66 39.6 32.5 48.7
65 19.7 16.4 24.6

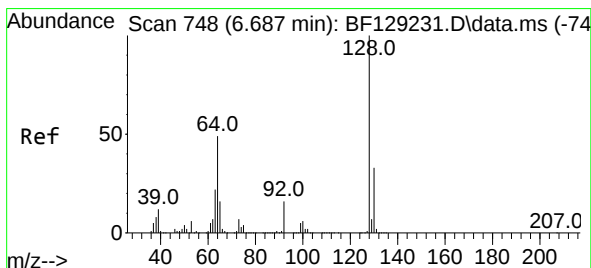
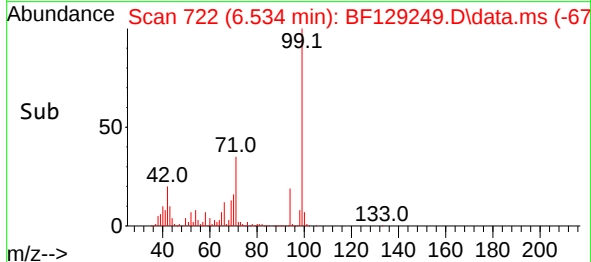
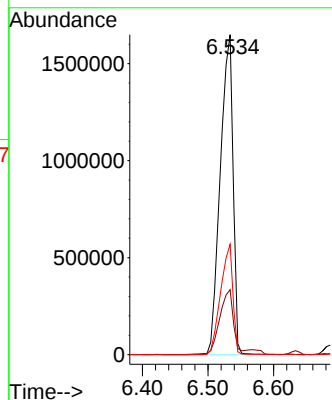
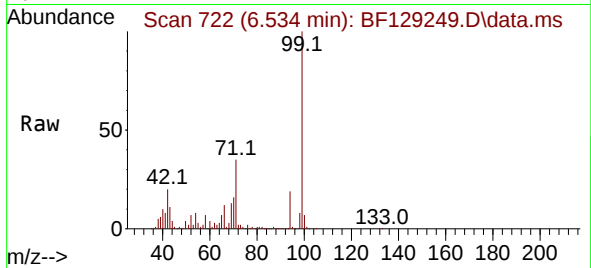




#7
Phenol-d6
Concen: 111.045 ng
RT: 6.534 min Scan# 71
Delta R.T. 0.006 min
Lab File: BF129249.D
Acq: 15 Jul 2022 20:58

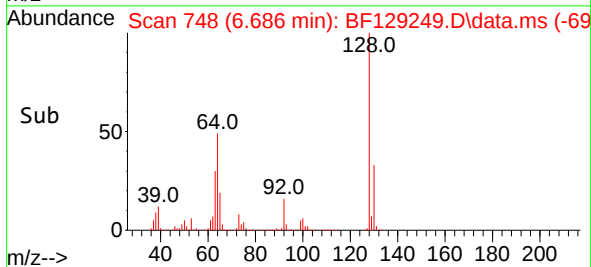
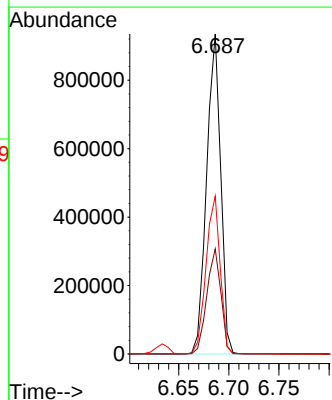
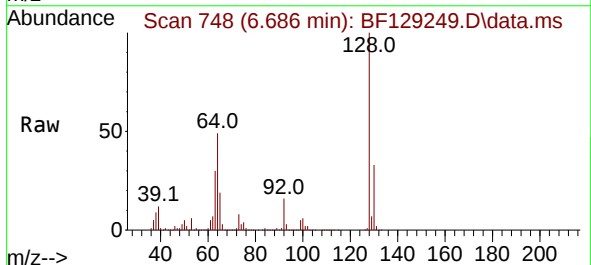
Instrument :
BNA_F
ClientSampleId :
PIPELINE-PIGGING-TK2045LMSD

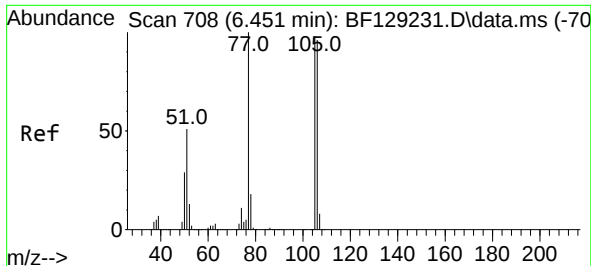
Tgt Ion: 99 Resp: 2221126
Ion Ratio Lower Upper
99 100
42 20.3 17.3 25.9
71 34.5 28.9 43.3



#8
2-Chlorophenol
Concen: 56.312 ng
RT: 6.686 min Scan# 748
Delta R.T. -0.000 min
Lab File: BF129249.D
Acq: 15 Jul 2022 20:58

Tgt Ion:128 Resp: 917005
Ion Ratio Lower Upper
128 100
130 32.9 13.1 53.1
64 49.4 30.9 70.9

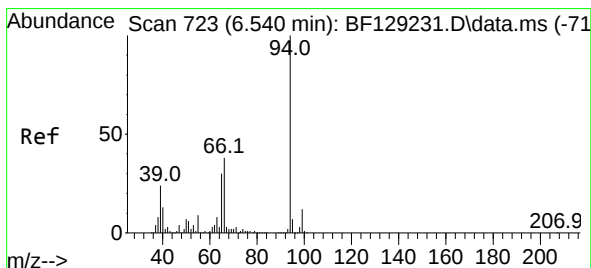
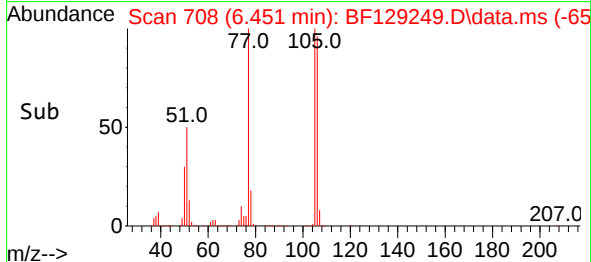
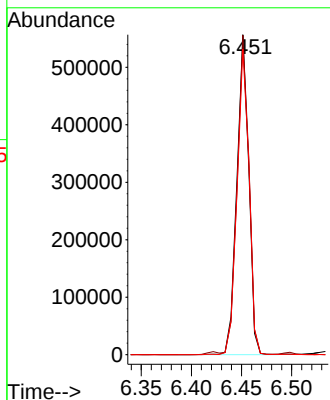
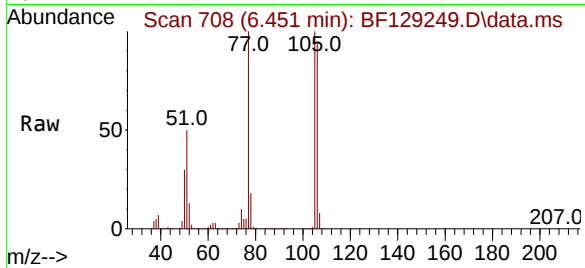




#9
Benzaldehyde
Concen: 37.421 ng
RT: 6.451 min Scan# 708
Delta R.T. -0.000 min
Lab File: BF129249.D
Acq: 15 Jul 2022 20:58

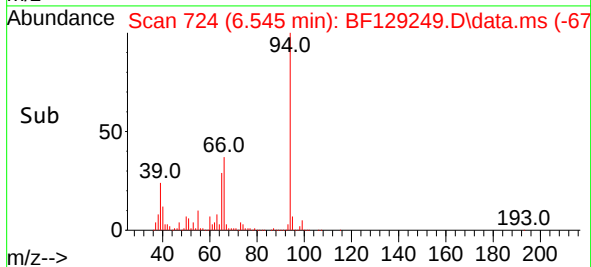
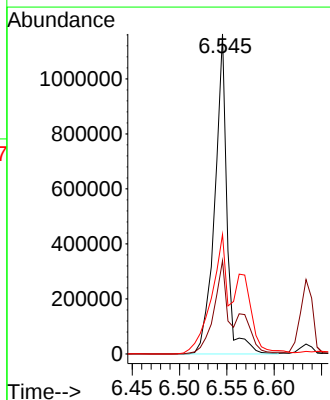
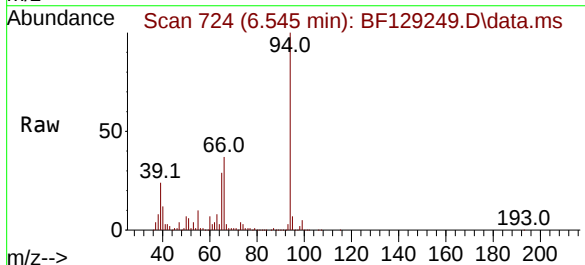
Instrument :
BNA_F
ClientSampleId :
PIPELINE-PIGGING-TK2045LMSD

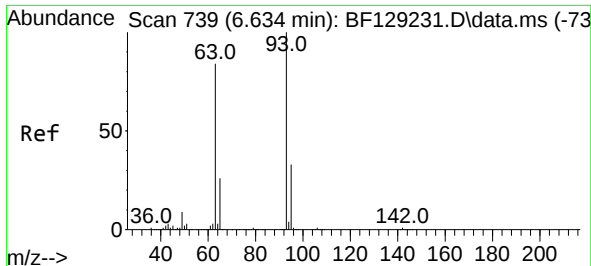
Tgt Ion: 77 Resp: 459346
Ion Ratio Lower Upper
77 100
105 99.8 81.6 121.6
106 95.5 76.1 116.1



#10
Phenol
Concen: 52.427 ng
RT: 6.545 min Scan# 724
Delta R.T. 0.006 min
Lab File: BF129249.D
Acq: 15 Jul 2022 20:58

Tgt Ion: 94 Resp: 1053368
Ion Ratio Lower Upper
94 100
65 29.1 11.4 51.4
66 37.4 21.4 61.4





#11

bis(2-Chloroethyl)ether

Concen: 60.507 ng

RT: 6.634 min Scan# 739

Delta R.T. -0.000 min

Lab File: BF129249.D

Acq: 15 Jul 2022 20:58

Instrument :

BNA_F

ClientSampleId :

PIPELINE-PIGGING-TK2045LMSD

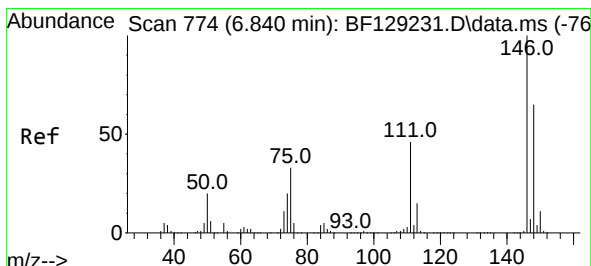
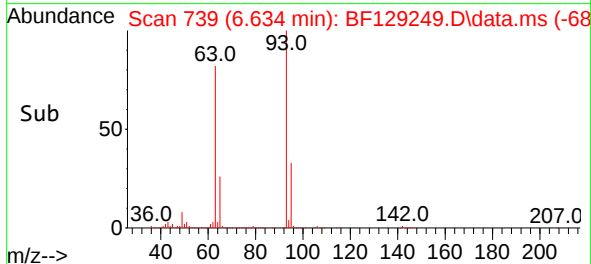
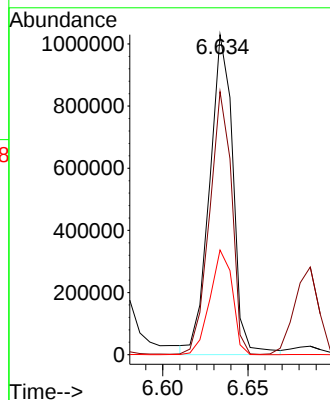
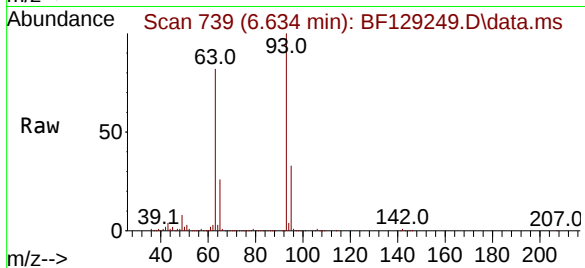
Tgt Ion: 93 Resp: 985995

Ion Ratio Lower Upper

93 100

63 82.2 67.4 107.4

95 32.7 12.7 52.7



#12

1,3-Dichlorobenzene

Concen: 55.271 ng

RT: 6.839 min Scan# 774

Delta R.T. -0.000 min

Lab File: BF129249.D

Acq: 15 Jul 2022 20:58

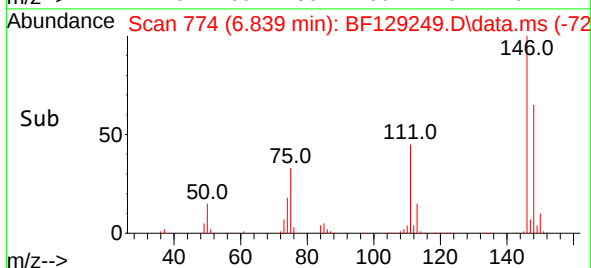
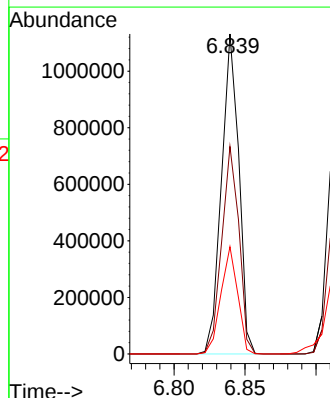
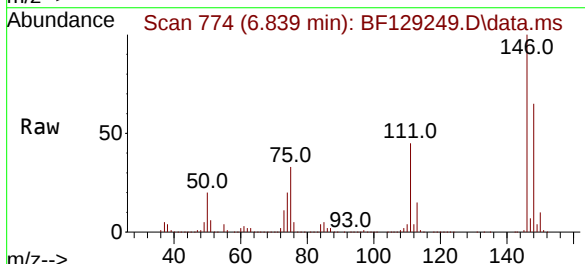
Tgt Ion:146 Resp: 957158

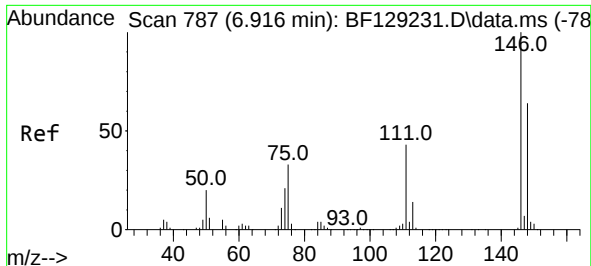
Ion Ratio Lower Upper

146 100

148 64.8 50.6 75.8

75 33.5 26.3 39.5





#13

1,4-Dichlorobenzene

Concen: 55.157 ng

RT: 6.916 min Scan# 787

Delta R.T. -0.000 min

Lab File: BF129249.D

Acq: 15 Jul 2022 20:58

Instrument :

BNA_F

ClientSampleId :

PIPELINE-PIGGING-TK2045LMSD

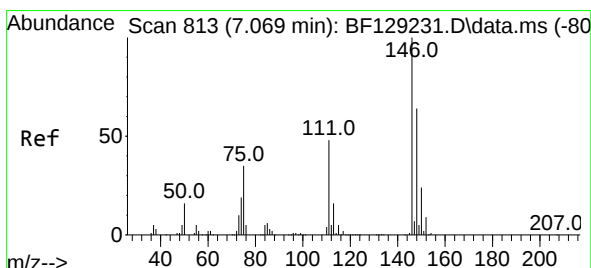
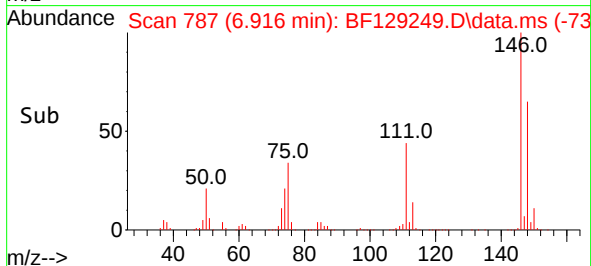
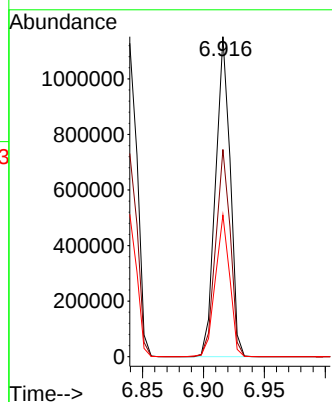
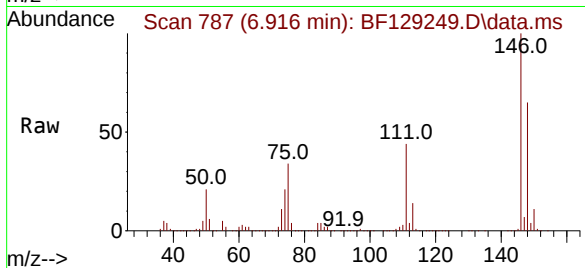
Tgt Ion:146 Resp: 966108

Ion Ratio Lower Upper

146 100

148 64.8 51.1 76.7

111 44.2 34.2 51.4



#14

1,2-Dichlorobenzene

Concen: 56.934 ng

RT: 7.069 min Scan# 813

Delta R.T. -0.000 min

Lab File: BF129249.D

Acq: 15 Jul 2022 20:58

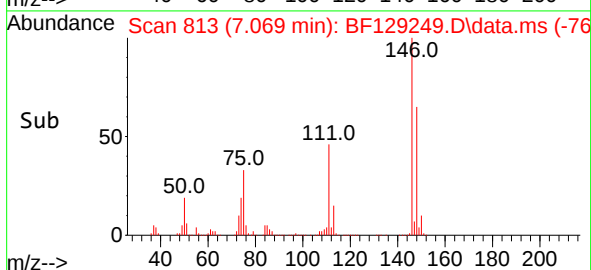
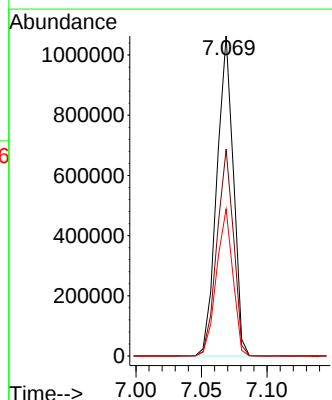
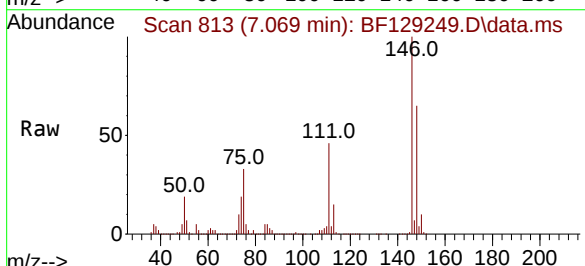
Tgt Ion:146 Resp: 929518

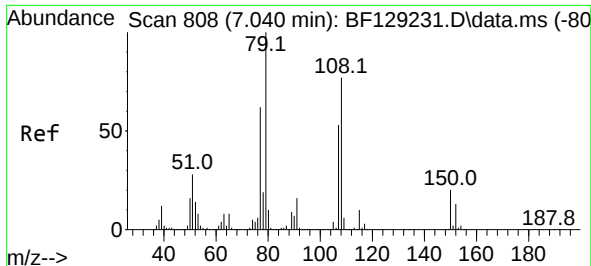
Ion Ratio Lower Upper

146 100

148 64.6 51.8 77.8

111 45.9 35.1 52.7

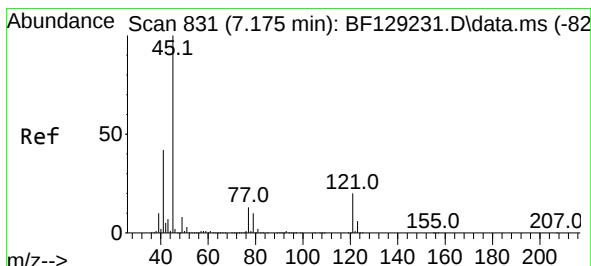
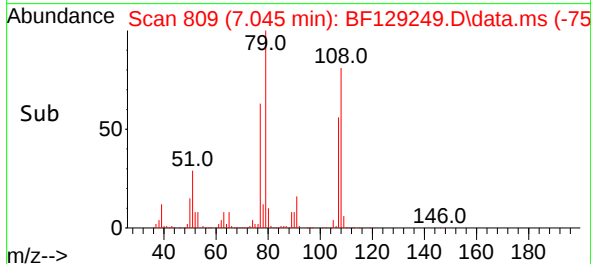
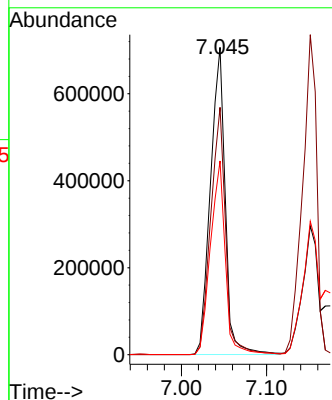
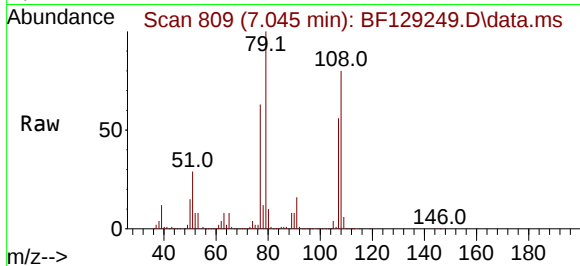




#15
Benzyl Alcohol
Concen: 64.195 ng
RT: 7.045 min Scan# 80
Delta R.T. 0.006 min
Lab File: BF129249.D
Acq: 15 Jul 2022 20:58

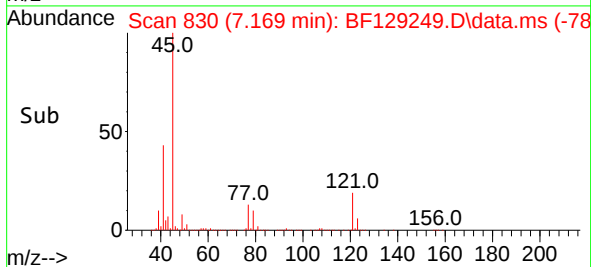
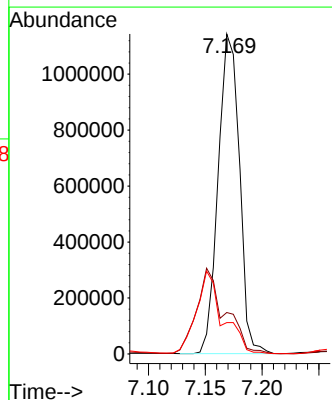
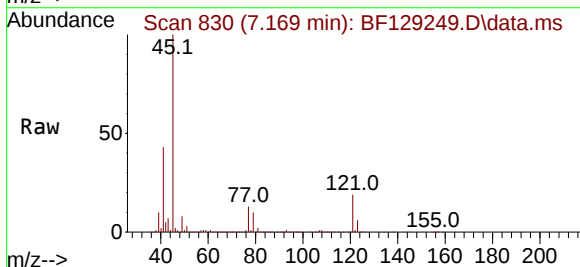
Instrument :
BNA_F
ClientSampleId :
PIPELINE-PIGGING-TK2045LMSD

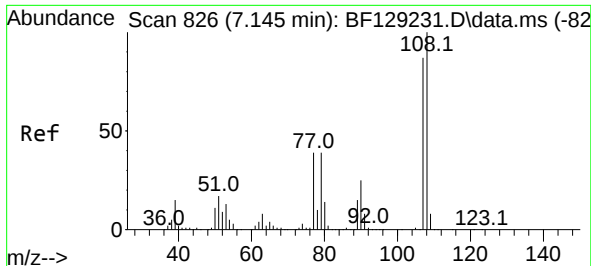
Tgt Ion: 79 Resp: 855148
Ion Ratio Lower Upper
79 100
108 80.5 61.8 92.6
77 63.0 50.2 75.4



#16
2,2'-oxybis(1-Chloropropane)
Concen: 57.339 ng
RT: 7.169 min Scan# 830
Delta R.T. -0.006 min
Lab File: BF129249.D
Acq: 15 Jul 2022 20:58

Tgt Ion: 45 Resp: 1488816
Ion Ratio Lower Upper
45 100
77 12.9 0.0 31.3
79 9.8 0.0 28.3

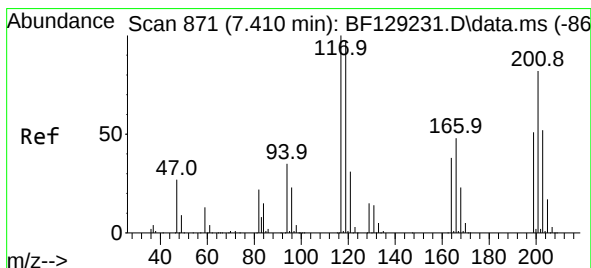
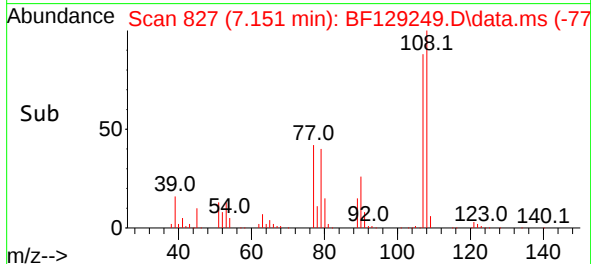
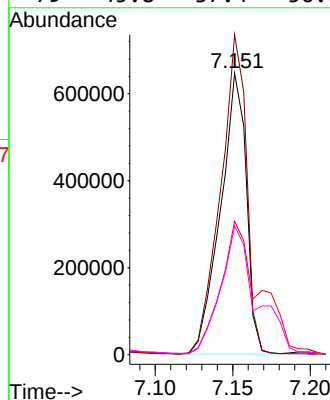
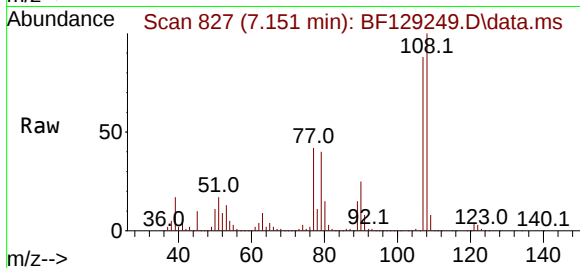




#17
2-Methylphenol
Concen: 54.396 ng
RT: 7.151 min Scan# 81
Delta R.T. 0.006 min
Lab File: BF129249.D
Acq: 15 Jul 2022 20:58

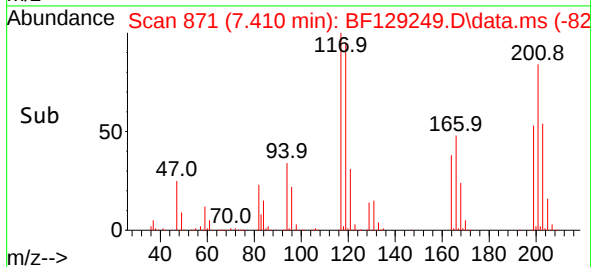
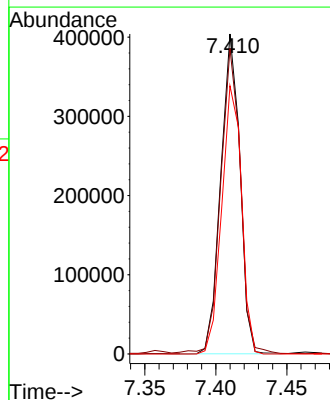
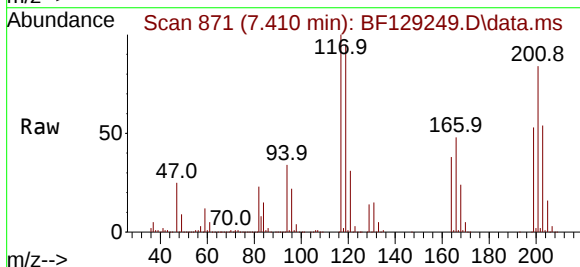
Instrument :
BNA_F
ClientSampleId :
PIPELINE-PIGGING-TK2045LMSD

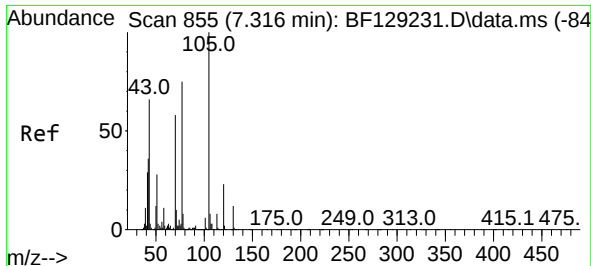
Tgt Ion:	107	Resp:	744598
Ion	Ratio	Lower	Upper
107	100		
108	113.7	91.9	137.9
77	47.4	37.8	56.8
79	45.8	37.4	56.0



#18
Hexachloroethane
Concen: 57.707 ng
RT: 7.410 min Scan# 871
Delta R.T. -0.000 min
Lab File: BF129249.D
Acq: 15 Jul 2022 20:58

Tgt Ion:	117	Resp:	377669
Ion	Ratio	Lower	Upper
117	100		
119	95.5	77.4	116.2
201	83.8	84.6	127.0#



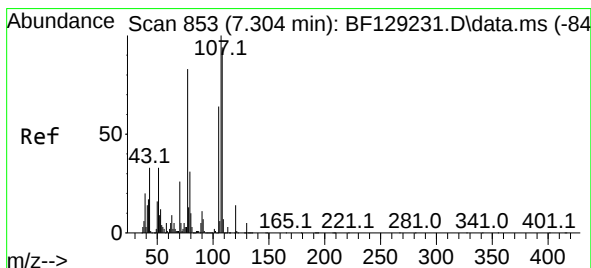
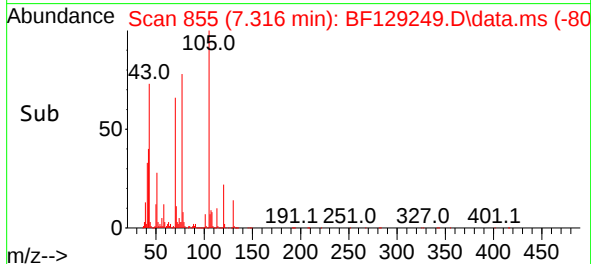
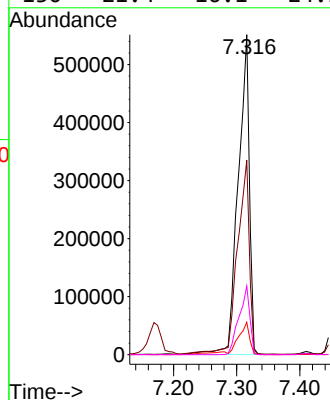
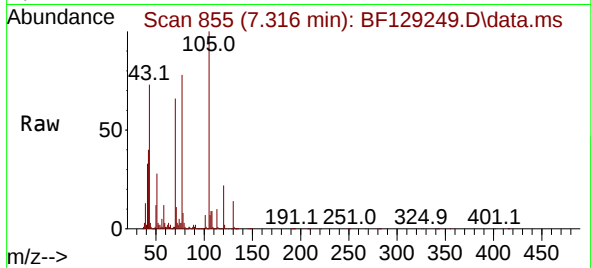


#19
n-Nitroso-di-n-propylamine
Concen: 58.102 ng
RT: 7.316 min Scan# 855
Delta R.T. -0.000 min
Lab File: BF129249.D
Acq: 15 Jul 2022 20:58

Instrument :
BNA_F
ClientSampleId :
PIPELINE-PIGGING-TK2045LMSD

Tgt Ion: 70 Resp: 683564

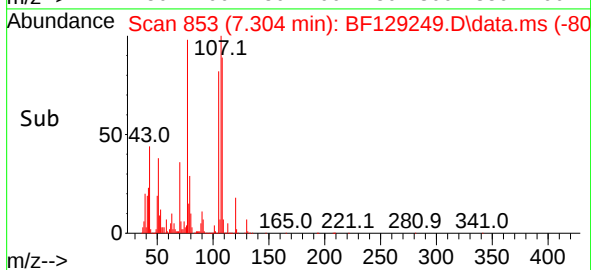
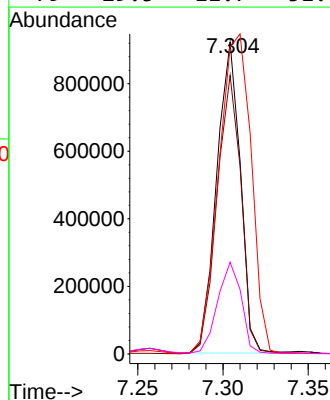
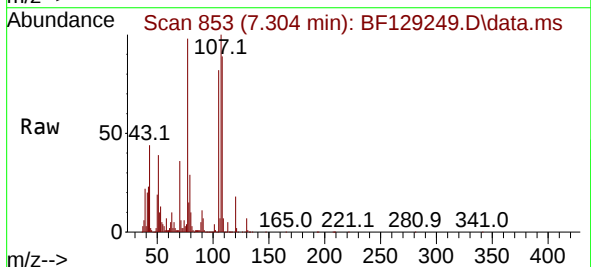
Ion	Ratio	Lower	Upper
70	100		
42	60.8	52.3	78.5
101	10.1	7.5	11.3
130	21.4	16.1	24.1

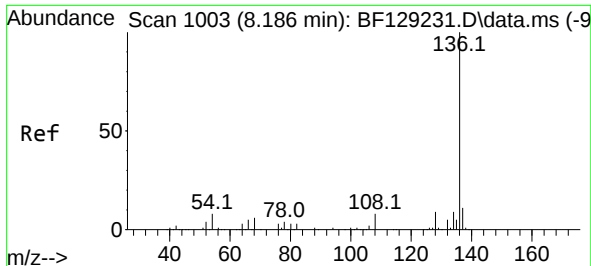


#20
3+4-Methylphenols
Concen: 52.925 ng
RT: 7.304 min Scan# 853
Delta R.T. -0.000 min
Lab File: BF129249.D
Acq: 15 Jul 2022 20:58

Tgt Ion: 107 Resp: 890400

Ion	Ratio	Lower	Upper
107	100		
108	89.3	71.8	111.8
77	98.4	59.3	99.3
79	29.5	11.7	51.7

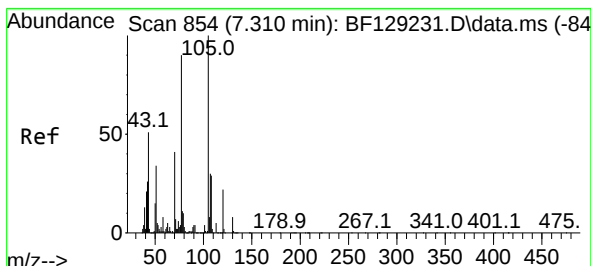
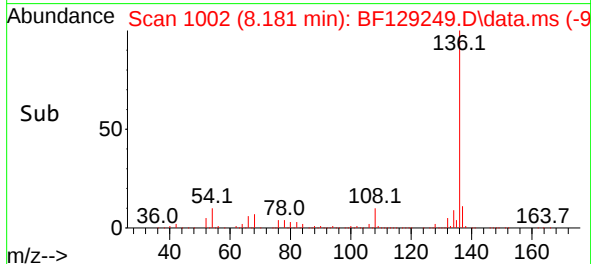
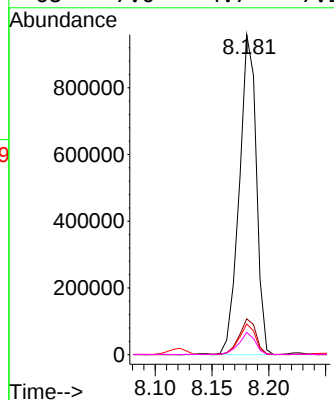
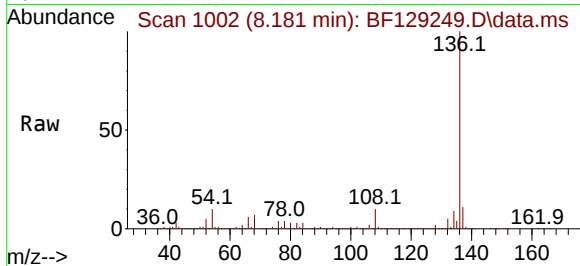




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1003
Delta R.T. -0.006 min
Lab File: BF129249.D
Acq: 15 Jul 2022 20:58

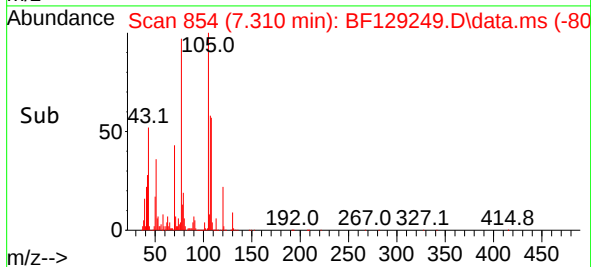
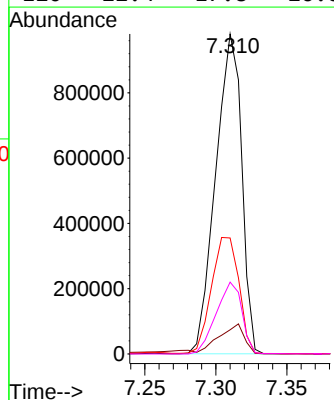
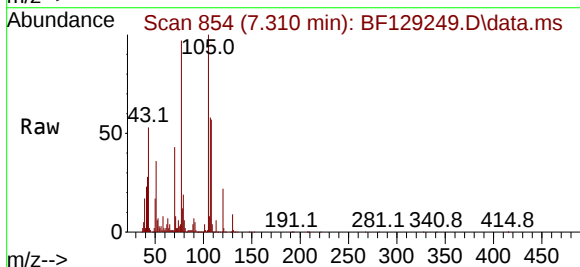
Instrument :
BNA_F
ClientSampleId :
PIPELINE-PIGGING-TK2045LMSD

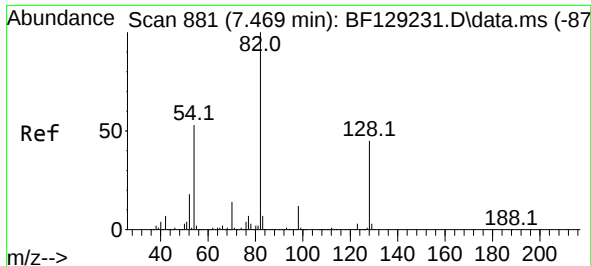
Tgt Ion:136 Resp: 1000885
Ion Ratio Lower Upper
136 100
137 11.2 8.8 13.2
54 9.6 7.5 11.3
68 7.0 4.7 7.1



#22
Acetophenone
Concen: 53.934 ng
RT: 7.310 min Scan# 854
Delta R.T. -0.000 min
Lab File: BF129249.D
Acq: 15 Jul 2022 20:58

Tgt Ion:105 Resp: 1245749
Ion Ratio Lower Upper
105 100
71 7.5 5.0 7.4#
51 36.3 25.0 37.4
120 22.4 17.8 26.8





#23

Nitrobenzene-d5

Concen: 88.979 ng

RT: 7.469 min Scan# 881

Delta R.T. -0.000 min

Lab File: BF129249.D

Acq: 15 Jul 2022 20:58

Instrument :

BNA_F

ClientSampleId :

PIPELINE-PIGGING-TK2045LMSD

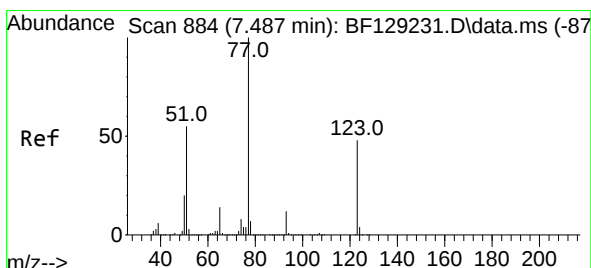
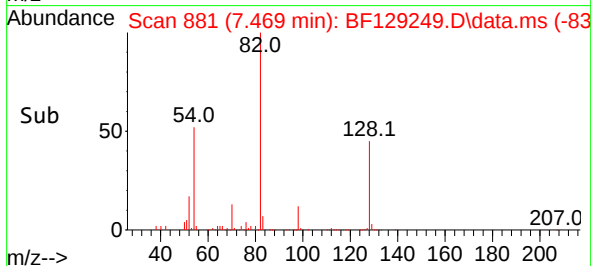
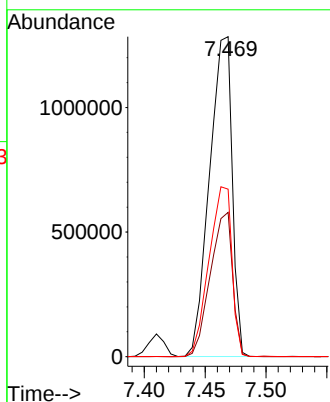
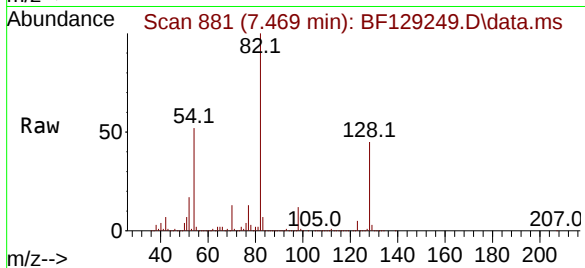
Tgt Ion: 82 Resp: 1666038

Ion Ratio Lower Upper

82 100

128 45.1 34.0 51.0

54 52.4 46.9 70.3



#24

Nitrobenzene

Concen: 56.675 ng

RT: 7.486 min Scan# 884

Delta R.T. -0.000 min

Lab File: BF129249.D

Acq: 15 Jul 2022 20:58

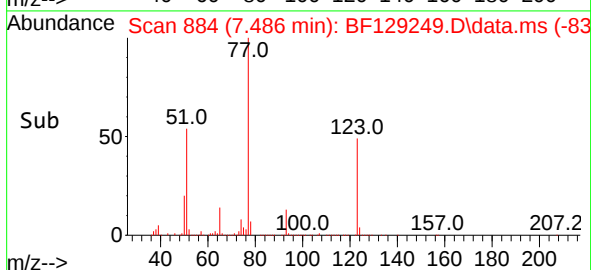
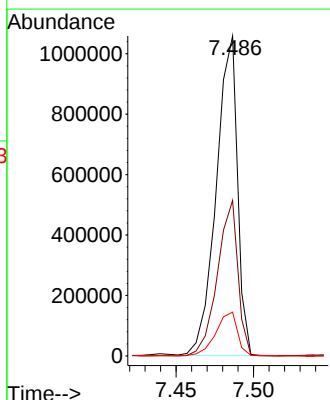
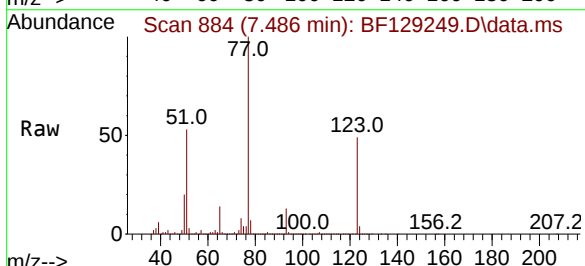
Tgt Ion: 77 Resp: 1009470

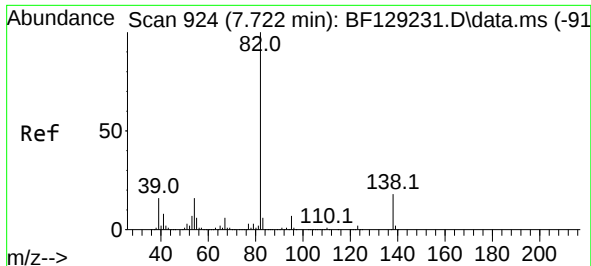
Ion Ratio Lower Upper

77 100

123 48.6 35.4 53.2

65 13.7 11.8 17.8

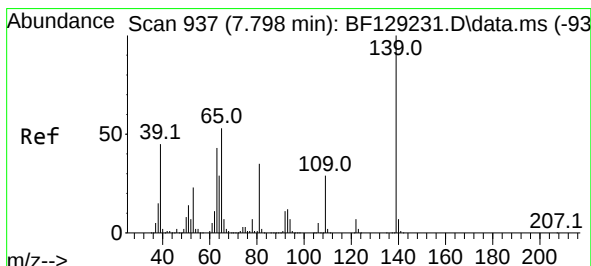
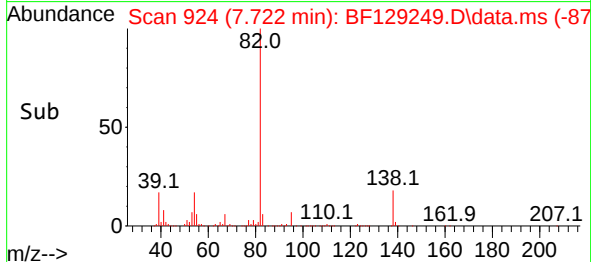
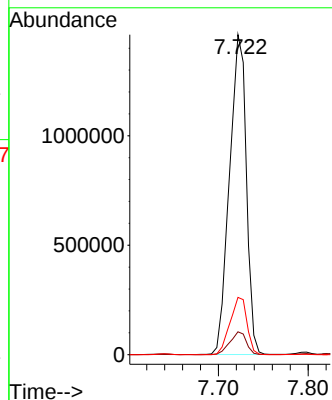
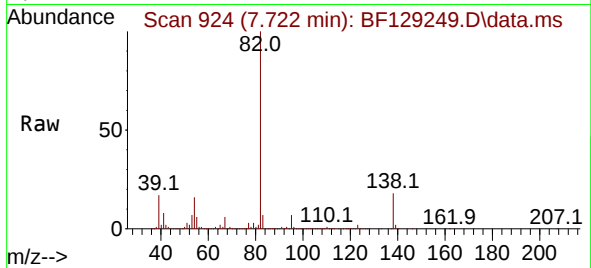




#25
Isophorone
Concen: 60.550 ng
RT: 7.722 min Scan# 91
Delta R.T. -0.000 min
Lab File: BF129249.D
Acq: 15 Jul 2022 20:58

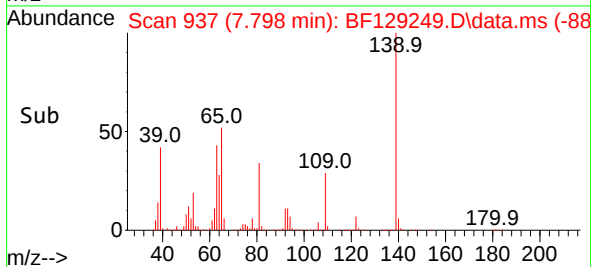
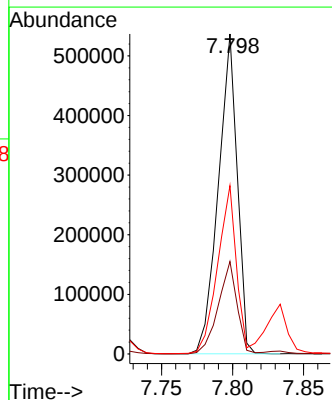
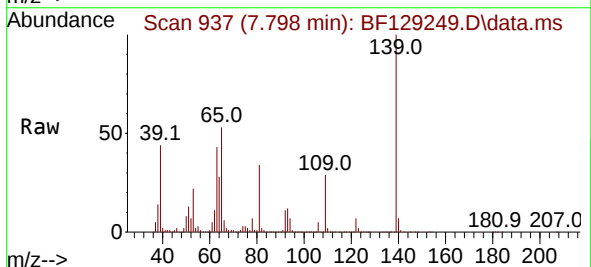
Instrument :
BNA_F
ClientSampleId :
PIPELINE-PIGGING-TK2045LMSD

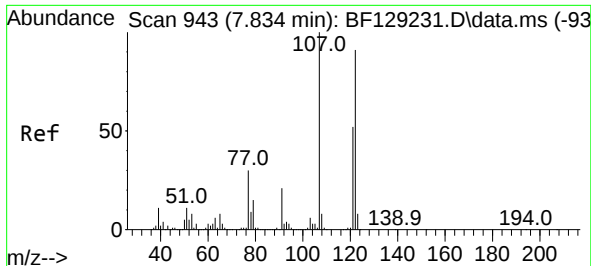
Tgt Ion: 82 Resp: 1905443
Ion Ratio Lower Upper
82 100
95 7.1 5.7 8.5
138 17.9 14.2 21.2



#26
2-Nitrophenol
Concen: 55.565 ng
RT: 7.798 min Scan# 937
Delta R.T. -0.000 min
Lab File: BF129249.D
Acq: 15 Jul 2022 20:58

Tgt Ion:139 Resp: 497145
Ion Ratio Lower Upper
139 100
109 28.9 25.0 37.4
65 52.6 45.1 67.7





#27

2,4-Dimethylphenol

Concen: 64.280 ng

RT: 7.833 min Scan# 943

Delta R.T. -0.000 min

Lab File: BF129249.D

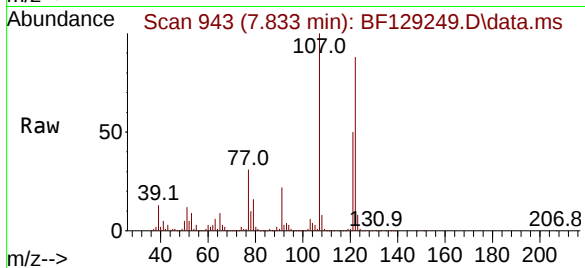
Acq: 15 Jul 2022 20:58

Instrument :

BNA_F

ClientSampleId :

PIPELINE-PIGGING-TK2045LMSD



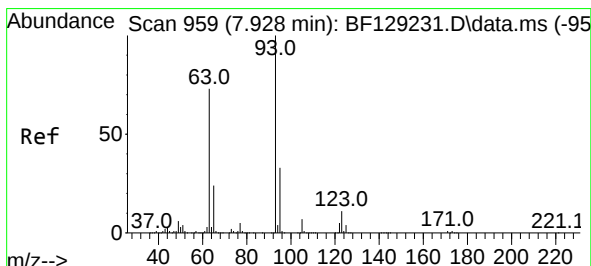
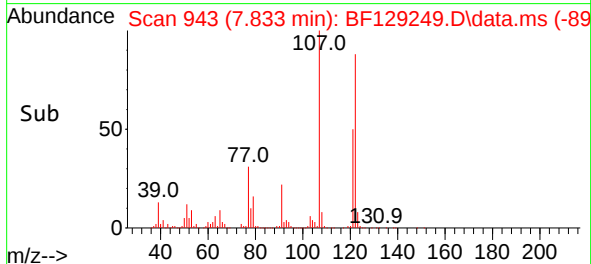
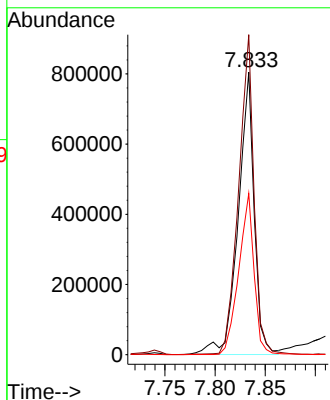
Tgt Ion:122 Resp: 894283

Ion Ratio Lower Upper

122 100

107 113.3 93.0 139.6

121 57.1 46.6 70.0



#28

bis(2-Chloroethoxy)methane

Concen: 56.261 ng

RT: 7.928 min Scan# 959

Delta R.T. -0.000 min

Lab File: BF129249.D

Acq: 15 Jul 2022 20:58

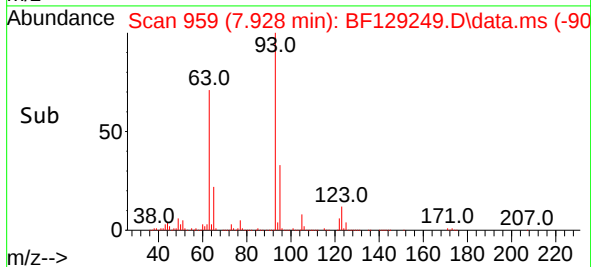
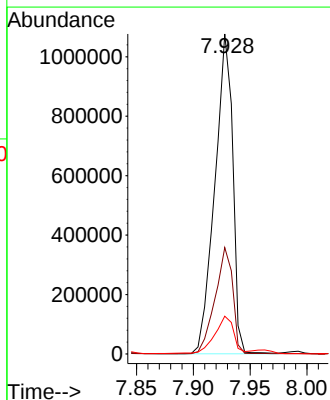
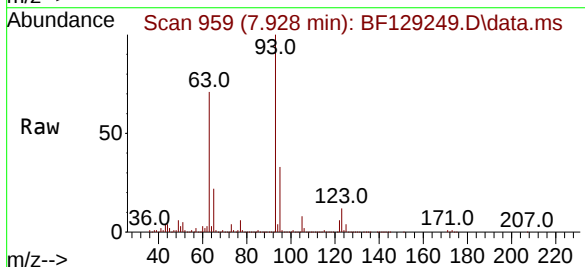
Tgt Ion: 93 Resp: 1179334

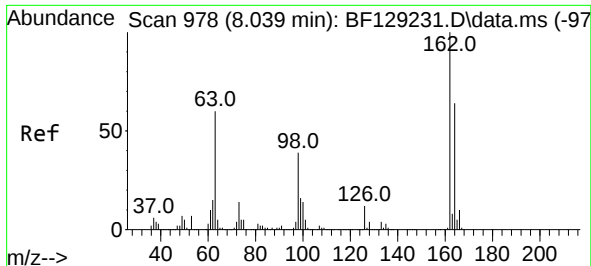
Ion Ratio Lower Upper

93 100

95 33.3 26.8 40.2

123 11.8 9.2 13.8





#29

2,4-Dichlorophenol

Concen: 53.419 ng

RT: 8.039 min Scan# 91

Delta R.T. -0.000 min

Lab File: BF129249.D

Acq: 15 Jul 2022 20:58

Instrument :

BNA_F

ClientSampleId :

PIPELINE-PIGGING-TK2045LMSD

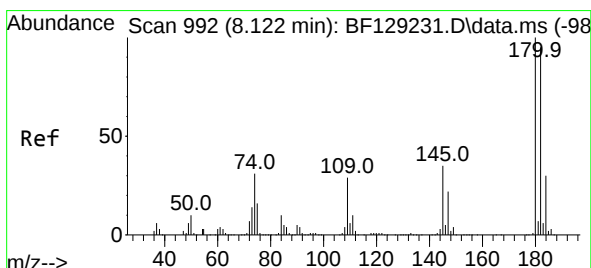
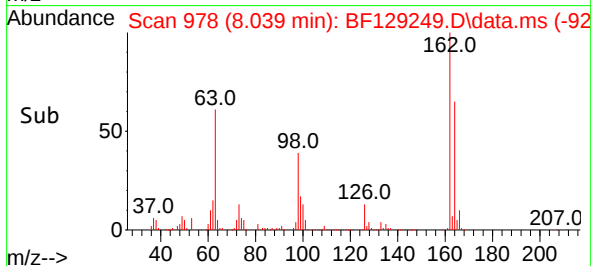
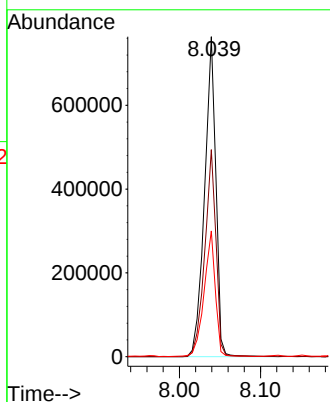
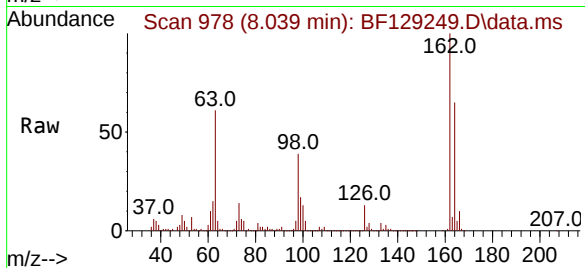
Tgt Ion:162 Resp: 738831

Ion Ratio Lower Upper

162 100

164 64.7 44.2 84.2

98 39.3 19.6 59.6



#30

1,2,4-Trichlorobenzene

Concen: 52.878 ng

RT: 8.122 min Scan# 992

Delta R.T. -0.000 min

Lab File: BF129249.D

Acq: 15 Jul 2022 20:58

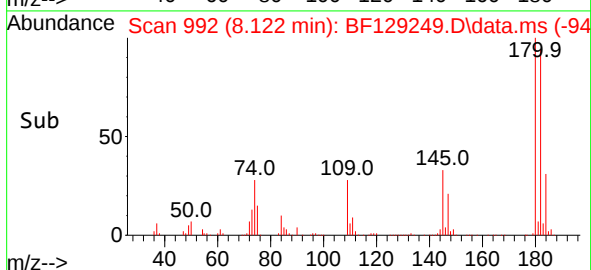
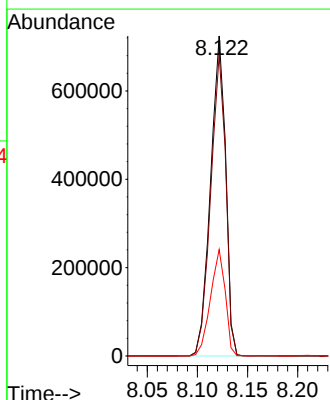
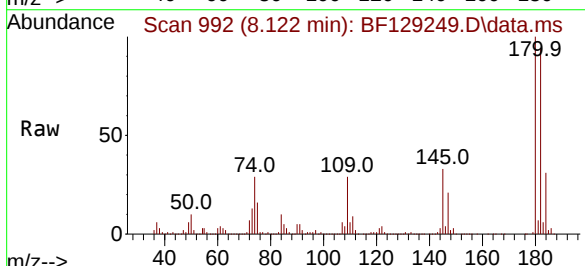
Tgt Ion:180 Resp: 758880

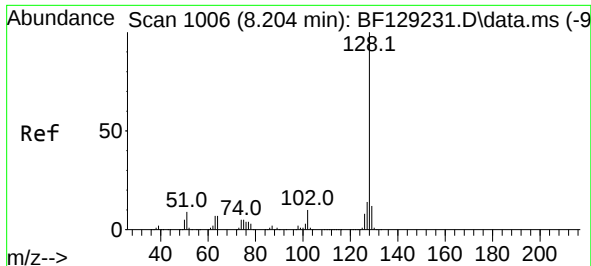
Ion Ratio Lower Upper

180 100

182 94.1 79.2 118.8

145 33.2 26.2 39.2

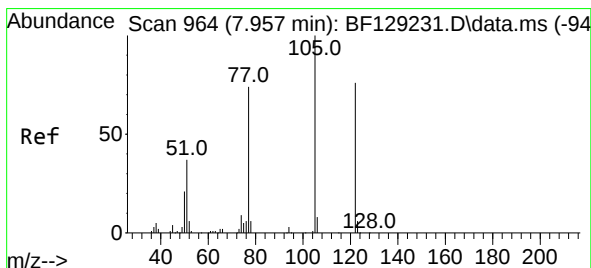
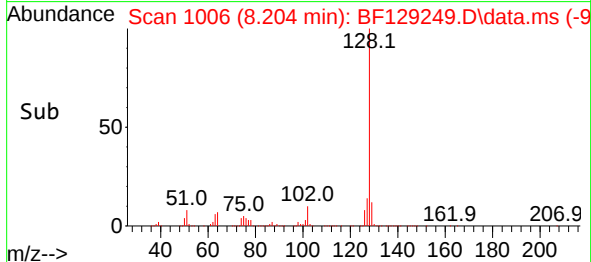
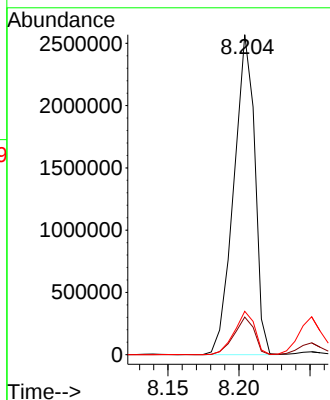
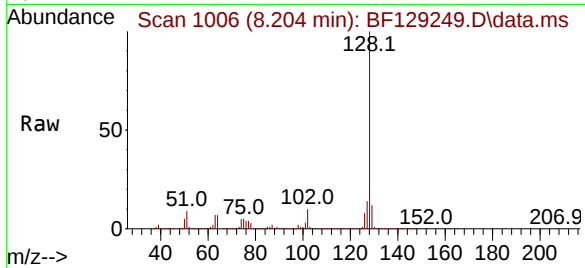




#31
Naphthalene
Concen: 55.757 ng
RT: 8.204 min Scan# 1006
Delta R.T. -0.000 min
Lab File: BF129249.D
Acq: 15 Jul 2022 20:58

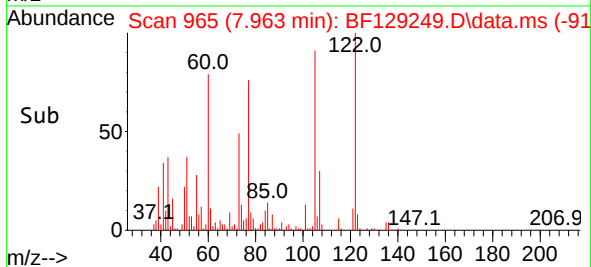
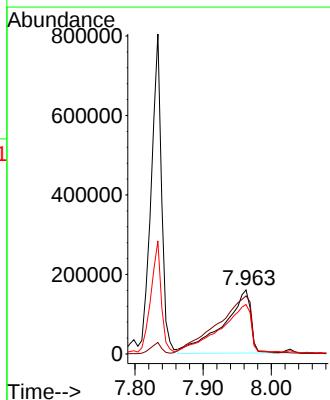
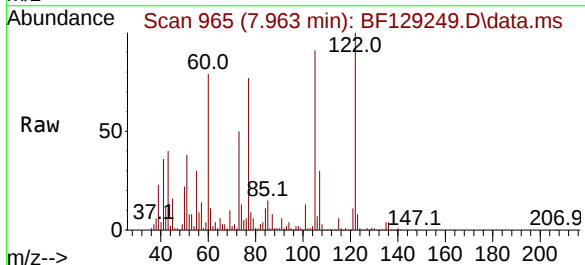
Instrument :
BNA_F
ClientSampleId :
PIPELINE-PIGGING-TK2045LMSD

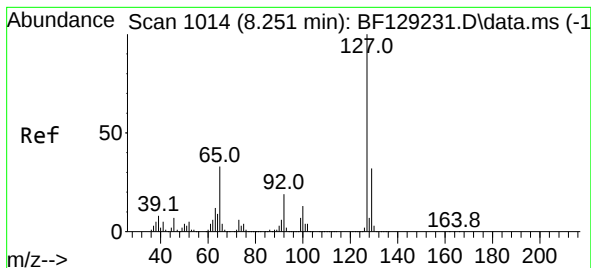
Tgt Ion:128 Resp: 2644053
Ion Ratio Lower Upper
128 100
129 11.7 9.2 13.8
127 13.6 10.5 15.7



#32
Benzoic acid
Concen: 41.637 ng
RT: 7.963 min Scan# 965
Delta R.T. 0.006 min
Lab File: BF129249.D
Acq: 15 Jul 2022 20:58

Tgt Ion:122 Resp: 449891
Ion Ratio Lower Upper
122 100
105 90.9 107.1 147.1#
77 77.3 74.2 114.2





#33

4-Chloroaniline

Concen: 19.905 ng

RT: 8.251 min Scan# 1014

Delta R.T. -0.000 min

Lab File: BF129249.D

Acq: 15 Jul 2022 20:58

Instrument :

BNA_F

ClientSampleId :

PIPELINE-PIGGING-TK2045LMSD

Tgt Ion:127 Resp: 391431

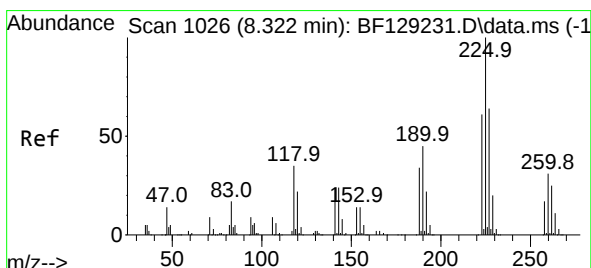
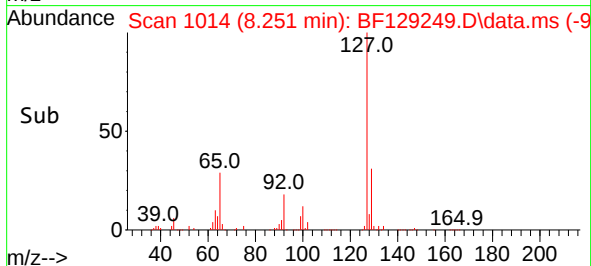
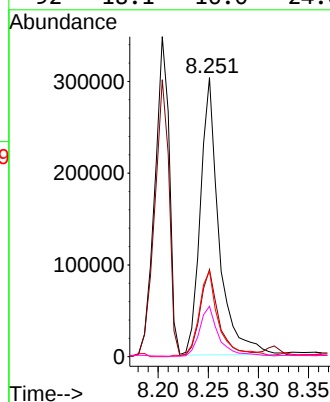
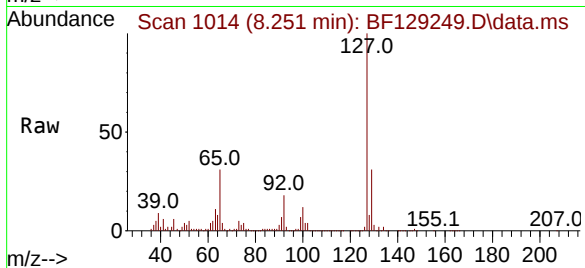
Ion Ratio Lower Upper

127 100

129 31.2 26.4 39.6

65 30.7 26.4 39.6

92 18.1 16.0 24.0



#34

Hexachlorobutadiene

Concen: 53.179 ng

RT: 8.316 min Scan# 1025

Delta R.T. -0.006 min

Lab File: BF129249.D

Acq: 15 Jul 2022 20:58

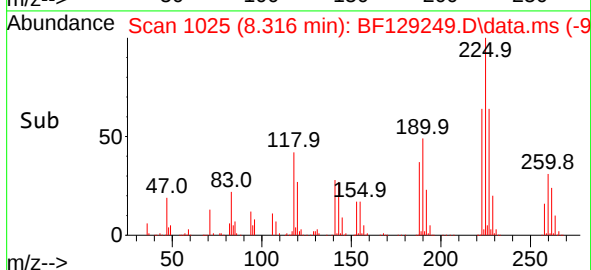
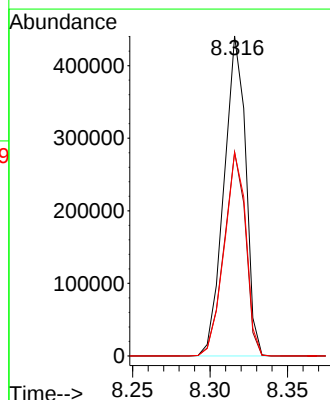
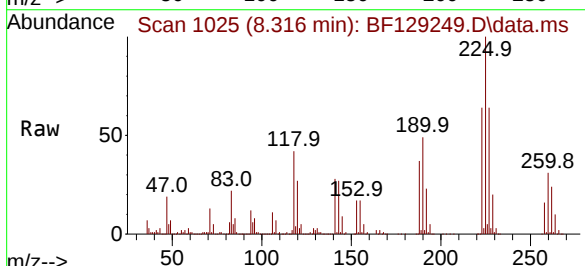
Tgt Ion:225 Resp: 429363

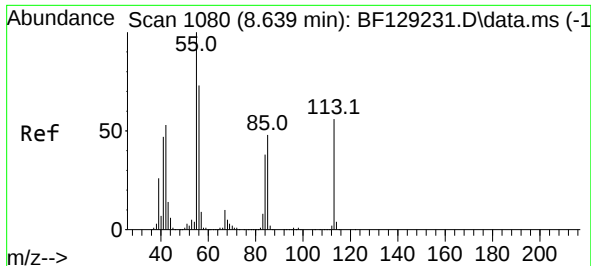
Ion Ratio Lower Upper

225 100

223 63.7 51.0 76.6

227 63.6 51.1 76.7

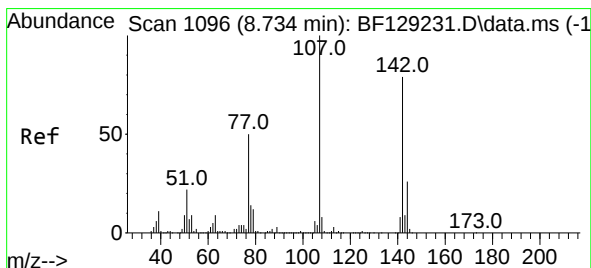
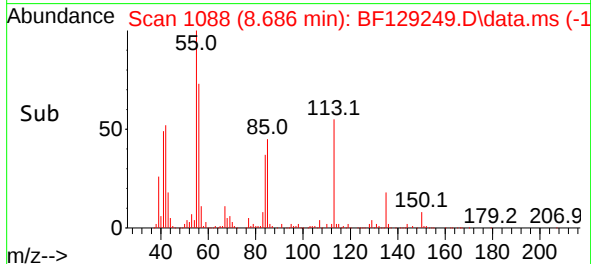
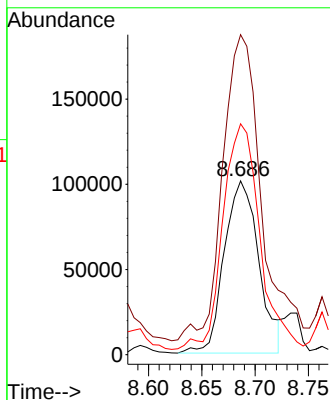
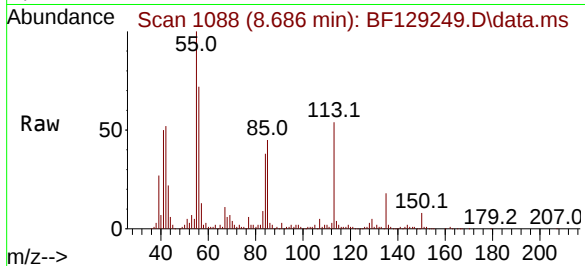




#35
 Caprolactam
 Concen: 49.664 ng
 RT: 8.686 min Scan# 1088
 Delta R.T. 0.047 min
 Lab File: BF129249.D
 Acq: 15 Jul 2022 20:58

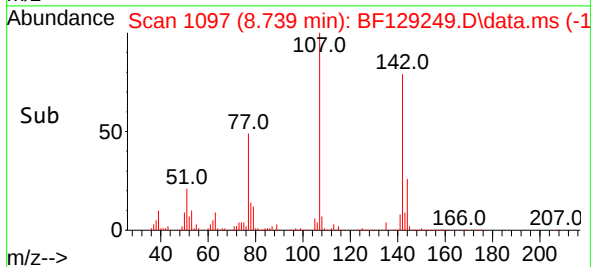
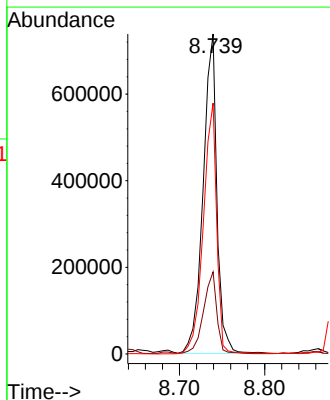
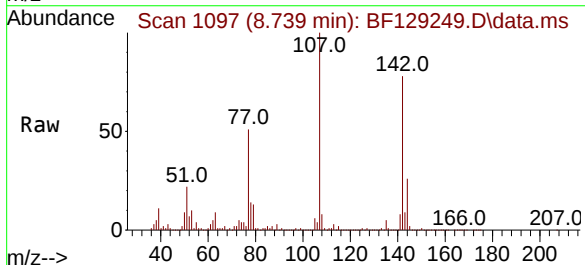
Instrument :
 BNA_F
 ClientSampleId :
 PIPELINE-PIGGING-TK2045LMSD

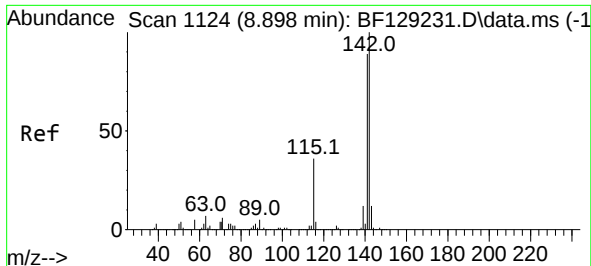
Tgt Ion:113 Resp: 228176
 Ion Ratio Lower Upper
 113 100
 55 184.2 188.5 228.5#
 56 132.9 130.6 170.6



#36
 4-Chloro-3-methylphenol
 Concen: 55.205 ng
 RT: 8.739 min Scan# 1097
 Delta R.T. 0.006 min
 Lab File: BF129249.D
 Acq: 15 Jul 2022 20:58

Tgt Ion:107 Resp: 832931
 Ion Ratio Lower Upper
 107 100
 144 25.6 19.5 29.3
 142 78.4 58.2 87.4





#37

2-Methylnaphthalene

Concen: 57.249 ng

RT: 8.898 min Scan# 1124

Delta R.T. -0.000 min

Lab File: BF129249.D

Acq: 15 Jul 2022 20:58

Instrument :

BNA_F

ClientSampleId :

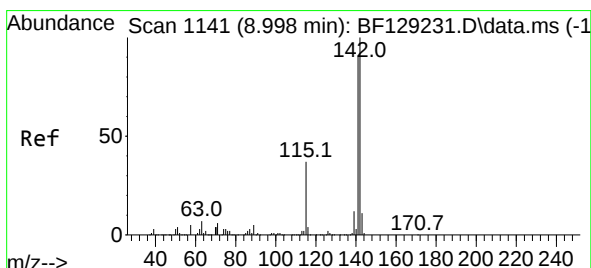
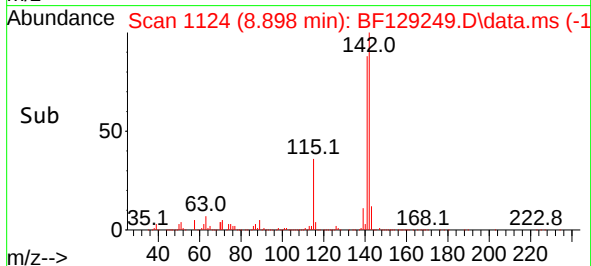
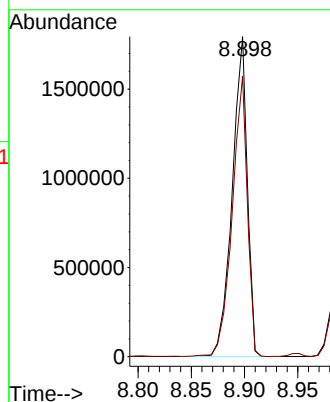
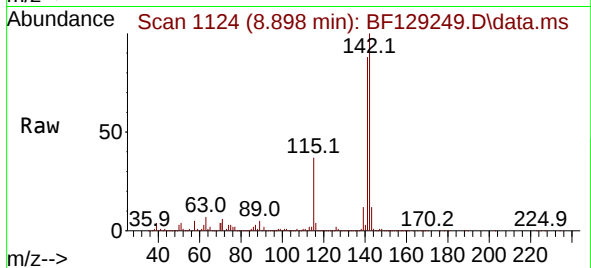
PIPELINE-PIGGING-TK2045LMSD

Tgt Ion:142 Resp: 1769416

Ion Ratio Lower Upper

142 100

141 87.7 71.0 106.4



#38

1-Methylnaphthalene

Concen: 55.582 ng

RT: 8.998 min Scan# 1141

Delta R.T. -0.000 min

Lab File: BF129249.D

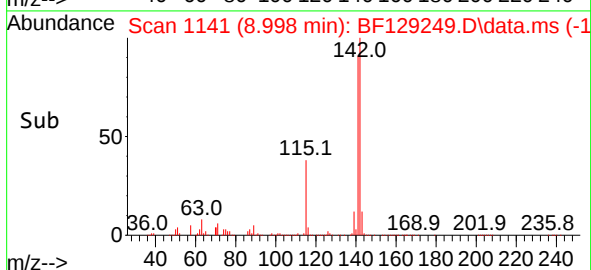
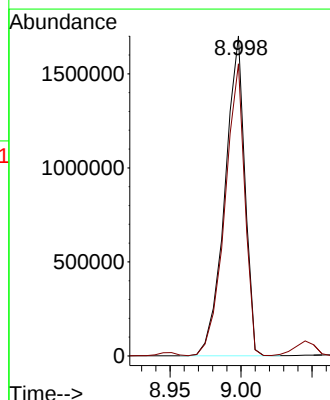
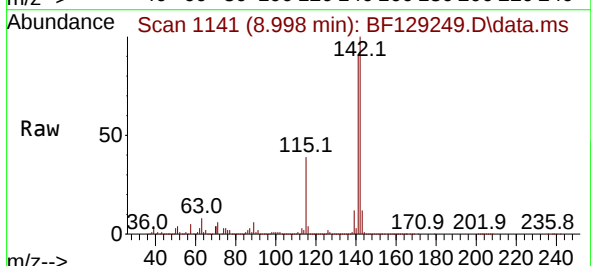
Acq: 15 Jul 2022 20:58

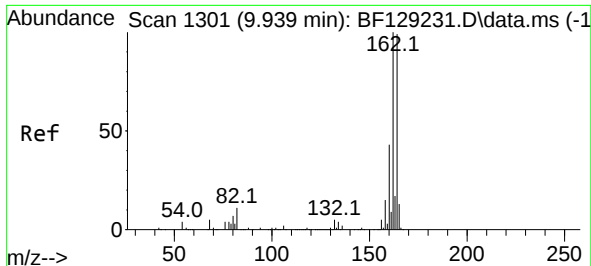
Tgt Ion:142 Resp: 1661368

Ion Ratio Lower Upper

142 100

141 91.3 74.2 111.4

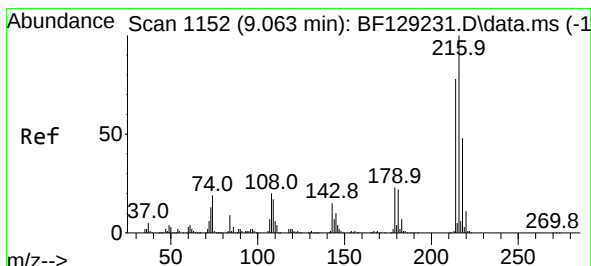
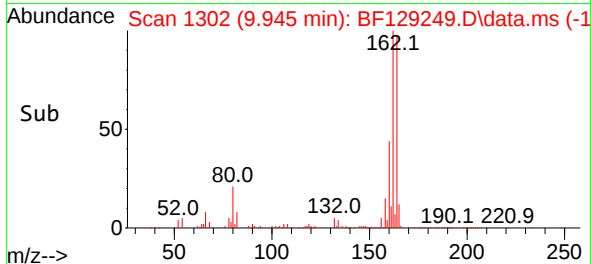
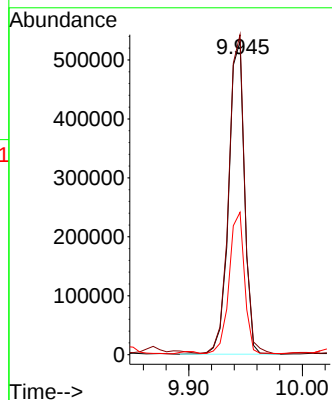
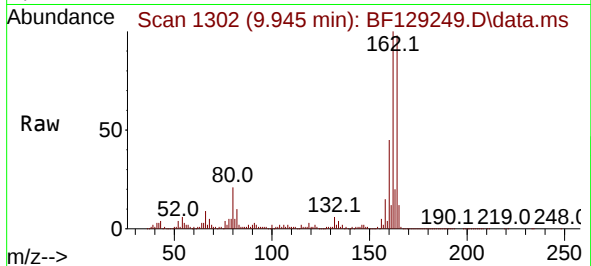




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.945 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF129249.D
Acq: 15 Jul 2022 20:58

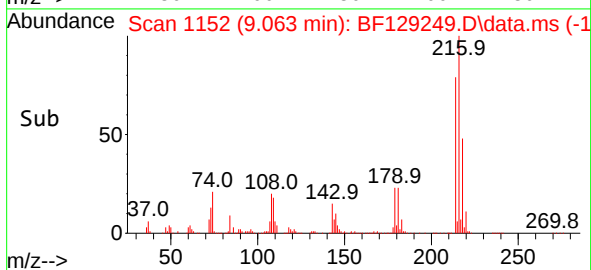
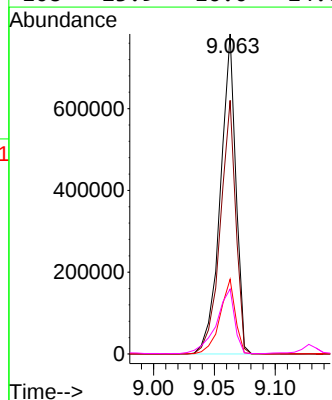
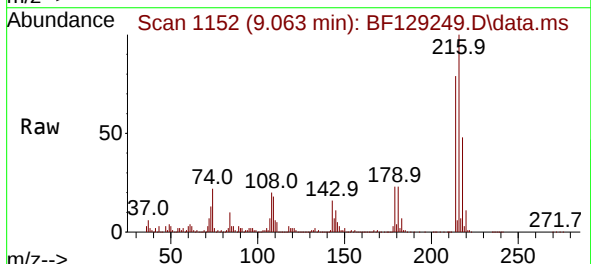
Instrument :
BNA_F
ClientSampleId :
PIPELINE-PIGGING-TK2045LMSD

Tgt Ion:164 Resp: 509990
Ion Ratio Lower Upper
164 100
162 102.1 79.5 119.3
160 45.5 34.2 51.4



#40
1,2,4,5-Tetrachlorobenzene
Concen: 54.588 ng
RT: 9.063 min Scan# 1152
Delta R.T. -0.000 min
Lab File: BF129249.D
Acq: 15 Jul 2022 20:58

Tgt Ion:216 Resp: 692154
Ion Ratio Lower Upper
216 100
214 79.0 63.6 95.4
179 23.2 17.0 25.6
108 23.9 16.0 24.0

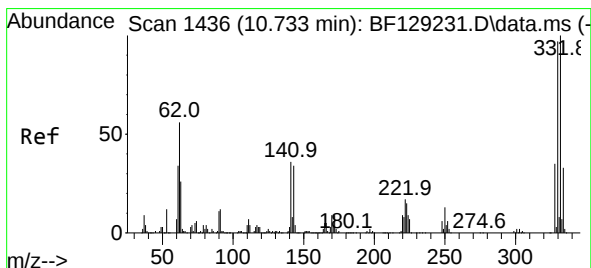
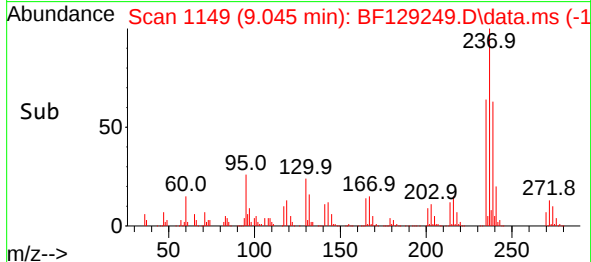
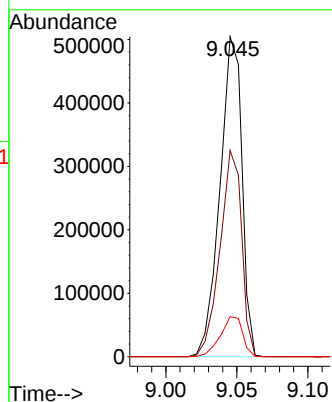
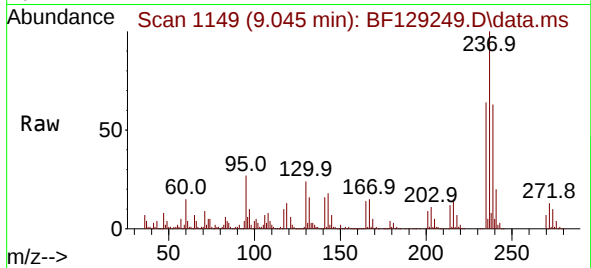




#41
Hexachlorocyclopentadiene
Concen: 85.046 ng
RT: 9.045 min Scan# 1149
Delta R.T. -0.000 min
Lab File: BF129249.D
Acq: 15 Jul 2022 20:58

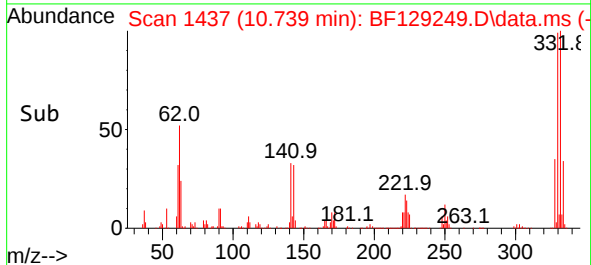
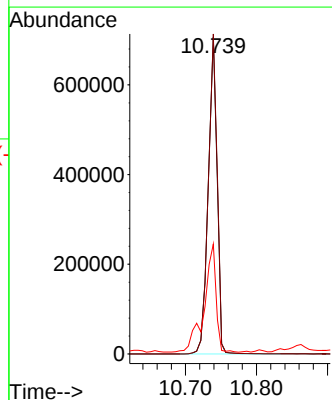
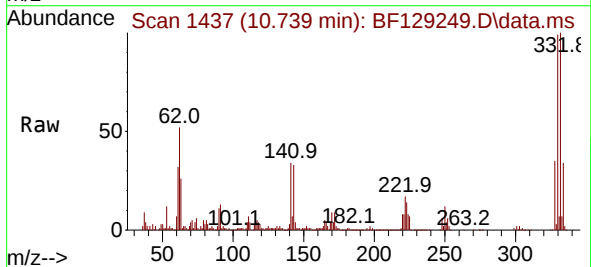
Instrument :
BNA_F
ClientSampleId :
PIPELINE-PIGGING-TK2045LMSD

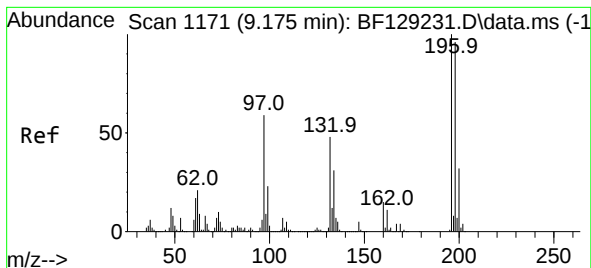
Tgt Ion:237 Resp: 542649
Ion Ratio Lower Upper
237 100
235 64.4 43.2 83.2
272 12.5 0.0 31.9



#42
2,4,6-Tribromophenol
Concen: 130.666 ng
RT: 10.739 min Scan# 1437
Delta R.T. 0.006 min
Lab File: BF129249.D
Acq: 15 Jul 2022 20:58

Tgt Ion:330 Resp: 618516
Ion Ratio Lower Upper
330 100
332 101.5 76.8 115.2
141 45.7 28.0 42.0#





#43

2,4,6-Trichlorophenol

Concen: 53.442 ng

RT: 9.175 min Scan# 1171

Delta R.T. -0.000 min

Lab File: BF129249.D

Acq: 15 Jul 2022 20:58

Instrument :

BNA_F

ClientSampleId :

PIPELINE-PIGGING-TK2045LMSD

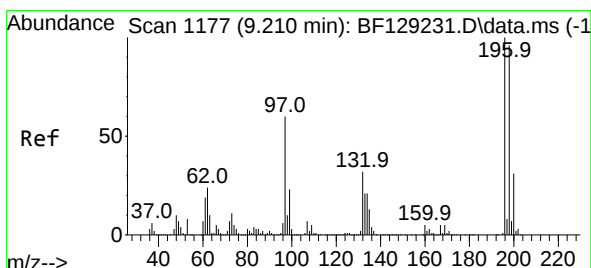
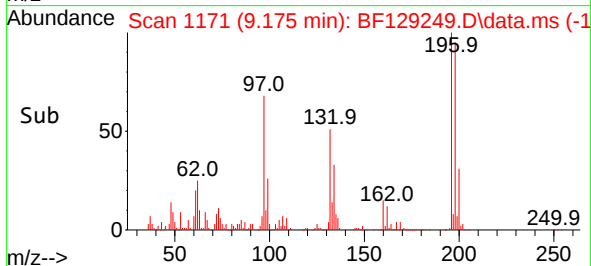
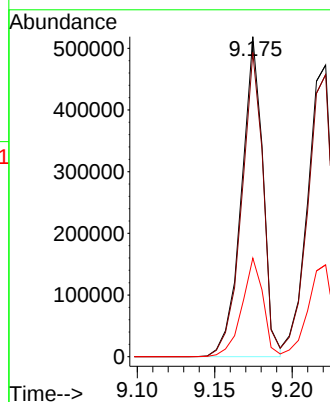
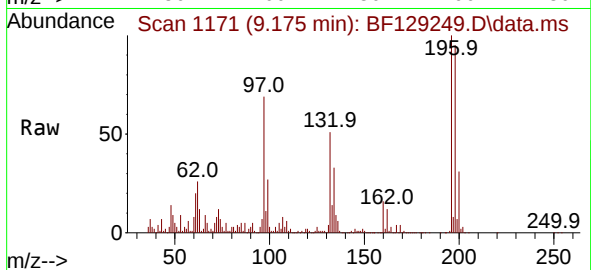
Tgt Ion:196 Resp: 498974

Ion Ratio Lower Upper

196 100

198 95.0 74.0 111.0

200 30.8 24.1 36.1



#44

2,4,5-Trichlorophenol

Concen: 53.092 ng

RT: 9.222 min Scan# 1179

Delta R.T. 0.012 min

Lab File: BF129249.D

Acq: 15 Jul 2022 20:58

Tgt Ion:196 Resp: 524353

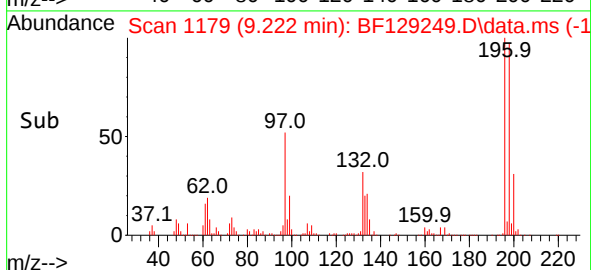
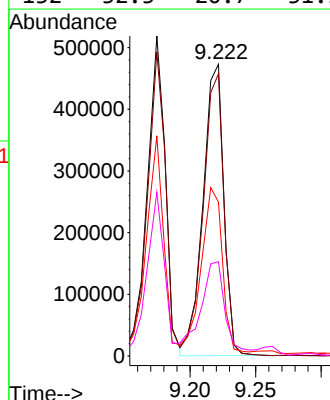
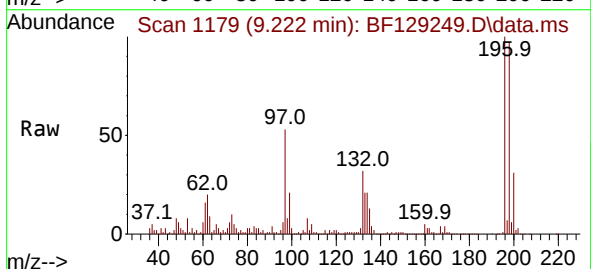
Ion Ratio Lower Upper

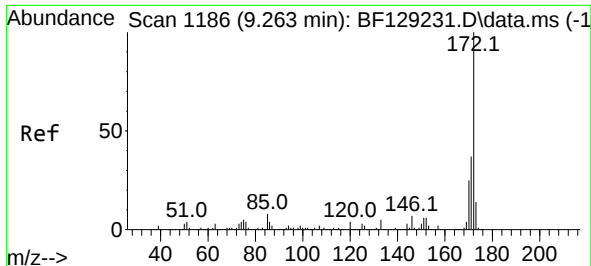
196 100

198 96.7 75.7 113.5

97 52.8 36.4 54.6

132 32.3 20.7 31.1#

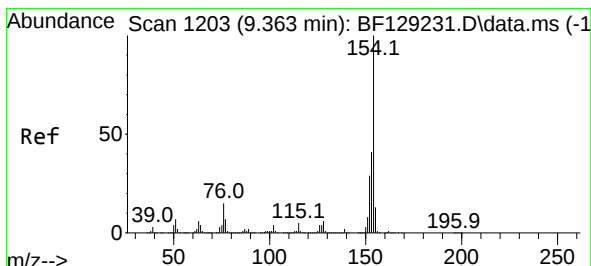
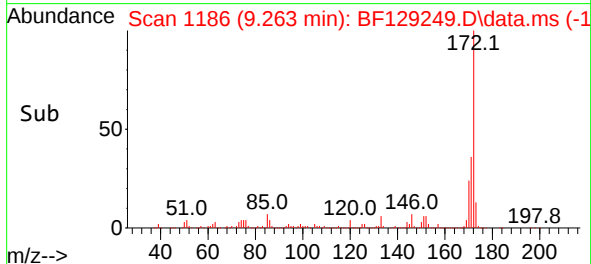
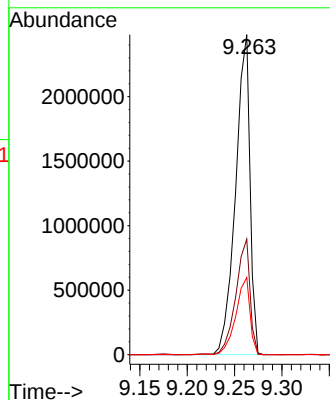
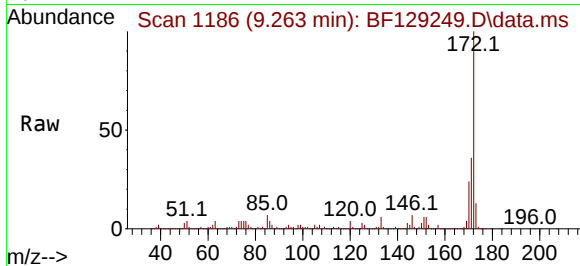




#45
2-Fluorobiphenyl
Concen: 86.942 ng
RT: 9.263 min Scan# 1186
Delta R.T. -0.000 min
Lab File: BF129249.D
Acq: 15 Jul 2022 20:58

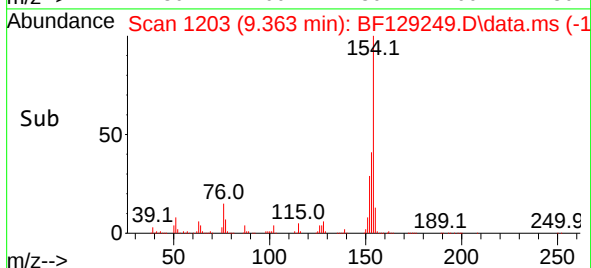
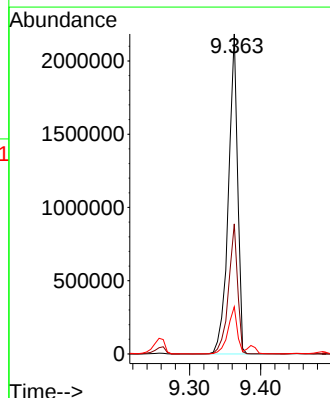
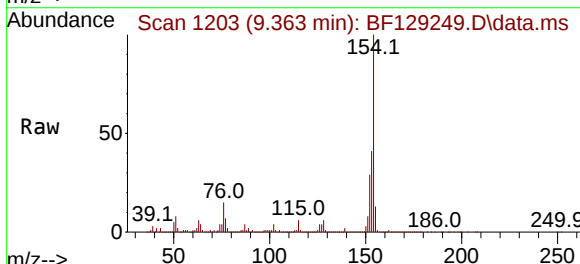
Instrument :
BNA_F
ClientSampleId :
PIPELINE-PIGGING-TK2045LMSD

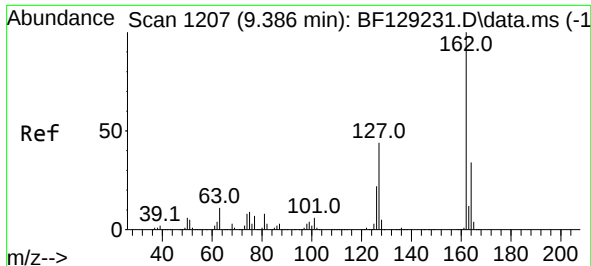
Tgt Ion:172 Resp: 2617127
Ion Ratio Lower Upper
172 100
171 36.1 28.8 43.2
170 24.1 19.8 29.8



#46
1,1'-Biphenyl
Concen: 54.552 ng
RT: 9.363 min Scan# 1203
Delta R.T. -0.000 min
Lab File: BF129249.D
Acq: 15 Jul 2022 20:58

Tgt Ion:154 Resp: 1967772
Ion Ratio Lower Upper
154 100
153 40.6 20.6 60.6
76 14.8 0.0 33.3

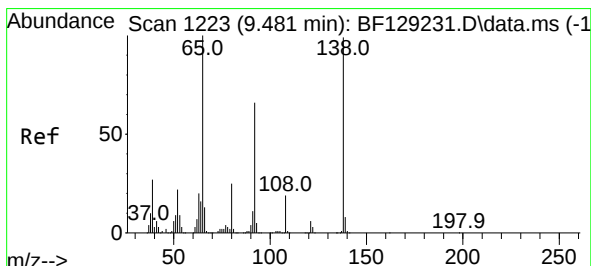
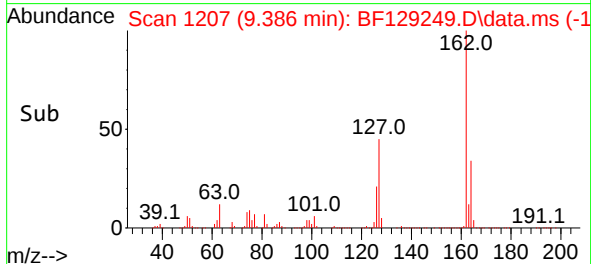
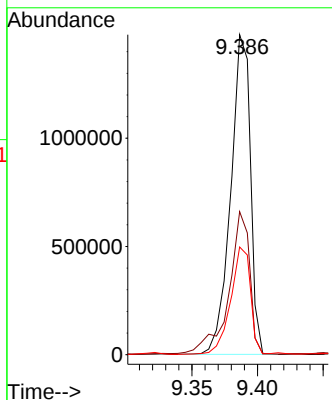
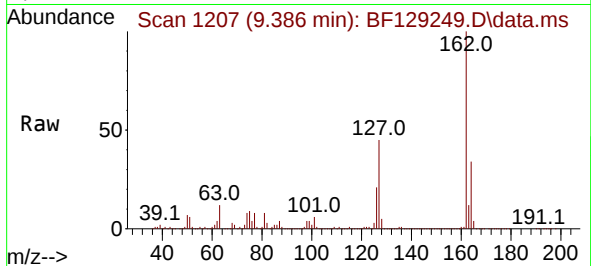




#47
 2-Chloronaphthalene
 Concen: 54.409 ng
 RT: 9.386 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: BF129249.D
 Acq: 15 Jul 2022 20:58

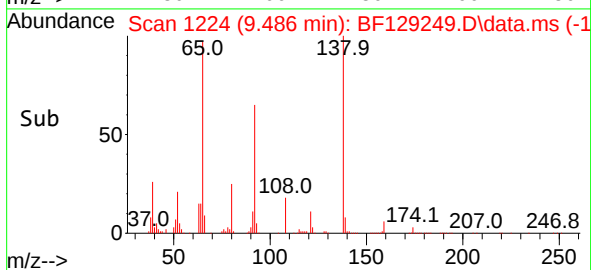
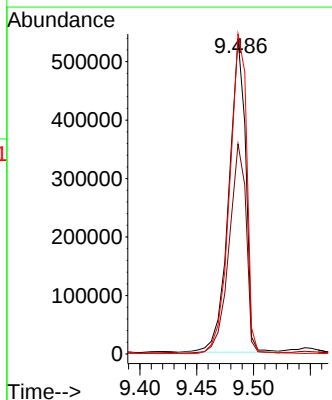
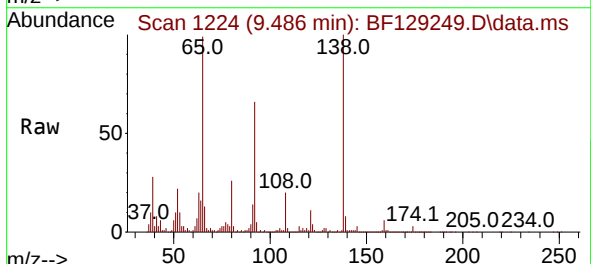
Instrument : BNA_F
 ClientSampleId : PIPELINE-PIGGING-TK2045LMSD

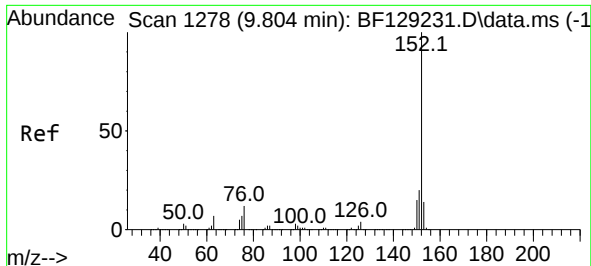
Tgt Ion:162 Resp: 1545857
 Ion Ratio Lower Upper
 162 100
 127 44.7 34.5 51.7
 164 33.7 26.5 39.7



#48
 2-Nitroaniline
 Concen: 57.653 ng
 RT: 9.486 min Scan# 1224
 Delta R.T. 0.006 min
 Lab File: BF129249.D
 Acq: 15 Jul 2022 20:58

Tgt Ion: 65 Resp: 550325
 Ion Ratio Lower Upper
 65 100
 92 66.6 51.9 77.9
 138 101.4 76.4 114.6

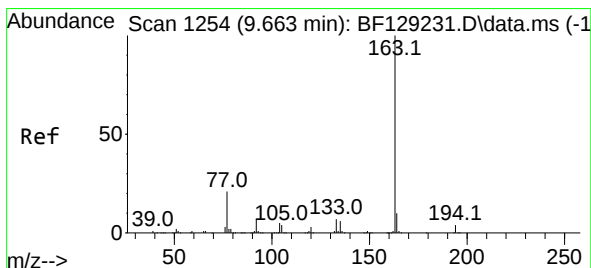
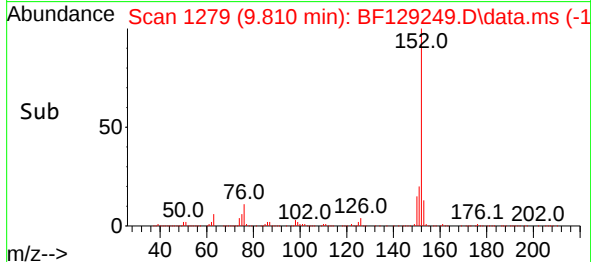
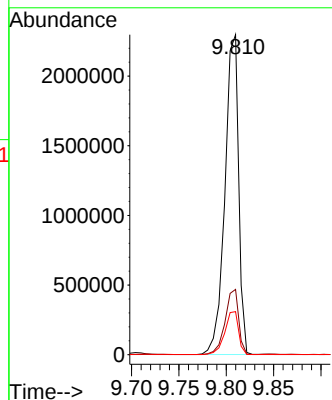
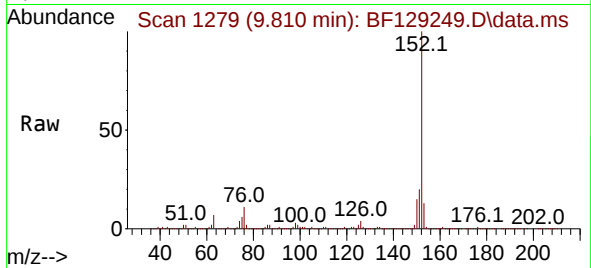




#49
Acenaphthylene
Concen: 54.401 ng
RT: 9.810 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF129249.D
Acq: 15 Jul 2022 20:58

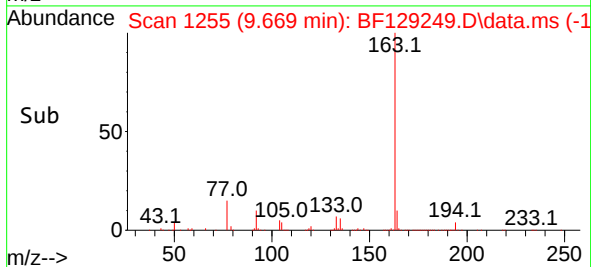
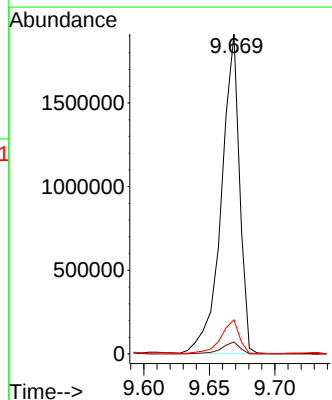
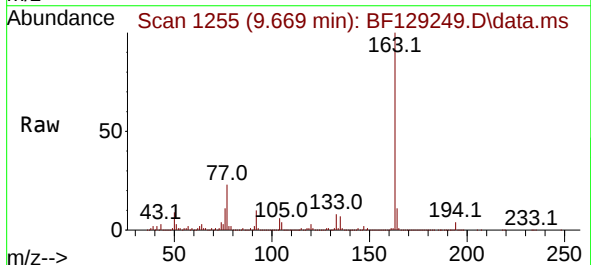
Instrument :
BNA_F
ClientSampleId :
PIPELINE-PIGGING-TK2045LMSD

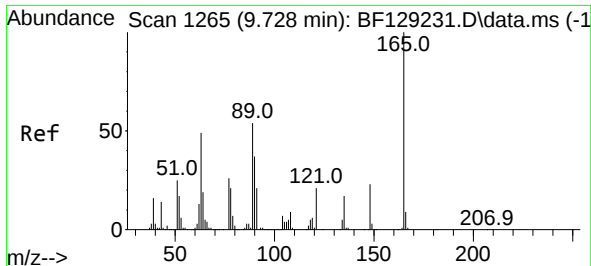
Tgt Ion:152 Resp: 2326359
Ion Ratio Lower Upper
152 100
151 20.4 16.2 24.4
153 13.5 10.7 16.1



#50
Dimethylphthalate
Concen: 55.568 ng
RT: 9.669 min Scan# 1255
Delta R.T. 0.006 min
Lab File: BF129249.D
Acq: 15 Jul 2022 20:58

Tgt Ion:163 Resp: 1839003
Ion Ratio Lower Upper
163 100
194 3.8 3.2 4.8
164 10.6 8.2 12.2

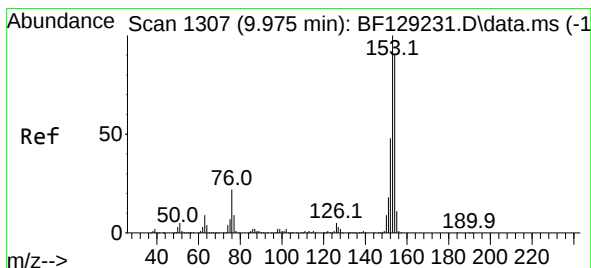
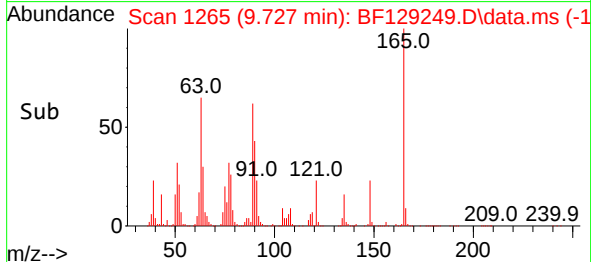
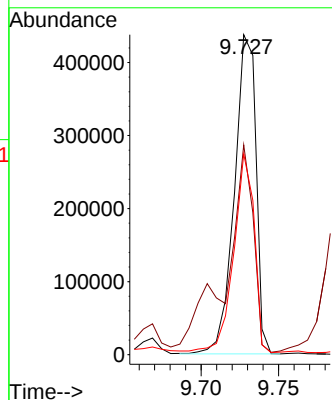
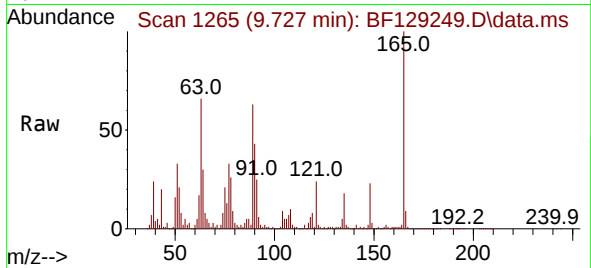




#51
2,6-Dinitrotoluene
Concen: 59.203 ng
RT: 9.727 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF129249.D
Acq: 15 Jul 2022 20:58

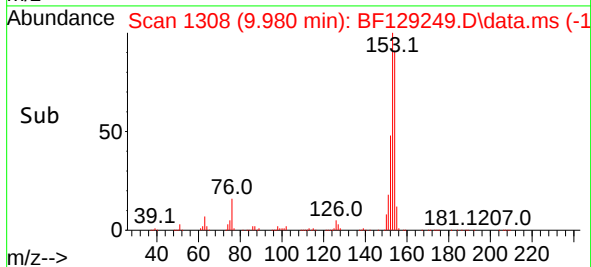
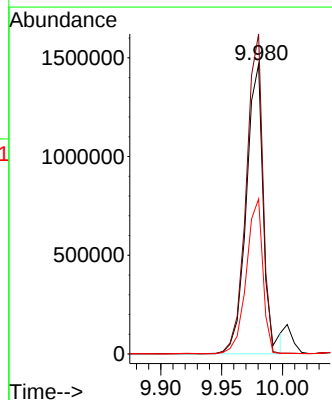
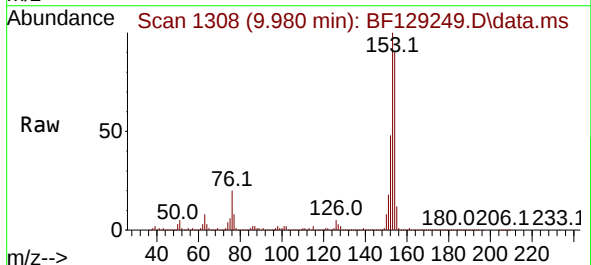
Instrument :
BNA_F
ClientSampleId :
PIPELINE-PIGGING-TK2045LMSD

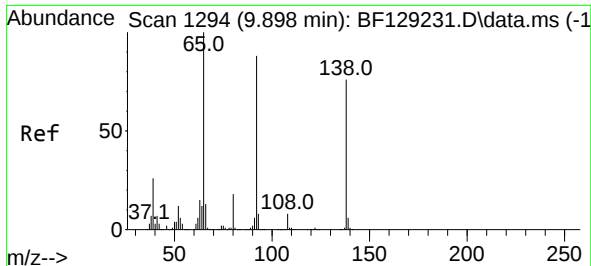
Tgt Ion:165 Resp: 423974
Ion Ratio Lower Upper
165 100
63 65.6 44.9 67.3
89 62.7 43.6 65.4



#52
Acenaphthene
Concen: 51.561 ng
RT: 9.980 min Scan# 1308
Delta R.T. 0.006 min
Lab File: BF129249.D
Acq: 15 Jul 2022 20:58

Tgt Ion:154 Resp: 1441257
Ion Ratio Lower Upper
154 100
153 110.5 89.6 134.4
152 53.5 42.4 63.6

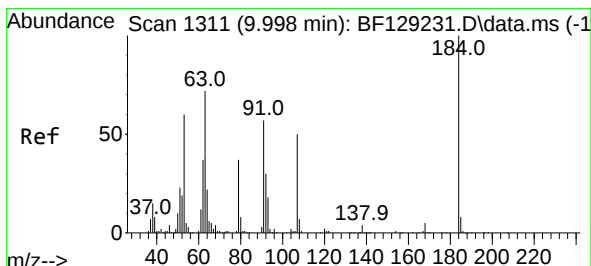
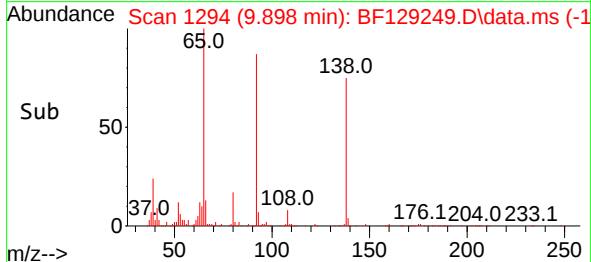
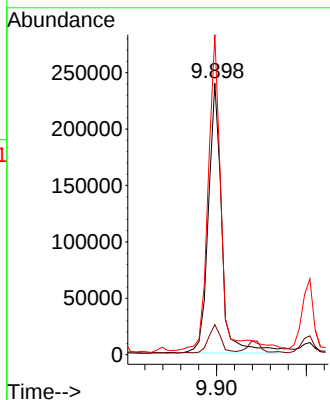
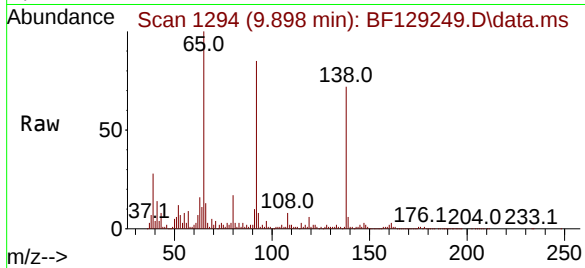




#53
3-Nitroaniline
Concen: 28.969 ng
RT: 9.898 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF129249.D
Acq: 15 Jul 2022 20:58

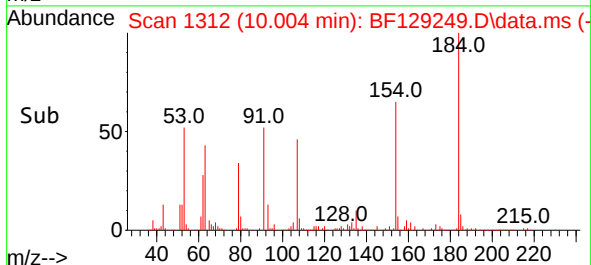
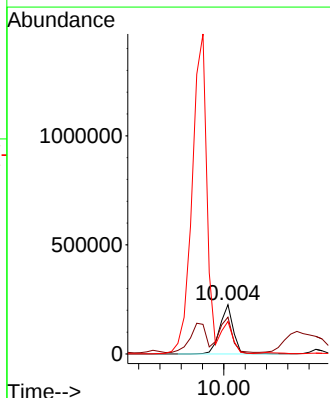
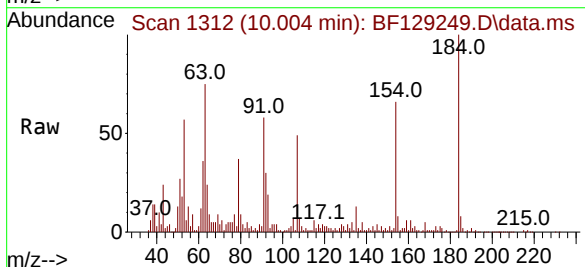
Instrument :
BNA_F
ClientSampleId :
PIPELINE-PIGGING-TK2045LMSD

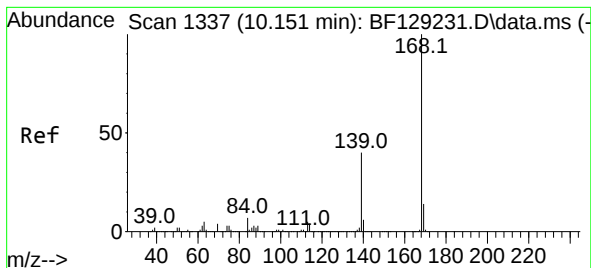
Tgt Ion:138 Resp: 247735
Ion Ratio Lower Upper
138 100
108 11.1 10.9 16.3
92 117.9 98.2 147.2



#54
2,4-Dinitrophenol
Concen: 50.708 ng
RT: 10.004 min Scan# 1312
Delta R.T. 0.006 min
Lab File: BF129249.D
Acq: 15 Jul 2022 20:58

Tgt Ion:184 Resp: 194627
Ion Ratio Lower Upper
184 100
63 74.5 64.5 96.7
154 65.9 50.6 75.8





#55

Dibenzenofuran

Concen: 51.820 ng

RT: 10.151 min Scan# 11

Delta R.T. -0.000 min

Lab File: BF129249.D

Acq: 15 Jul 2022 20:58

Instrument :

BNA_F

ClientSampleId :

PIPELINE-PIGGING-TK2045LMSD

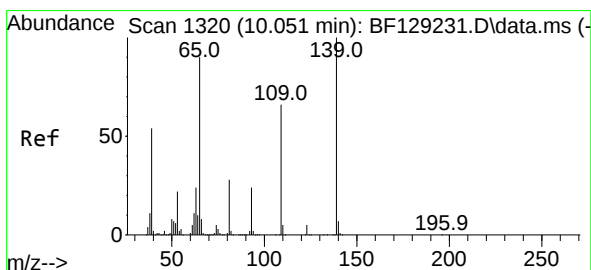
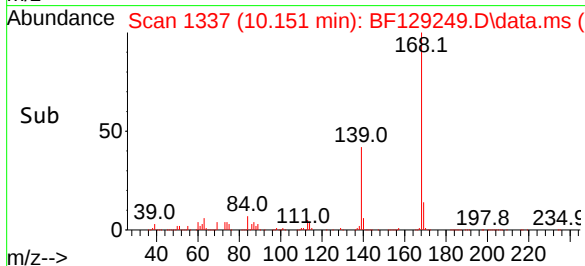
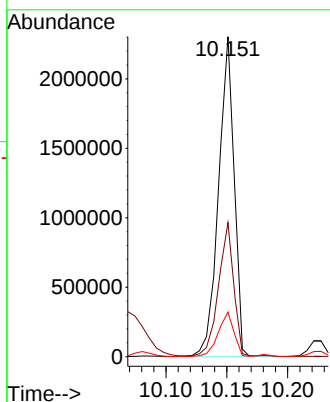
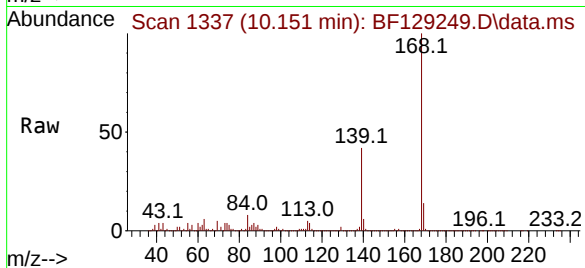
Tgt Ion:168 Resp: 2056220

Ion Ratio Lower Upper

168 100

139 41.9 30.6 46.0

169 14.0 11.0 16.6



#56

4-Nitrophenol

Concen: 84.028 ng

RT: 10.069 min Scan# 1323

Delta R.T. 0.018 min

Lab File: BF129249.D

Acq: 15 Jul 2022 20:58

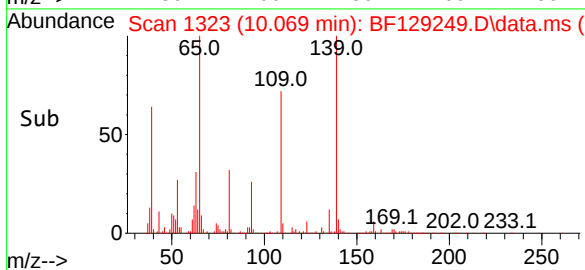
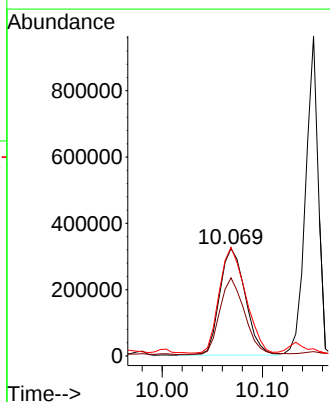
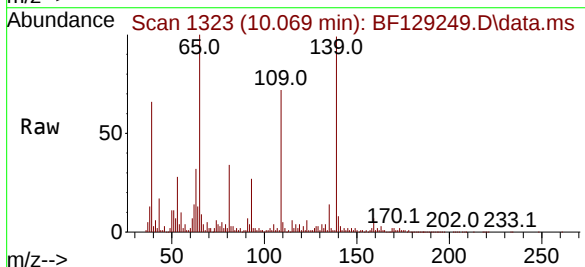
Tgt Ion:139 Resp: 568745

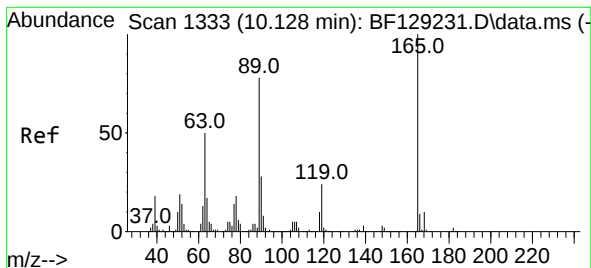
Ion Ratio Lower Upper

139 100

109 72.8 50.7 90.7

65 101.3 74.5 114.5



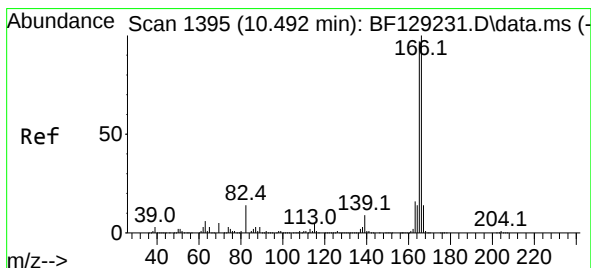
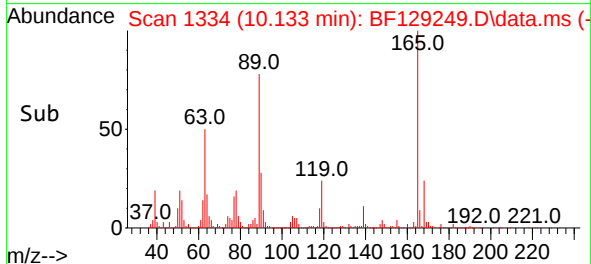
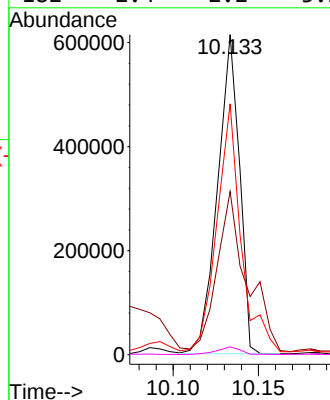
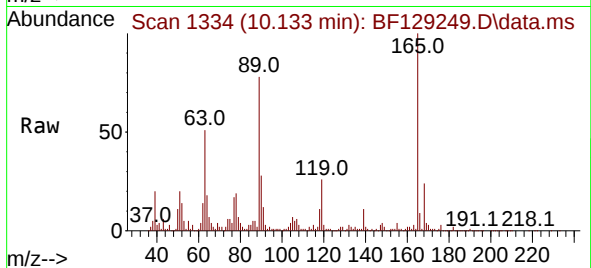


#57
2,4-Dinitrotoluene
Concen: 58.435 ng
RT: 10.133 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF129249.D
Acq: 15 Jul 2022 20:58

Instrument :
BNA_F
ClientSampleId :
PIPELINE-PIGGING-TK2045LMSD

Tgt Ion:165 Resp: 548752

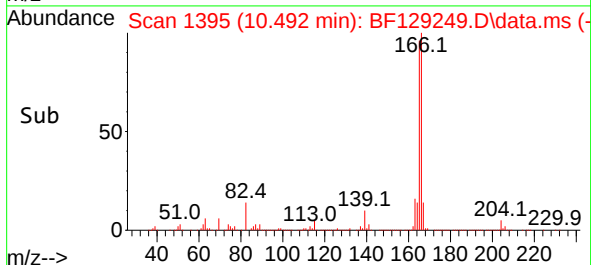
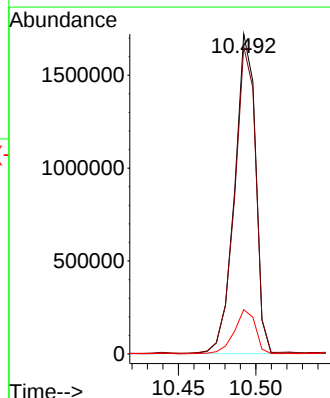
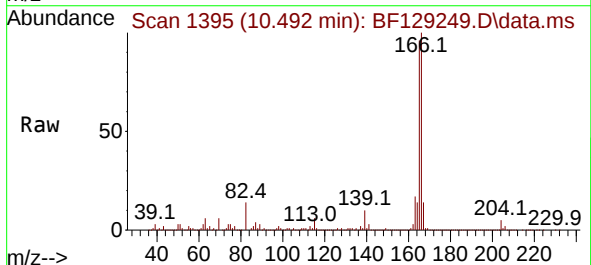
Ion	Ratio	Lower	Upper
165	100		
63	51.0	39.8	59.6
89	78.4	60.2	90.2
182	2.4	2.2	3.2

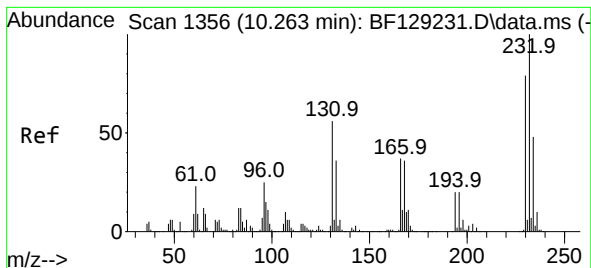


#58
Fluorene
Concen: 53.554 ng
RT: 10.492 min Scan# 1395
Delta R.T. -0.000 min
Lab File: BF129249.D
Acq: 15 Jul 2022 20:58

Tgt Ion:166 Resp: 1616279

Ion	Ratio	Lower	Upper
166	100		
165	96.0	78.1	117.1
167	13.9	10.5	15.7

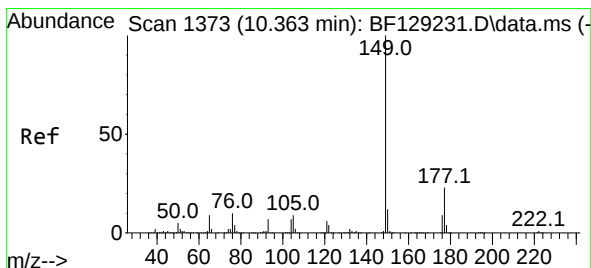
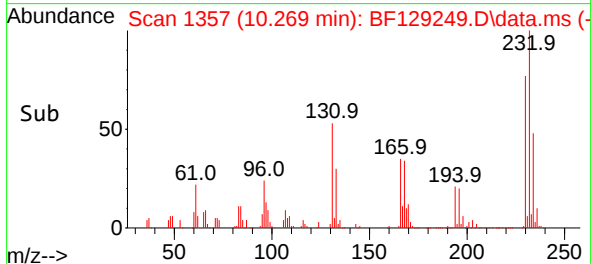
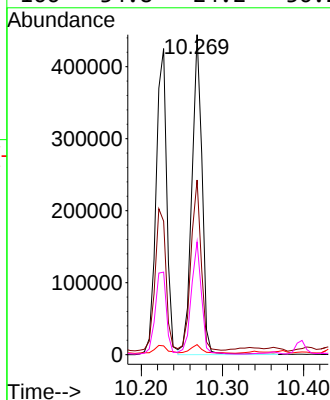
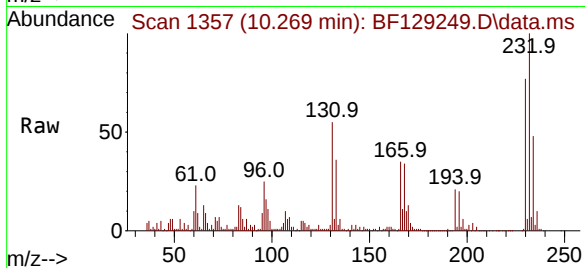




#59
2,3,4,6-Tetrachlorophenol
Concen: 50.985 ng
RT: 10.269 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF129249.D
Acq: 15 Jul 2022 20:58

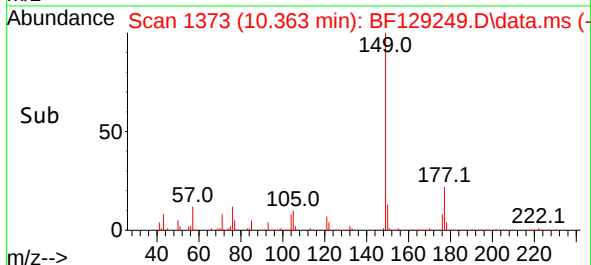
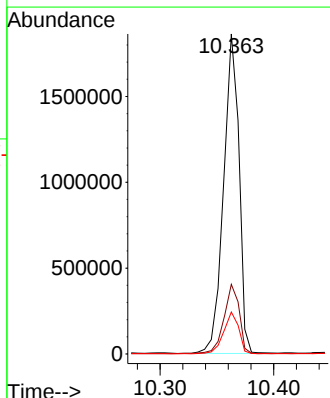
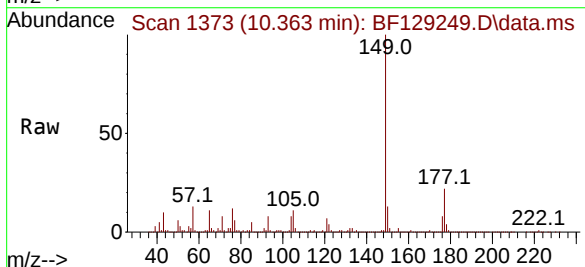
Instrument :
BNA_F
ClientSampleId :
PIPELINE-PIGGING-TK2045LMSD

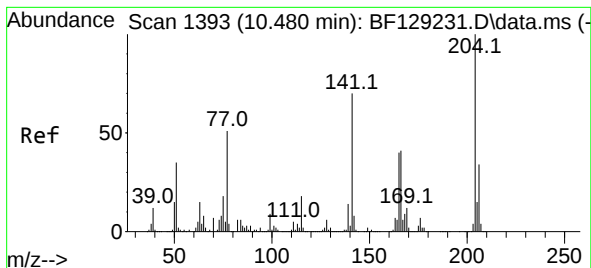
Tgt Ion:232 Resp: 388973
Ion Ratio Lower Upper
232 100
131 52.4 36.1 54.1
130 3.0 1.8 2.8#
166 34.8 24.2 36.2



#60
Diethylphthalate
Concen: 54.941 ng
RT: 10.363 min Scan# 1373
Delta R.T. -0.000 min
Lab File: BF129249.D
Acq: 15 Jul 2022 20:58

Tgt Ion:149 Resp: 1758329
Ion Ratio Lower Upper
149 100
177 21.8 17.3 25.9
150 13.1 10.2 15.2

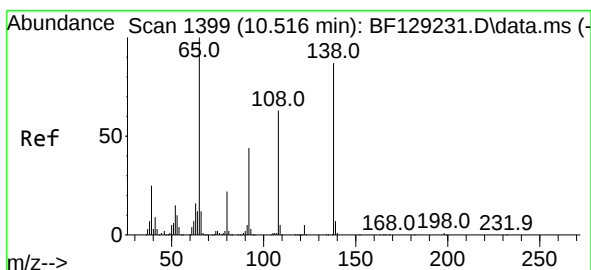
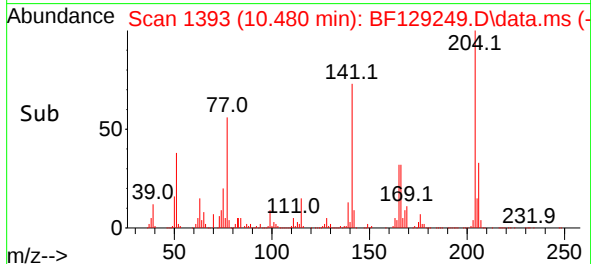
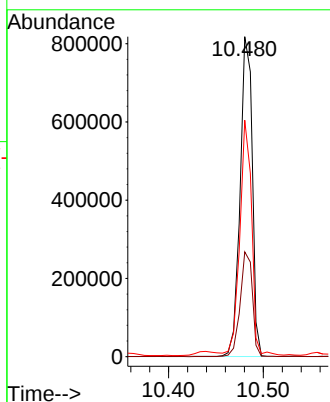
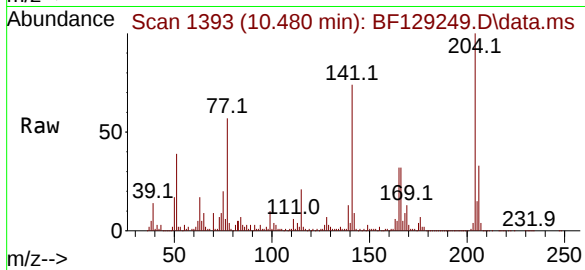




#61
4-Chlorophenyl-phenylether
Concen: 51.876 ng
RT: 10.480 min Scan# 1393
Delta R.T. -0.000 min
Lab File: BF129249.D
Acq: 15 Jul 2022 20:58

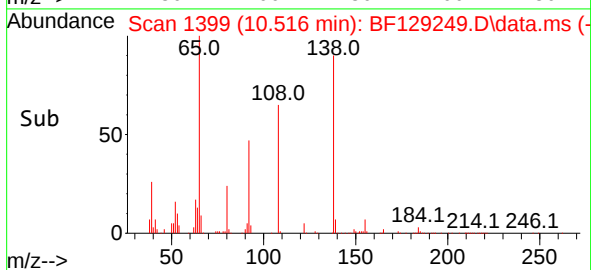
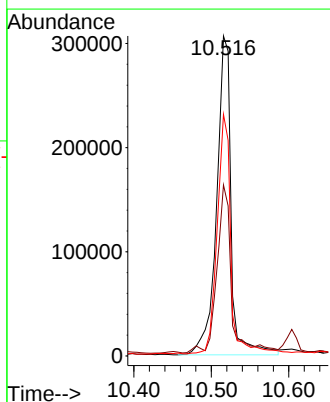
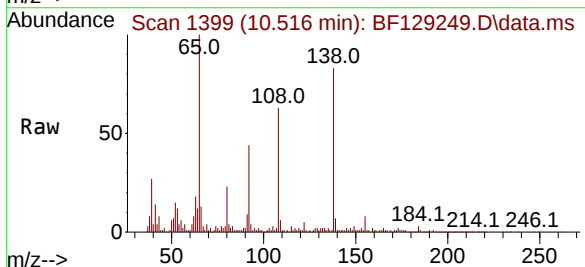
Instrument :
BNA_F
ClientSampleId :
PIPELINE-PIGGING-TK2045LMSD

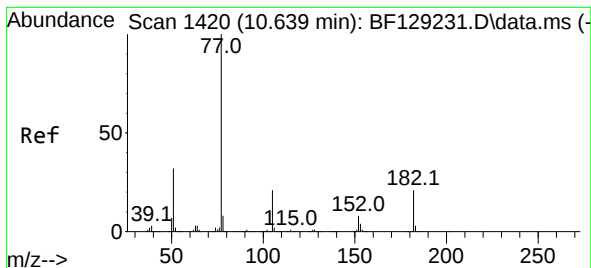
Tgt Ion:204 Resp: 725276
Ion Ratio Lower Upper
204 100
206 32.8 25.8 38.6
141 73.9 47.0 70.4#



#62
4-Nitroaniline
Concen: 46.986 ng
RT: 10.516 min Scan# 1399
Delta R.T. -0.000 min
Lab File: BF129249.D
Acq: 15 Jul 2022 20:58

Tgt Ion:138 Resp: 397795
Ion Ratio Lower Upper
138 100
92 53.5 33.5 73.5
108 75.5 61.0 101.0





#63

Azobenzene

Concen: 52.639 ng

RT: 10.645 min Scan# 1420

Delta R.T. 0.006 min

Lab File: BF129249.D

Acq: 15 Jul 2022 20:58

Instrument :

BNA_F

ClientSampleId :

PIPELINE-PIGGING-TK2045LMSD

Tgt Ion: 77 Resp: 1798295

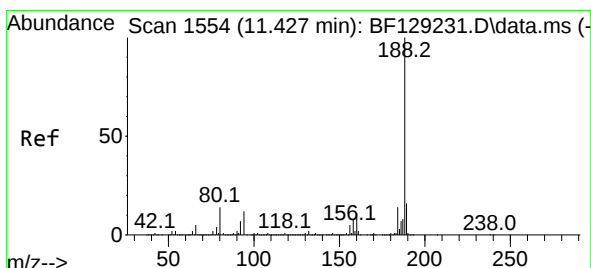
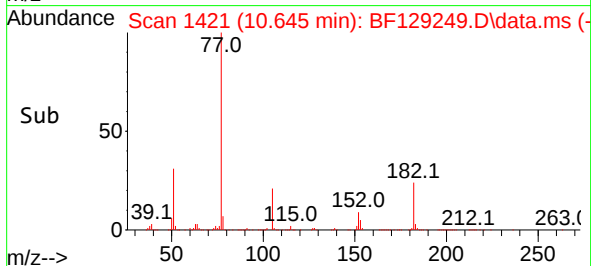
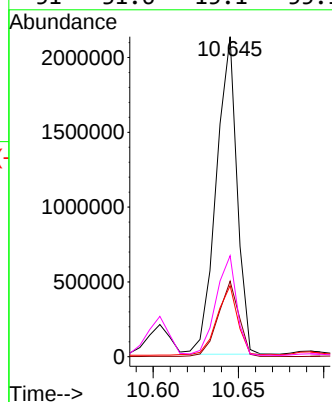
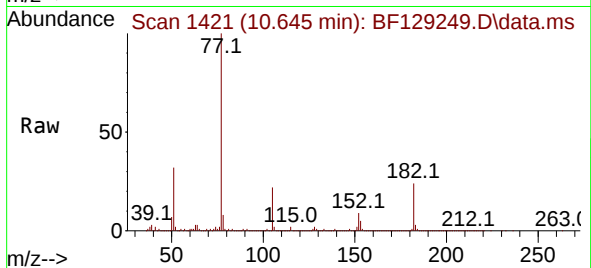
Ion Ratio Lower Upper

77 100

182 23.6 5.6 45.6

105 22.2 1.6 41.6

51 31.6 15.1 55.1



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.433 min Scan# 1555

Delta R.T. 0.006 min

Lab File: BF129249.D

Acq: 15 Jul 2022 20:58

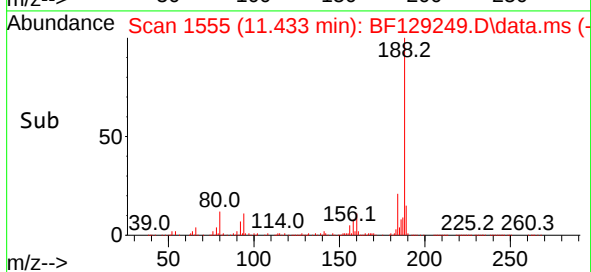
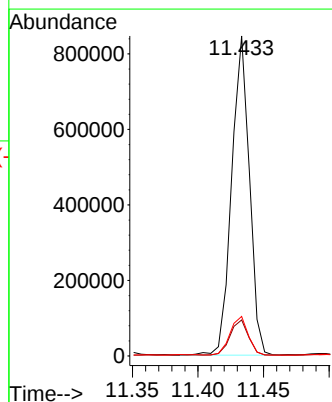
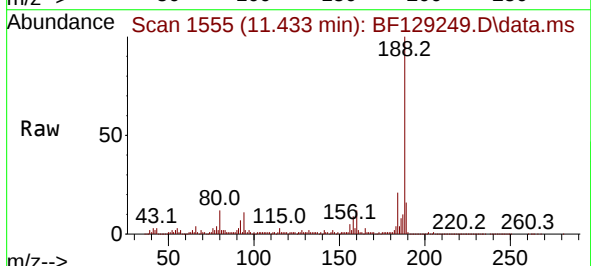
Tgt Ion:188 Resp: 794624

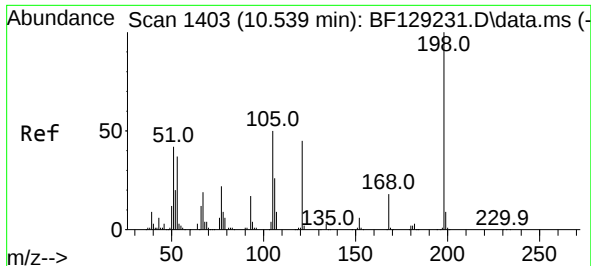
Ion Ratio Lower Upper

188 100

94 11.3 7.0 10.6#

80 12.4 7.6 11.4#

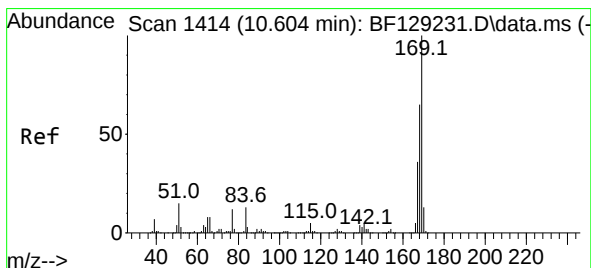
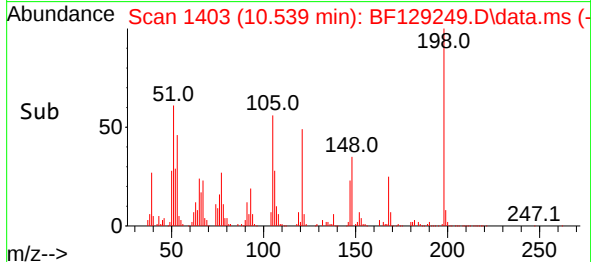
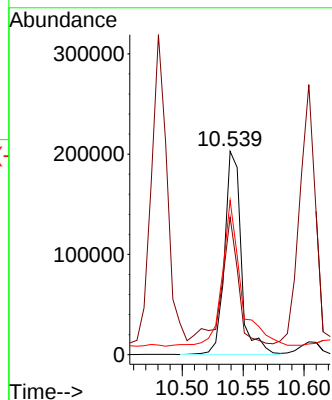
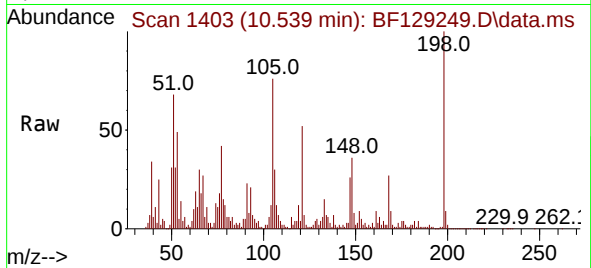




#65
4,6-Dinitro-2-methylphenol
Concen: 38.389 ng
RT: 10.539 min Scan# 1403
Delta R.T. -0.000 min
Lab File: BF129249.D
Acq: 15 Jul 2022 20:58

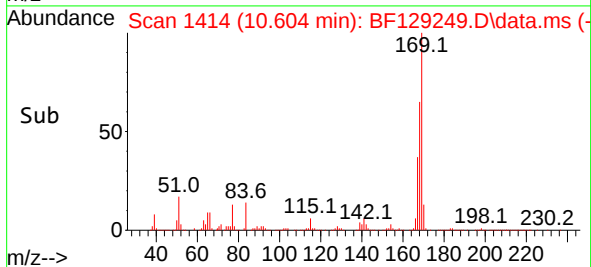
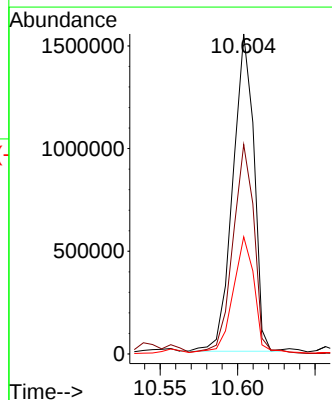
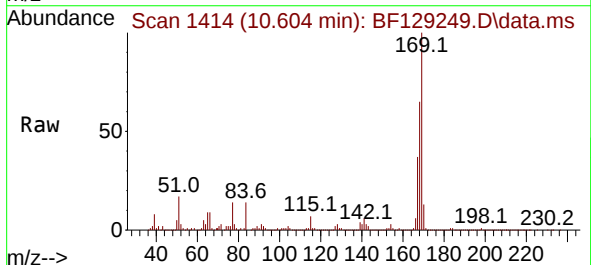
Instrument :
BNA_F
ClientSampleId :
PIPELINE-PIGGING-TK2045LMSD

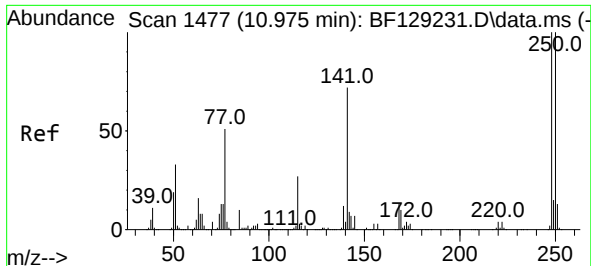
Tgt Ion:198 Resp: 192734
Ion Ratio Lower Upper
198 100
51 67.7 37.6 77.6
105 75.9 27.0 67.0#



#66
n-Nitrosodiphenylamine
Concen: 57.676 ng
RT: 10.604 min Scan# 1414
Delta R.T. -0.000 min
Lab File: BF129249.D
Acq: 15 Jul 2022 20:58

Tgt Ion:169 Resp: 1462257
Ion Ratio Lower Upper
169 100
168 65.5 50.1 75.1
167 36.6 27.9 41.9

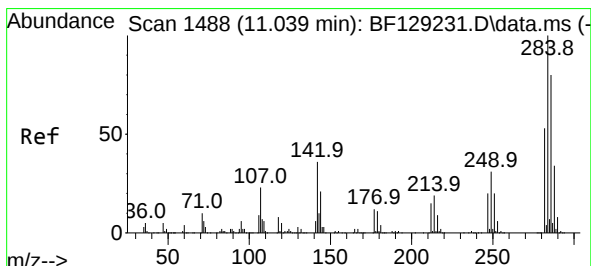
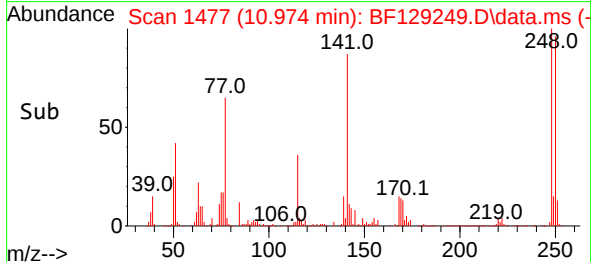
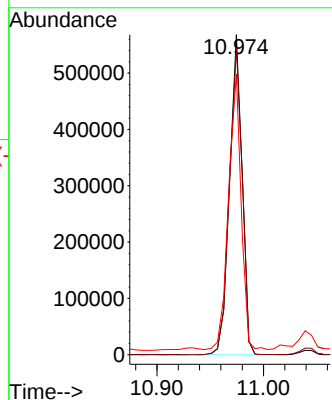
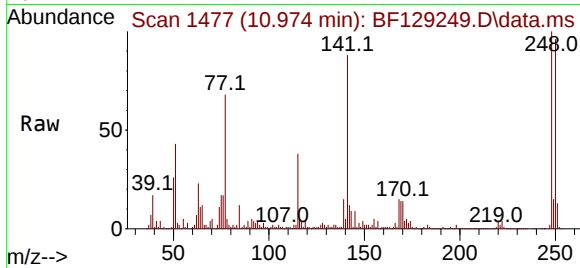




#67
4-Bromophenyl-phenylether
Concen: 55.886 ng
RT: 10.974 min Scan# 1477
Delta R.T. -0.000 min
Lab File: BF129249.D
Acq: 15 Jul 2022 20:58

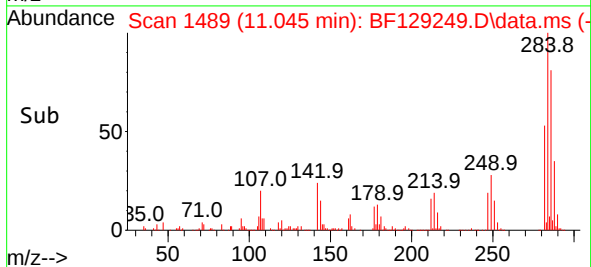
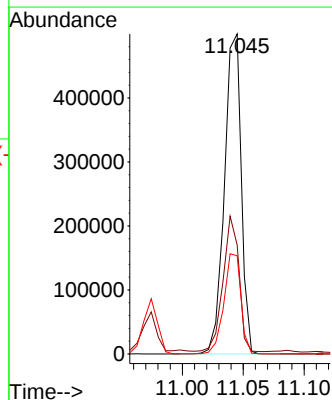
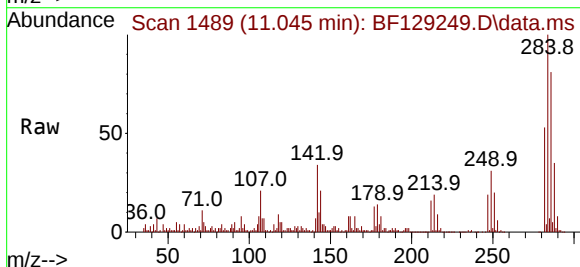
Instrument :
BNA_F
ClientSampleId :
PIPELINE-PIGGING-TK2045LMSD

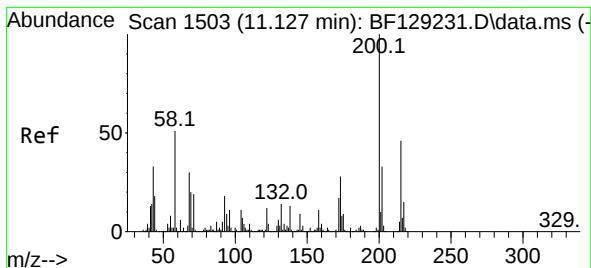
Tgt Ion:248 Resp: 467476
Ion Ratio Lower Upper
248 100
250 96.0 80.6 120.8
141 87.8 58.9 88.3



#68
Hexachlorobenzene
Concen: 54.960 ng
RT: 11.045 min Scan# 1489
Delta R.T. 0.006 min
Lab File: BF129249.D
Acq: 15 Jul 2022 20:58

Tgt Ion:284 Resp: 482568
Ion Ratio Lower Upper
284 100
142 34.1 29.0 43.4
249 30.7 25.0 37.6





#69

Atrazine

Concen: 61.556 ng

RT: 11.145 min Scan# 11

Delta R.T. 0.018 min

Lab File: BF129249.D

Acq: 15 Jul 2022 20:58

Instrument :

BNA_F

ClientSampleId :

PIPELINE-PIGGING-TK2045LMSD

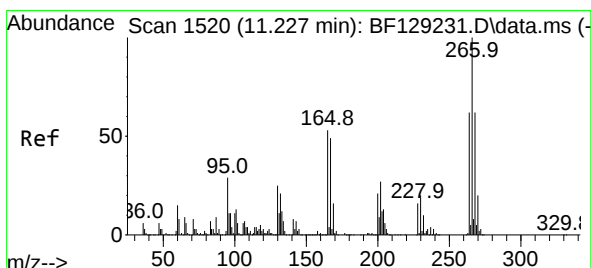
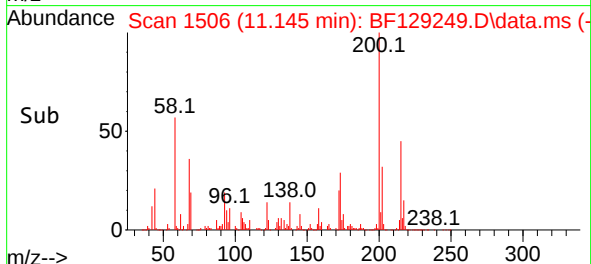
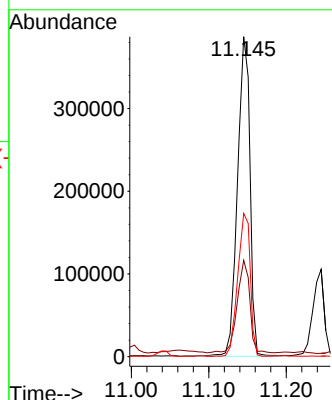
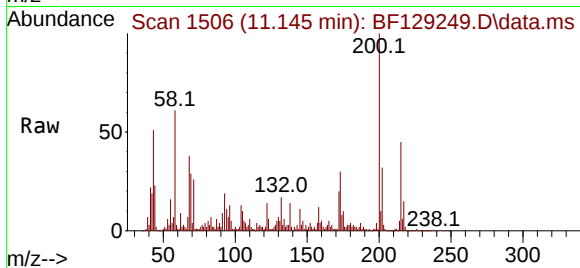
Tgt Ion:200 Resp: 432652

Ion Ratio Lower Upper

200 100

173 30.1 6.3 46.3

215 44.8 28.3 68.3



#70

Pentachlorophenol

Concen: 100.359 ng

RT: 11.245 min Scan# 1523

Delta R.T. 0.018 min

Lab File: BF129249.D

Acq: 15 Jul 2022 20:58

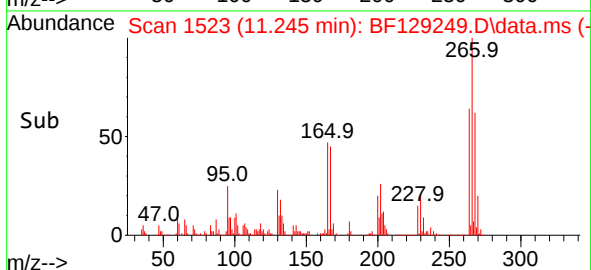
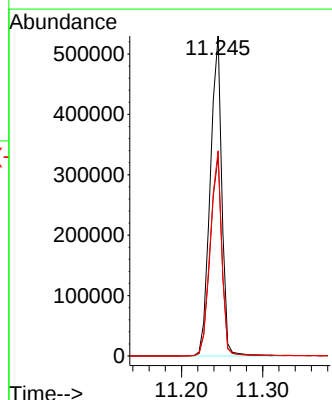
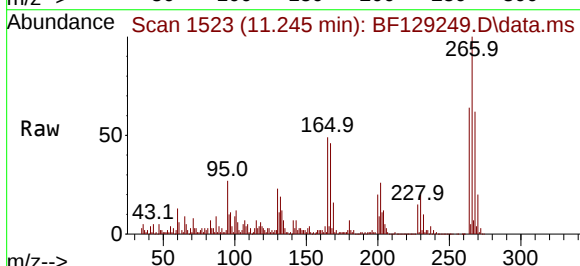
Tgt Ion:266 Resp: 523992

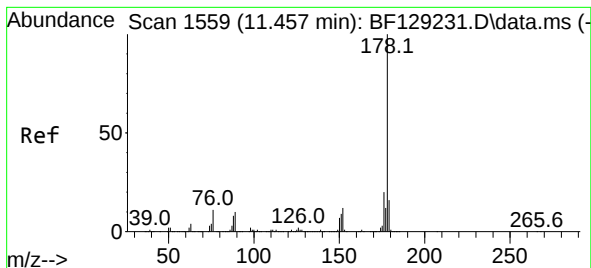
Ion Ratio Lower Upper

266 100

268 62.3 51.0 76.4

264 64.1 49.4 74.2





#71

Phenanthrene

Concen: 55.525 ng

RT: 11.463 min Scan# 1560

Delta R.T. 0.006 min

Lab File: BF129249.D

Acq: 15 Jul 2022 20:58

Instrument :

BNA_F

ClientSampleId :

PIPELINE-PIGGING-TK2045LMSD

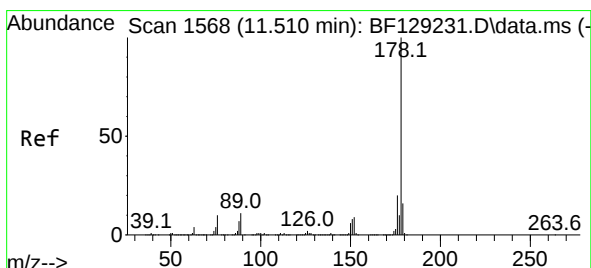
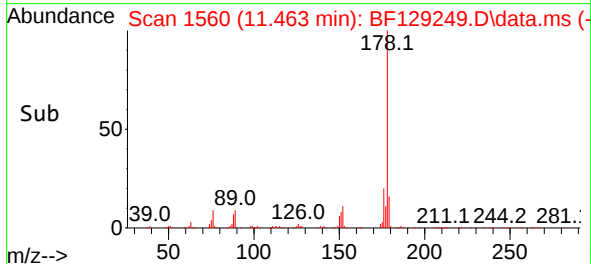
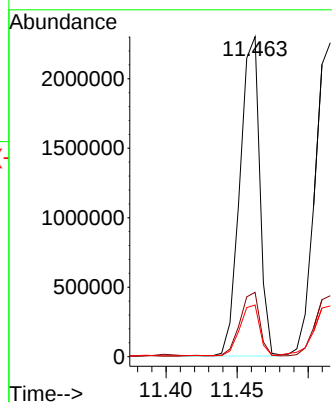
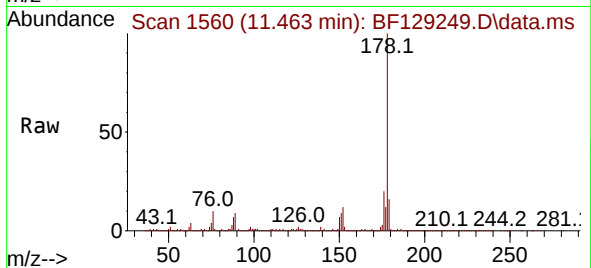
Tgt Ion:178 Resp: 2240096

Ion Ratio Lower Upper

178 100

176 20.1 16.0 24.0

179 16.2 12.6 19.0



#72

Anthracene

Concen: 54.856 ng

RT: 11.516 min Scan# 1569

Delta R.T. 0.006 min

Lab File: BF129249.D

Acq: 15 Jul 2022 20:58

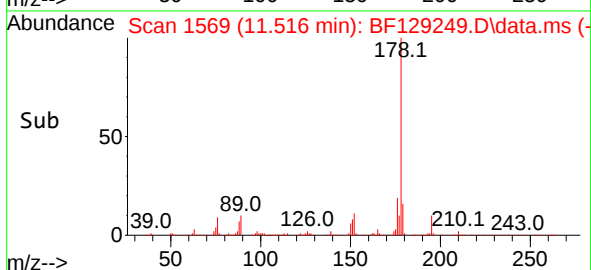
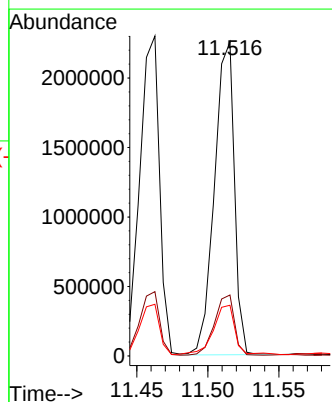
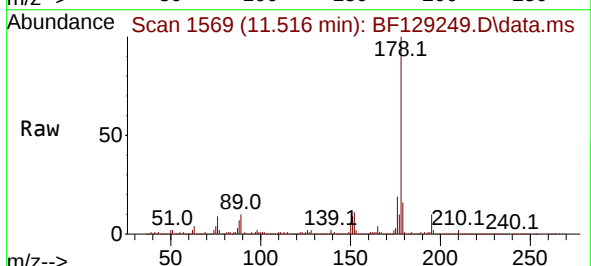
Tgt Ion:178 Resp: 2198394

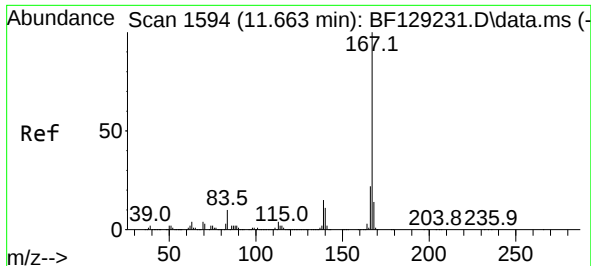
Ion Ratio Lower Upper

178 100

176 19.4 15.4 23.2

179 16.2 12.6 19.0

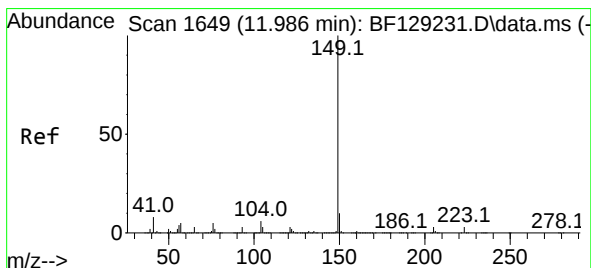
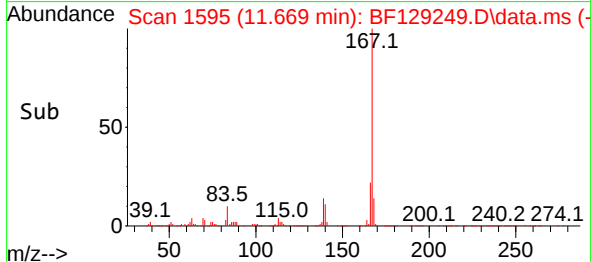
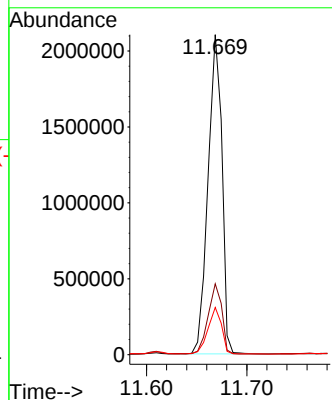
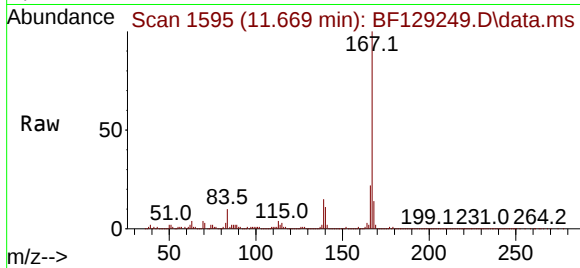




#73
 Carbazole
 Concen: 50.823 ng
 RT: 11.669 min Scan# 1594
 Delta R.T. 0.006 min
 Lab File: BF129249.D
 Acq: 15 Jul 2022 20:58

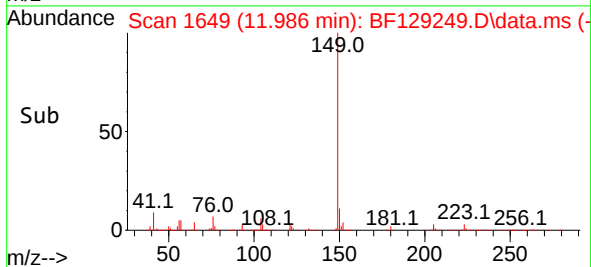
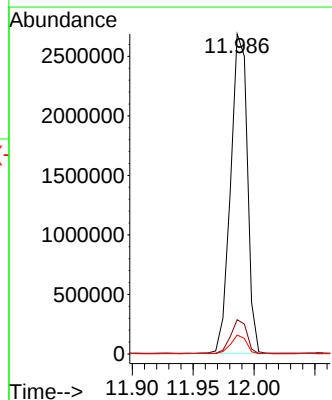
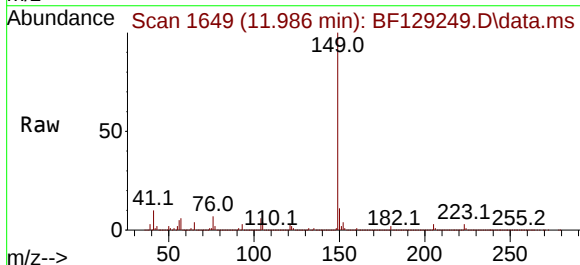
Instrument :
 BNA_F
 ClientSampleId :
 PIPELINE-PIGGING-TK2045LMSD

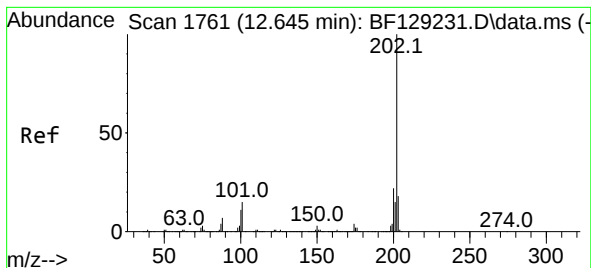
Tgt Ion:167 Resp: 2031623
 Ion Ratio Lower Upper
 167 100
 166 22.2 17.7 26.5
 139 14.8 11.2 16.8



#74
 Di-n-butylphthalate
 Concen: 55.952 ng
 RT: 11.986 min Scan# 1649
 Delta R.T. -0.000 min
 Lab File: BF129249.D
 Acq: 15 Jul 2022 20:58

Tgt Ion:149 Resp: 2570365
 Ion Ratio Lower Upper
 149 100
 150 10.7 7.5 11.3
 104 5.9 4.4 6.6





#75

Fluoranthene

Concen: 49.997 ng

RT: 12.651 min Scan# 1

Delta R.T. 0.006 min

Lab File: BF129249.D

Acq: 15 Jul 2022 20:58

Instrument :

BNA_F

ClientSampleId :

PIPELINE-PIGGING-TK2045LMSD

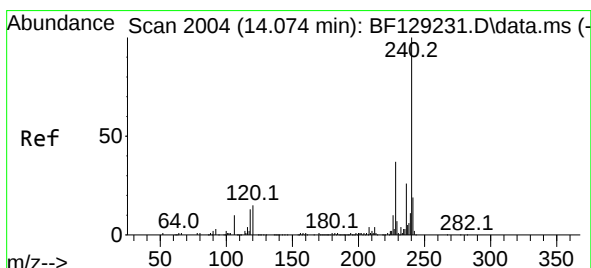
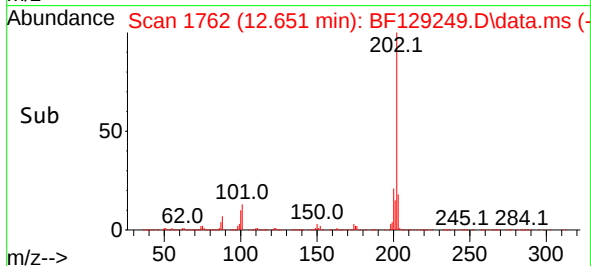
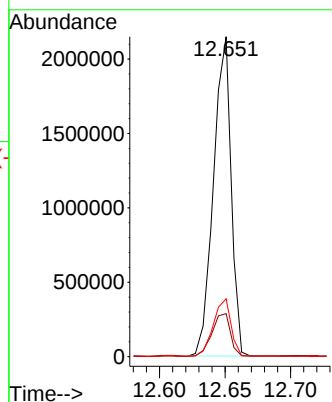
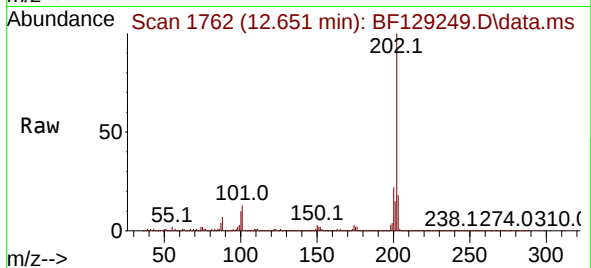
Tgt Ion:202 Resp: 2008894

Ion Ratio Lower Upper

202 100

101 13.4 0.0 31.4

203 18.1 0.0 38.0



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.074 min Scan# 2004

Delta R.T. -0.000 min

Lab File: BF129249.D

Acq: 15 Jul 2022 20:58

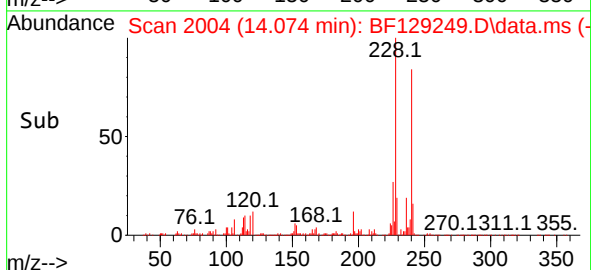
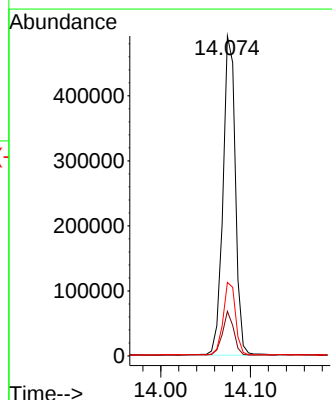
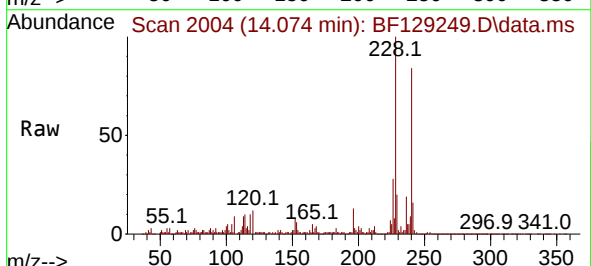
Tgt Ion:240 Resp: 471490

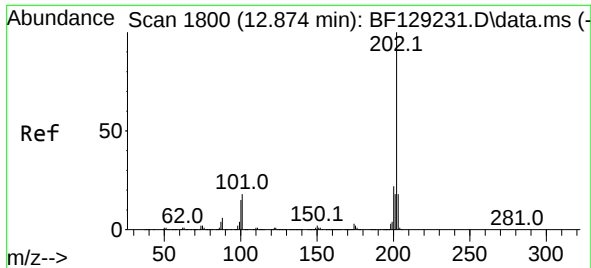
Ion Ratio Lower Upper

240 100

120 14.0 8.9 13.3#

236 23.0 20.8 31.2

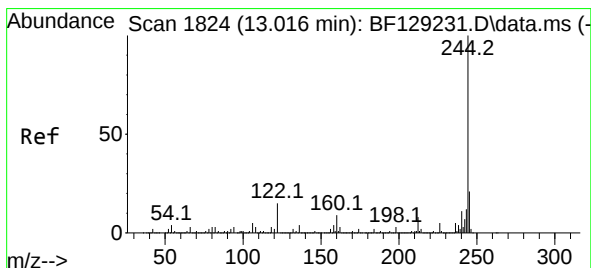
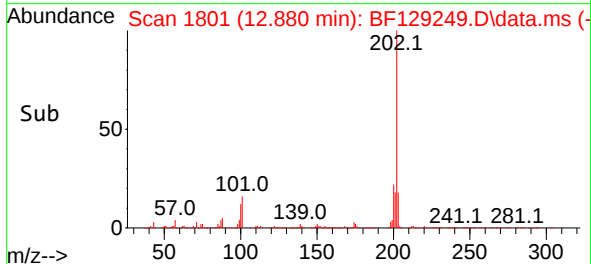
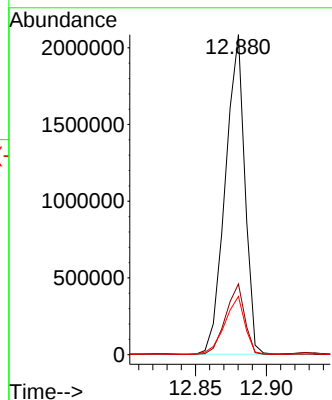
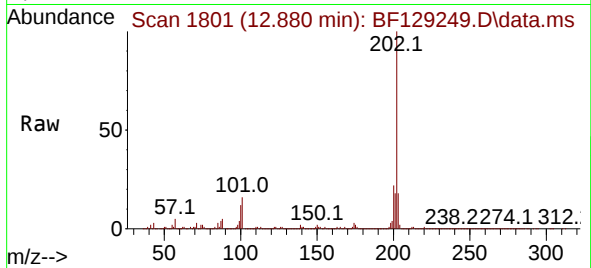




#78
Pyrene
Concen: 51.983 ng
RT: 12.880 min Scan# 1800
Delta R.T. 0.006 min
Lab File: BF129249.D
Acq: 15 Jul 2022 20:58

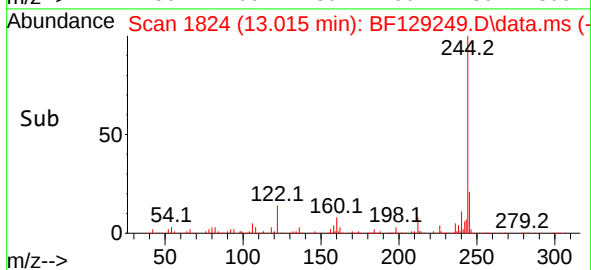
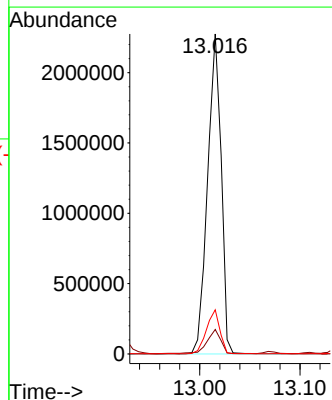
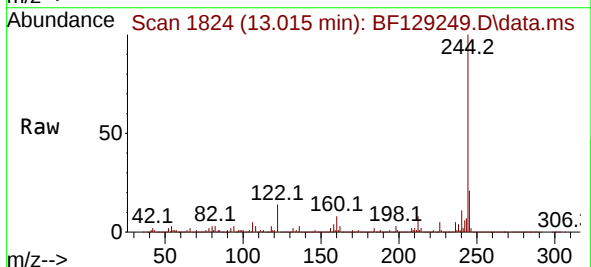
Instrument :
BNA_F
ClientSampleId :
PIPELINE-PIGGING-TK2045LMSD

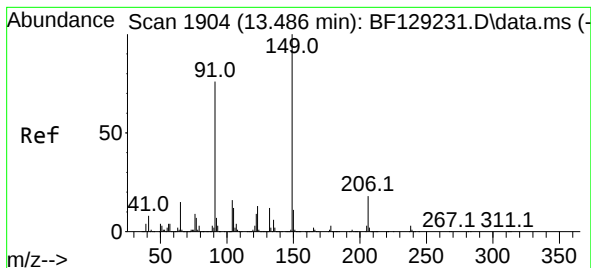
Tgt Ion:202 Resp: 1985141
Ion Ratio Lower Upper
202 100
200 22.1 17.7 26.5
203 18.2 14.6 21.8



#79
Terphenyl-d14
Concen: 85.150 ng
RT: 13.015 min Scan# 1824
Delta R.T. -0.000 min
Lab File: BF129249.D
Acq: 15 Jul 2022 20:58

Tgt Ion:244 Resp: 2146116
Ion Ratio Lower Upper
244 100
212 7.6 6.1 9.1
122 13.8 8.8 13.2#





#80

Butylbenzylphthalate

Concen: 54.612 ng

RT: 13.486 min Scan# 1904

Delta R.T. -0.000 min

Lab File: BF129249.D

Acq: 15 Jul 2022 20:58

Instrument :

BNA_F

ClientSampleId :

PIPELINE-PIGGING-TK2045LMSD

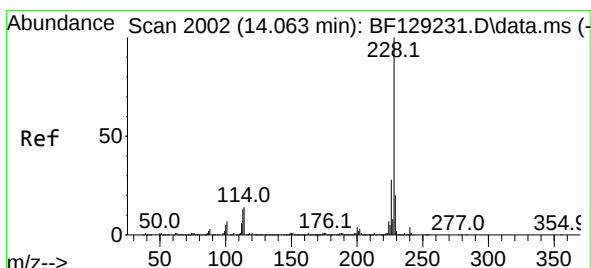
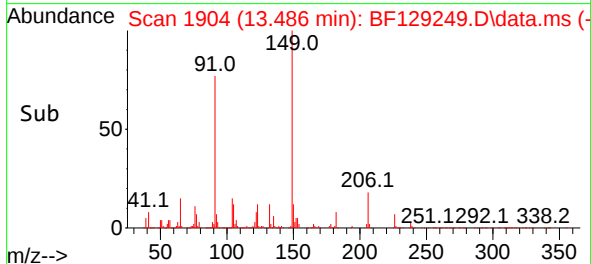
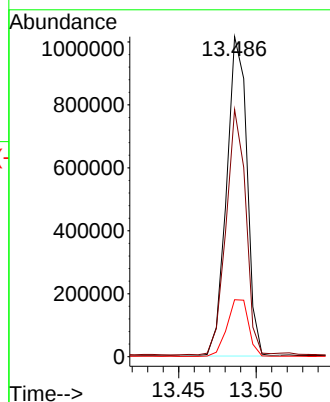
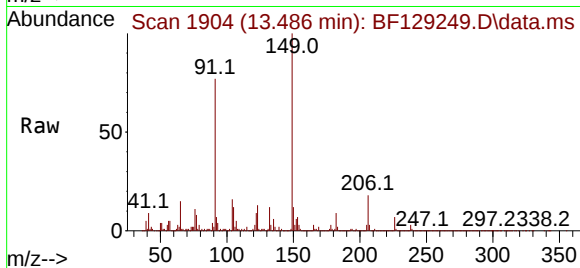
Tgt Ion:149 Resp: 928929

Ion Ratio Lower Upper

149 100

91 77.2 61.2 91.8

206 17.8 15.7 23.5



#81

Benzo(a)anthracene

Concen: 51.211 ng

RT: 14.068 min Scan# 2003

Delta R.T. 0.006 min

Lab File: BF129249.D

Acq: 15 Jul 2022 20:58

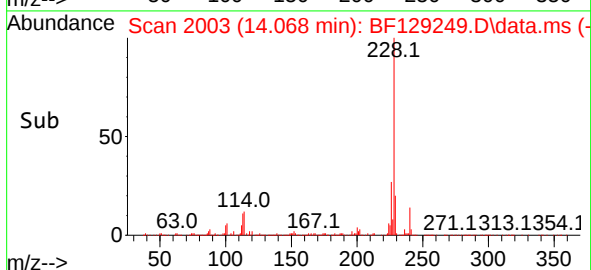
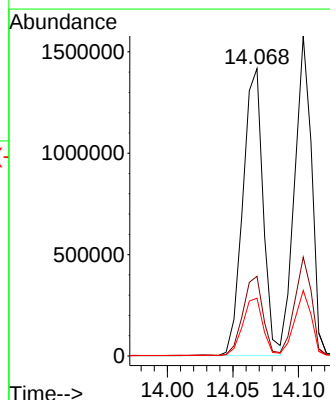
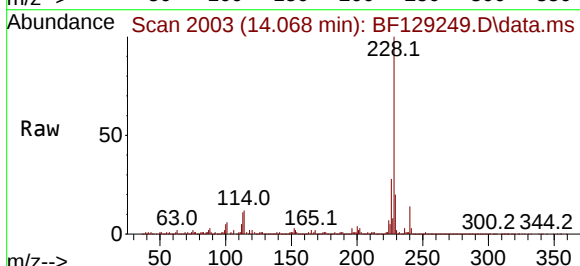
Tgt Ion:228 Resp: 1523017

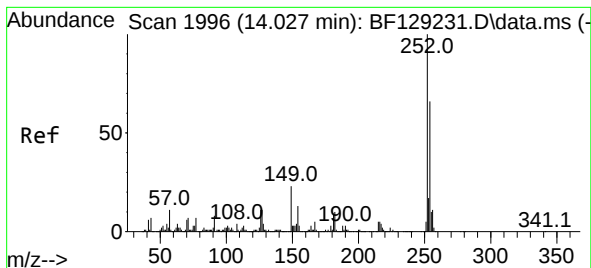
Ion Ratio Lower Upper

228 100

226 27.7 22.1 33.1

229 20.1 15.8 23.8

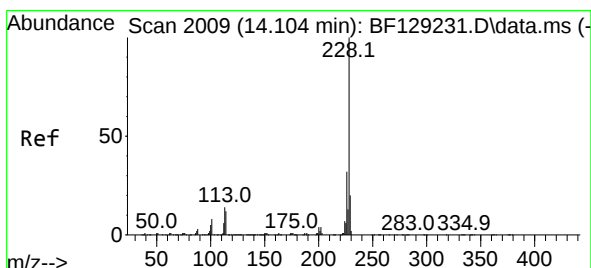
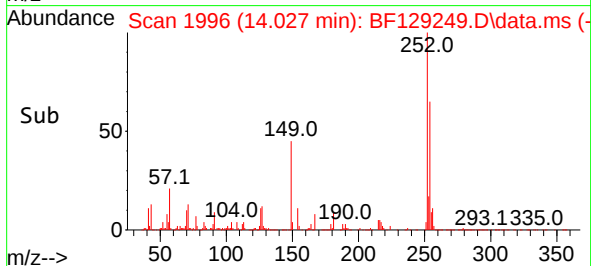
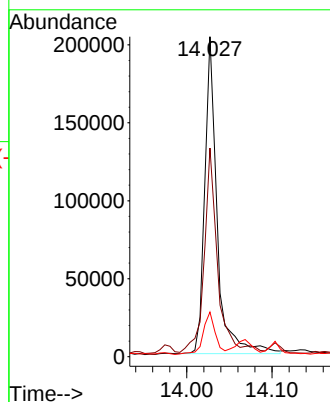
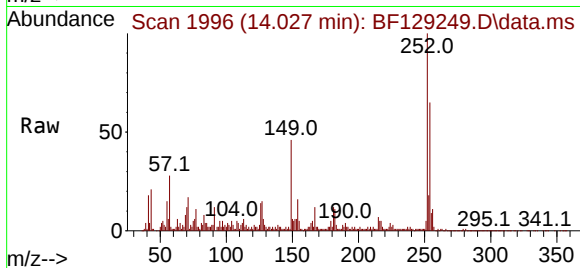




#82
 3,3'-Dichlorobenzidine
 Concen: 27.701 ng
 RT: 14.027 min Scan# 1996
 Delta R.T. -0.000 min
 Lab File: BF129249.D
 Acq: 15 Jul 2022 20:58

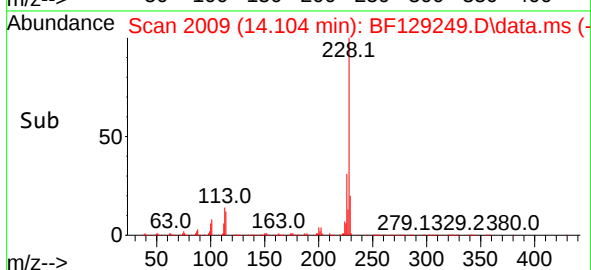
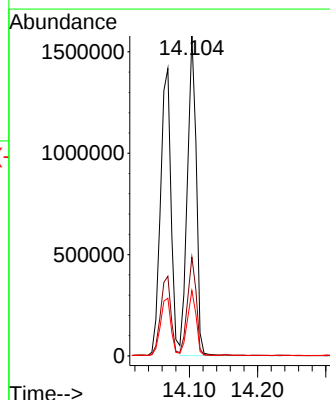
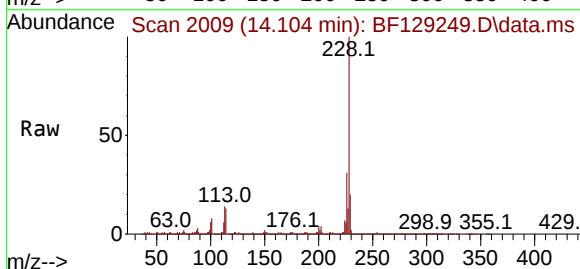
Instrument :
 BNA_F
 ClientSampleId :
 PIPELINE-PIGGING-TK2045LMSD

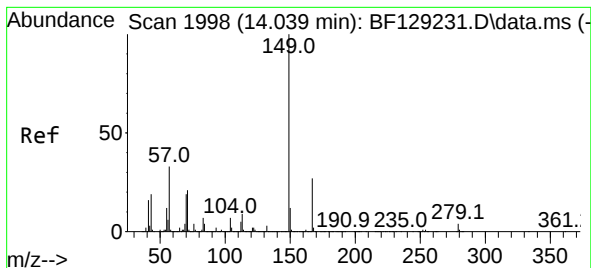
Tgt Ion:252 Resp: 206084
 Ion Ratio Lower Upper
 252 100
 254 65.2 50.2 75.4
 126 14.0 8.2 12.4#



#83
 Chrysene
 Concen: 50.157 ng
 RT: 14.104 min Scan# 2009
 Delta R.T. -0.000 min
 Lab File: BF129249.D
 Acq: 15 Jul 2022 20:58

Tgt Ion:228 Resp: 1423815
 Ion Ratio Lower Upper
 228 100
 226 30.9 24.3 36.5
 229 20.5 15.9 23.9

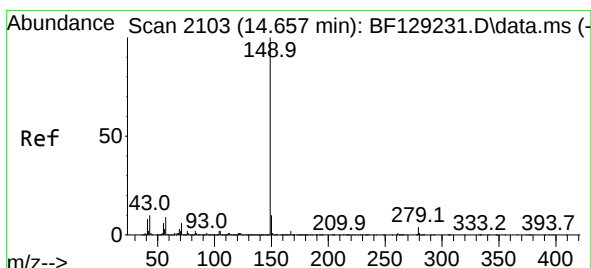
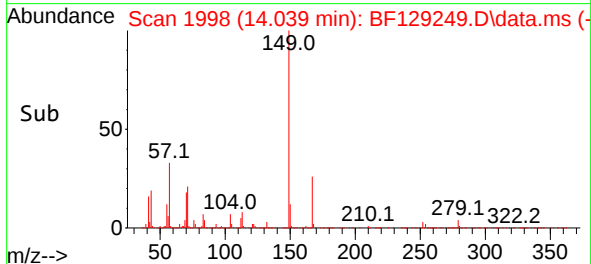
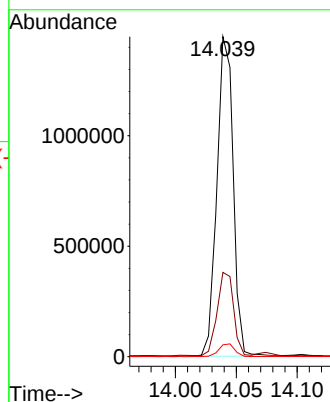
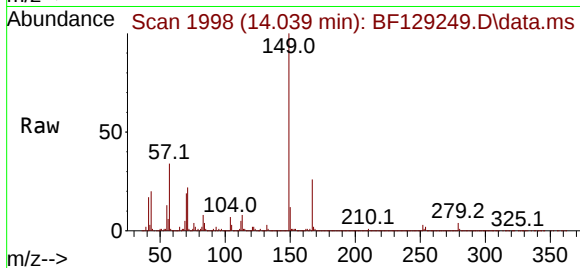




#84
 Bis(2-ethylhexyl)phthalate
 Concen: 59.608 ng
 RT: 14.039 min Scan# 1998
 Delta R.T. -0.000 min
 Lab File: BF129249.D
 Acq: 15 Jul 2022 20:58

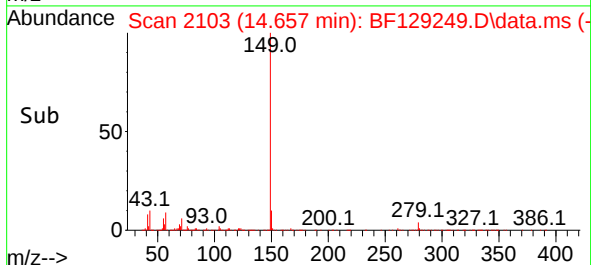
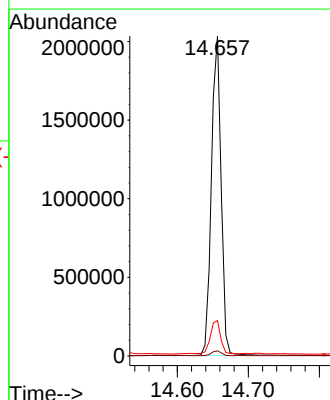
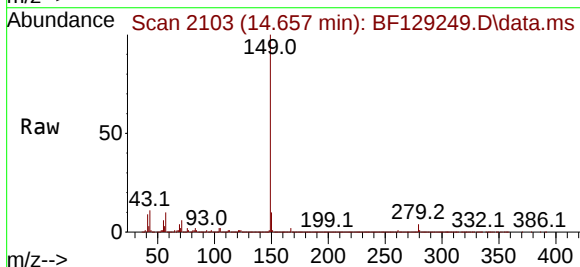
Instrument : BNA_F
 ClientSampleId : PIPELINE-PIGGING-TK2045LMSD

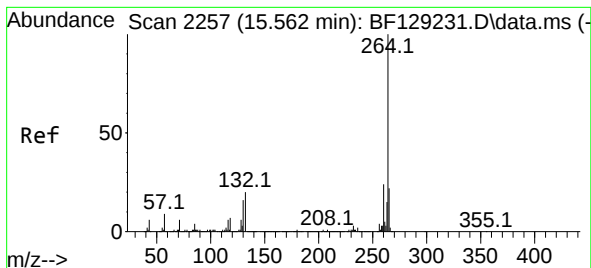
Tgt Ion:149 Resp: 1349138
 Ion Ratio Lower Upper
 149 100
 167 26.4 21.0 31.4
 279 3.7 3.1 4.7



#85
 Di-n-octyl phthalate
 Concen: 59.573 ng
 RT: 14.657 min Scan# 2103
 Delta R.T. -0.000 min
 Lab File: BF129249.D
 Acq: 15 Jul 2022 20:58

Tgt Ion:149 Resp: 1933928
 Ion Ratio Lower Upper
 149 100
 167 1.5 1.3 1.9
 43 10.6 9.2 13.8





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.562 min Scan# 21

Delta R.T. -0.000 min

Lab File: BF129249.D

Acq: 15 Jul 2022 20:58

Instrument :

BNA_F

ClientSampleId :

PIPELINE-PIGGING-TK2045LMSD

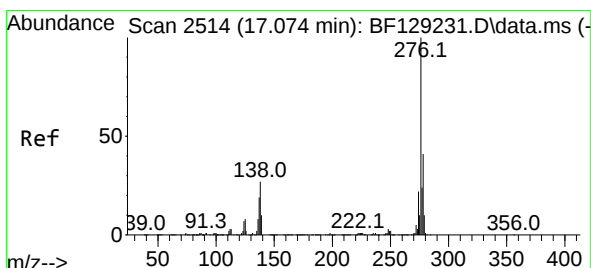
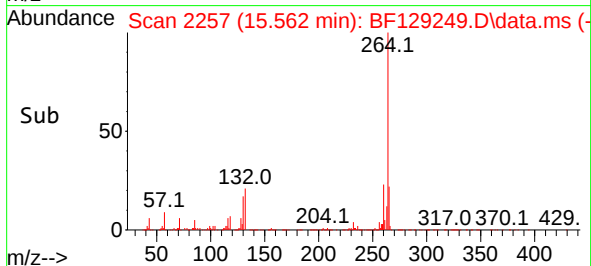
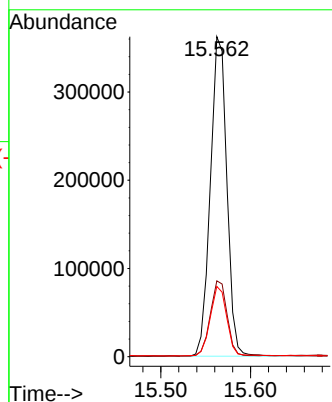
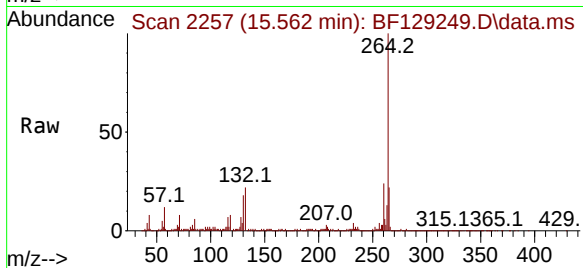
Tgt Ion:264 Resp: 462190

Ion Ratio Lower Upper

264 100

260 23.7 18.4 27.6

265 21.9 17.2 25.8



#87

Indeno(1,2,3-cd)pyrene

Concen: 62.887 ng

RT: 17.086 min Scan# 2516

Delta R.T. 0.012 min

Lab File: BF129249.D

Acq: 15 Jul 2022 20:58

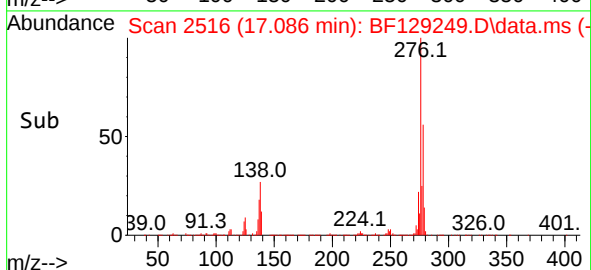
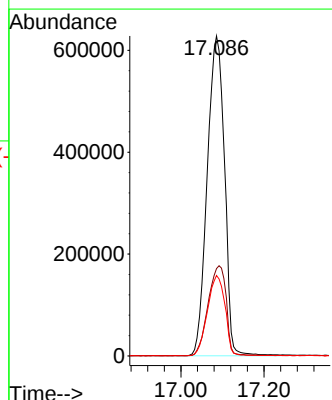
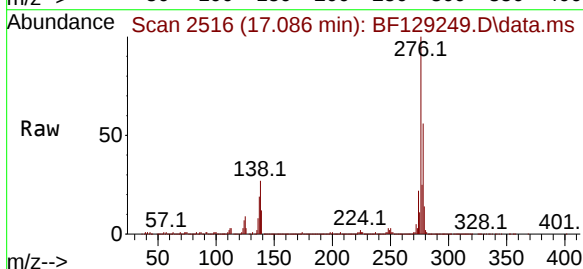
Tgt Ion:276 Resp: 1812420

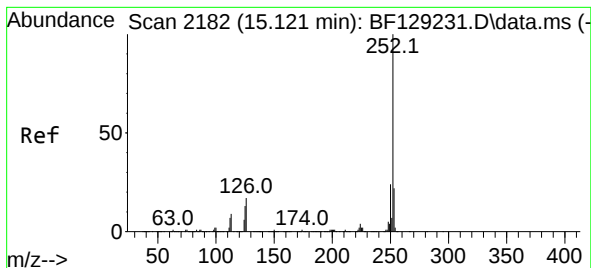
Ion Ratio Lower Upper

276 100

138 29.3 21.1 31.7

277 25.5 20.3 30.5





#88

Benzo(b)fluoranthene

Concen: 49.497 ng

RT: 15.162 min Scan# 2189

Delta R.T. 0.041 min

Lab File: BF129249.D

Acq: 15 Jul 2022 20:58

Instrument :

BNA_F

ClientSampleId :

PIPELINE-PIGGING-TK2045LMSD

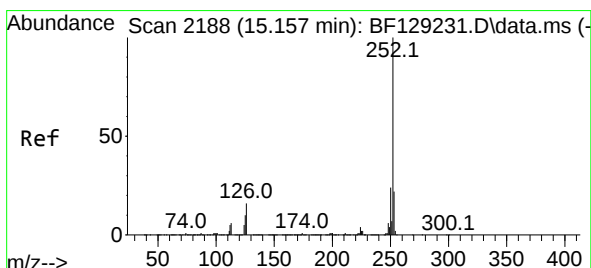
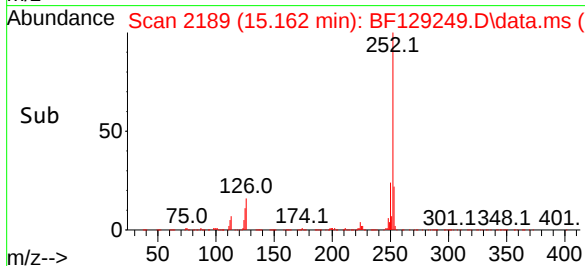
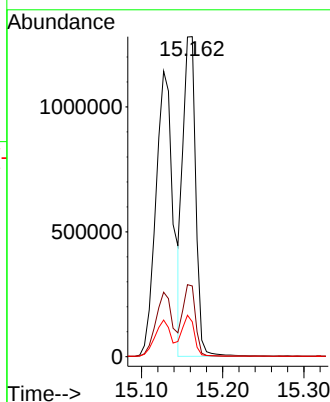
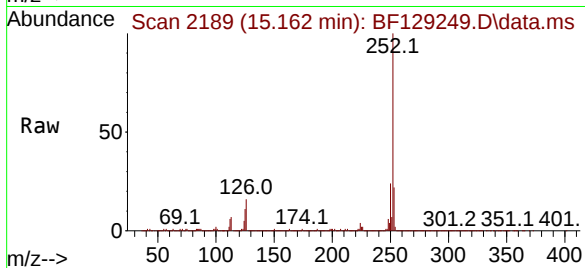
Tgt Ion:252 Resp: 1405408

Ion Ratio Lower Upper

252 100

253 22.1 17.7 26.5

125 10.9 8.0 12.0



#89

Benzo(k)fluoranthene

Concen: 50.662 ng

RT: 15.162 min Scan# 2189

Delta R.T. 0.006 min

Lab File: BF129249.D

Acq: 15 Jul 2022 20:58

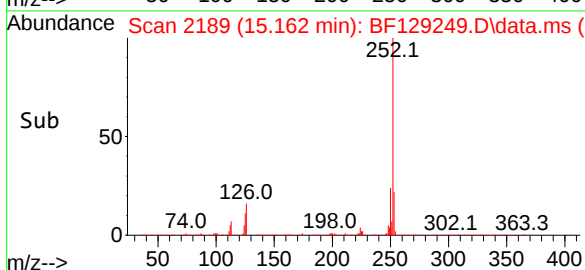
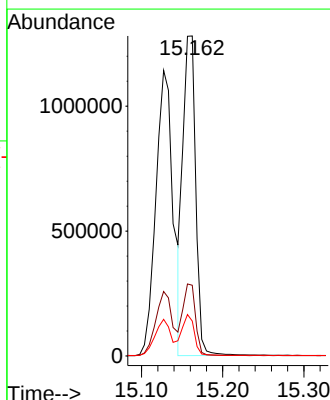
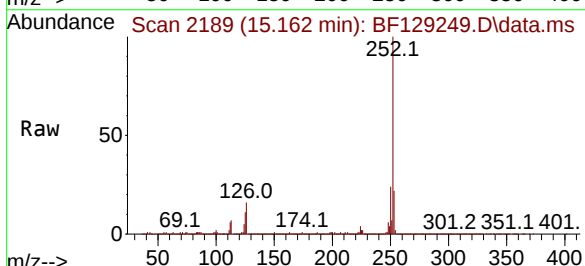
Tgt Ion:252 Resp: 1405408

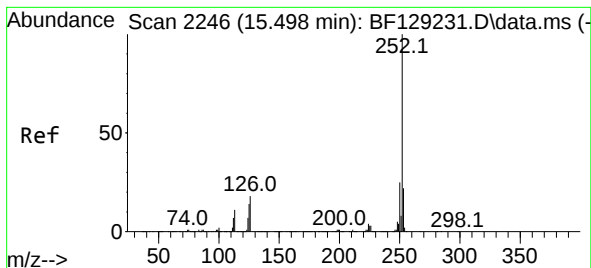
Ion Ratio Lower Upper

252 100

253 22.1 17.8 26.6

125 10.9 8.3 12.5





#90

Benzo(a)pyrene

Concen: 60.982 ng

RT: 15.504 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF129249.D

Acq: 15 Jul 2022 20:58

Instrument :

BNA_F

ClientSampleId :

PIPELINE-PIGGING-TK2045LMSD

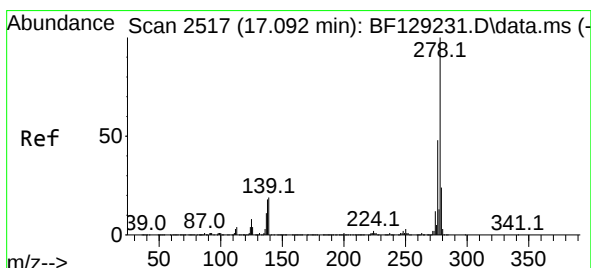
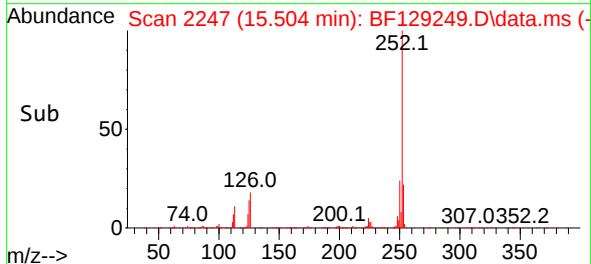
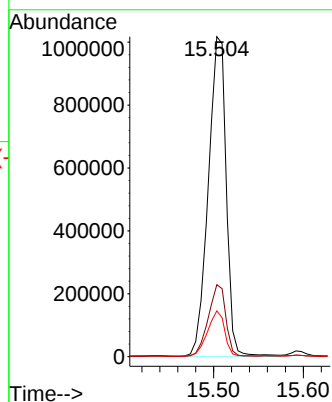
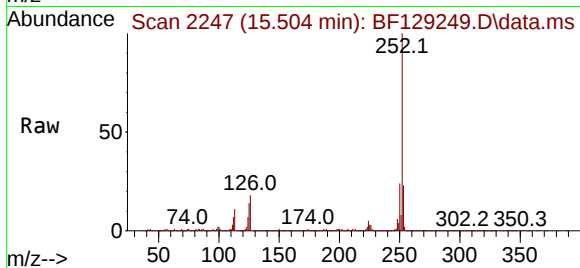
Tgt Ion:252 Resp: 1409607

Ion Ratio Lower Upper

252 100

253 22.5 17.0 25.6

125 14.3 8.8 13.2#



#91

Dibenzo(a,h)anthracene

Concen: 66.320 ng

RT: 17.103 min Scan# 2519

Delta R.T. 0.012 min

Lab File: BF129249.D

Acq: 15 Jul 2022 20:58

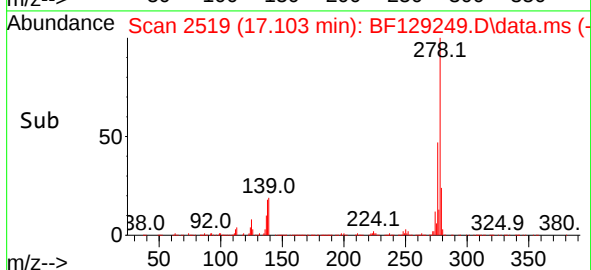
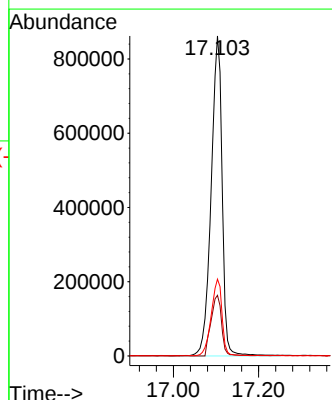
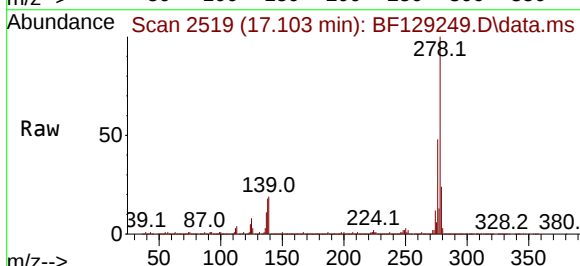
Tgt Ion:278 Resp: 1546054

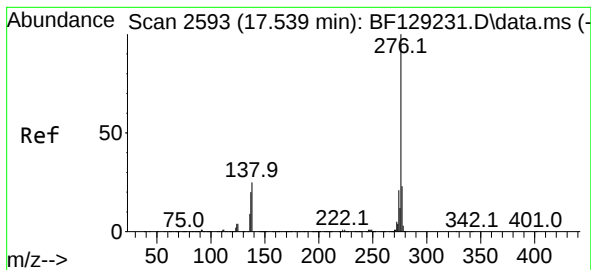
Ion Ratio Lower Upper

278 100

139 18.9 12.8 19.2

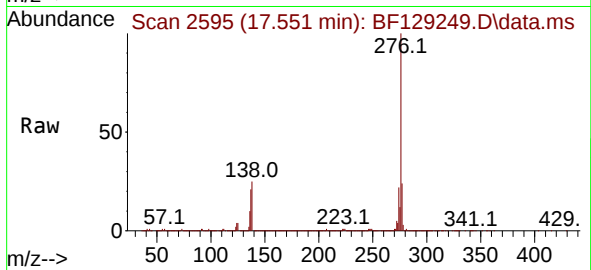
279 24.0 18.6 28.0





#92
 Benzo(g,h,i)perylene
 Concen: 66.232 ng
 RT: 17.551 min Scan# 21
 Delta R.T. 0.012 min
 Lab File: BF129249.D
 Acq: 15 Jul 2022 20:58

Instrument :
 BNA_F
 ClientSampleId :
 PIPELINE-PIGGING-TK2045LMSD



Tgt Ion: 276 Resp: 1578292

Ion	Ratio	Lower	Upper
276	100		
277	23.7	19.1	28.7
138	25.0	18.0	27.0

