

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051519\
 Data File : BF114285.D
 Acq On : 15 May 2019 15:15
 Operator : JU/SJ
 Sample : K2837-01MS
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-COMPMS

Manual Integrations
 APPROVED

mohammad
 5/16/2019 9:50:58 AM

Quant Time: May 16 07:44:32 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 10 15:56:46 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	209564	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	795368	20.00	ng	0.00
39) Acenaphthene-d10	9.89	164	373646	20.00	ng	0.00
64) Phenanthrene-d10	11.37	188	737761	20.00	ng	0.00
76) Chrysene-d12	14.02	240	509122	20.00	ng	0.00
87) Perylene-d12	15.50	264	490101	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.49	112	1339307	102.85	ng	0.00
7) Phenol-d6	6.50	99	1754861	113.94	ng	0.00
23) Nitrobenzene-d5	7.41	82	1099764	77.60	ng	0.00
42) 2,4,6-Tribromophenol	10.68	330	409081	105.90	ng	0.00
45) 2-Fluorobiphenyl	9.20	172	1645813	66.63	ng	0.00
79) Terphenyl-d14	12.95	244	1602427	64.88	ng	0.00

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.63	88	212454	29.681	ng	98
3) Pyridine	3.39	79	576337	29.224	ng	98
4) n-Nitrosodimethylamine	3.33	42	306853	32.266	ng	91
6) Aniline	6.52	93	446704	20.078	ng	# 33
8) 2-Chlorophenol	6.65	128	545228	39.219	ng	92
9) Benzaldehyde	6.40	77	230026	21.333	ng	99
10) Phenol	6.51	94	664483	36.674	ng	93
11) bis(2-Chloroethyl)ether	6.58	93	542473	39.437	ng	99
12) 1,3-Dichlorobenzene	6.79	146	547614	35.092	ng	100
13) 1,4-Dichlorobenzene	6.87	146	559353	35.571	ng	96
14) 1,2-Dichlorobenzene	7.02	146	524853	36.533	ng	99
15) Benzyl Alcohol	6.99	79	467474	38.915	ng	98
16) 2,2'-oxybis(1-Chloropropan	7.12	45	982875	36.852	ng	73
17) 2-Methylphenol	7.12	107	434332	38.033	ng	# 92
18) Hexachloroethane	7.36	117	205766	34.860	ng	97
19) n-Nitroso-di-n-propylamine	7.26	70	376295	38.545	ng	97
20) 3+4-Methylphenols	7.27	107	560617	42.489	ng	# 59
22) Acetophenone	7.26	105	721006	40.920	ng	# 91
24) Nitrobenzene	7.43	77	578399	40.070	ng	95
25) Isophorone	7.67	82	1038138	39.496	ng	99
26) 2-Nitrophenol	7.75	139	294093	41.994	ng	94
27) 2,4-Dimethylphenol	7.79	122	468571	42.600	ng	99
28) bis(2-Chloroethoxy)methane	7.87	93	678348	39.775	ng	99
29) 2,4-Dichlorophenol	8.00	162	438696	40.054	ng	96
30) 1,2,4-Trichlorobenzene	8.07	180	468461	37.614	ng	97
31) Naphthalene	8.15	128	1496486	40.279	ng	99
32) Benzoic acid	7.87	122	22672	9.489	ng	95
33) 4-Chloroaniline	8.20	127	216966	12.815	ng	98
34) Hexachlorobutadiene	8.27	225	254474	35.910	ng	98
35) Caprolactam	8.56	113	155918m	43.658	ng	
36) 4-Chloro-3-methylphenol	8.70	107	469741	42.608	ng	99
37) 2-Methylnaphthalene	8.85	142	997266	41.603	ng	98
38) 1-Methylnaphthalene	8.95	142	934339	41.390	ng	100
40) 1,2,4,5-Tetrachlorobenzene	9.02	216	445101	39.325	ng	100

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051519\
 Data File : BF114285.D
 Acq On : 15 May 2019 15:15
 Operator : JU/SJ
 Sample : K2837-01MS
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleID :
 SOIL-COMPMS

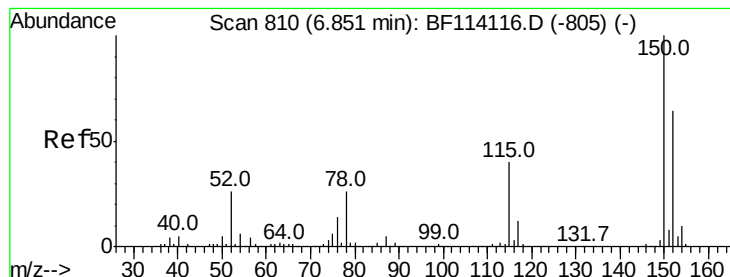
Manual Integrations
 APPROVED

mohammad
 5/16/2019 9:50:58 AM

Quant Time: May 16 07:44:32 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 10 15:56:46 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Hexachlorocyclopentadiene	9.00	237	254180	49.922	nq	97
43) 2,4,6-Trichlorophenol	9.13	196	297018	38.151	nq	98
44) 2,4,5-Trichlorophenol	9.17	196	320729	40.171	nq	97
46) 1,1'-Biphenyl	9.30	154	1192959	39.521	nq	96
47) 2-Chloronaphthalene	9.33	162	919723	37.860	nq	98
48) 2-Nitroaniline	9.43	65	333073	38.660	nq	94
49) Acenaphthylene	9.75	152	1471395	39.823	nq	98
50) Dimethylphthalate	9.60	163	1333265	48.608	nq	99
51) 2,6-Dinitrotoluene	9.67	165	246249	40.476	nq	100
52) Acenaphthene	9.92	154	846398	37.331	nq	98
53) 3-Nitroaniline	9.84	138	174502	23.107	nq	100
54) 2,4-Dinitrophenol	9.96	184	71659	28.195	nq	98
55) Dibenzofuran	10.09	168	1270409	38.212	nq	97
56) 4-Nitrophenol	10.02	139	341234	63.893	nq	97
57) 2,4-Dinitrotoluene	10.08	165	314784	38.121	nq	94
58) Fluorene	10.43	166	993754	38.697	nq	99
59) 2,3,4,6-Tetrachlorophenol	10.22	232	255712	37.119	nq	100
60) Diethylphthalate	10.30	149	1055297	37.865	nq	99
61) 4-Chlorophenyl-phenylether	10.42	204	479477	38.015	nq	98
62) 4-Nitroaniline	10.46	138	288699	36.379	nq	98
63) Azobenzene	10.59	77	1055019	39.109	nq	97
65) 4,6-Dinitro-2-methylphenol	10.49	198	132171	37.283	nq	87
66) n-Nitrosodiphenylamine	10.55	169	898852	40.143	nq	99
67) 4-Bromophenyl-phenylether	10.91	248	301252	37.086	nq	96
68) Hexachlorobenzene	10.99	284	330464	36.774	nq	# 91
69) Atrazine	11.07	200	269873	38.730	nq	97
70) Pentachlorophenol	11.19	266	268798	63.100	nq	99
71) Phenanthrene	11.40	178	1431851	39.892	nq	98
72) Anthracene	11.45	178	1493525	41.428	nq	99
73) Carbazole	11.60	167	1427284	41.517	nq	99
74) Di-n-butylphthalate	11.93	149	1662828	41.984	nq	100
75) Fluoranthene	12.59	202	1548379	40.059	nq	97
77) Benzidine	12.70	184	514880	22.529	nq	96
78) Pyrene	12.82	202	1595212	38.949	nq	100
80) Butylbenzylphthalate	13.42	149	708593	41.104	nq	95
81) Benzo(a)anthracene	14.00	228	1287003	39.083	nq	100
82) 3,3'-Dichlorobenzidine	13.96	252	330608	25.881	nq	97
83) Chrysene	14.04	228	1259124	39.006	nq	98
84) Bis(2-ethylhexyl)phthalate	13.99	149	962426	42.687	nq	99
85) Di-n-octyl phthalate	14.61	149	1523022	41.671	nq	100
86) Indeno(1,2,3-cd)pyrene	16.99	276	1249513	43.798	nq	99
88) Benzo(b)fluoranthene	15.07	252	1220279	38.864	nq	100
89) Benzo(k)fluoranthene	15.10	252	1102103	38.211	nq	99
90) Benzo(a)pyrene	15.44	252	1115313	40.361	nq	99
91) Dibenzo(a,h)anthracene	17.00	278	1029387	44.830	nq	99
92) Benzo(g,h,i)perylene	17.43	276	1106760	48.096	nq	98

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



#1

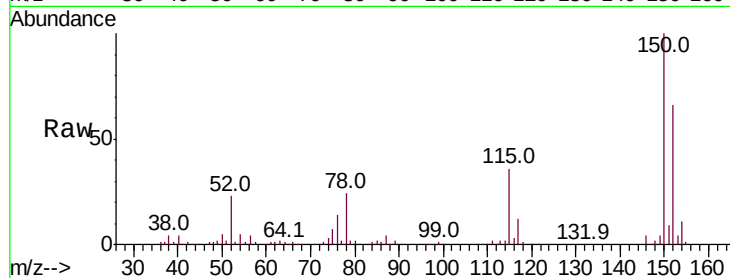
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 810
Delta R.T. -0.00 min
Lab File: BF114285.D
Acq: 15 May 2019 15:15

Instrument :
BNA_F
ClientSampleId :
SOIL-COMPMS

Tot Ion	Ratio	Lower	Upper
152	100		
150	151.7	124.3	186.5
115	54.9	49.1	73.7

Manual Integrations
APPROVED

mohammad
5/16/2019 9:50:58 AM

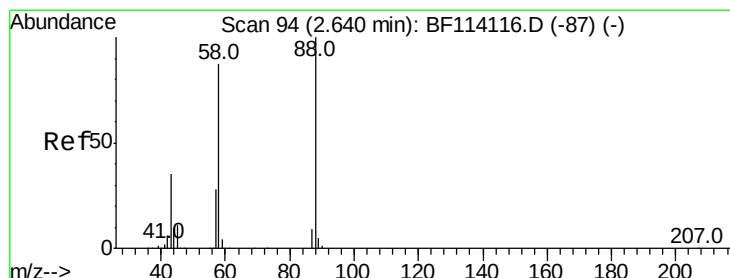
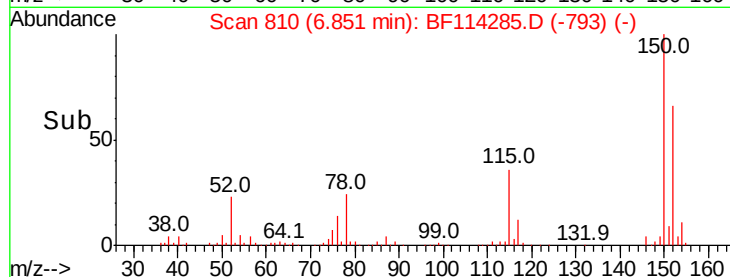
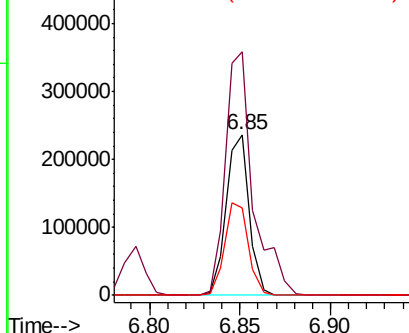


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

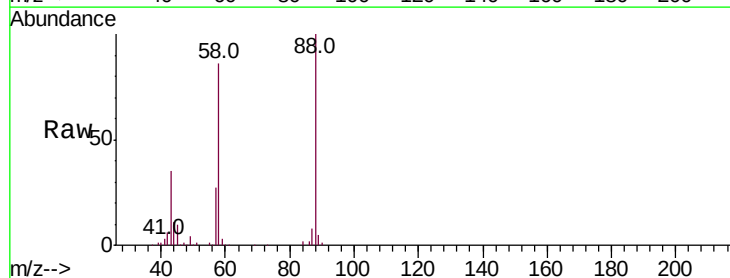
Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane
Concen: 29.681 ng
RT: 2.63 min Scan# 92
Delta R.T. -0.01 min
Lab File: BF114285.D
Acq: 15 May 2019 15:15

Tgt Ion	Ratio	Lower	Upper
88	100		
58	85.3	68.7	103.1
43	32.8	28.2	42.2

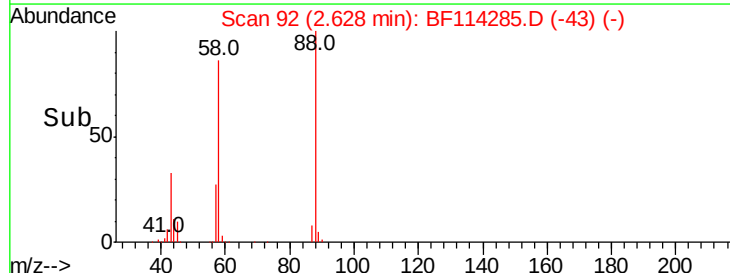
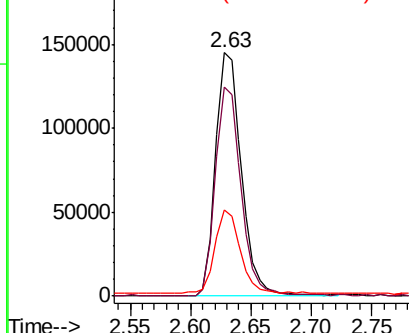


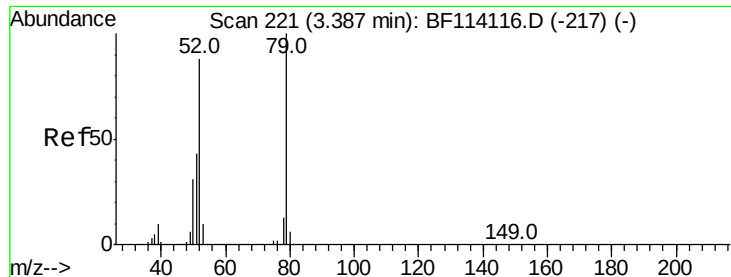
Abundance

Ion 88.00 (87.70 to 88.70): BF1

Ion 58.00 (57.70 to 58.70): BF1

Ion 43.00 (42.70 to 43.70): BF1





#3

Pvridine

Concen: 29.224 ng

RT: 3.39 min Scan# 222

Delta R.T. 0.01 min

Lab File: BF114285.D

Acq: 15 May 2019 15:15

Instrument :

BNA_F

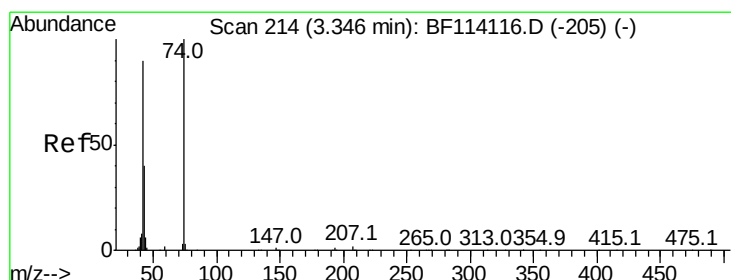
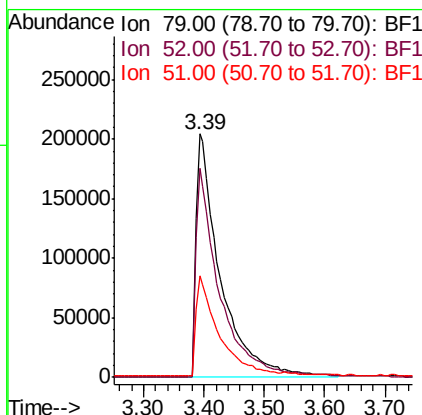
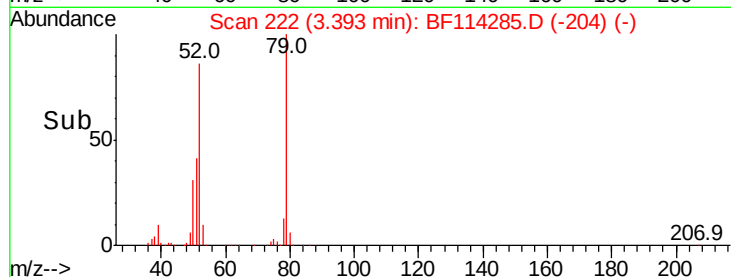
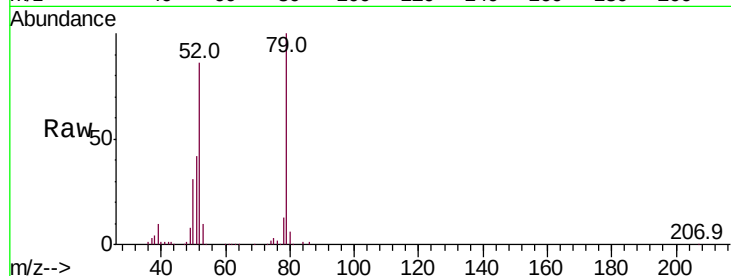
ClientSampled :

SOIL-COMPMS

Tot Ion:	79	Resp:	576337
Ion Ratio	Lower	Upper	
79	100		
52	85.7	70.6	105.8
51	41.6	34.2	51.2

Manual Integrations
APPROVED

mohammad
5/16/2019 9:50:58 AM



#4

n-Nitrosodimethylamine

Concen: 32.266 ng

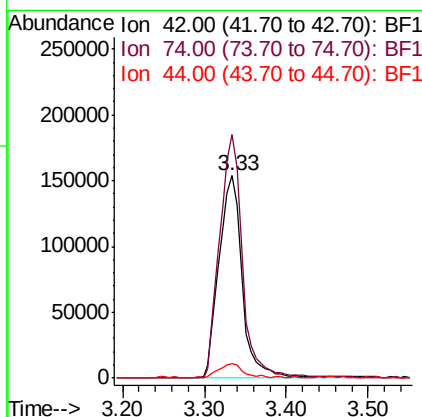
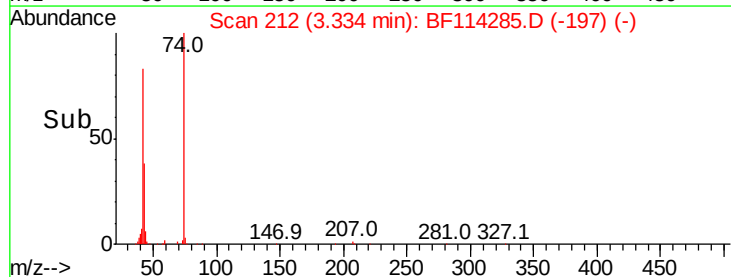
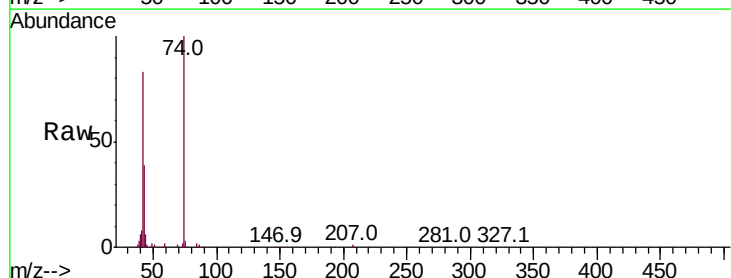
RT: 3.33 min Scan# 212

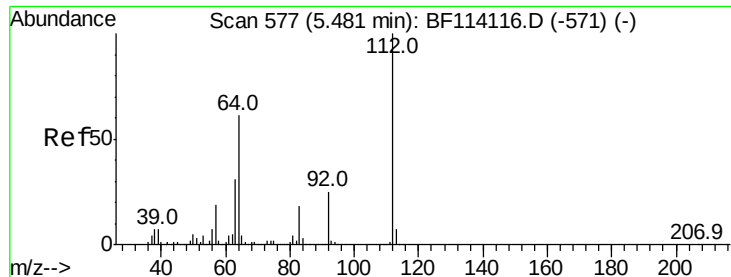
Delta R.T. -0.01 min

Lab File: BF114285.D

Acq: 15 May 2019 15:15

Tgt Ion:	42	Resp:	306853
Ion Ratio	Lower	Upper	
42	100		
74	120.2	88.6	132.8
44	7.4	5.5	8.3





#5

2-Fluorophenol

Concen: 102.847 ng

RT: 5.49 min Scan# 578

Delta R.T. 0.01 min

Lab File: BF114285.D

Acq: 15 May 2019 15:15

Instrument :

BNA_F

ClientSampleId :

SOIL-COMPMS

Tot Ion:112 Resp: 1339307

Ion Ratio Lower Upper

112 100

64 66.4 49.0 73.6

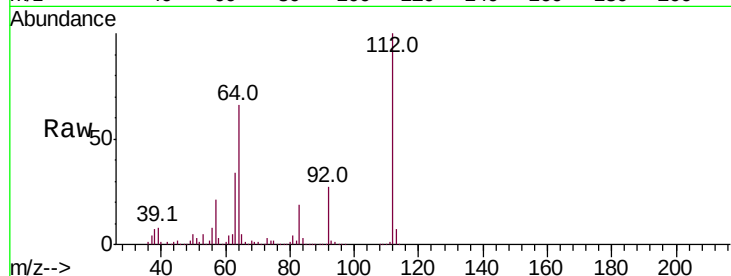
63 33.7 24.6 37.0

Manual Integrations

APPROVED

mohammad

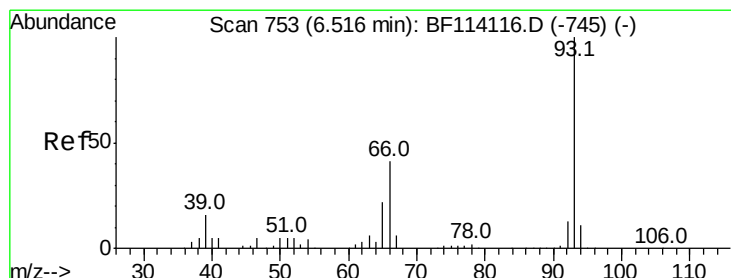
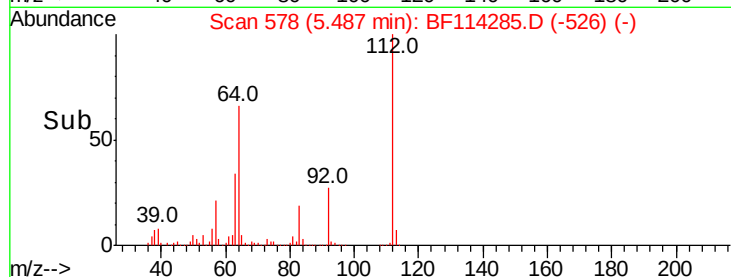
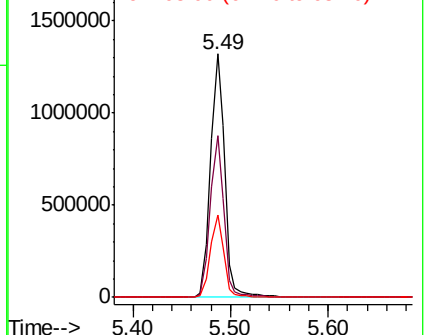
5/16/2019 9:50:58 AM



Abundance Ion 112.00 (111.70 to 112.70): BF1

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1



#6

Aniline

Concen: 20.078 ng

RT: 6.52 min Scan# 753

Delta R.T. -0.00 min

Lab File: BF114285.D

Acq: 15 May 2019 15:15

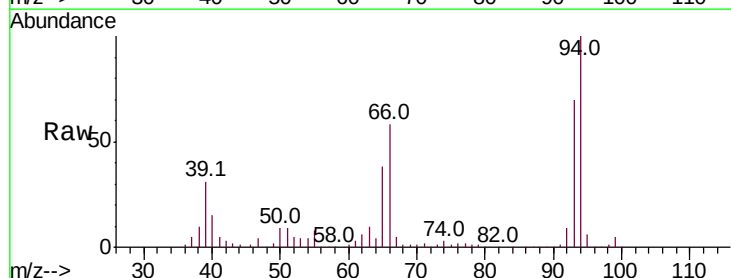
Tgt Ion: 93 Resp: 446704

Ion Ratio Lower Upper

93 100

66 82.7 33.2 49.8#

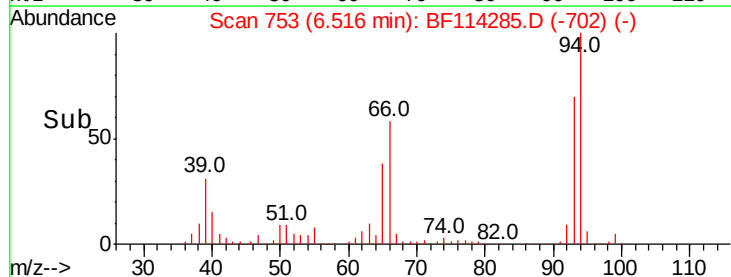
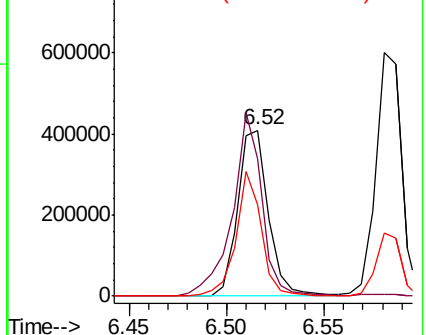
65 55.1 17.6 26.4#

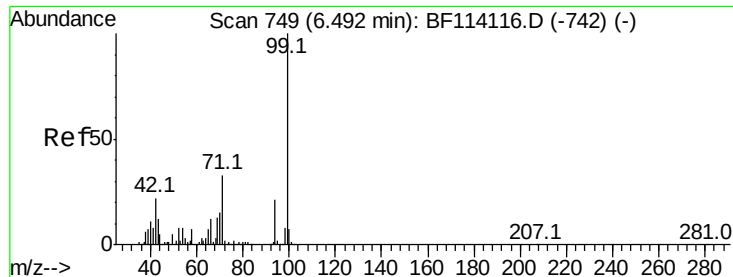


Abundance Ion 93.00 (92.70 to 93.70): BF1

Ion 66.00 (65.70 to 66.70): BF1

Ion 65.00 (64.70 to 65.70): BF1





#7

Phenol-d6

Concen: 113.937 ng

RT: 6.50 min Scan# 750

Delta R.T. 0.01 min

Lab File: BF114285.D

Acq: 15 May 2019 15:15

Instrument :

BNA_F

ClientSampleId :

SOIL-COMPMS

Tot Ion: 99 Resp: 1754861

Ion Ratio Lower Upper

99 100

42 22.0 17.9 26.9

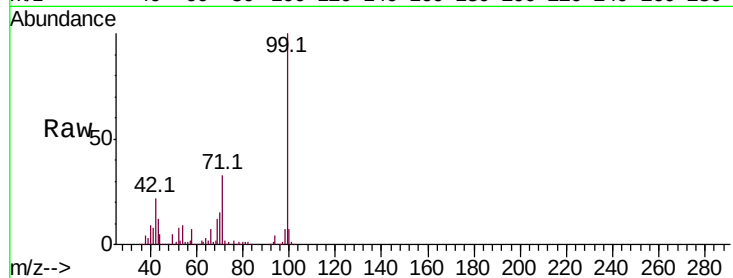
71 33.1 26.2 39.2

Manual Integrations

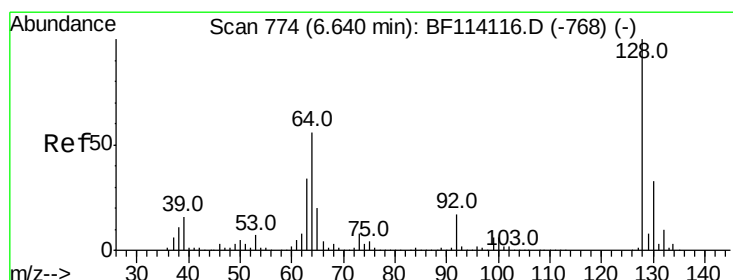
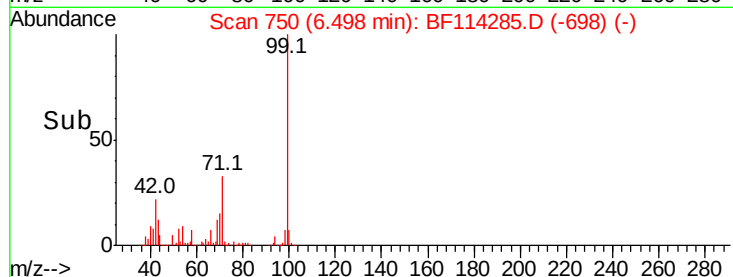
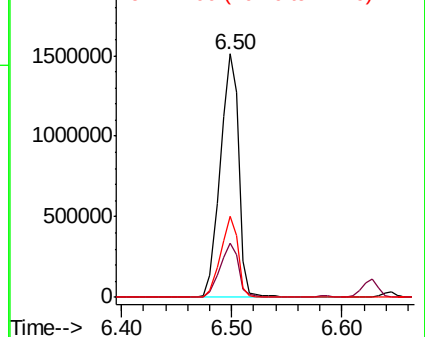
APPROVED

mohammad

5/16/2019 9:50:58 AM



Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#8

2-Chlorophenol

Concen: 39.219 ng

RT: 6.65 min Scan# 775

Delta R.T. 0.01 min

Lab File: BF114285.D

Acq: 15 May 2019 15:15

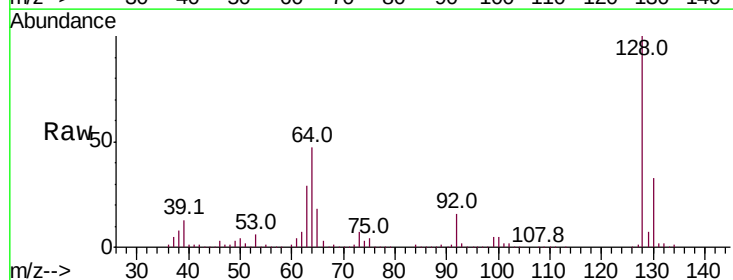
Tgt Ion: 128 Resp: 545228

Ion Ratio Lower Upper

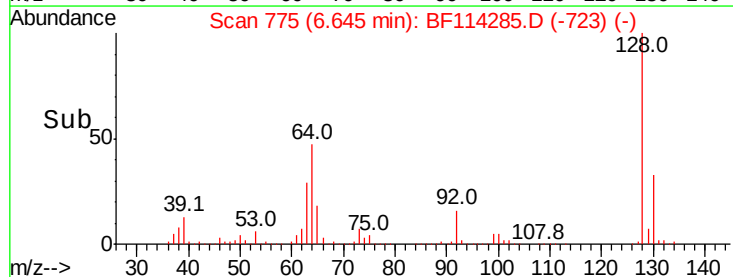
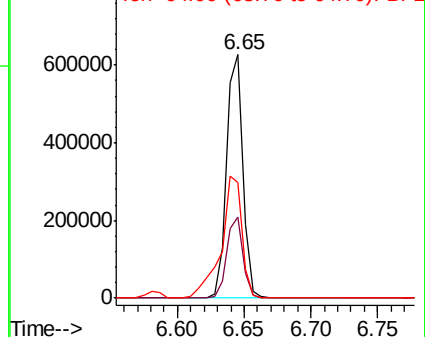
128 100

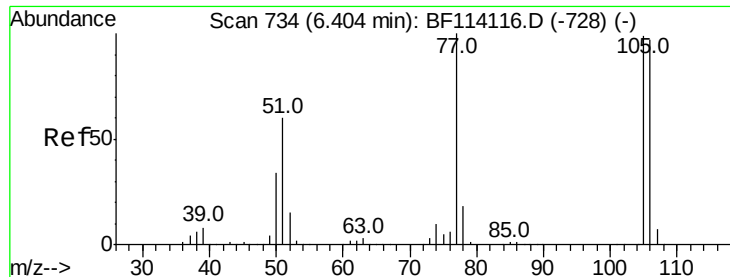
130 33.2 12.6 52.6

64 47.5 35.9 75.9



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 130.00 (129.70 to 130.70): E
Ion 64.00 (63.70 to 64.70): BF1





#9

Benzaldehyde

Concen: 21.333 ng

RT: 6.40 min Scan# 733

Delta R.T. -0.01 min

Lab File: BF114285.D

Acq: 15 May 2019 15:15

Instrument :

BNA_F

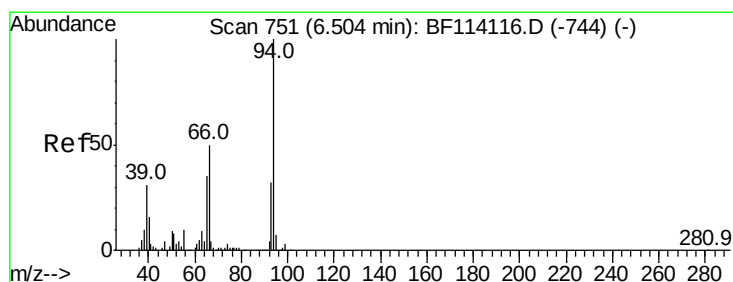
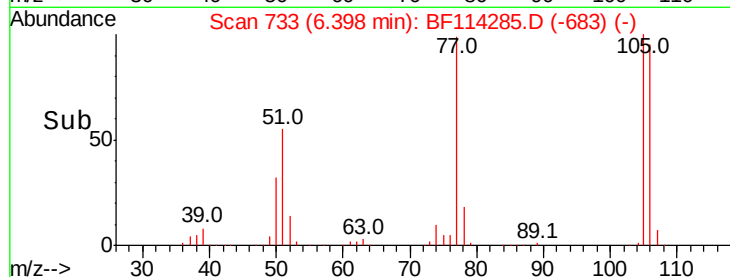
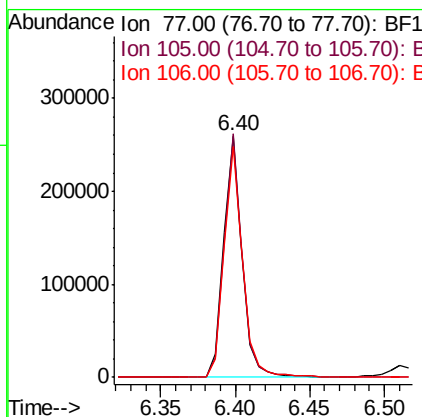
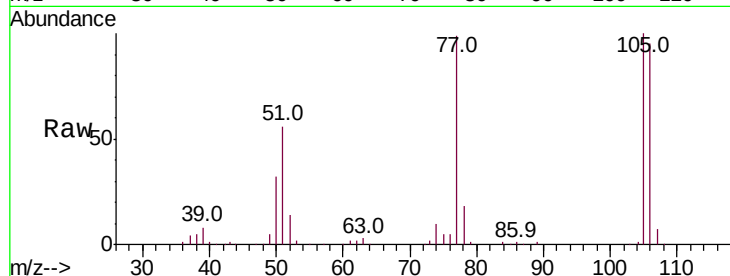
ClientSampleId :

SOIL-COMPMS

Tot Ion:	77	Resp:	230026
Ion Ratio	Lower	Upper	
77	100		
105	100.9	79.3	119.3
106	95.9	77.0	117.0

Manual Integrations
APPROVED

mohammad
5/16/2019 9:50:58 AM



#10

Phenol

Concen: 36.674 ng

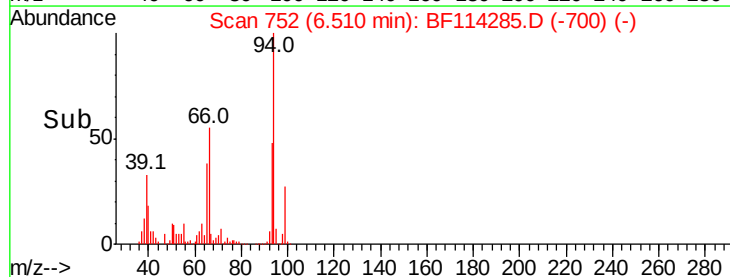
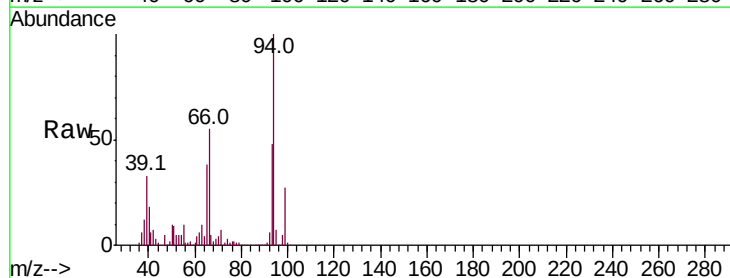
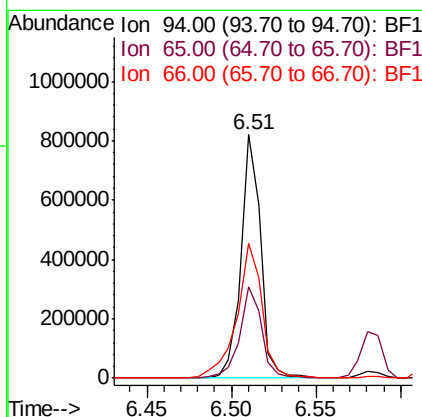
RT: 6.51 min Scan# 752

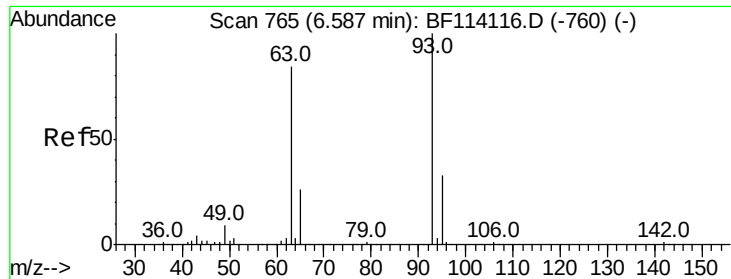
Delta R.T. 0.01 min

Lab File: BF114285.D

Acq: 15 May 2019 15:15

Tgt Ion:	94	Resp:	664483
Ion Ratio	Lower	Upper	
94	100		
65	37.6	14.7	54.7
66	55.3	29.6	69.6





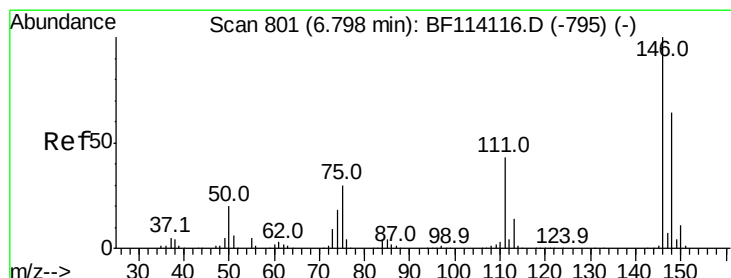
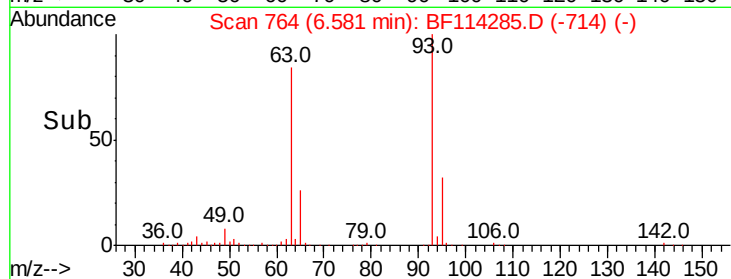
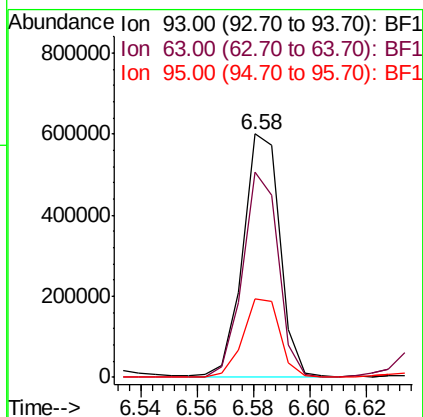
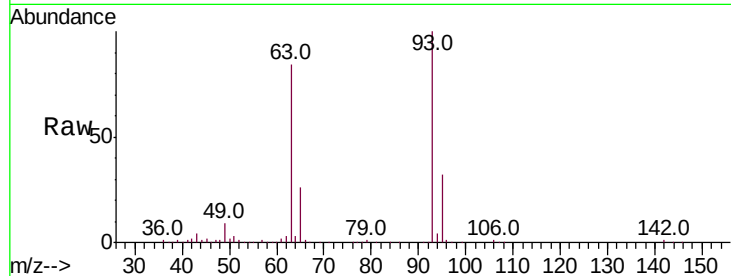
#11
bis(2-Chloroethyl)ether
Concen: 39.437 ng
RT: 6.58 min Scan# 764
Delta R.T. -0.01 min
Lab File: BF114285.D
Acq: 15 May 2019 15:15

Instrument :
BNA_F
ClientSampleId :
SOIL-COMPMS

Tot Ion	Ratio	Lower	Upper
93	100		
63	84.3	63.6	103.6
95	32.1	13.1	53.1

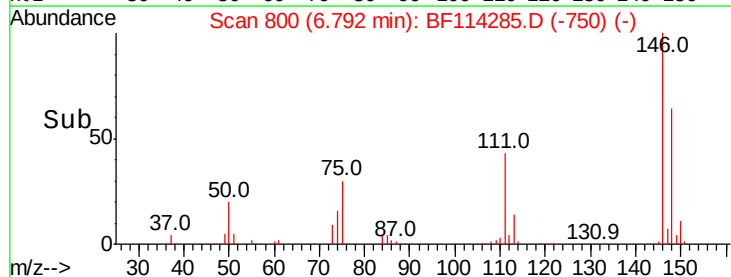
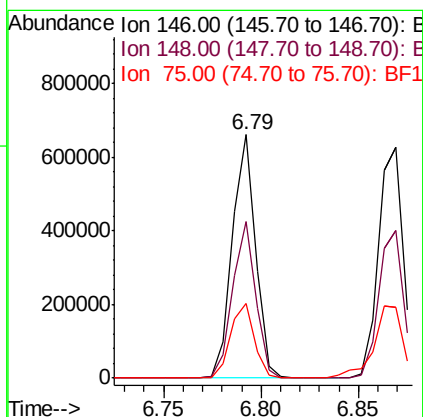
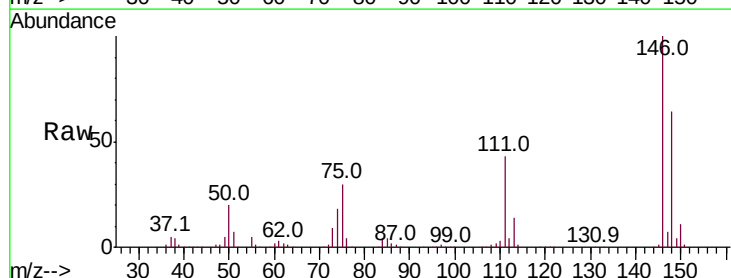
Manual Integrations
APPROVED

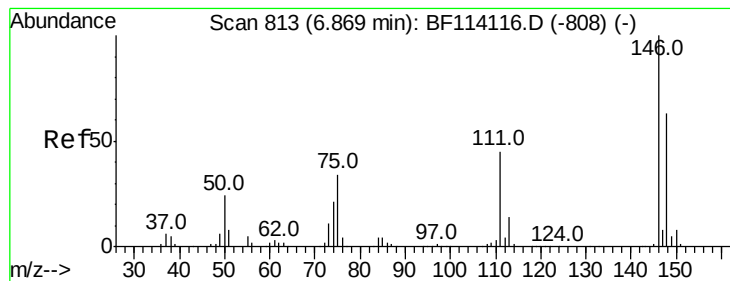
mohammad
5/16/2019 9:50:58 AM



#12
1,3-Dichlorobenzene
Concen: 35.092 ng
RT: 6.79 min Scan# 800
Delta R.T. -0.01 min
Lab File: BF114285.D
Acq: 15 May 2019 15:15

Tgt Ion	Ratio	Lower	Upper
146	100		
148	64.4	51.6	77.4
75	30.4	24.2	36.2





#13

1,4-Dichlorobenzene

Concen: 35.571 ng

RT: 6.87 min Scan# 813

Delta R.T. -0.00 min

Lab File: BF114285.D

Acq: 15 May 2019 15:15

Instrument :

BNA_F

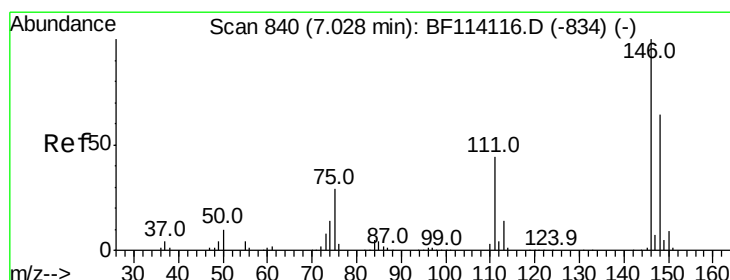
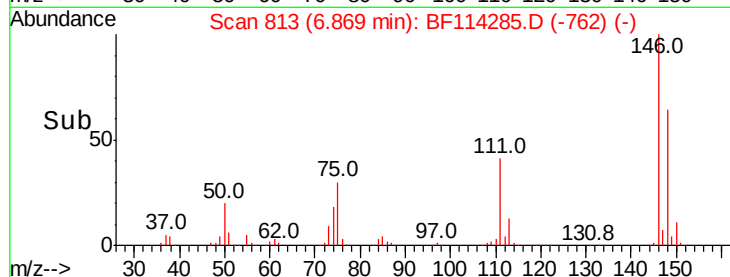
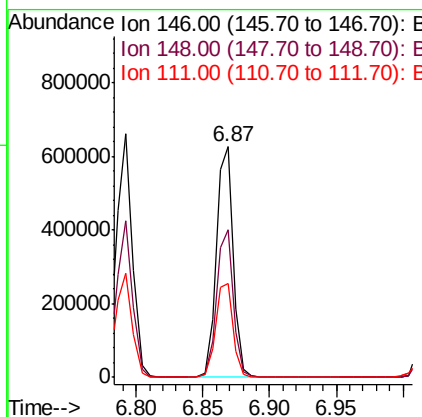
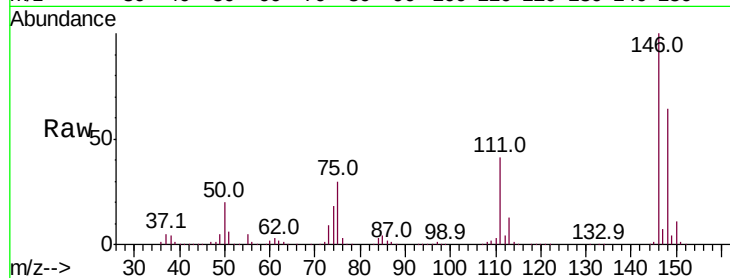
ClientSampleId :

SOIL-COMPMS

Tot Ion:	146	Resp:	559353
Ion Ratio	Lower	Upper	
146	100		
148	64.1	50.2	75.2
111	40.8	35.8	53.6

Manual Integrations
APPROVED

mohammad
5/16/2019 9:50:58 AM



#14

1,2-Dichlorobenzene

Concen: 36.533 ng

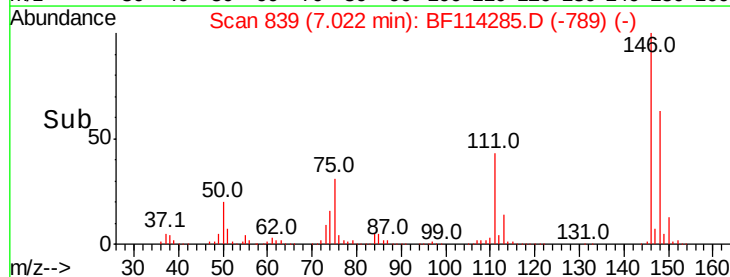
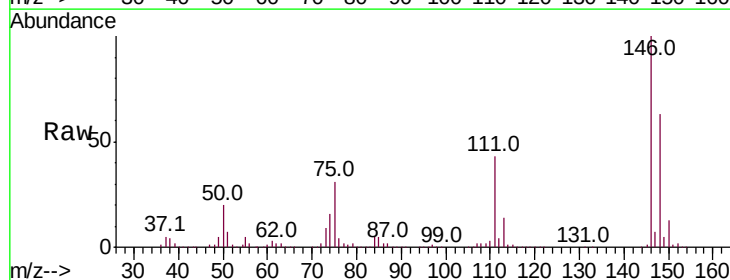
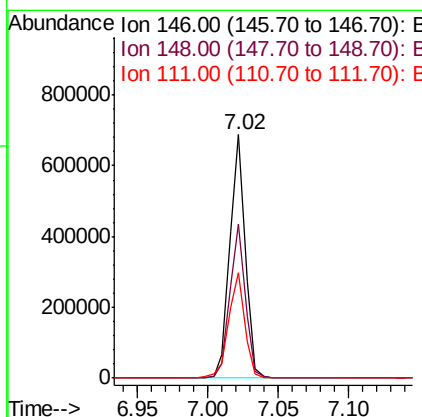
RT: 7.02 min Scan# 839

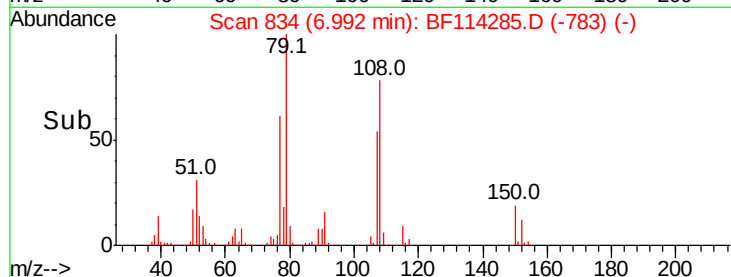
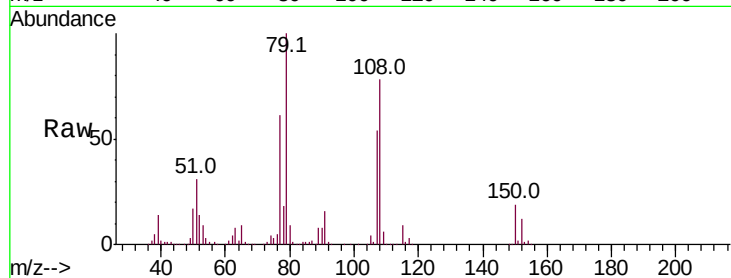
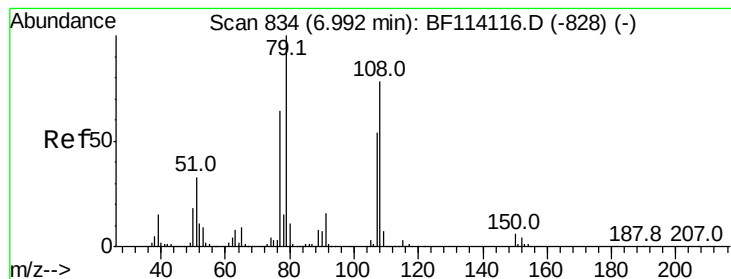
Delta R.T. -0.01 min

Lab File: BF114285.D

Acq: 15 May 2019 15:15

Tgt Ion:	146	Resp:	524853
Ion Ratio	Lower	Upper	
146	100		
148	63.4	51.1	76.7
111	43.4	35.3	52.9





#15

Benzyl Alcohol

Concen: 38.915 ng

RT: 6.99 min Scan# 834

Delta R.T. -0.00 min

Lab File: BF114285.D

Acq: 15 May 2019 15:15

Tot Ion:	79	Resp:	467474
Ion Ratio	Lower	Upper	
79	100		
108	77.7	62.1	93.1
77	61.1	51.0	76.6

Instrument :

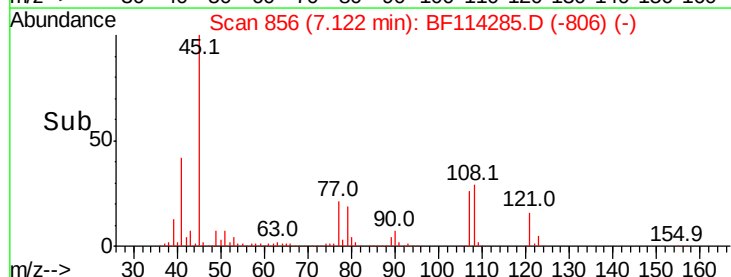
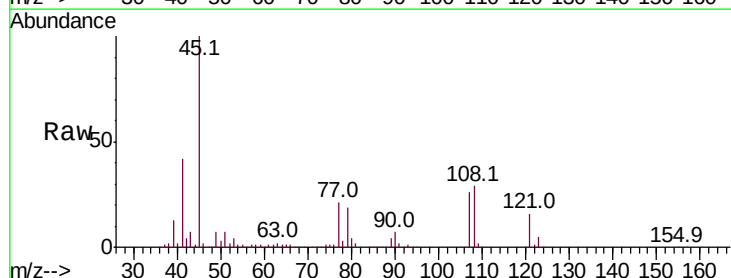
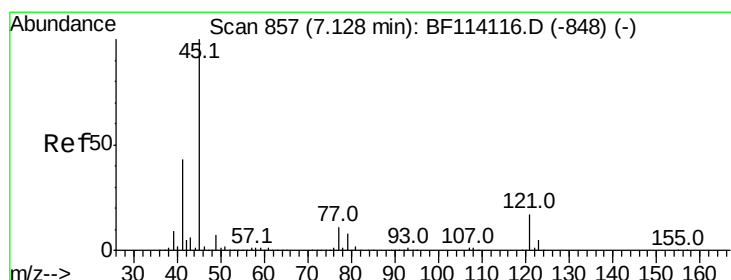
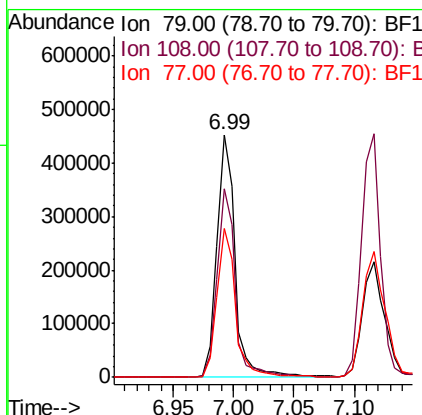
BNA_F

ClientSampleId :

SOIL-COMPMS

Manual Integrations
APPROVED

mohammad
5/16/2019 9:50:58 AM



#16

2,2'-oxybis(1-Chloropropane)

Concen: 36.852 ng

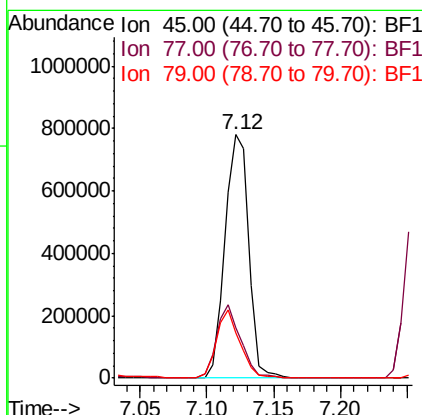
RT: 7.12 min Scan# 856

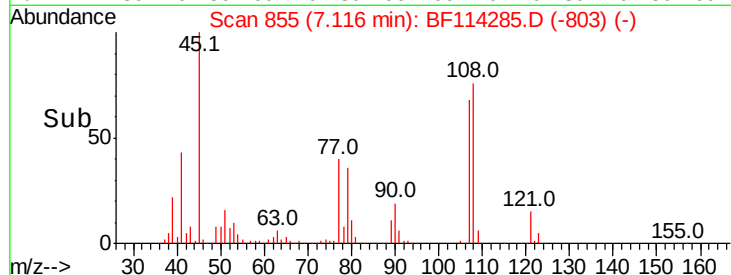
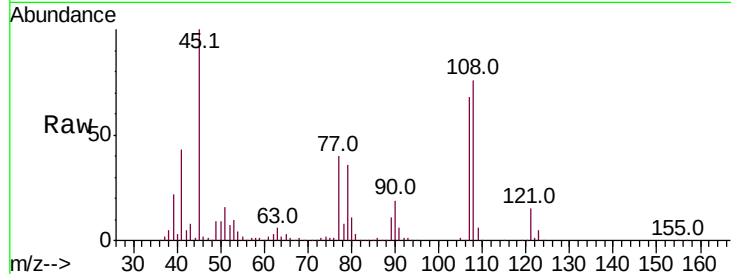
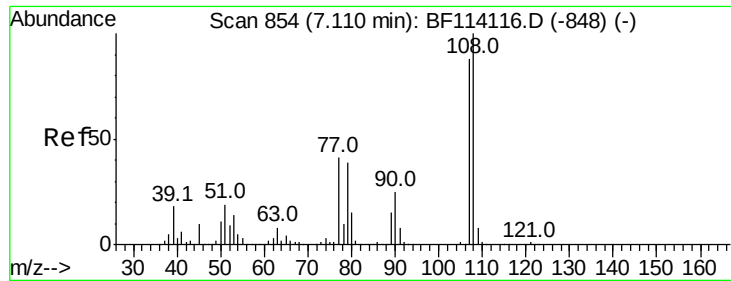
Delta R.T. -0.01 min

Lab File: BF114285.D

Acq: 15 May 2019 15:15

Tgt Ion:	45	Resp:	982875
Ion Ratio	Lower	Upper	
45	100		
77	20.9	0.0	31.1
79	18.6	0.0	28.4





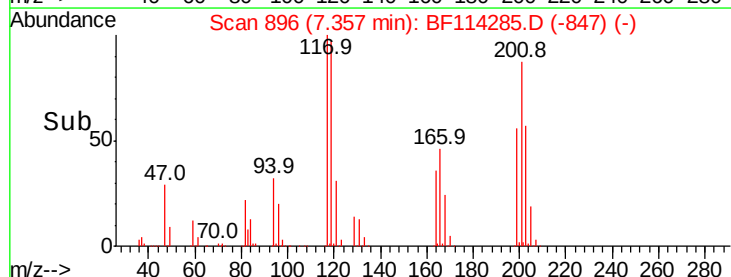
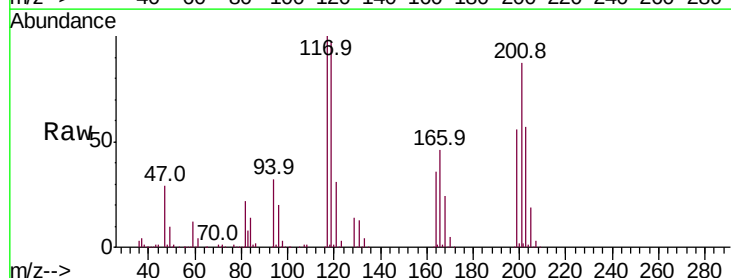
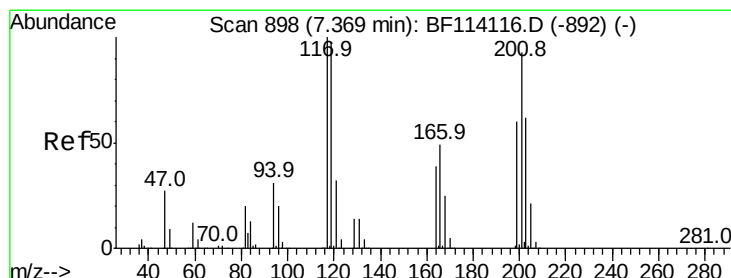
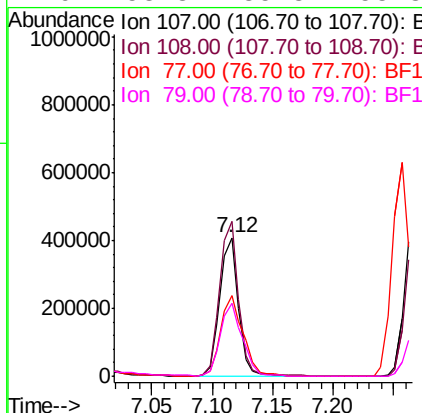
#17
2-Methylphenol
Concen: 38.033 ng
RT: 7.12 min Scan# 855
Delta R.T. 0.01 min
Lab File: BF114285.D
Acq: 15 May 2019 15:15

Tot Ion	Ratio	Resp	Lower	Upper
107	100	434332		
108	111.6	90.5	135.7	
77	57.9	37.0	55.4	
79	53.3	35.8	53.8	

Instrument :
BNA_F
ClientSampleId :
SOIL-COMPMS

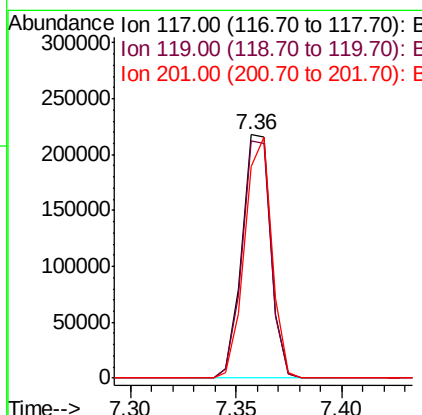
Manual Integrations
APPROVED

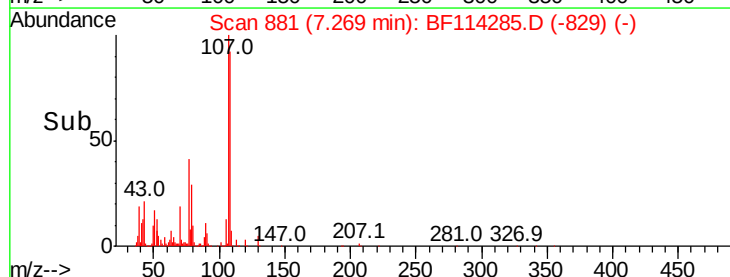
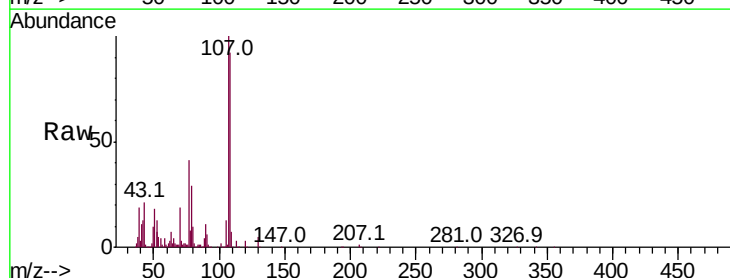
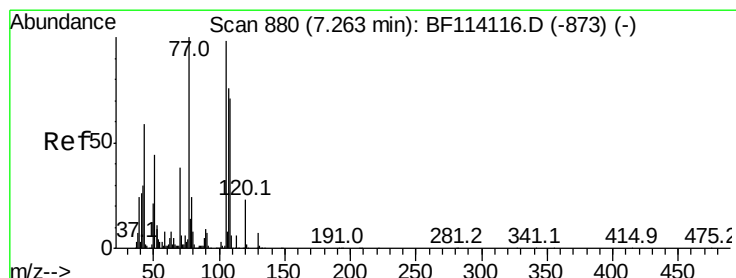
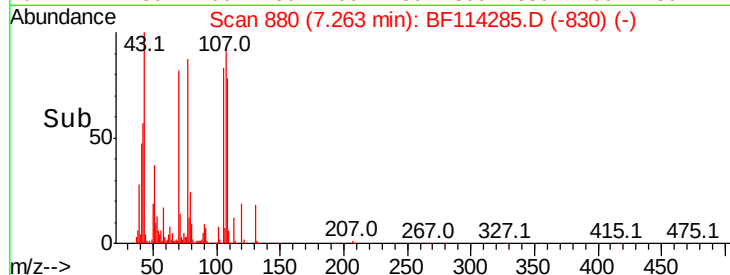
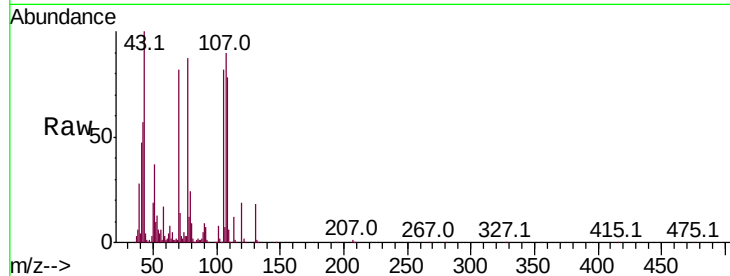
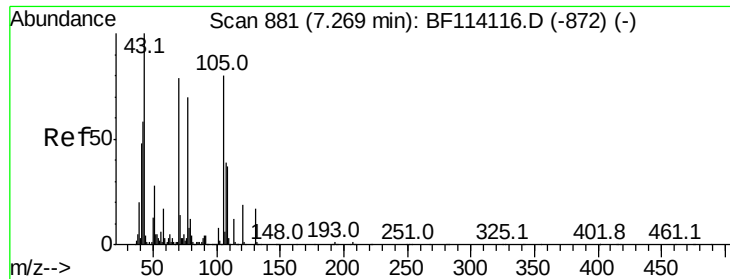
mohammad
5/16/2019 9:50:58 AM



#18
Hexachloroethane
Concen: 34.860 ng
RT: 7.36 min Scan# 896
Delta R.T. -0.01 min
Lab File: BF114285.D
Acq: 15 May 2019 15:15

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	205766		
119	97.3	77.4	116.2	
201	87.1	74.5	111.7	





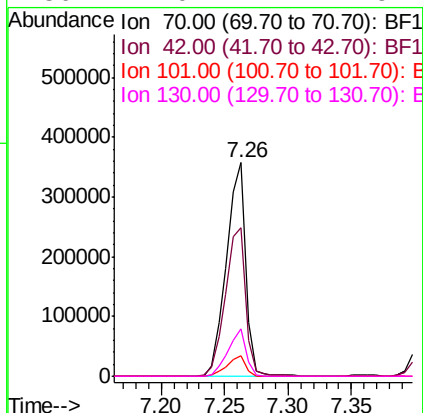
#19
n-Nitroso-di-n-propylamine
Concen: 38.545 ng
RT: 7.26 min Scan# 880
Delta R.T. -0.01 min
Lab File: BF114285.D
Acq: 15 May 2019 15:15

Instrument :
BNA_F
ClientSampleId :
SOIL-COMPMS

Tot Ion	Ratio	Lower	Upper
70	100		
42	69.5	58.6	87.8
101	9.8	7.8	11.8
130	22.0	17.1	25.7

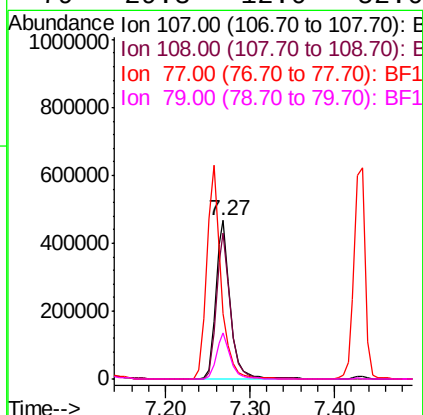
Manual Integrations
APPROVED

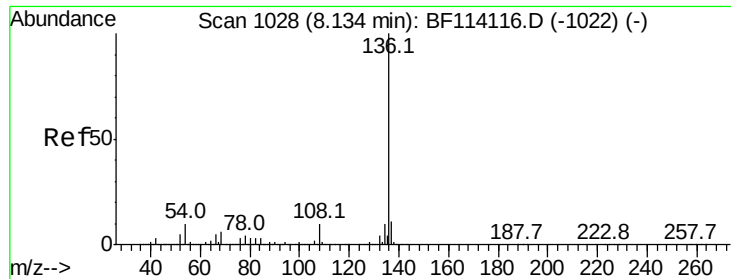
mohammad
5/16/2019 9:50:58 AM



#20
3+4-Methylphenols
Concen: 42.489 ng
RT: 7.27 min Scan# 881
Delta R.T. 0.01 min
Lab File: BF114285.D
Acq: 15 May 2019 15:15

Tgt Ion	Ratio	Lower	Upper
107	100		
108	91.9	73.8	113.8
77	41.4	111.5	151.5#
79	29.3	12.0	52.0





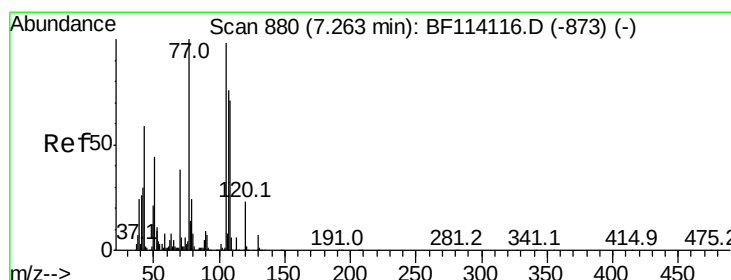
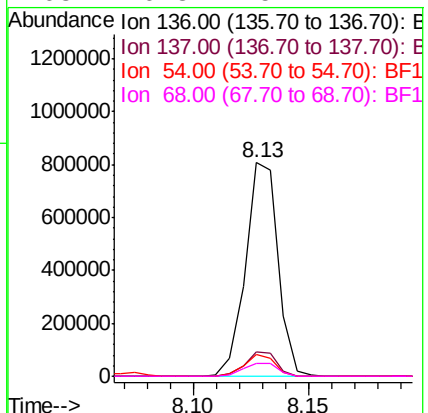
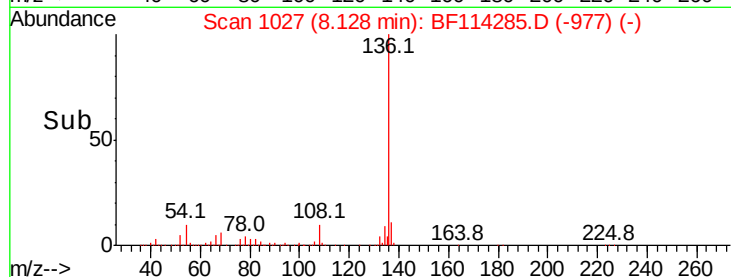
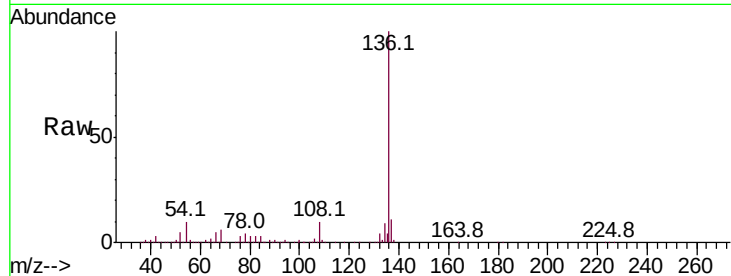
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.13 min Scan# 1027
Delta R.T. -0.01 min
Lab File: BF114285.D
Acq: 15 May 2019 15:15

Instrument :
BNA_F
ClientSampleId :
SOIL-COMPMS

Tot Ion	Ratio	Resp	Lower	Upper
136	100	795368		
137	11.2		8.8	13.2
54	10.2		7.8	11.8
68	6.3		5.1	7.7

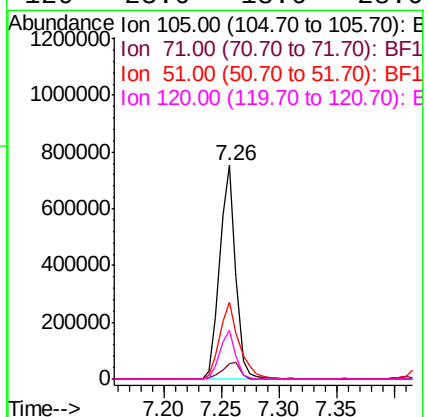
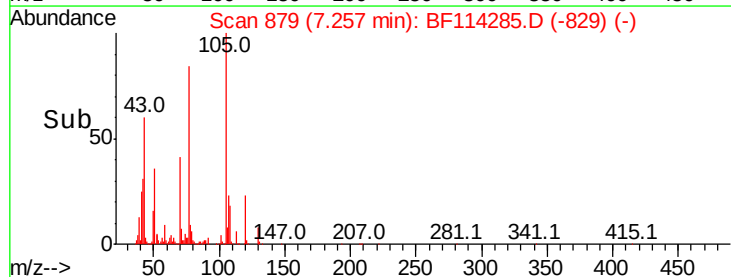
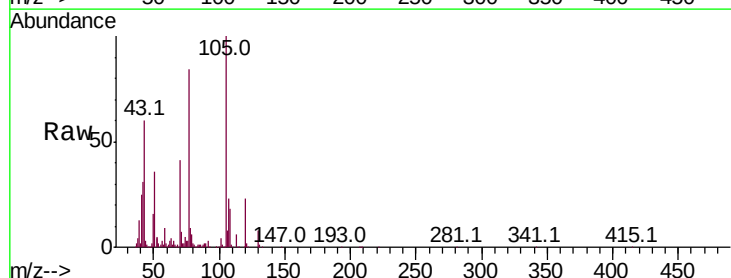
Manual Integrations
APPROVED

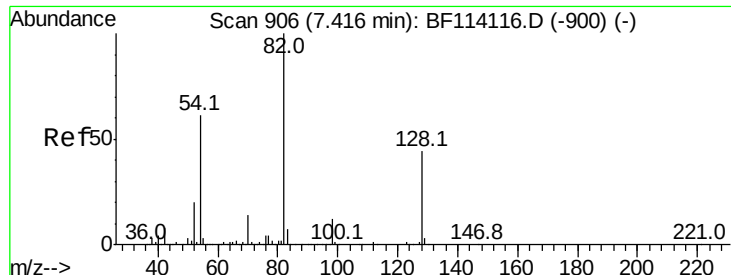
mohammad
5/16/2019 9:50:58 AM



#22
Acetophenone
Concen: 40.920 ng
RT: 7.26 min Scan# 879
Delta R.T. -0.01 min
Lab File: BF114285.D
Acq: 15 May 2019 15:15

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	721006		
71	7.0		5.3	7.9
51	35.7		36.2	54.4#
120	23.0		18.6	28.0





#23
 Nitrobenzene-d5
 Concen: 77.598 ng
 RT: 7.41 min Scan# 905
 Delta R.T. -0.01 min
 Lab File: BF114285.D
 Acq: 15 May 2019 15:15

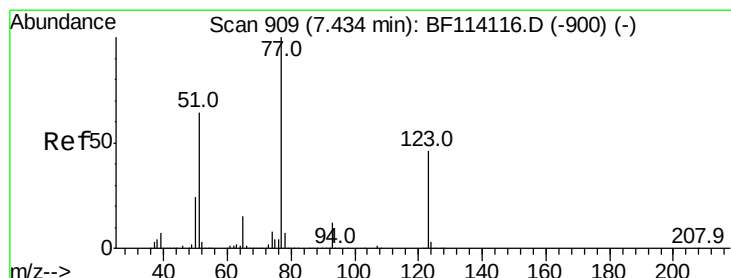
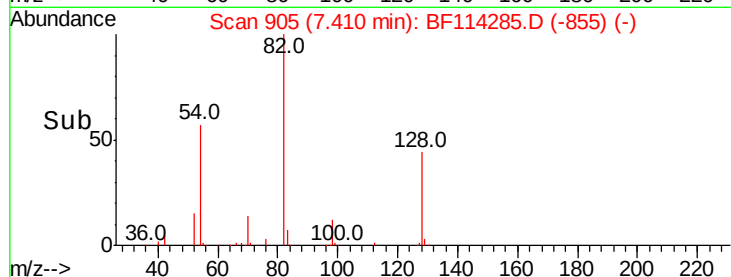
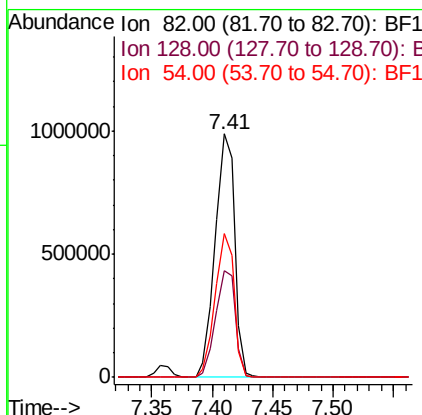
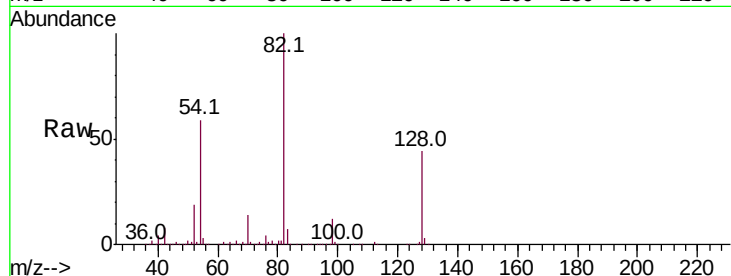
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-COMPMS

Tot Ion: 82 Resp: 1099764

Ion	Ratio	Lower	Upper
82	100		
128	43.7	35.5	53.3
54	58.9	48.5	72.7

Manual Integrations
 APPROVED

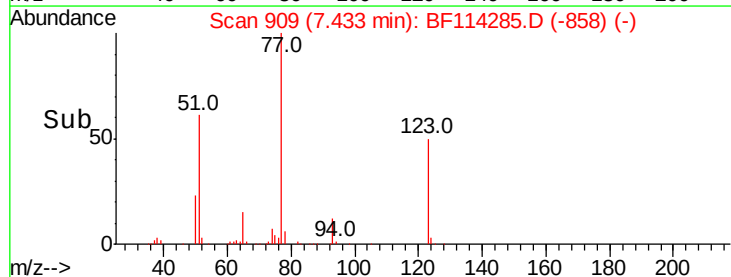
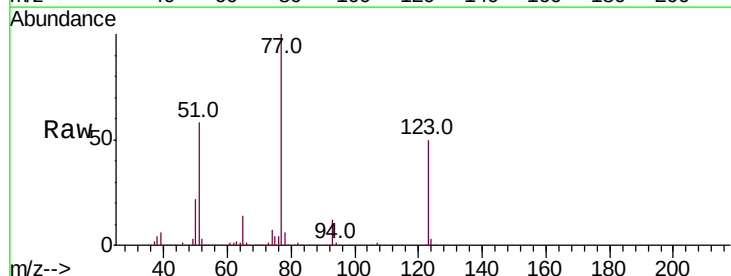
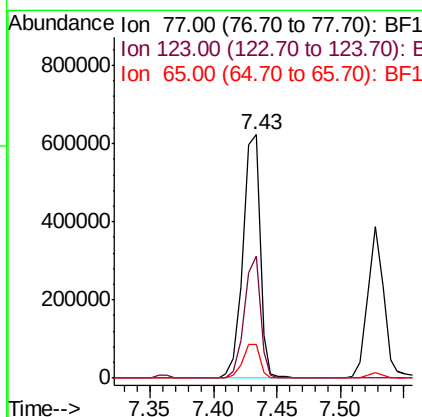
mohammad
 5/16/2019 9:50:58 AM

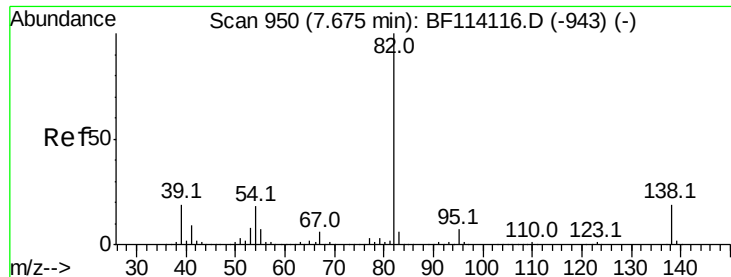


#24
 Nitrobenzene
 Concen: 40.070 ng
 RT: 7.43 min Scan# 909
 Delta R.T. -0.00 min
 Lab File: BF114285.D
 Acq: 15 May 2019 15:15

Tgt Ion: 77 Resp: 578399

Ion	Ratio	Lower	Upper
77	100		
123	50.0	36.9	55.3
65	13.7	11.8	17.6





#25

Isophorone

Concen: 39.496 ng

RT: 7.67 min Scan# 949

Delta R.T. -0.01 min

Lab File: BF114285.D

Acq: 15 May 2019 15:15

Instrument :

BNA_F

ClientSampleId :

SOIL-COMPMS

Tot Ion: 82 Resp: 1038138

Ion Ratio Lower Upper

82 100

95 6.9 5.6 8.4

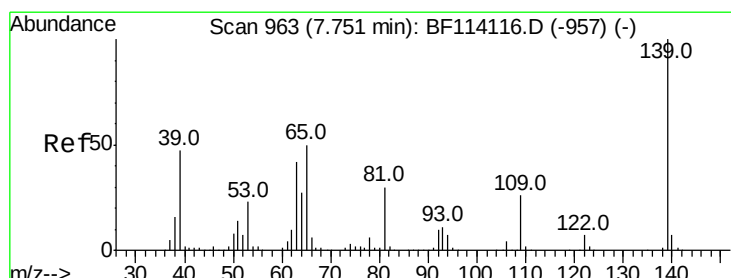
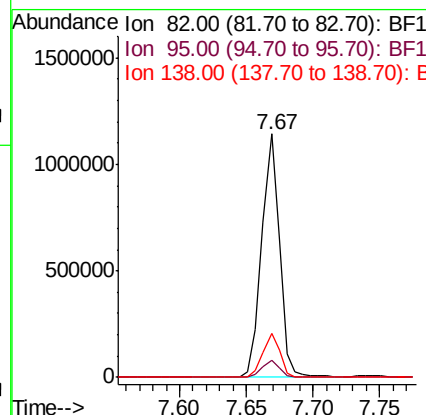
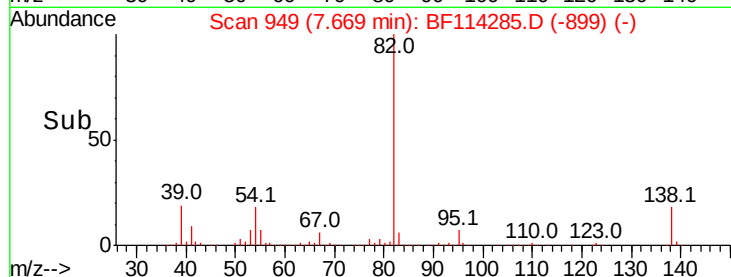
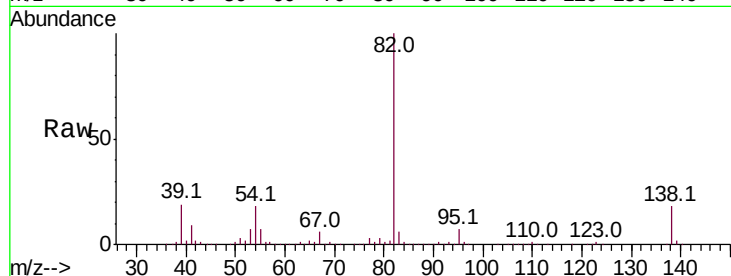
138 18.1 14.8 22.2

Manual Integrations

APPROVED

mohammad

5/16/2019 9:50:58 AM



#26

2-Nitrophenol

Concen: 41.994 ng

RT: 7.75 min Scan# 962

Delta R.T. -0.01 min

Lab File: BF114285.D

Acq: 15 May 2019 15:15

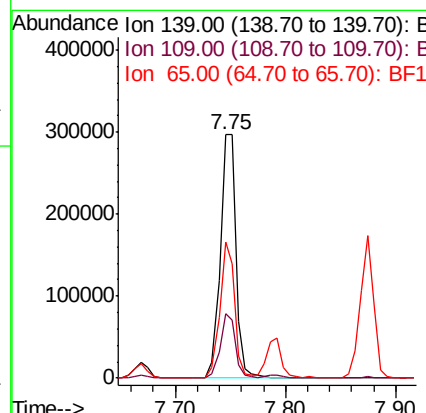
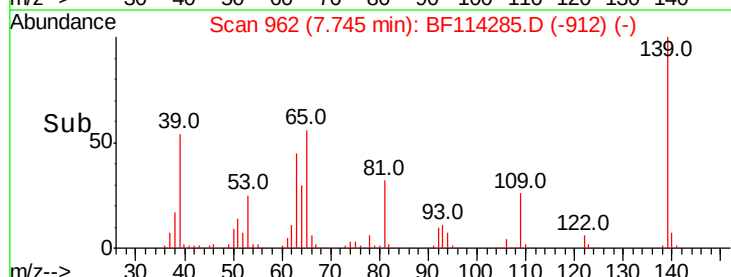
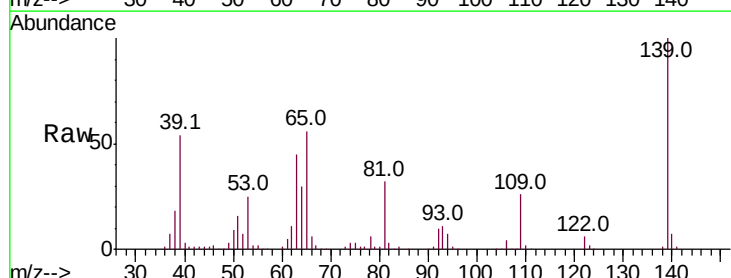
Tgt Ion: 139 Resp: 294093

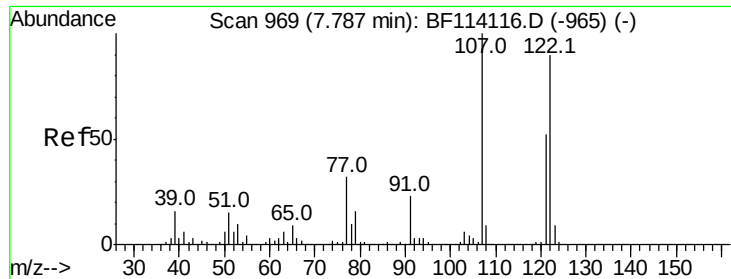
Ion Ratio Lower Upper

139 100

109 26.3 20.7 31.1

65 55.9 40.2 60.2





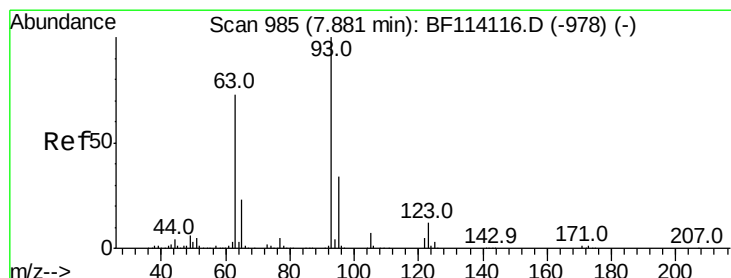
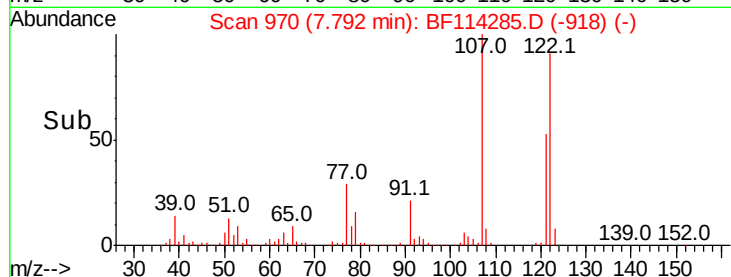
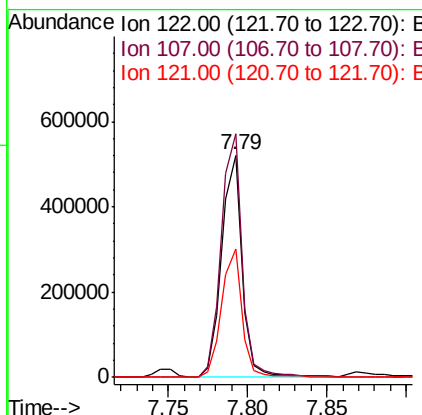
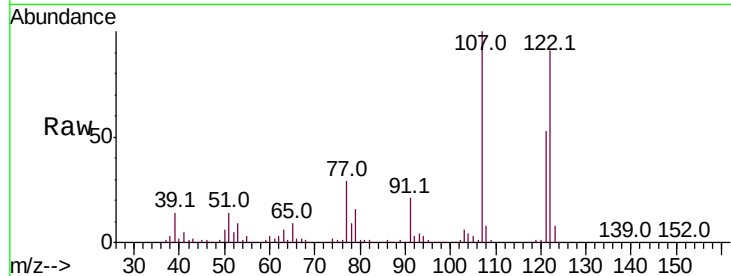
#27
2,4-Dimethylphenol
Concen: 42.600 ng
RT: 7.79 min Scan# 970
Delta R.T. 0.01 min
Lab File: BF114285.D
Acq: 15 May 2019 15:15

Instrument :
BNA_F
ClientSampleId :
SOIL-COMPMS

Tot Ion	Ratio	Resp	Lower	Upper
122	100	468571		
107	109.5	88.4	132.6	
121	57.6	45.9	68.9	

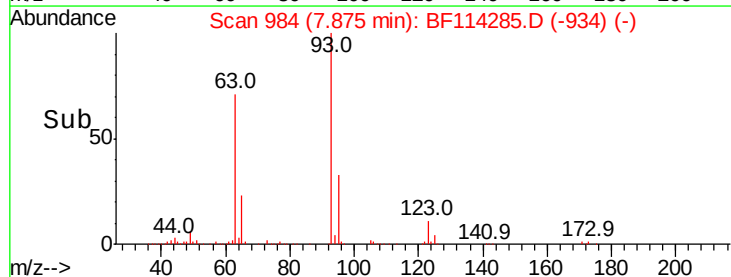
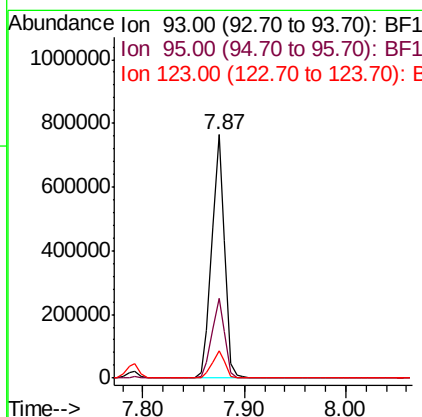
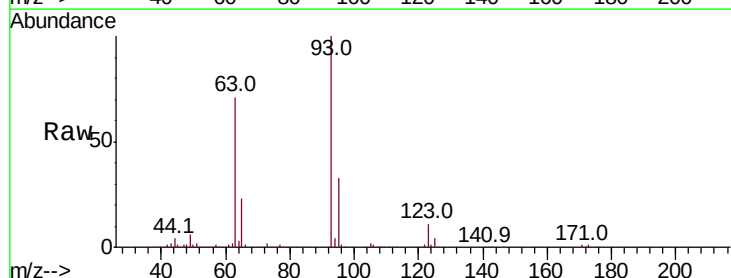
Manual Integrations
APPROVED

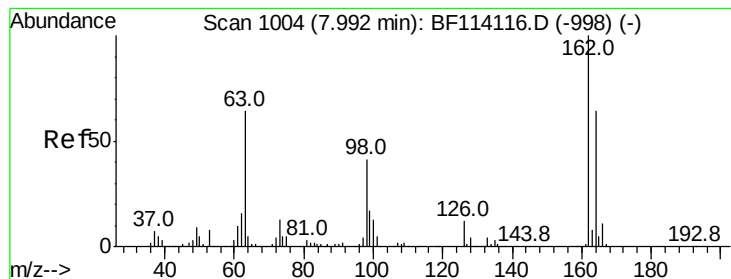
mohammad
5/16/2019 9:50:58 AM



#28
bis(2-Chloroethoxy)methane
Concen: 39.775 ng
RT: 7.87 min Scan# 984
Delta R.T. -0.01 min
Lab File: BF114285.D
Acq: 15 May 2019 15:15

Tgt Ion	Ratio	Resp	Lower	Upper
93	100	678348		
95	32.7	26.8	40.2	
123	11.3	9.5	14.3	





#29

2,4-Dichlorophenol

Concen: 40.054 ng

RT: 8.00 min Scan# 1005

Delta R.T. 0.01 min

Lab File: BF114285.D

Acq: 15 May 2019 15:15

Instrument :

BNA_F

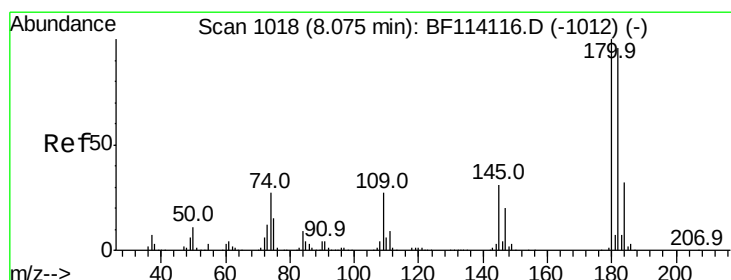
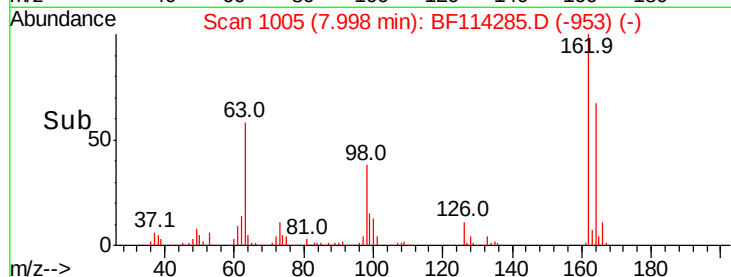
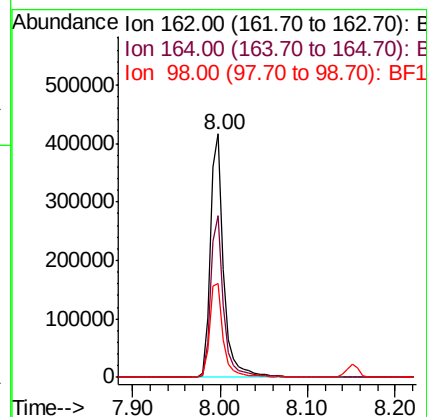
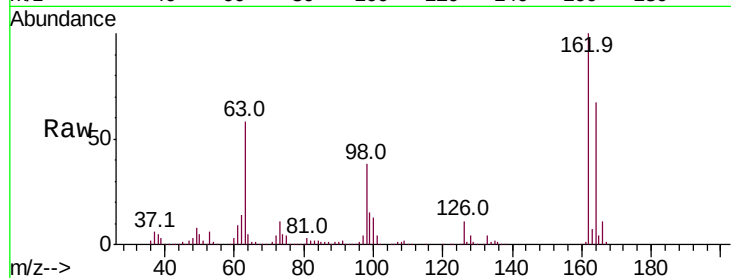
ClientSampleId :

SOIL-COMPMS

Tot Ion:	162	Resp:	438696
Ion Ratio	Lower	Upper	
162	100		
164	66.6	43.6	83.6
98	38.3	20.6	60.6

Manual Integrations
APPROVED

mohammad
5/16/2019 9:50:58 AM



#30

1,2,4-Trichlorobenzene

Concen: 37.614 ng

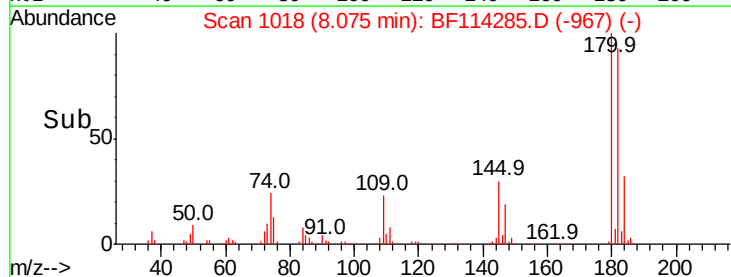
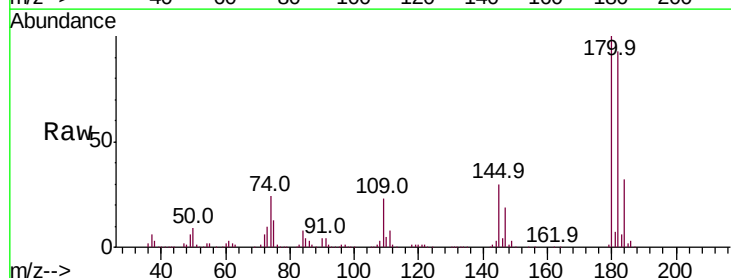
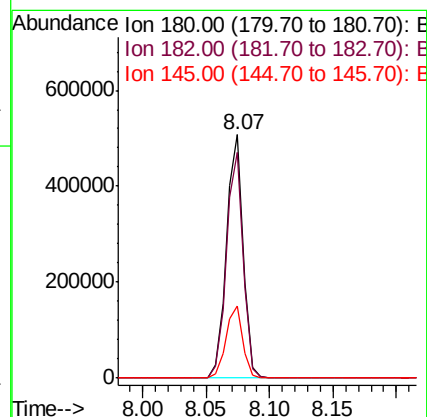
RT: 8.07 min Scan# 1018

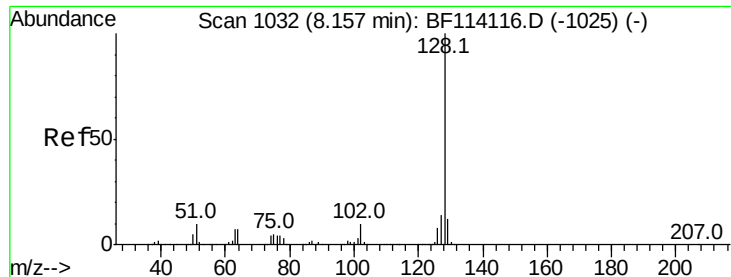
Delta R.T. -0.00 min

Lab File: BF114285.D

Acq: 15 May 2019 15:15

Tgt Ion:	180	Resp:	468461
Ion Ratio	Lower	Upper	
180	100		
182	92.8	76.6	114.8
145	29.8	25.1	37.7





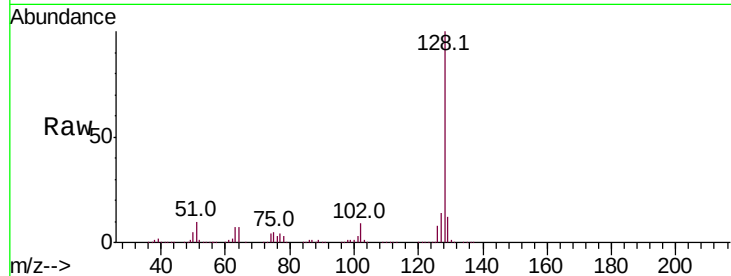
#31
Naphthalene
Concen: 40.279 ng
RT: 8.15 min Scan# 1031
Delta R.T. -0.01 min
Lab File: BF114285.D
Acq: 15 May 2019 15:15

Instrument :
BNA_F
ClientSampleId :
SOIL-COMPMS

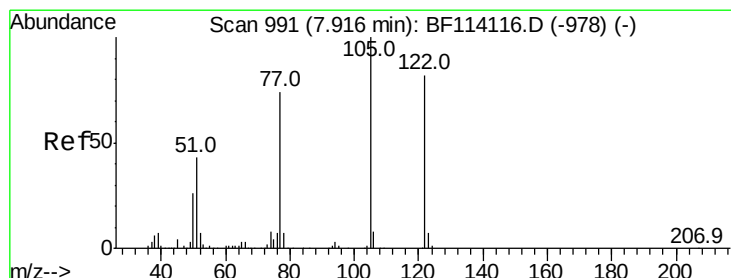
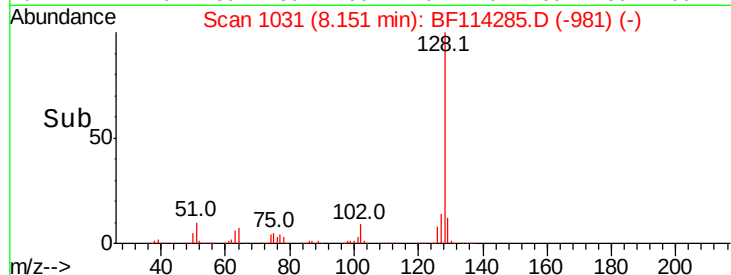
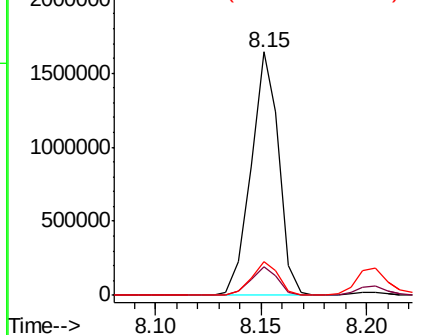
Tot Ion:128 Resp: 1496486
Ion Ratio Lower Upper
128 100
129 11.7 9.6 14.4
127 13.6 11.3 16.9

Manual Integrations
APPROVED

mohammad
5/16/2019 9:50:58 AM

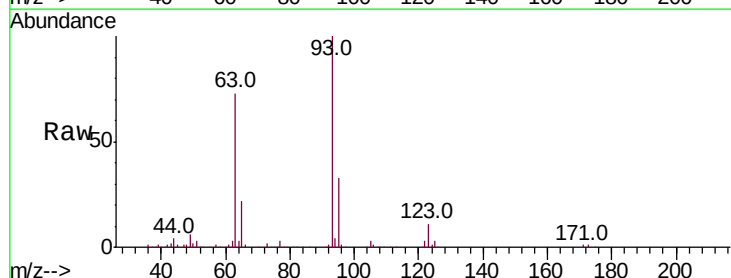


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

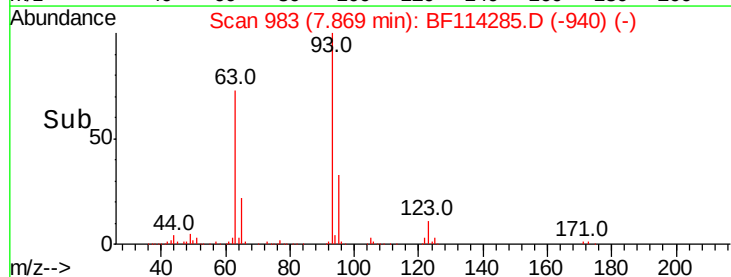
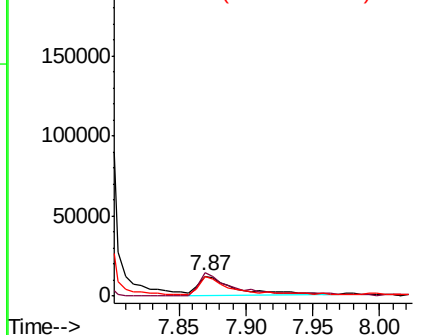


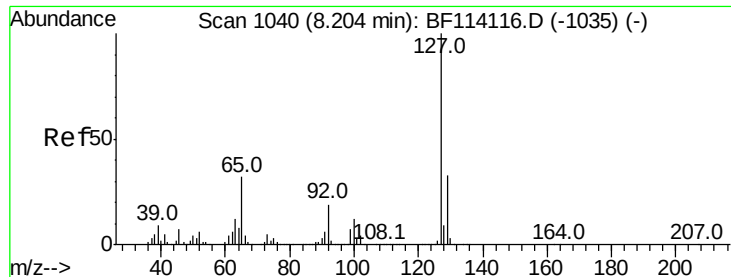
#32
Benzoic acid
Concen: 9.489 ng
RT: 7.87 min Scan# 983
Delta R.T. -0.05 min
Lab File: BF114285.D
Acq: 15 May 2019 15:15

Tgt Ion:122 Resp: 22672
Ion Ratio Lower Upper
122 100
105 117.4 99.9 139.9
77 96.5 69.4 109.4



Abundance Ion 122.00 (121.70 to 122.70): E
Ion 105.00 (104.70 to 105.70): E
Ion 77.00 (76.70 to 77.70): BF1





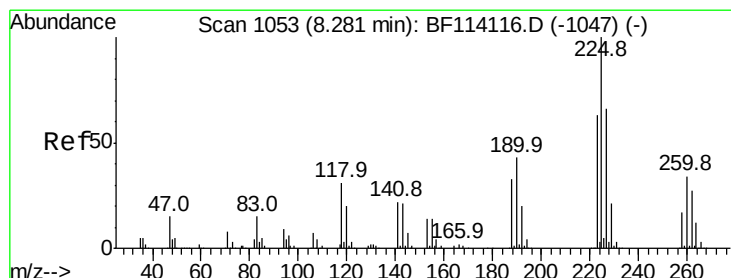
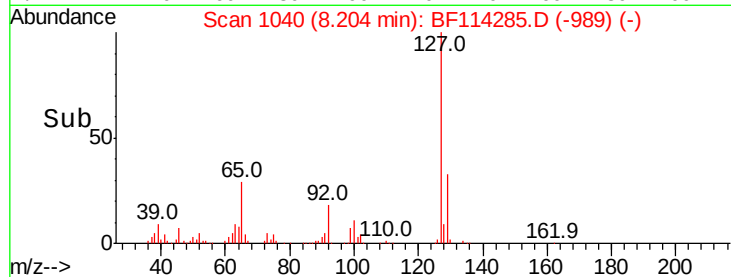
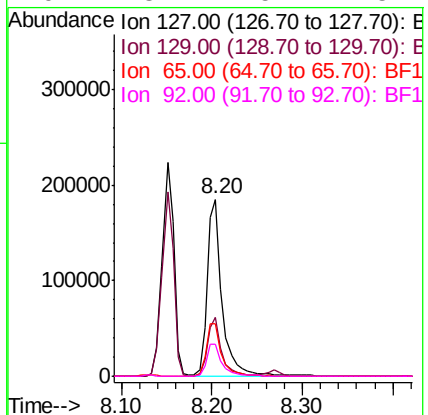
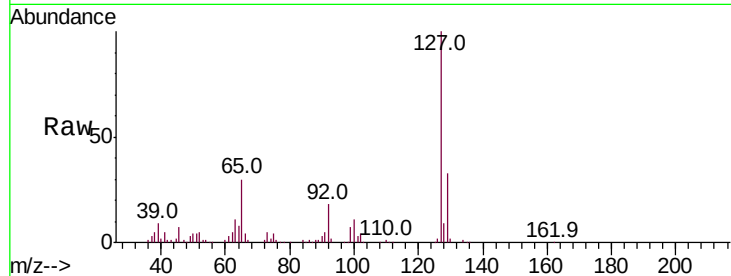
#33
4-Chloroaniline
Concen: 12.815 ng
RT: 8.20 min Scan# 1040
Delta R.T. -0.00 min
Lab File: BF114285.D
Acq: 15 May 2019 15:15

Instrument :
BNA_F
ClientSampleId :
SOIL-COMPMS

Tot Ion	Ratio	Resp	Lower	Upper
127	100			
129	33.4	26.7	40.1	
65	30.0	25.4	38.0	
92	18.1	15.4	23.2	

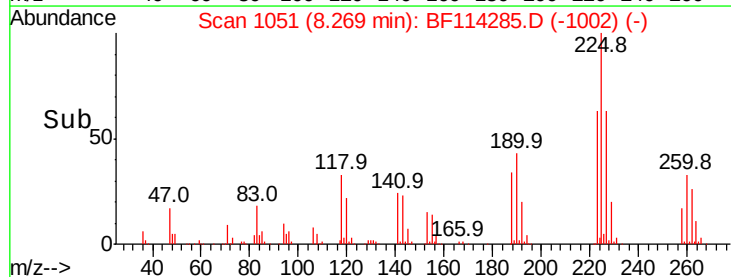
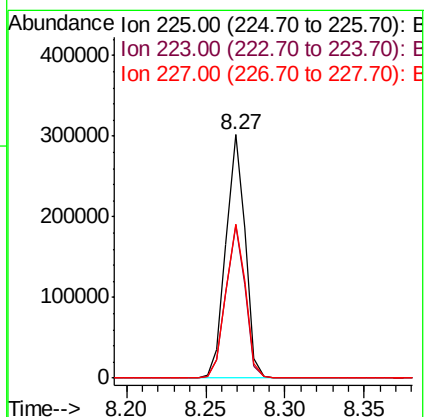
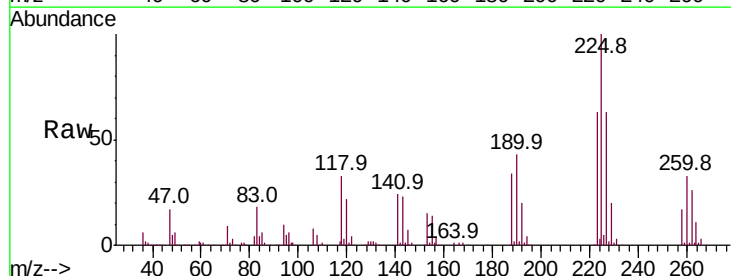
Manual Integrations
APPROVED

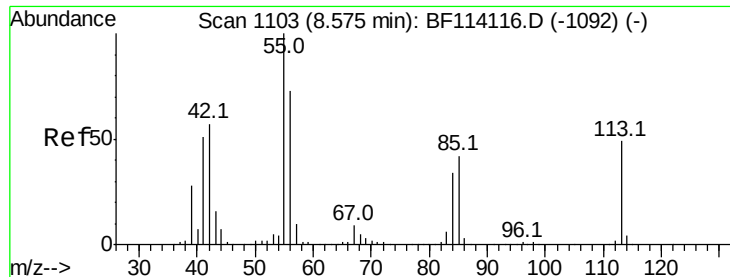
mohammad
5/16/2019 9:50:58 AM



#34
Hexachlorobutadiene
Concen: 35.910 ng
RT: 8.27 min Scan# 1051
Delta R.T. -0.01 min
Lab File: BF114285.D
Acq: 15 May 2019 15:15

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	62.7	50.2	75.2	
227	63.3	52.6	79.0	





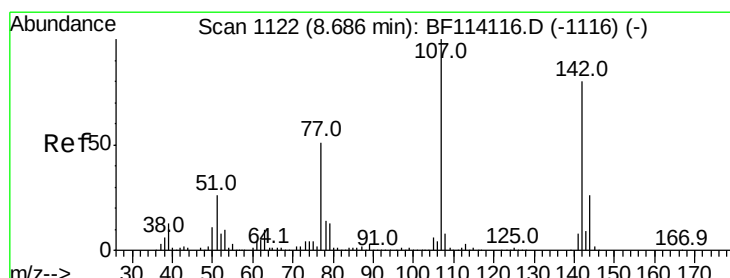
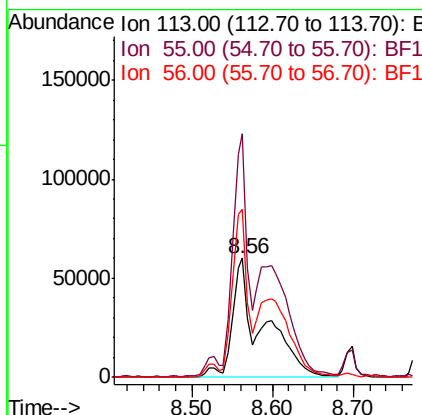
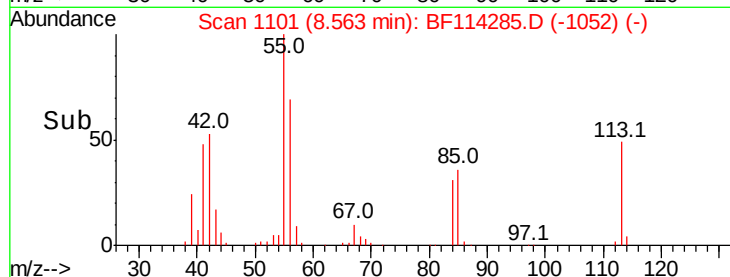
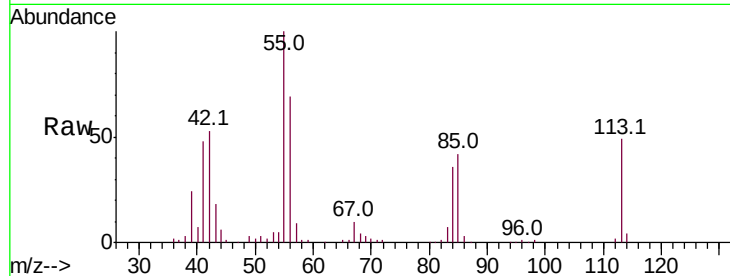
#35
 Caprolactam
 Concen: 43.658 ng m
 RT: 8.56 min Scan# 1101
 Delta R.T. -0.01 min
 Lab File: BF114285.D
 Acq: 15 May 2019 15:15

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-COMPMS

Tot Ion	Ion	Ratio	Resp	Lower	Upper
113	100		155918		
55	204.1		183.5	223.5	
56	141.3		128.8	168.8	

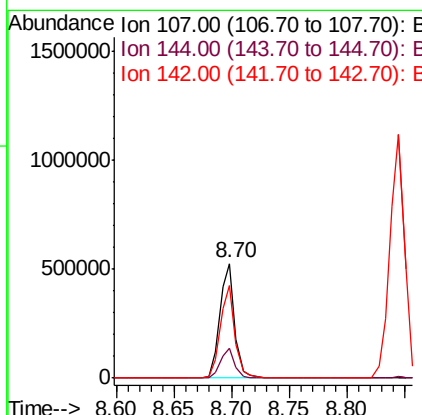
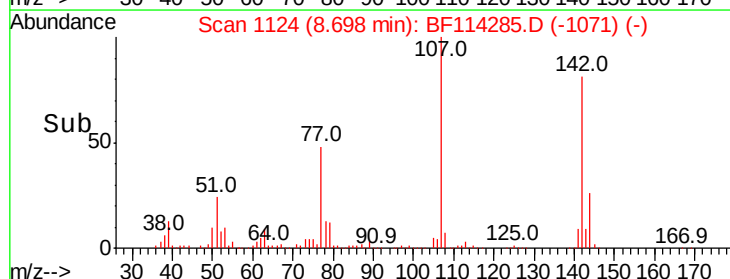
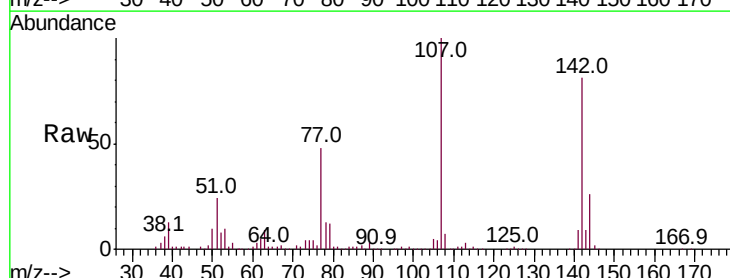
Manual Integrations
 APPROVED

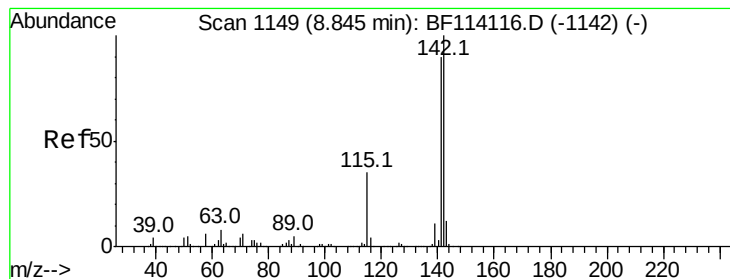
mohammad
 5/16/2019 9:50:58 AM



#36
 4-Chloro-3-methylphenol
 Concen: 42.608 ng
 RT: 8.70 min Scan# 1124
 Delta R.T. 0.01 min
 Lab File: BF114285.D
 Acq: 15 May 2019 15:15

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
107	100		469741		
144	26.2		20.4	30.6	
142	81.5		64.2	96.4	





#37

2-Methylnaphthalene

Concen: 41.603 ng

RT: 8.85 min Scan# 1149

Delta R.T. -0.00 min

Lab File: BF114285.D

Acq: 15 May 2019 15:15

Instrument :

BNA_F

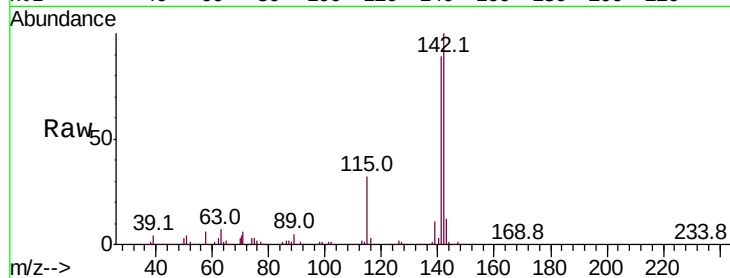
ClientSampleId :

SOIL-COMPMS

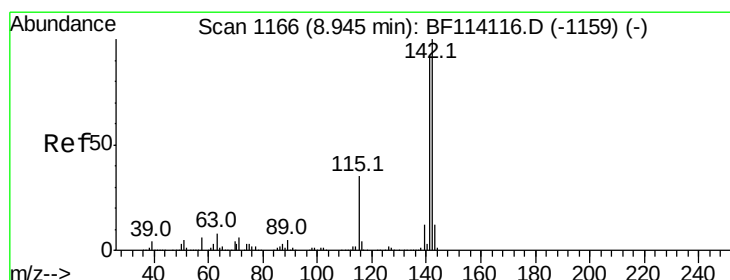
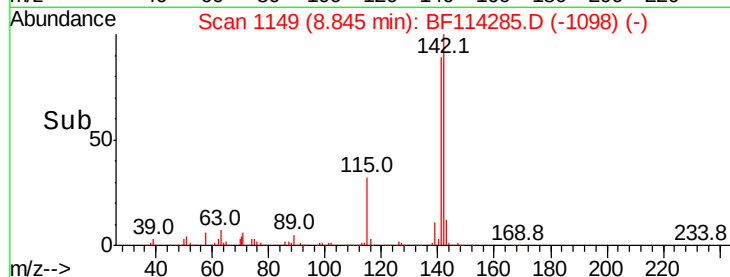
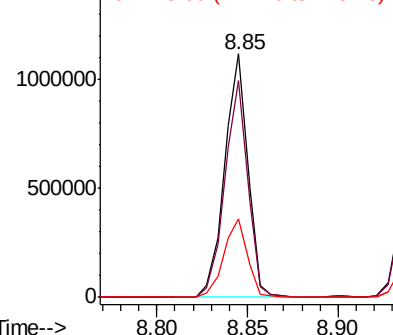
Tot Ion:	142	Resp:	997266
Ion Ratio	Lower	Upper	
142	100		
141	88.8	72.1	108.1
115	32.3	28.0	42.0

Manual Integrations
APPROVED

mohammad
5/16/2019 9:50:58 AM



Abundance Ion 142.00 (141.70 to 142.70): E
1500000
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E



#38

1-Methylnaphthalene

Concen: 41.390 ng

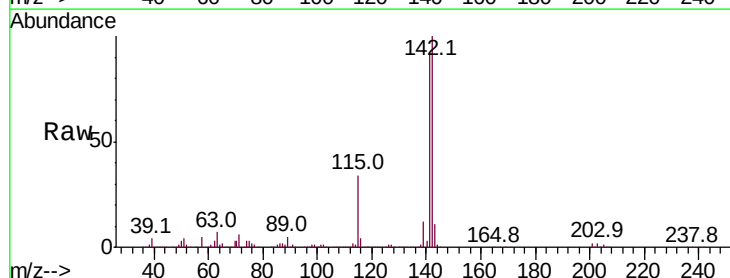
RT: 8.95 min Scan# 1166

Delta R.T. -0.00 min

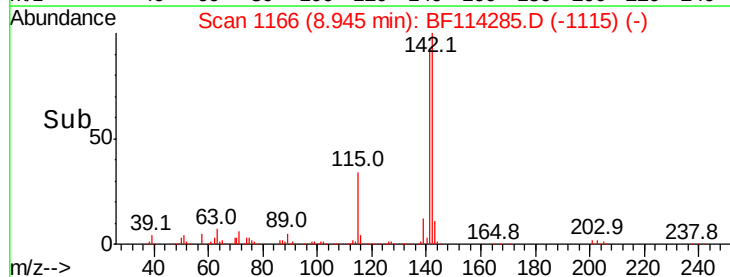
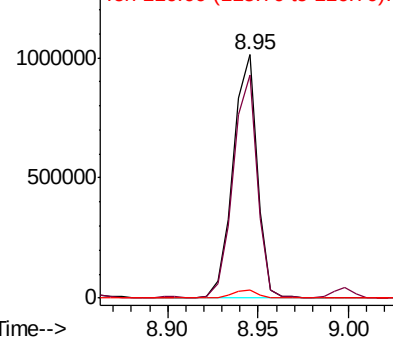
Lab File: BF114285.D

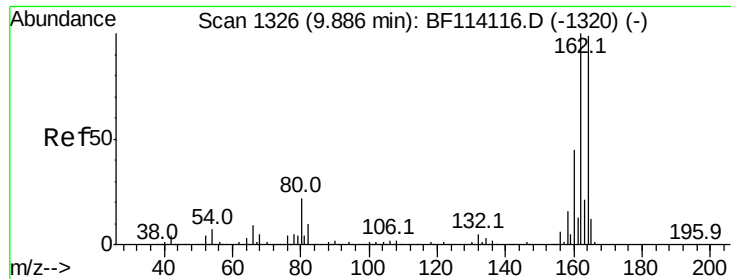
Acq: 15 May 2019 15:15

Tgt Ion:	142	Resp:	934339
Ion Ratio	Lower	Upper	
142	100		
141	91.6	73.4	110.0
116	3.5	3.1	4.7



Abundance Ion 142.00 (141.70 to 142.70): E
1000000
Ion 141.00 (140.70 to 141.70): E
Ion 116.00 (115.70 to 116.70): E





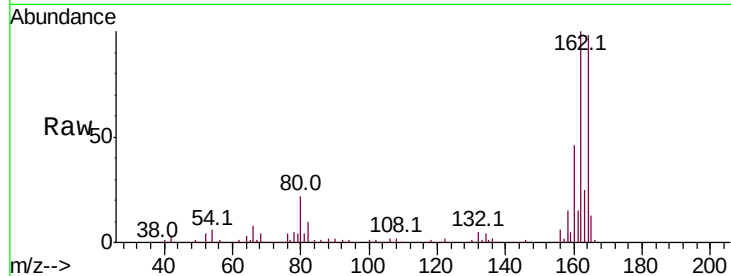
#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.89 min Scan# 1326
 Delta R.T. -0.00 min
 Lab File: BF114285.D
 Acq: 15 May 2019 15:15

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-COMPMS

Tot Ion:	164	Resp:	373646
Ion Ratio	Lower	Upper	
164	100		
162	101.7	80.6	120.8
160	46.6	36.5	54.7

Manual Integrations
 APPROVED

mohammad
 5/16/2019 9:50:58 AM

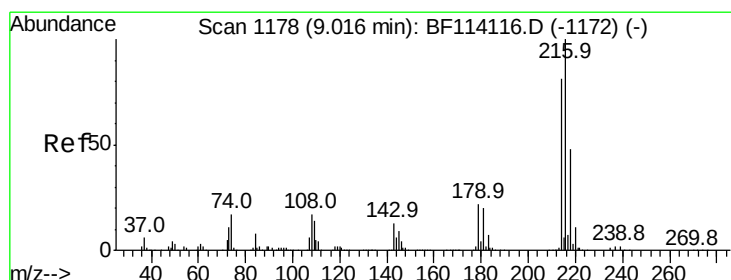
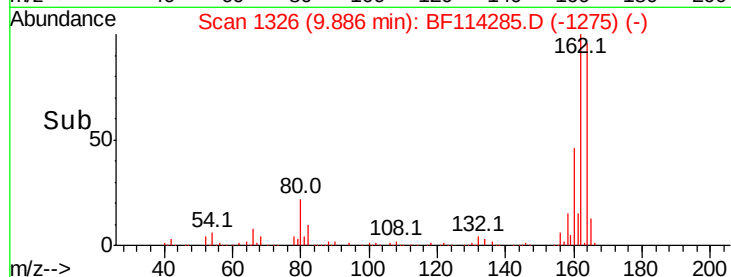
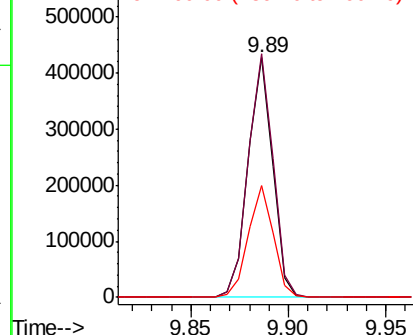


Abundance

Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#40
 1,2,4,5-Tetrachlorobenzene
 Concen: 39.325 ng
 RT: 9.02 min Scan# 1178
 Delta R.T. -0.00 min
 Lab File: BF114285.D
 Acq: 15 May 2019 15:15

Tgt Ion:	216	Resp:	445101
Ion Ratio	Lower	Upper	
216	100		
214	79.8	63.9	95.9
179	21.0	17.0	25.6
108	19.3	14.8	22.2

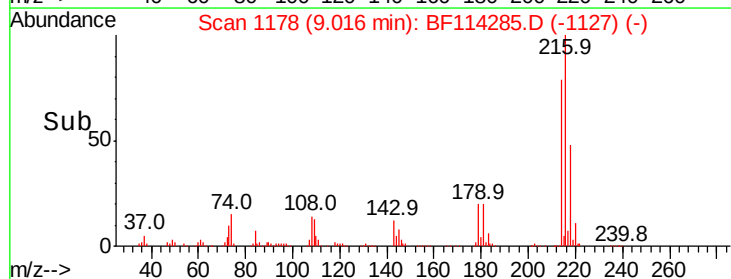
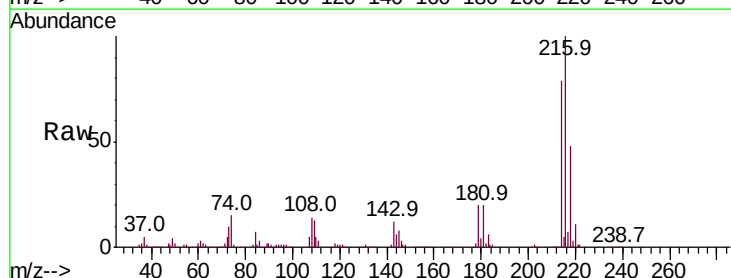
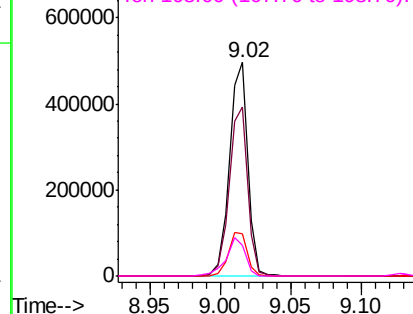
Abundance

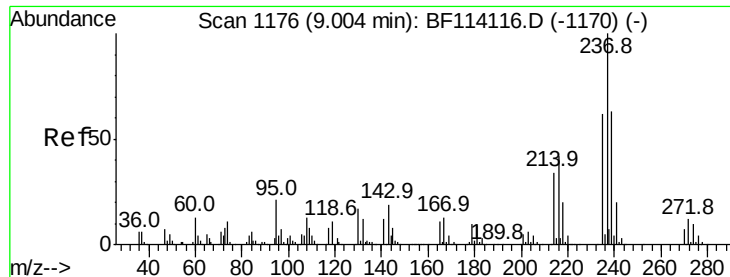
Ion 216.00 (215.70 to 216.70): E

Ion 214.00 (213.70 to 214.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 108.00 (107.70 to 108.70): E





#41

Hexachlorocyclopentadiene

Concen: 49.922 ng

RT: 9.00 min Scan# 1175

Delta R.T. -0.01 min

Lab File: BF114285.D

Acq: 15 May 2019 15:15

Instrument :

BNA_F

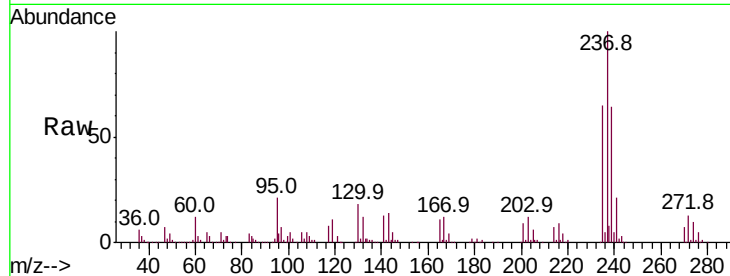
ClientSampleId :

SOIL-COMPMS

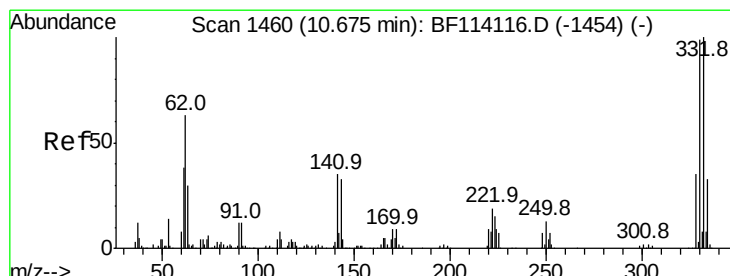
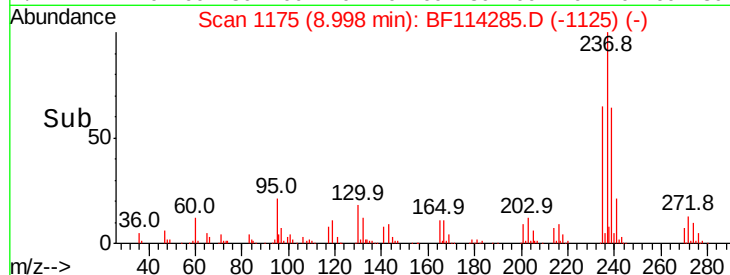
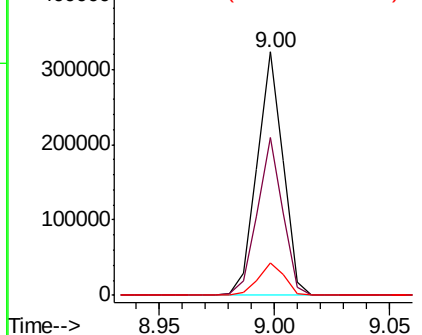
Tot Ion:	237	Resp:	254180
Ion Ratio	Lower	Upper	
237	100		
235	64.7	42.0	82.0
272	13.4	0.0	32.4

Manual Integrations
APPROVED

mohammad
5/16/2019 9:50:58 AM



Abundance Ion 236.80 (236.50 to 237.50): E
Ion 234.90 (234.60 to 235.60): E
Ion 271.75 (271.45 to 272.45): E



#42

2,4,6-Tribromophenol

Concen: 105.901 ng

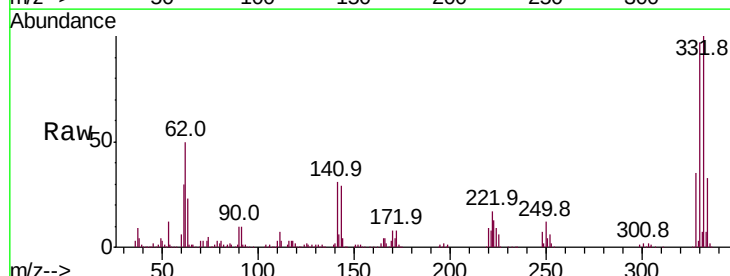
RT: 10.68 min Scan# 1461

Delta R.T. 0.01 min

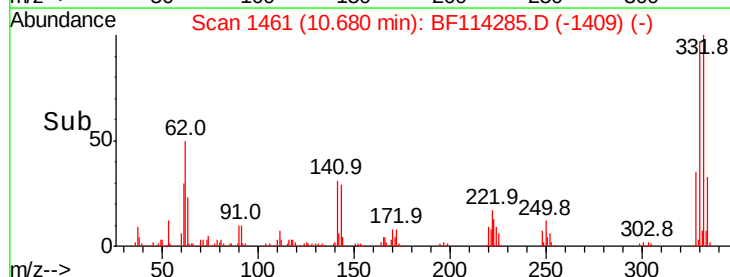
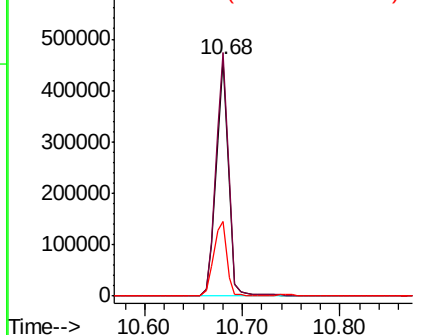
Lab File: BF114285.D

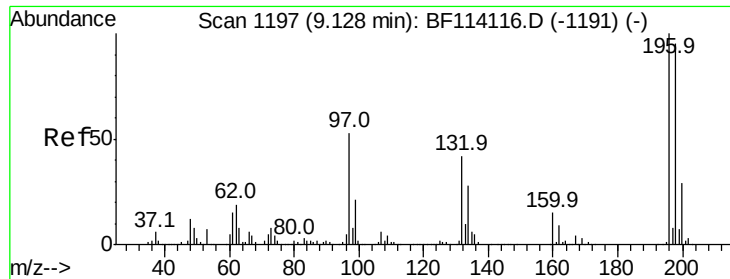
Acq: 15 May 2019 15:15

Tgt Ion:	330	Resp:	409081
Ion Ratio	Lower	Upper	
330	100		
332	104.4	81.4	122.2
141	33.6	26.6	40.0



Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E





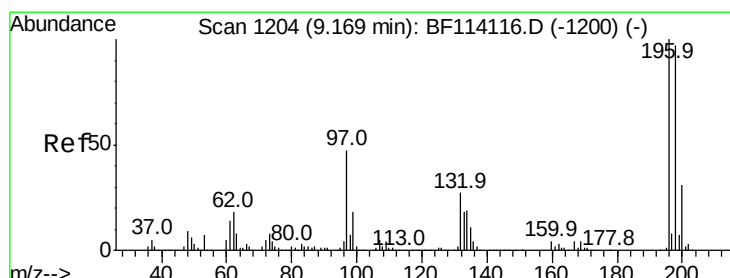
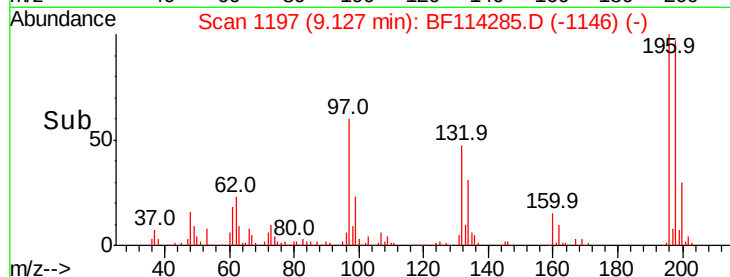
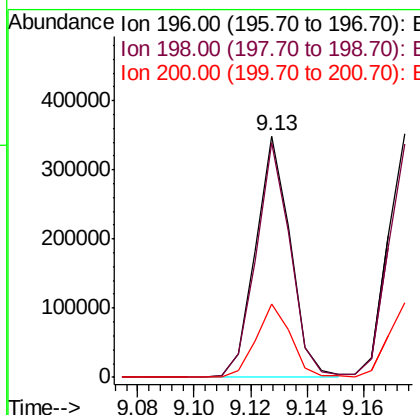
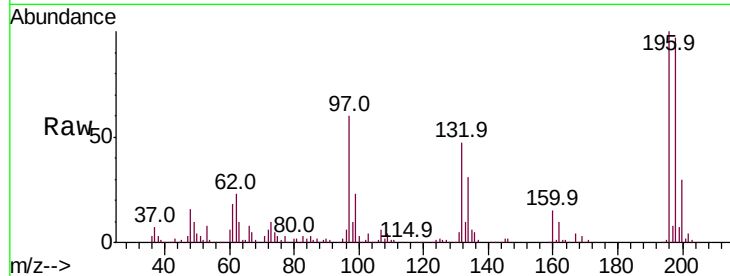
#43
 2,4,6-Trichlorophenol
 Concen: 38.151 ng
 RT: 9.13 min Scan# 1197
 Delta R.T. -0.00 min
 Lab File: BF114285.D
 Acq: 15 May 2019 15:15

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-COMPMS

Tot Ion	Ratio	Resp	Lower	Upper
196	100	297018		
198	97.4	75.9	113.9	
200	30.2	23.5	35.3	

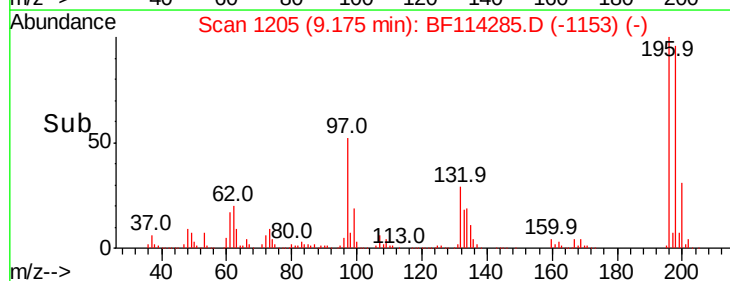
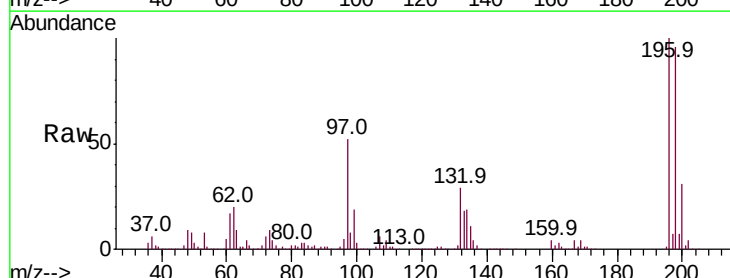
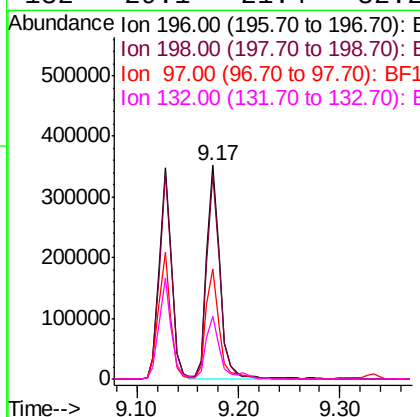
Manual Integrations
 APPROVED

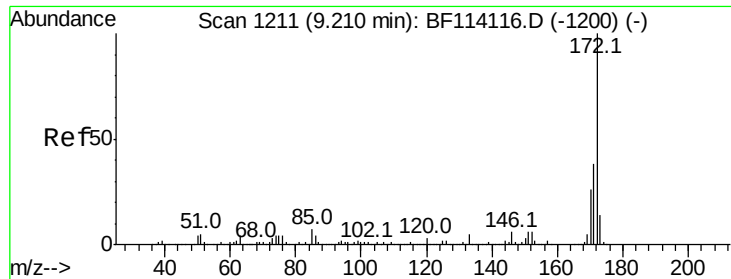
mohammad
 5/16/2019 9:50:58 AM



#44
 2,4,5-Trichlorophenol
 Concen: 40.171 ng
 RT: 9.17 min Scan# 1205
 Delta R.T. 0.01 min
 Lab File: BF114285.D
 Acq: 15 May 2019 15:15

Tgt Ion	Ratio	Resp	Lower	Upper
196	100	320729		
198	95.9	77.7	116.5	
97	51.7	38.2	57.2	
132	29.1	21.4	32.2	





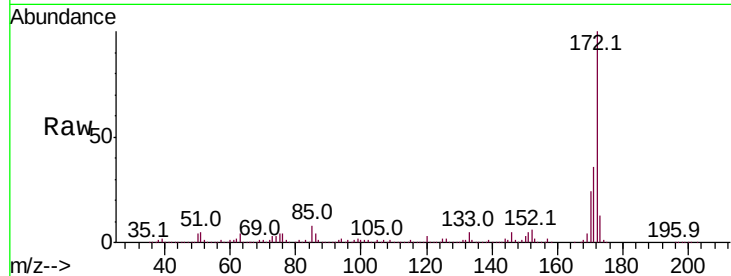
#45
2-Fluorobiphenyl
Concen: 66.629 ng
RT: 9.20 min Scan# 1210
Delta R.T. -0.01 min
Lab File: BF114285.D
Acq: 15 May 2019 15:15

Instrument :
BNA_F
ClientSampleId :
SOIL-COMPMS

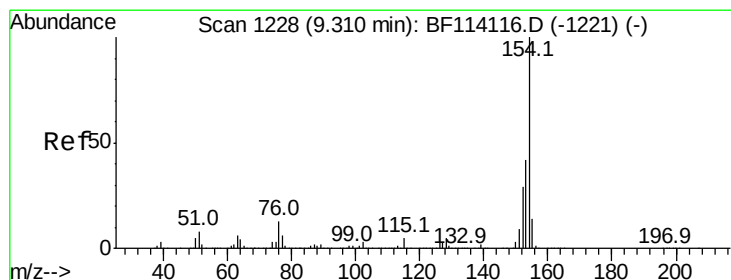
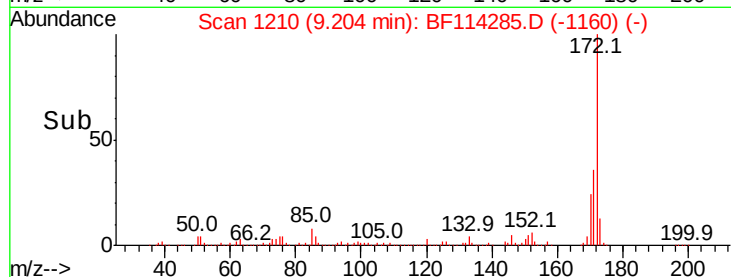
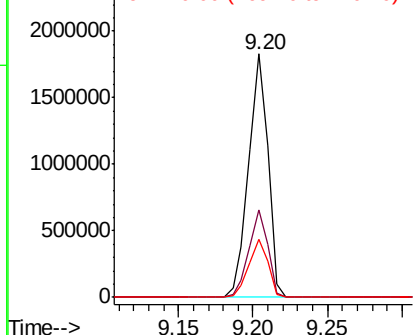
Tot Ion	Ratio	Lower	Upper
172	100		
171	36.1	30.7	46.1
170	23.9	20.5	30.7

Manual Integrations
APPROVED

mohammad
5/16/2019 9:50:58 AM



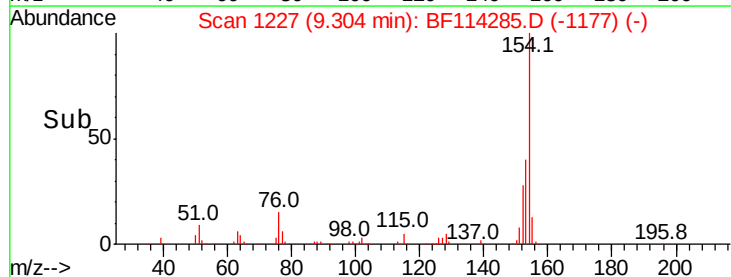
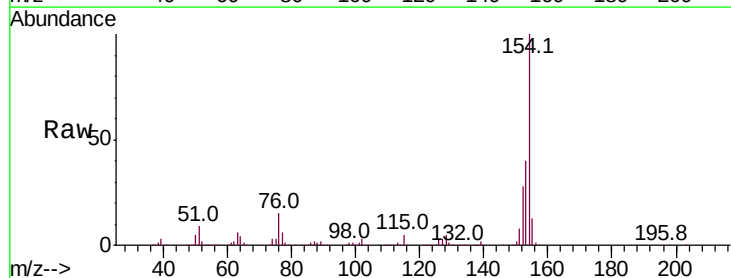
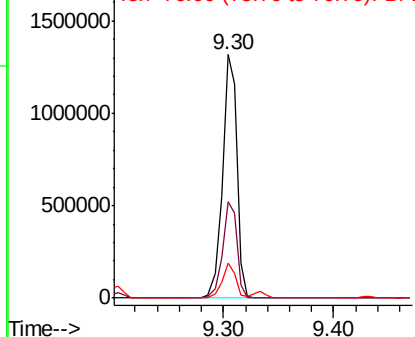
Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

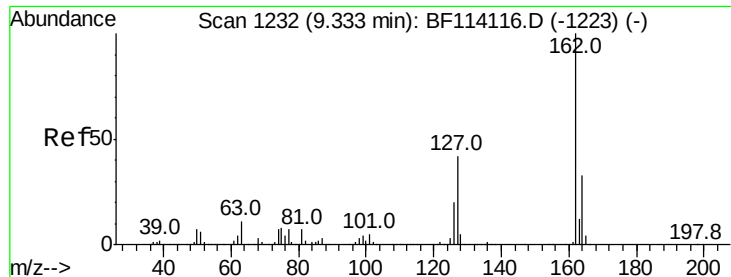


#46
1,1'-Biphenyl
Concen: 39.521 ng
RT: 9.30 min Scan# 1227
Delta R.T. -0.01 min
Lab File: BF114285.D
Acq: 15 May 2019 15:15

Tgt Ion	Ratio	Lower	Upper
154	100		
153	39.6	21.9	61.9
76	14.5	0.0	32.8

Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF1





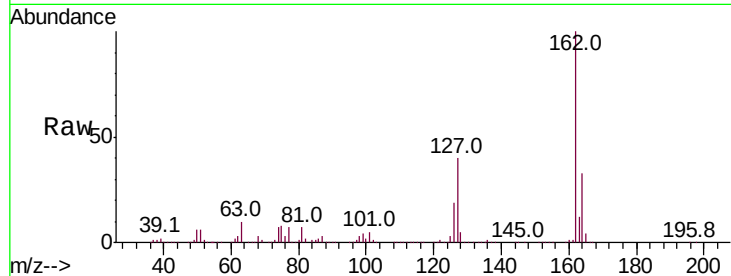
#47
 2-Chloronaphthalene
 Concen: 37.860 ng
 RT: 9.33 min Scan# 1232
 Delta R.T. -0.00 min
 Lab File: BF114285.D
 Acq: 15 May 2019 15:15

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-COMPMS

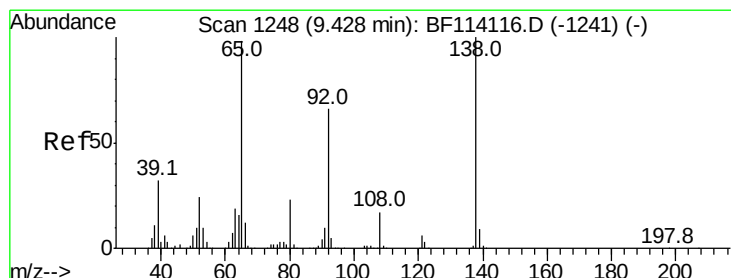
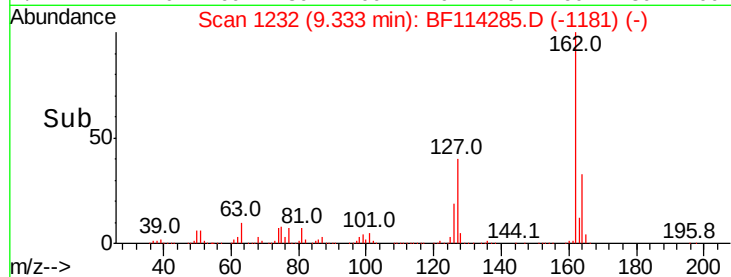
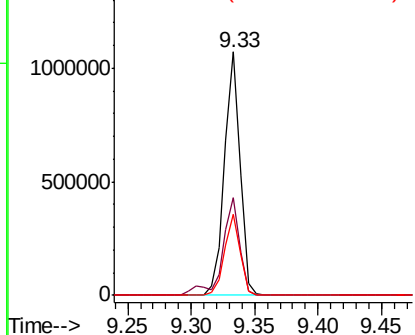
Tot Ion	Ratio	Resp	Lower	Upper
162	100			
127	40.2	34.0	51.0	
164	33.4	26.7	40.1	

Manual Integrations
 APPROVED

mohammad
 5/16/2019 9:50:58 AM

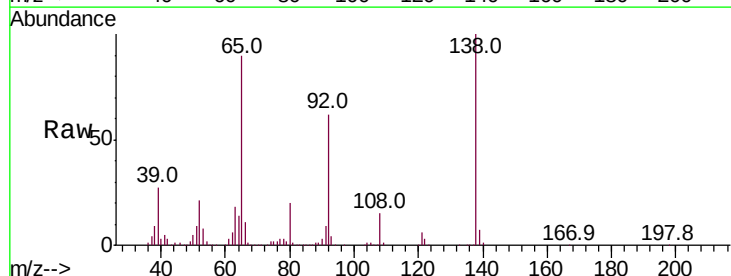


Abundance Ion 162.00 (161.70 to 162.70): E
 Ion 127.00 (126.70 to 127.70): E
 Ion 164.00 (163.70 to 164.70): E

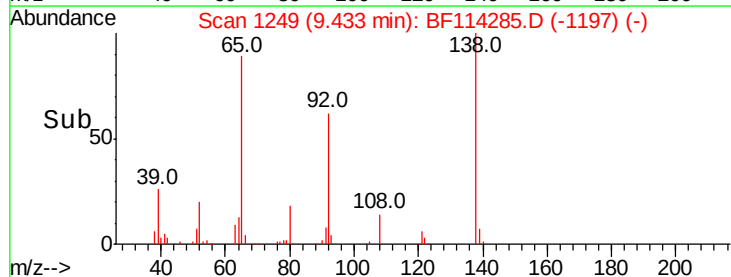
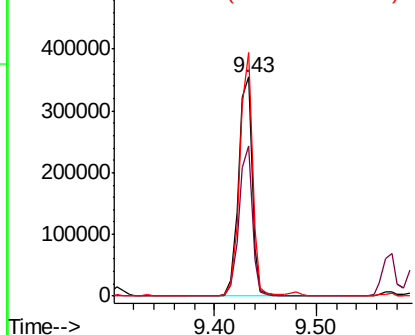


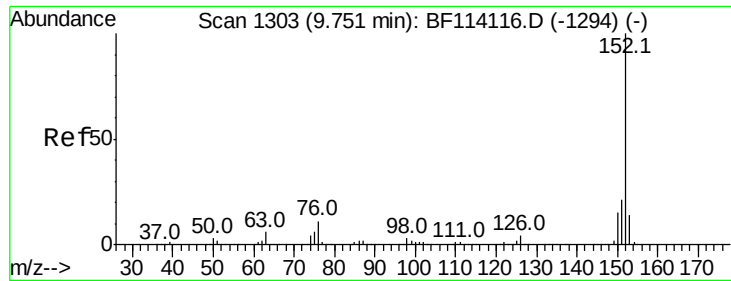
#48
 2-Nitroaniline
 Concen: 38.660 ng
 RT: 9.43 min Scan# 1249
 Delta R.T. 0.01 min
 Lab File: BF114285.D
 Acq: 15 May 2019 15:15

Tgt Ion	Ratio	Resp	Lower	Upper
65	100			
92	68.7	53.9	80.9	
138	111.0	81.4	122.0	



Abundance Ion 65.00 (64.70 to 65.70): BF1
 Ion 92.00 (91.70 to 92.70): BF1
 Ion 138.00 (137.70 to 138.70): E





#49

Acenaphthylene

Concen: 39.823 ng

RT: 9.75 min Scan# 1303

Delta R.T. -0.00 min

Lab File: BF114285.D

Acq: 15 May 2019 15:15

Instrument :

BNA_F

ClientSampleId :

SOIL-COMPMS

Tot Ion:152 Resp: 1471395

Ion Ratio Lower Upper

152 100

151 20.5 16.8 25.2

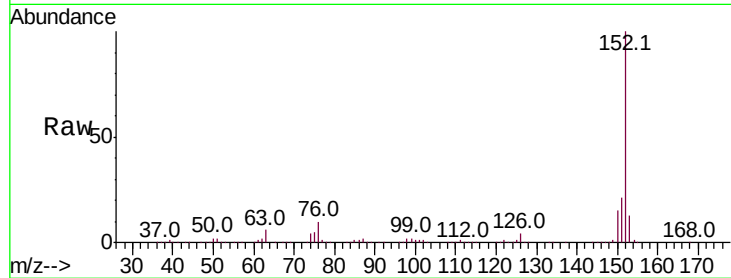
153 13.2 11.4 17.2

Manual Integrations

APPROVED

mohammad

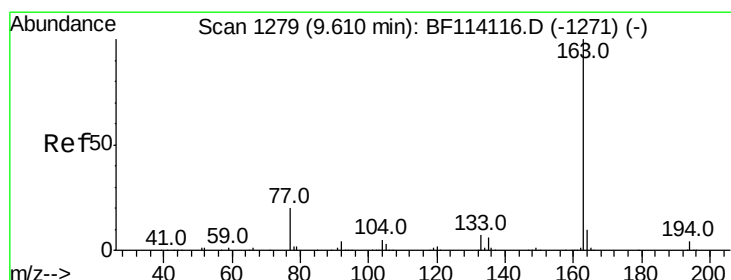
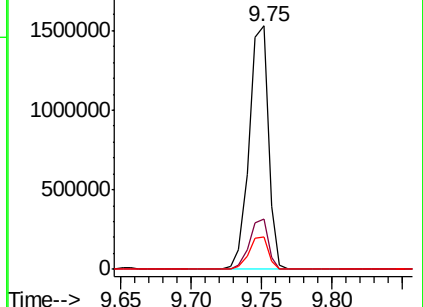
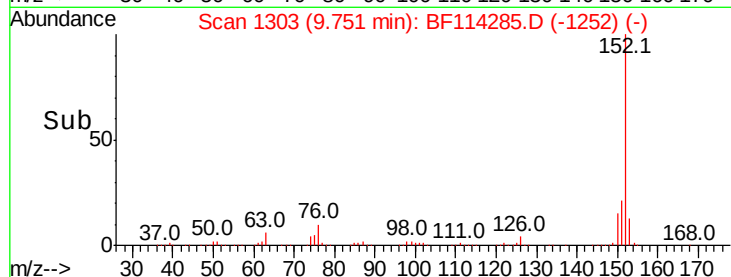
5/16/2019 9:50:58 AM



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#50

Dimethylphthalate

Concen: 48.608 ng

RT: 9.60 min Scan# 1278

Delta R.T. -0.01 min

Lab File: BF114285.D

Acq: 15 May 2019 15:15

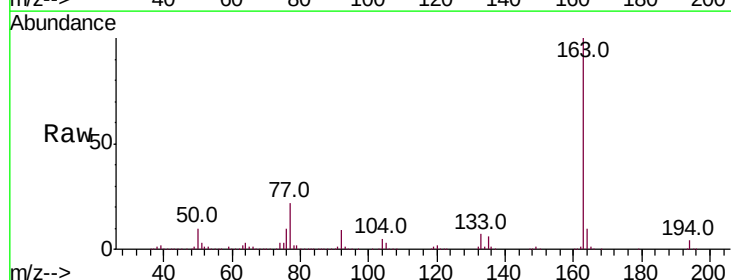
Tgt Ion:163 Resp: 1333265

Ion Ratio Lower Upper

163 100

194 4.0 3.4 5.0

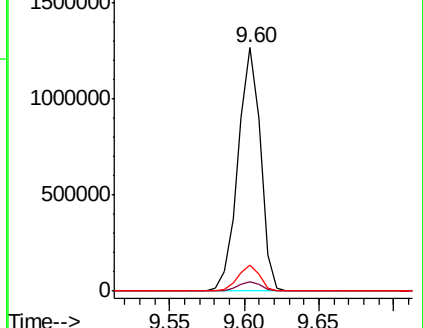
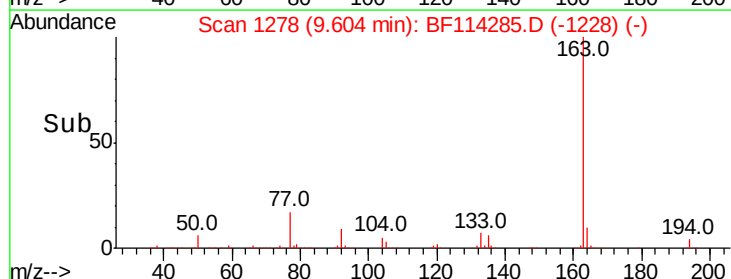
164 10.5 8.2 12.2

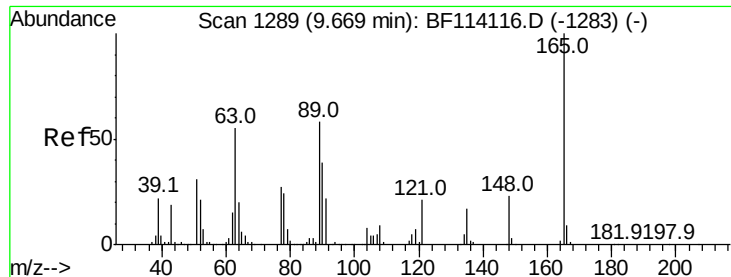


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#51

2,6-Dinitrotoluene

Concen: 40.476 ng

RT: 9.67 min Scan# 1289

Delta R.T. -0.00 min

Lab File: BF114285.D

Acq: 15 May 2019 15:15

Instrument :

BNA_F

ClientSampleId :

SOIL-COMPMS

Tot Ion:165 Resp: 246249

Ion Ratio Lower Upper

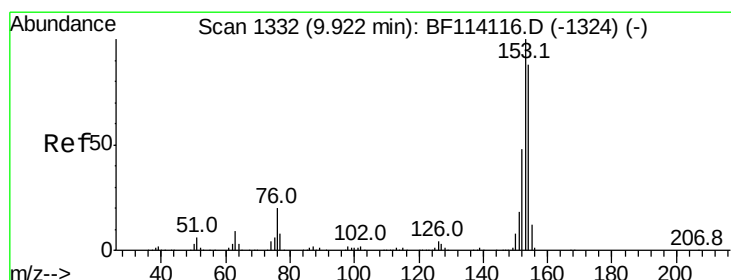
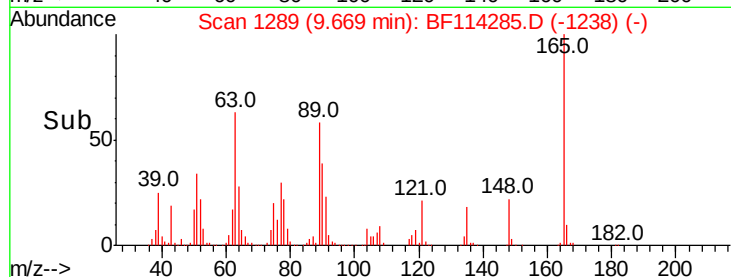
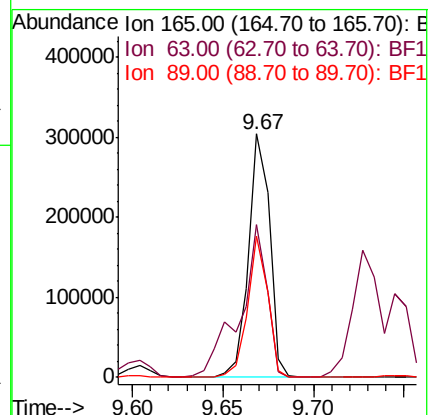
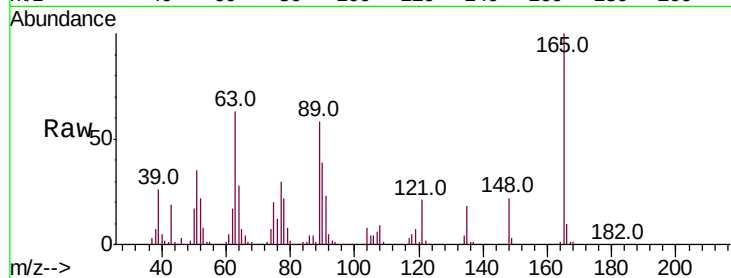
165 100

63 62.7 50.2 75.4

89 58.1 46.6 69.8

Manual Integrations
APPROVED

mohammad
5/16/2019 9:50:58 AM



#52

Acenaphthene

Concen: 37.331 ng

RT: 9.92 min Scan# 1332

Delta R.T. -0.00 min

Lab File: BF114285.D

Acq: 15 May 2019 15:15

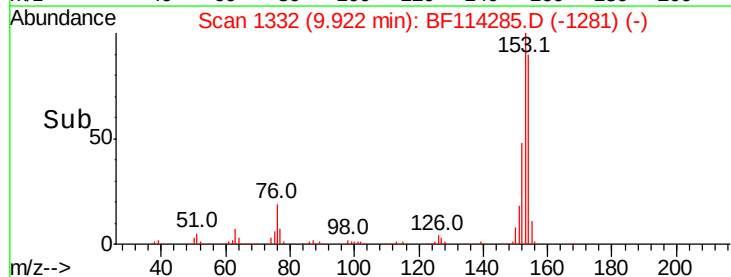
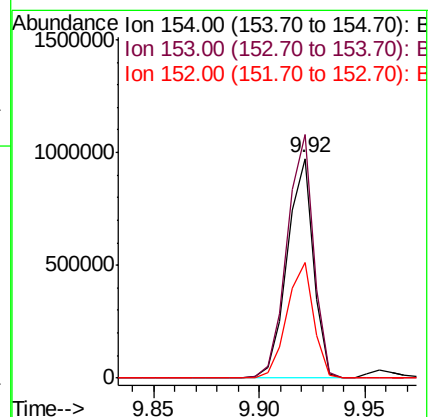
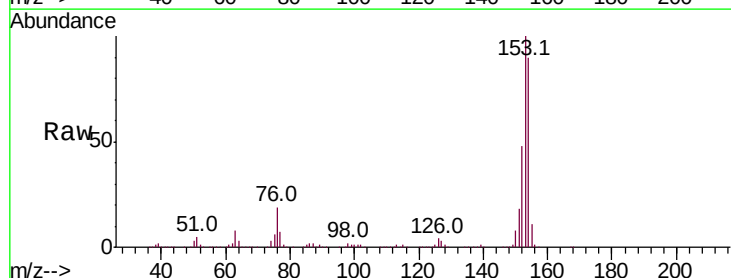
Tgt Ion:154 Resp: 846398

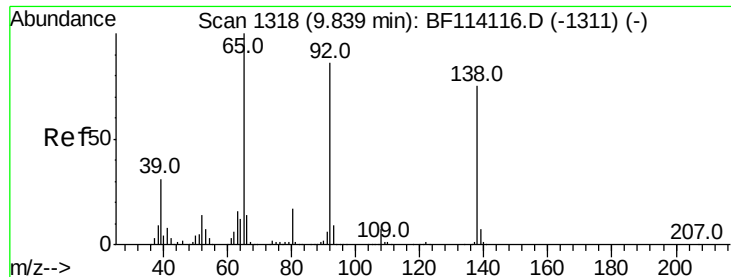
Ion Ratio Lower Upper

154 100

153 111.0 90.5 135.7

152 52.8 43.4 65.2





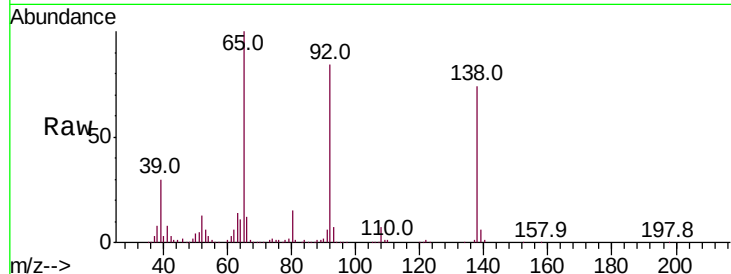
#53
3-Nitroaniline
Concen: 23.107 ng
RT: 9.84 min Scan# 1318
Delta R.T. -0.00 min
Lab File: BF114285.D
Acq: 15 May 2019 15:15

Instrument :
BNA_F
ClientSampleId :
SOIL-COMPMS

Tot Ion	Ratio	Lower	Upper
138	100		
108	10.0	7.8	11.6
92	113.8	91.2	136.8

Manual Integrations
APPROVED

mohammad
5/16/2019 9:50:58 AM

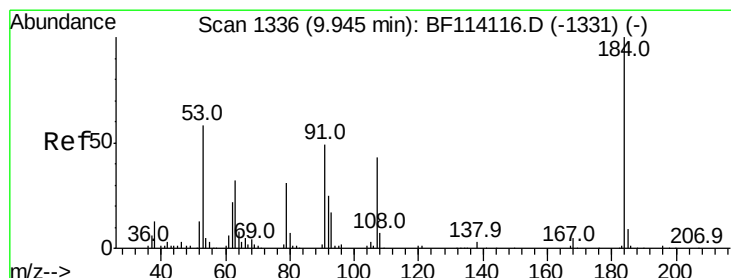
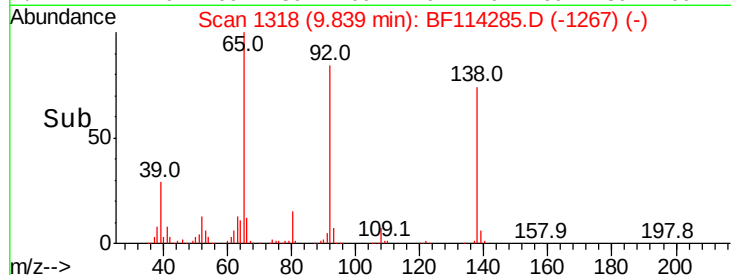
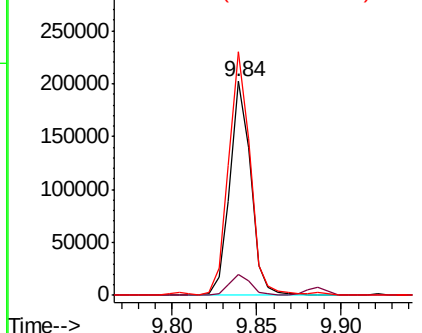


Abundance

Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BF1



#54
2,4-Dinitrophenol
Concen: 28.195 ng
RT: 9.96 min Scan# 1338
Delta R.T. 0.01 min
Lab File: BF114285.D
Acq: 15 May 2019 15:15

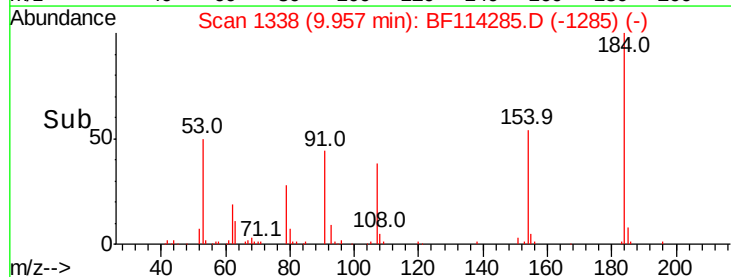
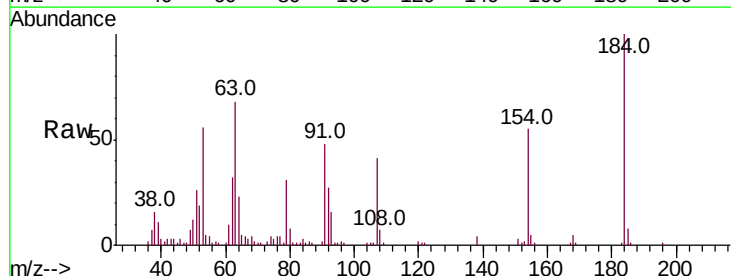
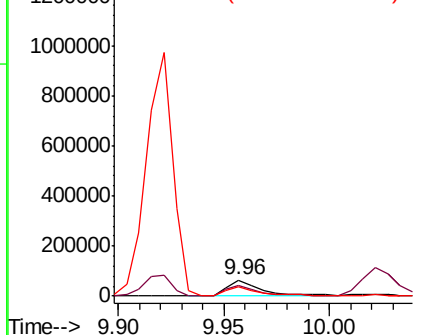
Tgt Ion	Ratio	Lower	Upper
184	100		
63	68.1	55.6	83.4
154	55.1	46.0	69.0

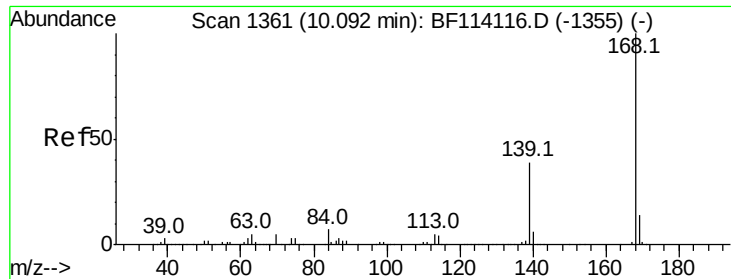
Abundance

Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 154.00 (153.70 to 154.70): E





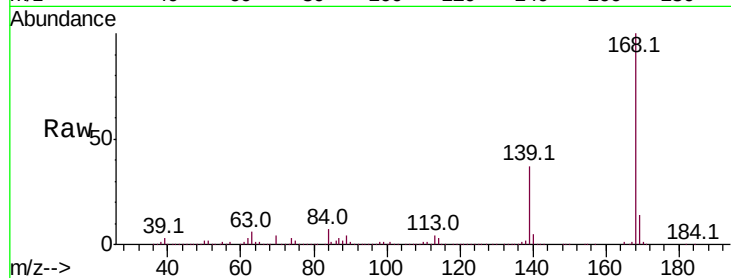
#55
Dibenzofuran
Concen: 38.212 ng
RT: 10.09 min Scan# 1361
Delta R.T. -0.00 min
Lab File: BF114285.D
Acq: 15 May 2019 15:15

Instrument :
BNA_F
ClientSampleId :
SOIL-COMPMS

Tot Ion	Ratio	Lower	Upper
168	100		
139	36.9	31.1	46.7
169	13.8	11.4	17.0

Manual Integrations
APPROVED

mohammad
5/16/2019 9:50:58 AM

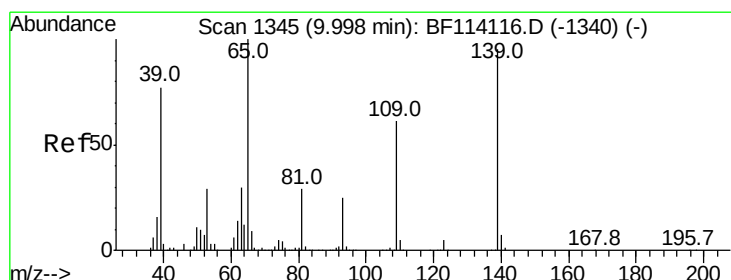
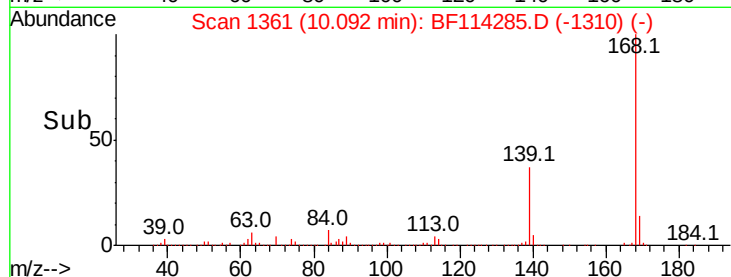
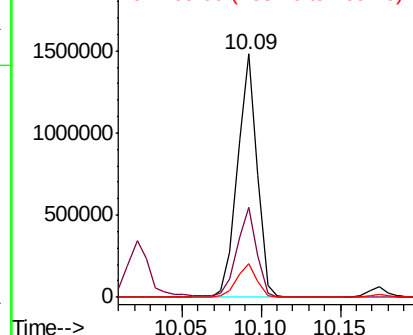


Abundance

Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#56
4-Nitrophenol
Concen: 63.893 ng
RT: 10.02 min Scan# 1349
Delta R.T. 0.02 min
Lab File: BF114285.D
Acq: 15 May 2019 15:15

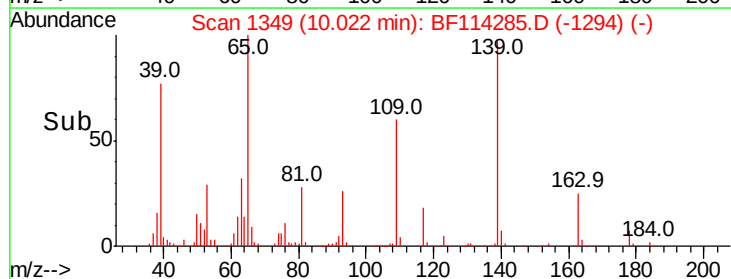
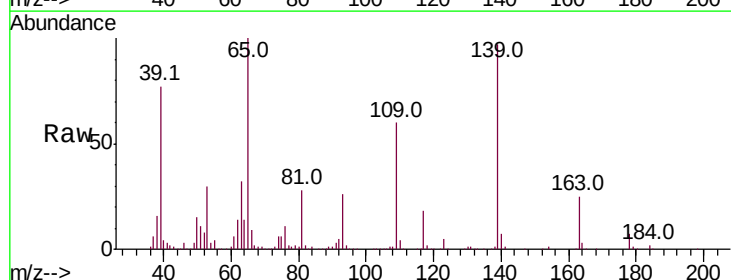
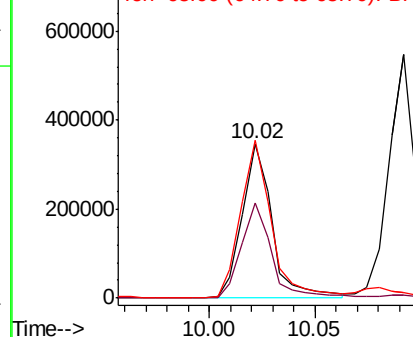
Tgt Ion	Ratio	Lower	Upper
139	100		
109	61.7	43.9	83.9
65	102.9	85.7	125.7

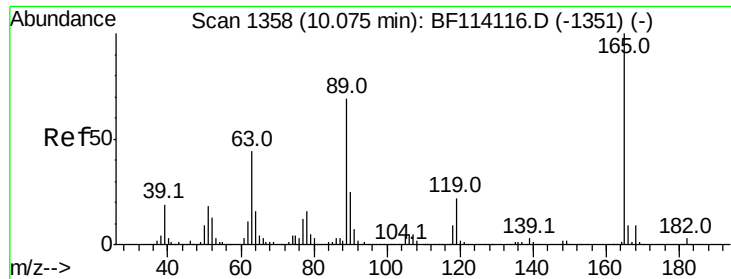
Abundance

Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1





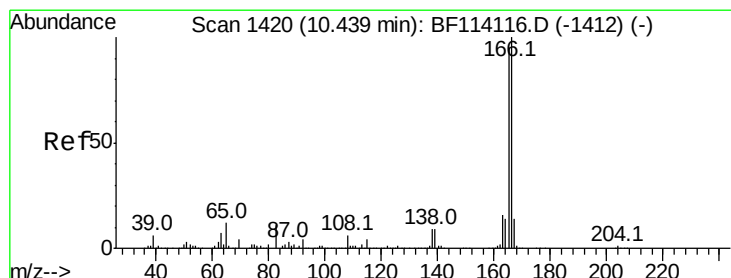
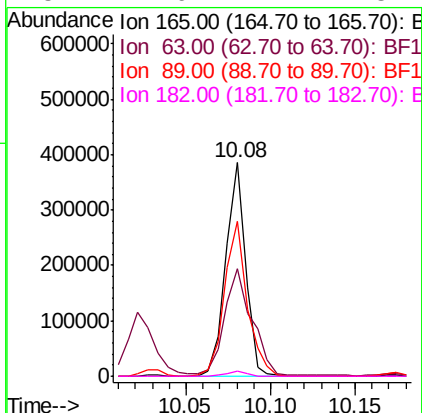
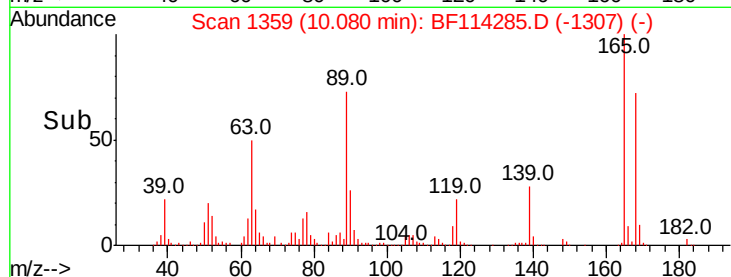
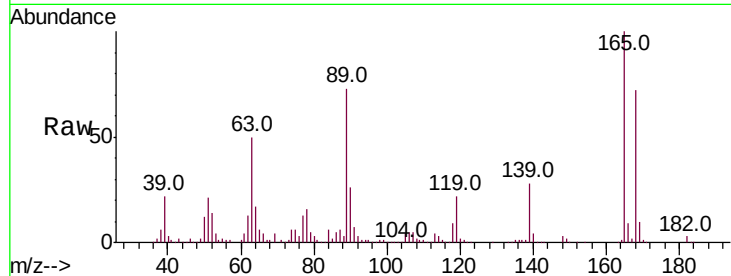
#57
 2,4-Dinitrotoluene
 Concen: 38.121 ng
 RT: 10.08 min Scan# 1359
 Delta R.T. 0.01 min
 Lab File: BF114285.D
 Acq: 15 May 2019 15:15

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-COMPMS

Tot Ion	Ratio	Resp	Lower	Upper
165	100			
63	50.3	35.5	53.3	
89	72.7	55.2	82.8	
182	2.6	2.2	3.2	

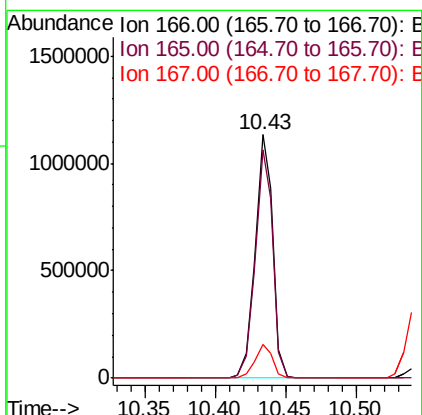
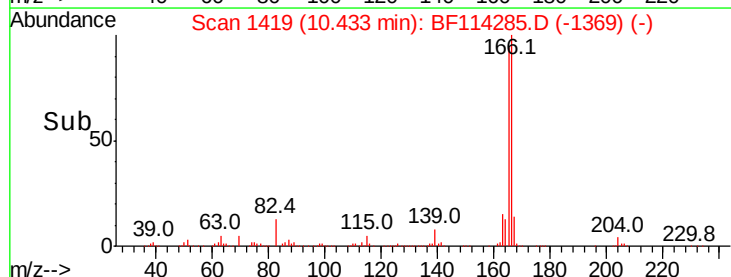
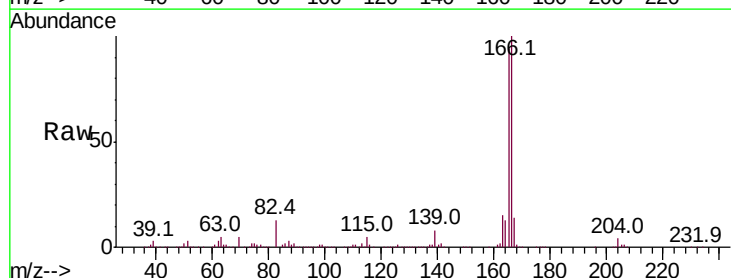
Manual Integrations
 APPROVED

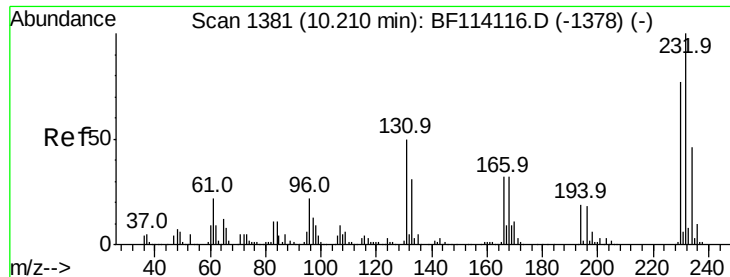
mohammad
 5/16/2019 9:50:58 AM



#58
 Fluorene
 Concen: 38.697 ng
 RT: 10.43 min Scan# 1419
 Delta R.T. -0.01 min
 Lab File: BF114285.D
 Acq: 15 May 2019 15:15

Tgt Ion	Ratio	Resp	Lower	Upper
166	100			
165	93.8	76.1	114.1	
167	13.7	11.1	16.7	





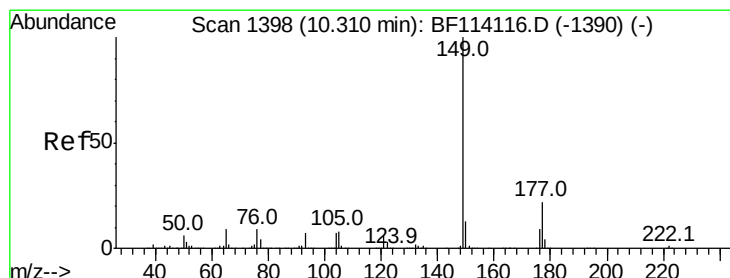
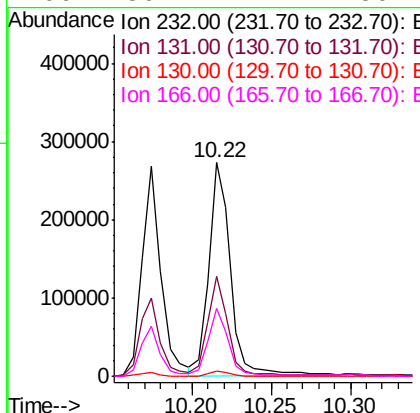
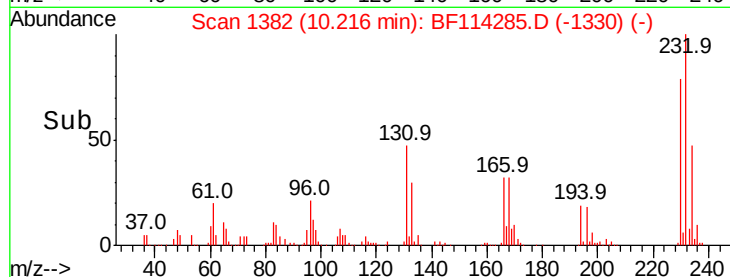
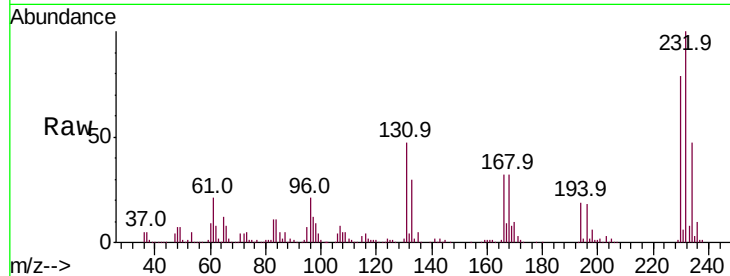
#59
 2,3,4,6-Tetrachlorophenol
 Concen: 37.119 ng
 RT: 10.22 min Scan# 1382
 Delta R.T. 0.01 min
 Lab File: BF114285.D
 Acq: 15 May 2019 15:15

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-COMPMS

Tot Ion	Ratio	Resp	Lower	Upper
232	100	255712		
131	44.3		35.6	53.4
130	2.2		1.6	2.4
166	30.1		24.1	36.1

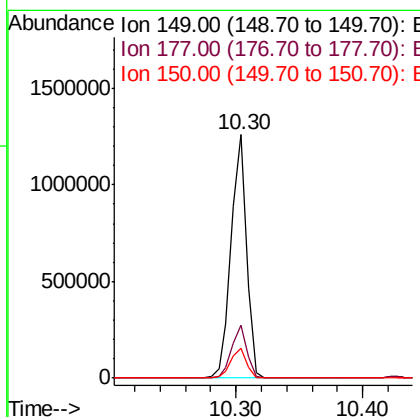
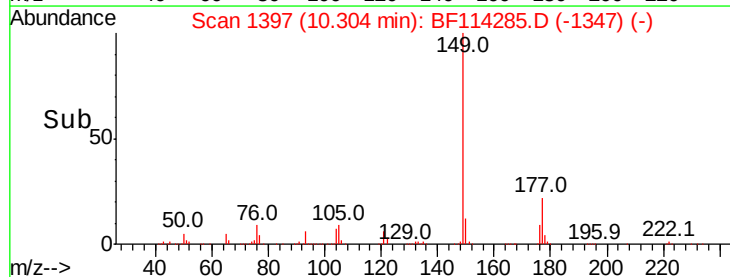
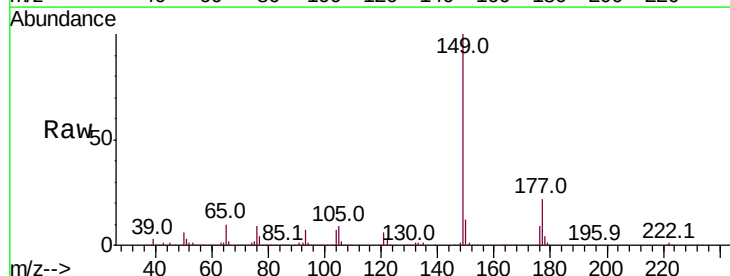
Manual Integrations
 APPROVED

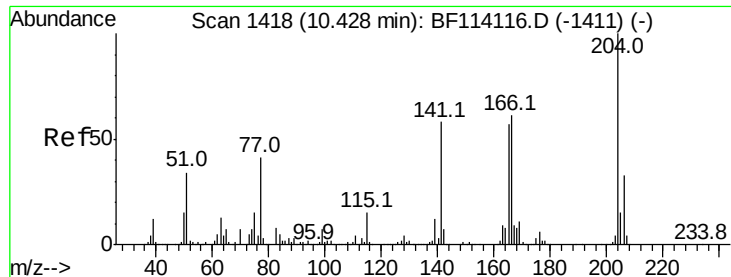
mohammad
 5/16/2019 9:50:58 AM



#60
 Diethylphthalate
 Concen: 37.865 ng
 RT: 10.30 min Scan# 1397
 Delta R.T. -0.01 min
 Lab File: BF114285.D
 Acq: 15 May 2019 15:15

Tgt Ion	Ratio	Resp	Lower	Upper
149	100	1055297		
177	21.9		17.8	26.6
150	12.5		10.2	15.2





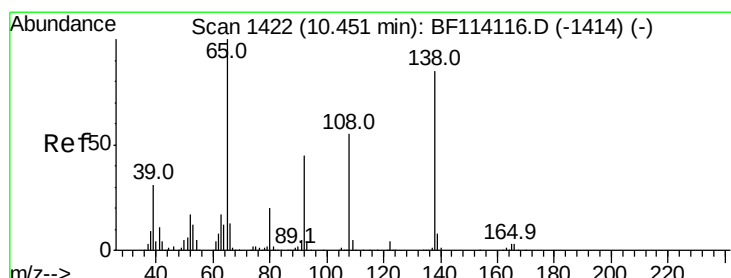
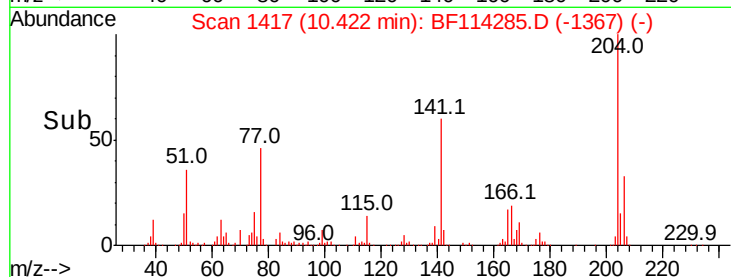
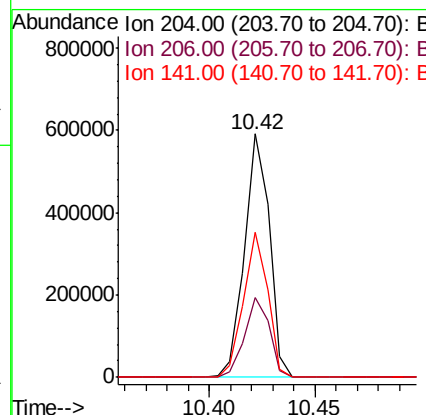
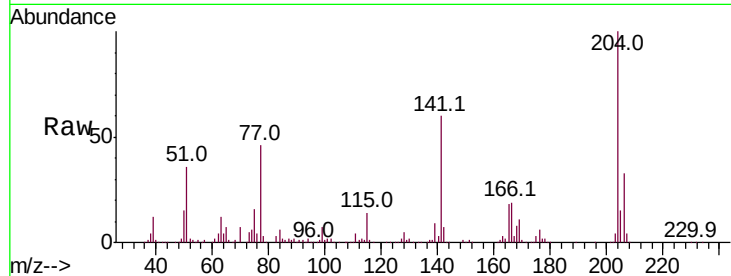
#61
 4-Chlorophenyl-phenylether
 Concen: 38.015 ng
 RT: 10.42 min Scan# 1417
 Delta R.T. -0.01 min
 Lab File: BF114285.D
 Acq: 15 May 2019 15:15

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-COMPMS

Tot Ion	Ratio	Lower	Upper
204	100		
206	33.0	26.6	39.8
141	59.6	46.4	69.6

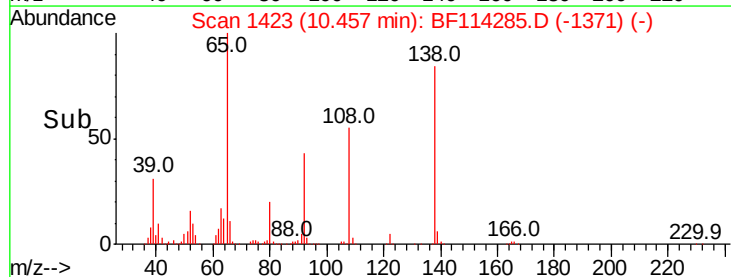
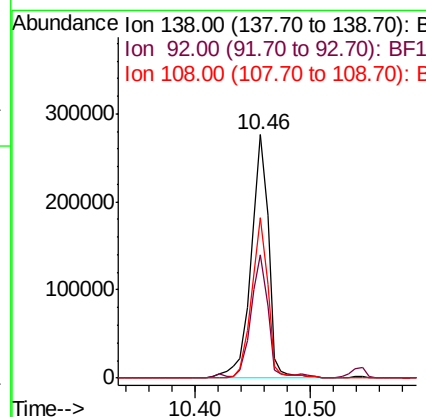
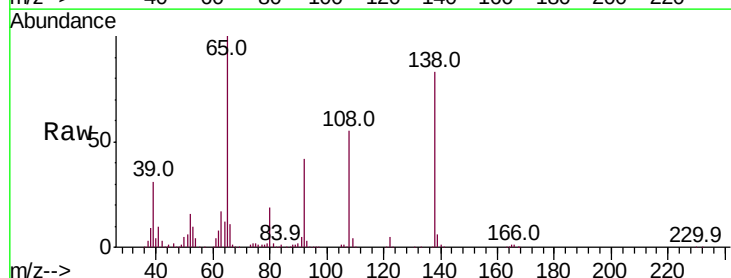
Manual Integrations
 APPROVED

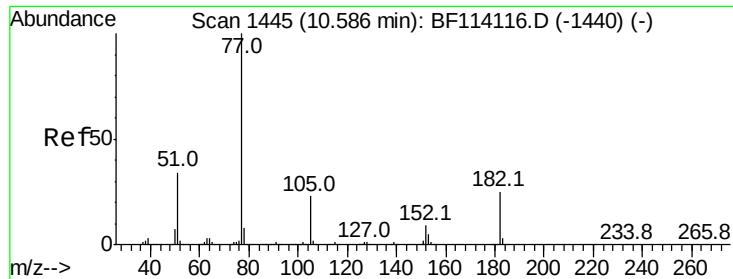
mohammad
 5/16/2019 9:50:58 AM



#62
 4-Nitroaniline
 Concen: 36.379 ng
 RT: 10.46 min Scan# 1423
 Delta R.T. 0.01 min
 Lab File: BF114285.D
 Acq: 15 May 2019 15:15

Tgt Ion	Ratio	Lower	Upper
138	100		
92	50.9	33.0	73.0
108	65.8	44.9	84.9





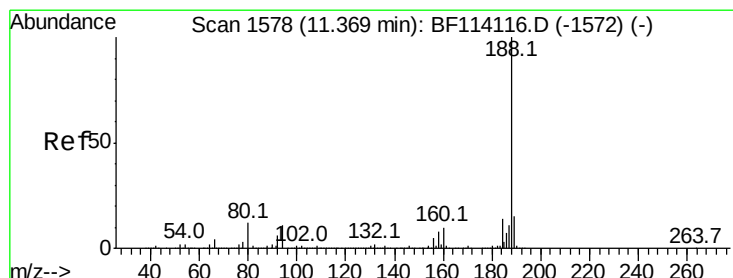
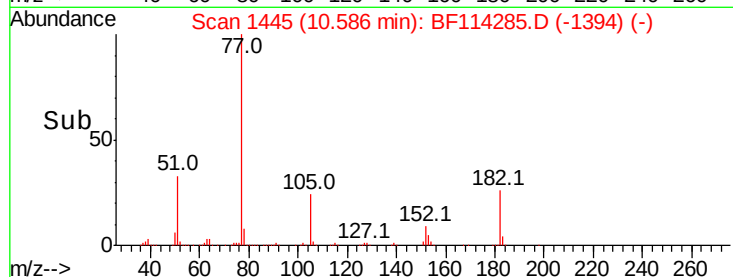
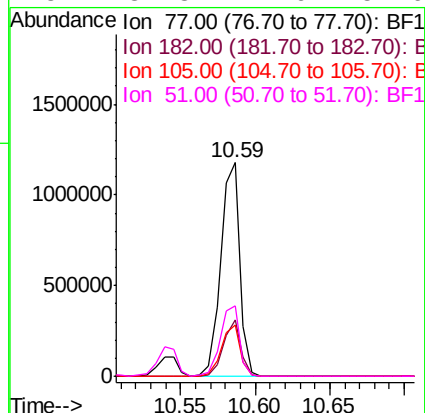
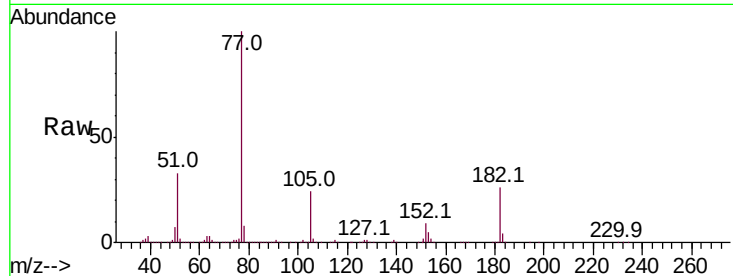
#63
Azobenzene
Concen: 39.109 ng
RT: 10.59 min Scan# 1445
Delta R.T. -0.00 min
Lab File: BF114285.D
Acq: 15 May 2019 15:15

Instrument :
BNA_F
ClientSampleId :
SOIL-COMPMS

Tot Ion	Ratio	Lower	Upper
77	100		
182	26.3	4.7	44.7
105	24.1	2.9	42.9
51	32.8	14.6	54.6

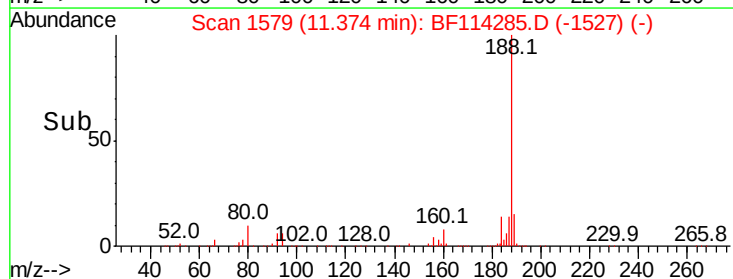
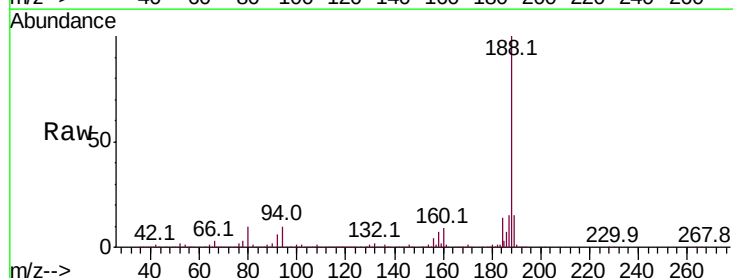
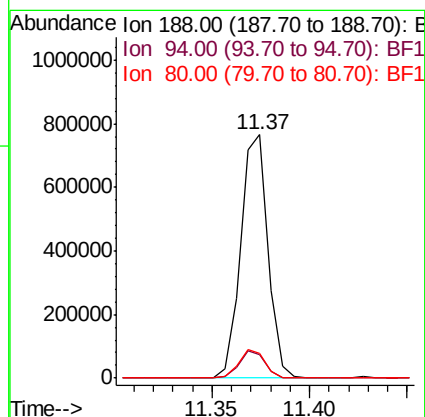
Manual Integrations
APPROVED

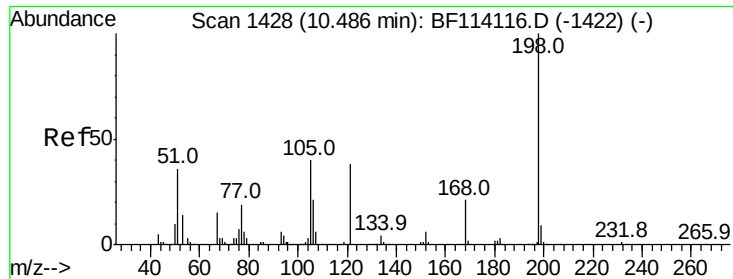
mohammad
5/16/2019 9:50:58 AM



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.37 min Scan# 1579
Delta R.T. 0.01 min
Lab File: BF114285.D
Acq: 15 May 2019 15:15

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.5	8.4	12.6
80	10.4	9.2	13.8





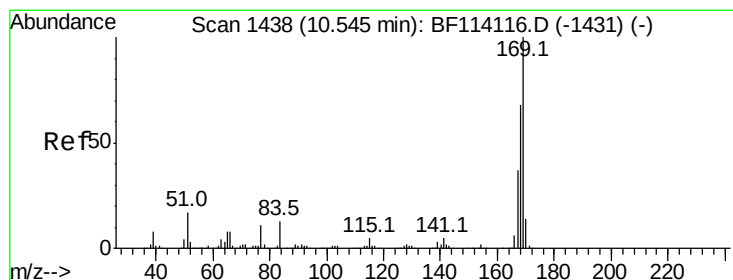
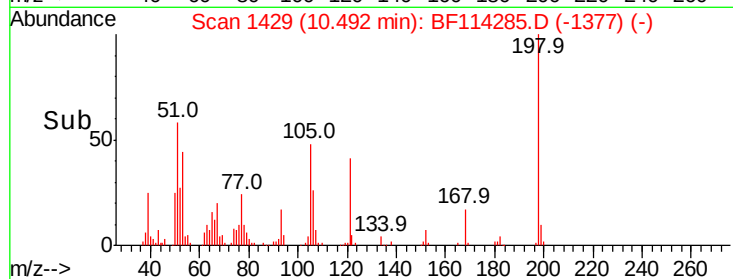
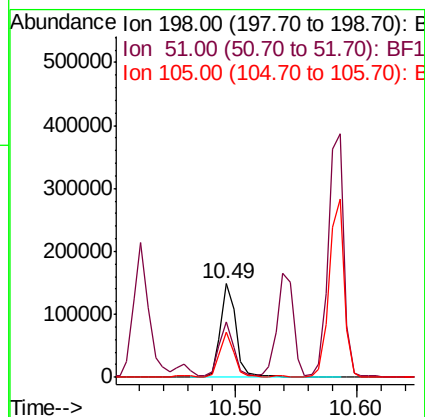
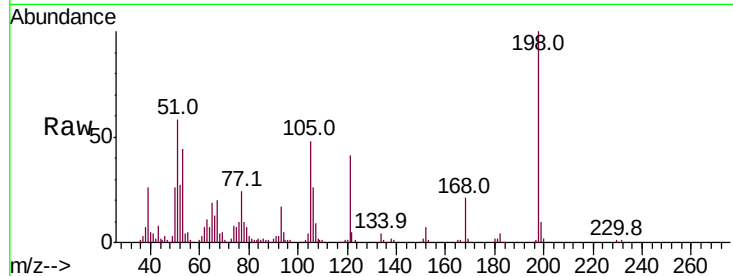
#65
 4,6-Dinitro-2-methylphenol
 Concen: 37.283 ng
 RT: 10.49 min Scan# 1429
 Delta R.T. 0.01 min
 Lab File: BF114285.D
 Acq: 15 May 2019 15:15

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-COMPMS

Tot Ion	Ratio	Resp	Lower	Upper
198	100	132171		
51	58.5	28.0	68.0	
105	47.6	21.1	61.1	

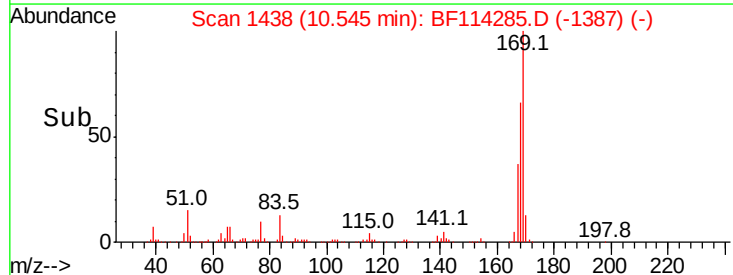
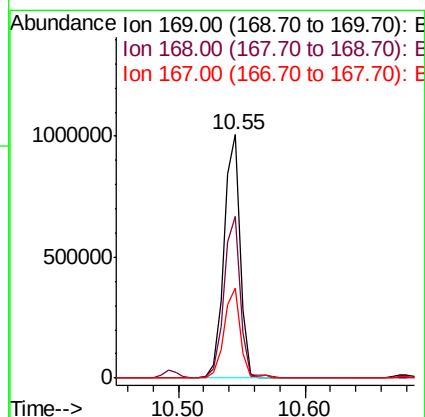
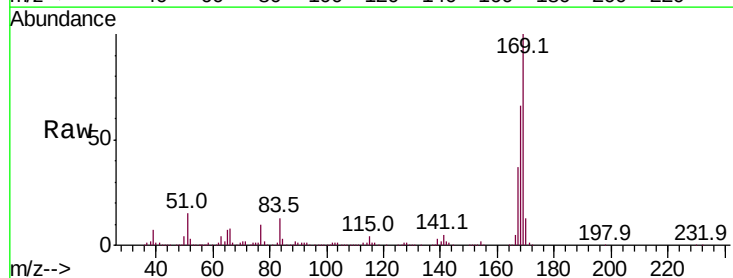
Manual Integrations
 APPROVED

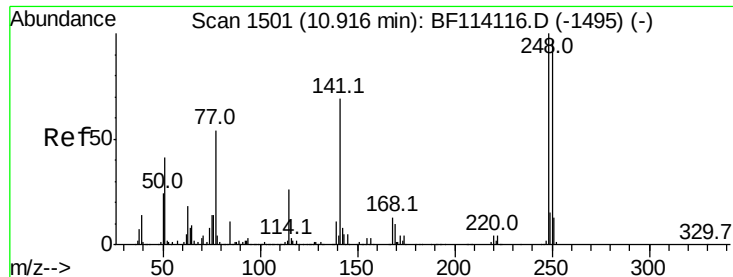
mohammad
 5/16/2019 9:50:58 AM



#66
 n-Nitrosodiphenylamine
 Concen: 40.143 ng
 RT: 10.55 min Scan# 1438
 Delta R.T. -0.00 min
 Lab File: BF114285.D
 Acq: 15 May 2019 15:15

Tgt Ion	Ratio	Resp	Lower	Upper
169	100	898852		
168	66.2	54.2	81.2	
167	36.8	29.8	44.8	





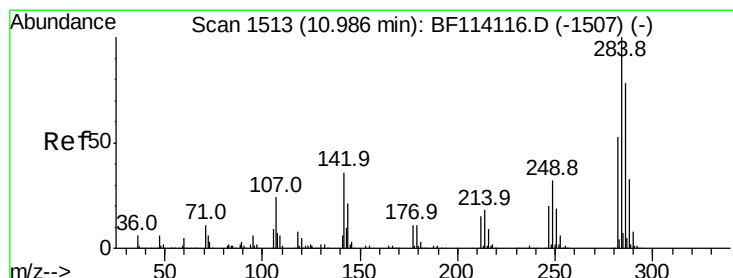
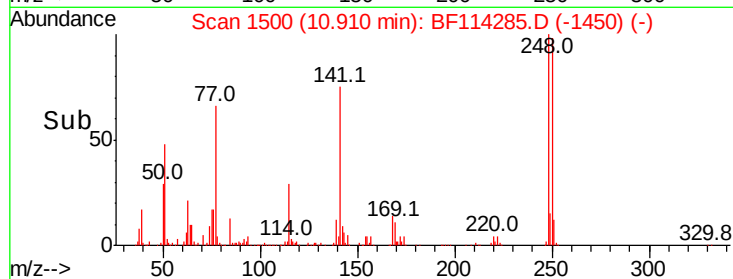
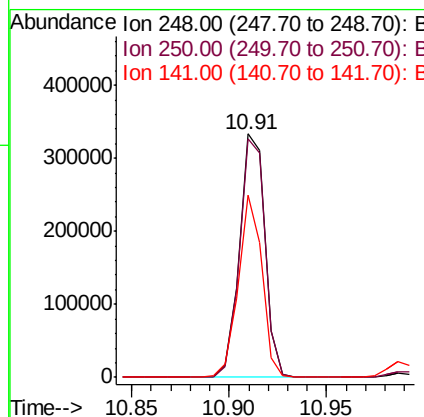
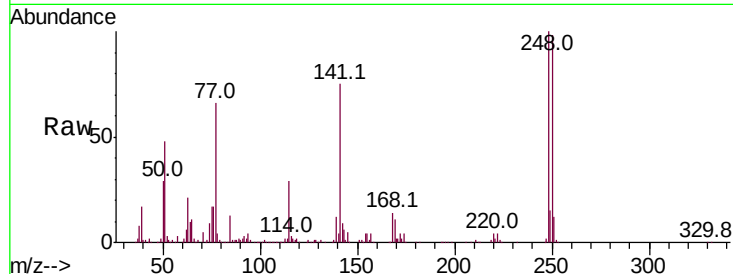
#67
4-Bromophenyl-phenylether
Concen: 37.086 ng
RT: 10.91 min Scan# 1500
Delta R.T. -0.01 min
Lab File: BF114285.D
Acq: 15 May 2019 15:15

Instrument :
BNA_F
ClientSampleId :
SOIL-COMPMS

Tot Ion	Ratio	Lower	Upper
248	100		
250	98.1	77.4	116.2
141	75.1	55.6	83.4

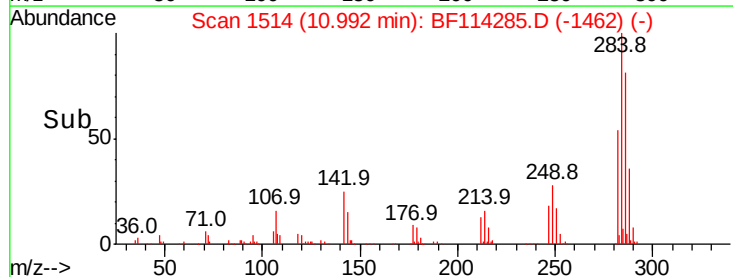
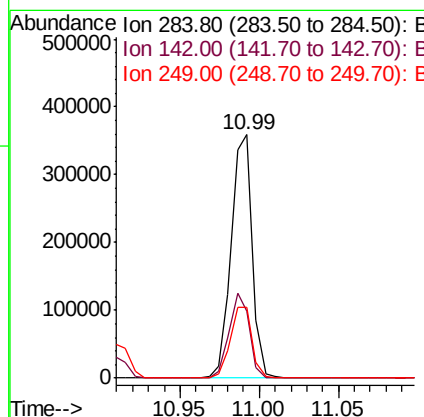
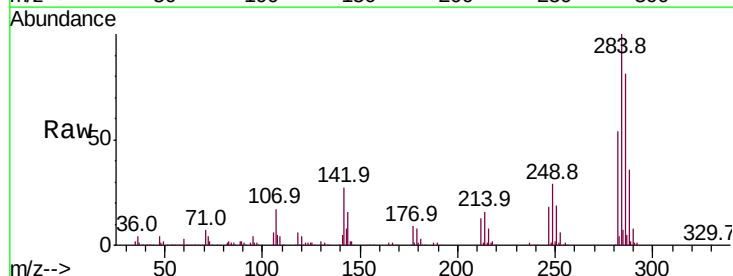
Manual Integrations
APPROVED

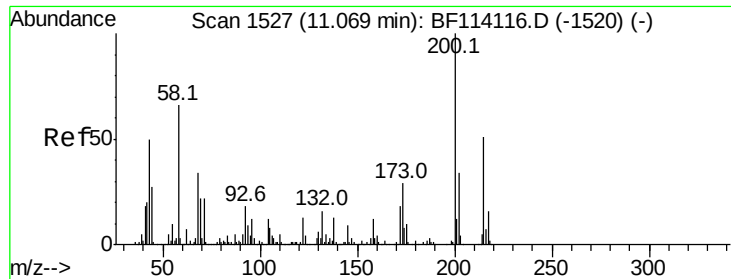
mohammad
5/16/2019 9:50:58 AM



#68
Hexachlorobenzene
Concen: 36.774 ng
RT: 10.99 min Scan# 1514
Delta R.T. 0.01 min
Lab File: BF114285.D
Acq: 15 May 2019 15:15

Tgt Ion	Ratio	Lower	Upper
284	100		
142	27.3	28.4	42.6#
249	29.1	25.2	37.8





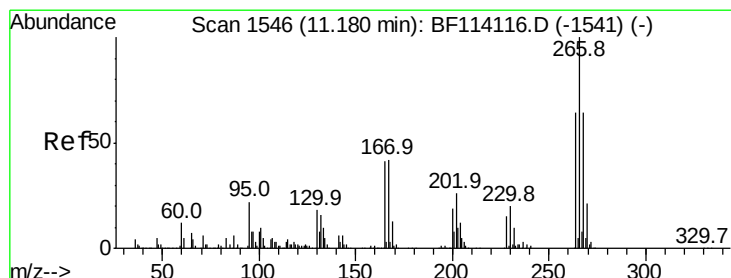
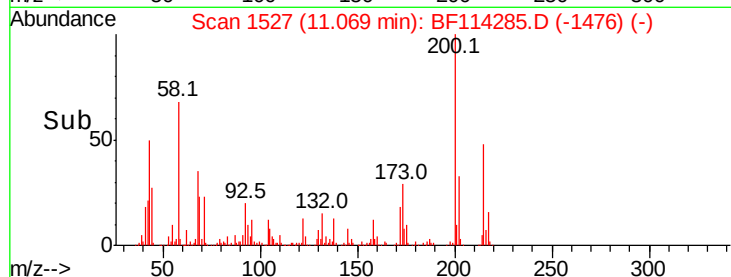
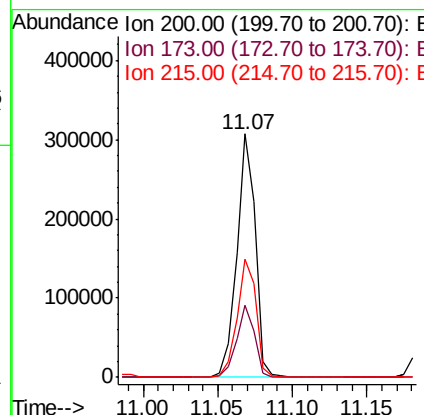
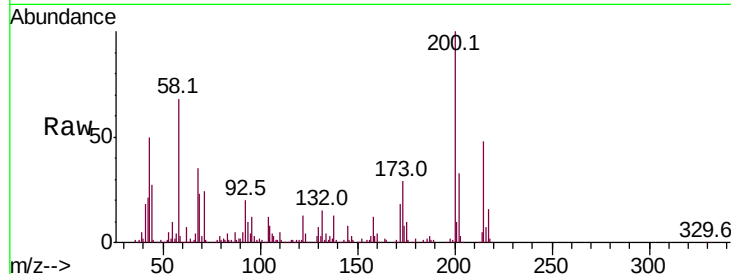
#69
Atrazine
Concen: 38.730 ng
RT: 11.07 min Scan# 1527
Delta R.T. -0.00 min
Lab File: BF114285.D
Acq: 15 May 2019 15:15

Instrument :
BNA_F
ClientSampleId :
SOIL-COMPMS

Tot Ion	Ratio	Resp	Lower	Upper
200	100	269873		
173	29.5	8.9	48.9	
215	48.3	30.7	70.7	

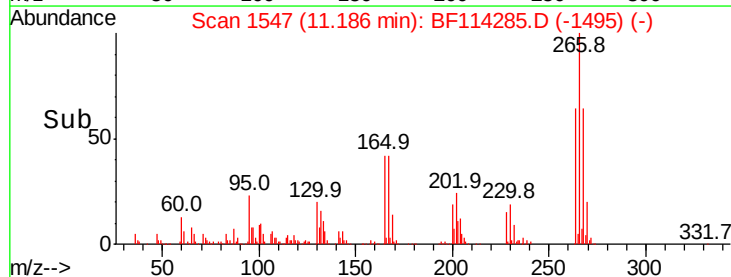
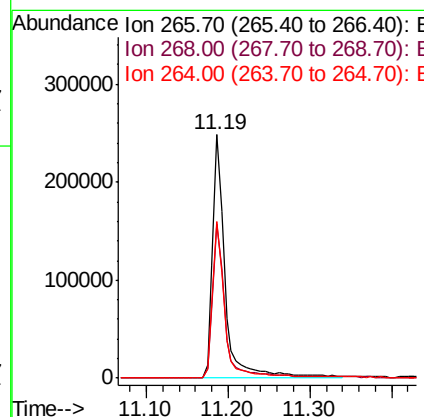
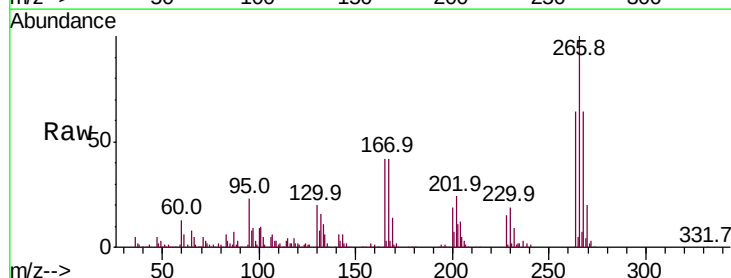
Manual Integrations
APPROVED

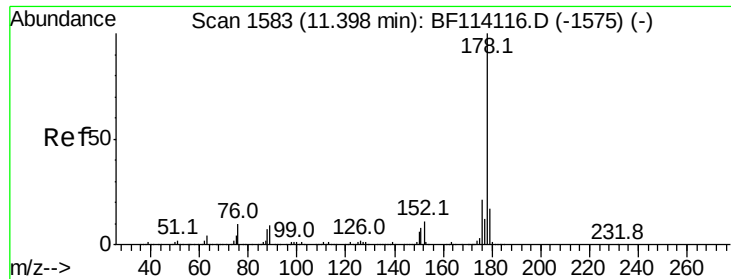
mohammad
5/16/2019 9:50:58 AM



#70
Pentachlorophenol
Concen: 63.100 ng
RT: 11.19 min Scan# 1547
Delta R.T. 0.01 min
Lab File: BF114285.D
Acq: 15 May 2019 15:15

Tgt Ion	Ratio	Resp	Lower	Upper
266	100	268798		
268	63.5	51.1	76.7	
264	64.4	51.1	76.7	





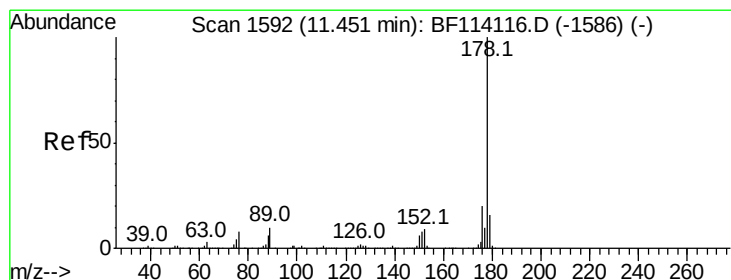
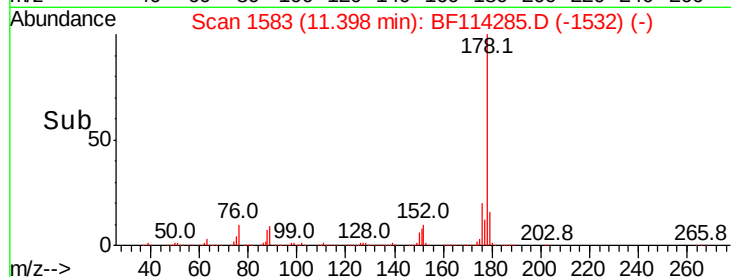
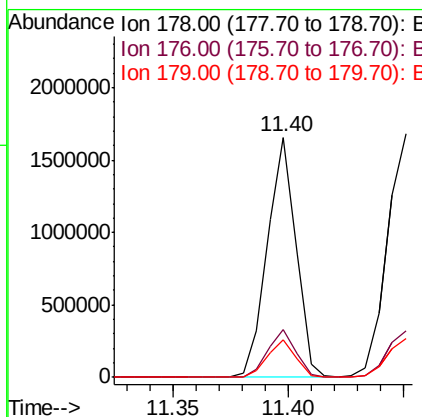
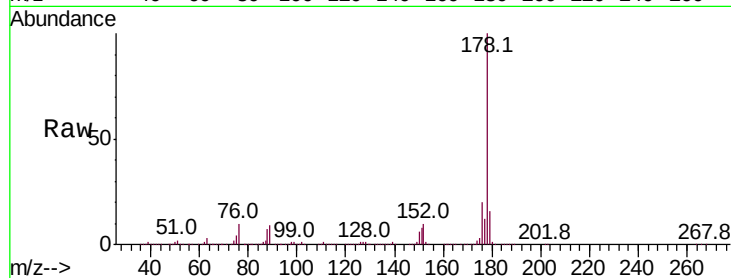
#71
Phenanthrene
Concen: 39.892 ng
RT: 11.40 min Scan# 1583
Delta R.T. -0.00 min
Lab File: BF114285.D
Acq: 15 May 2019 15:15

Instrument :
BNA_F
ClientSampleId :
SOIL-COMPMS

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.8	16.4	24.6
179	15.7	13.2	19.8

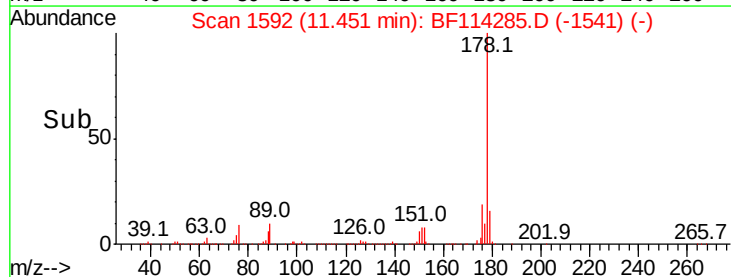
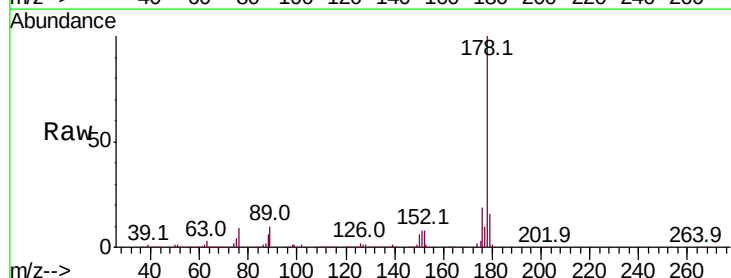
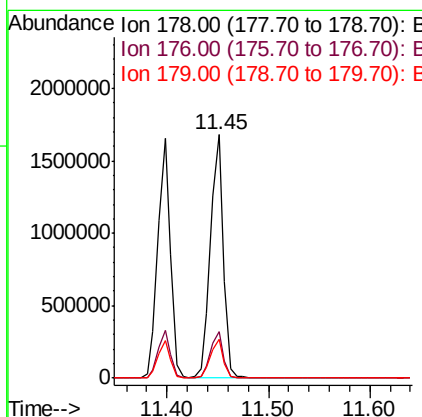
Manual Integrations
APPROVED

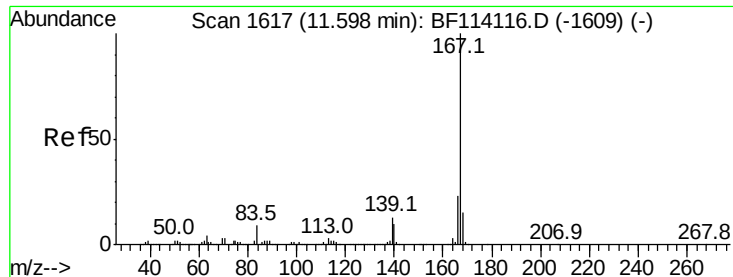
mohammad
5/16/2019 9:50:58 AM



#72
Anthracene
Concen: 41.428 ng
RT: 11.45 min Scan# 1592
Delta R.T. -0.00 min
Lab File: BF114285.D
Acq: 15 May 2019 15:15

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.8	23.8
179	16.0	13.0	19.4





#73

Carbazole

Concen: 41.517 ng

RT: 11.60 min Scan# 1618

Delta R.T. 0.01 min

Lab File: BF114285.D

Acq: 15 May 2019 15:15

Instrument :

BNA_F

ClientSampleId :

SOIL-COMPMS

Tot Ion:167 Resp: 1427284

Ion Ratio Lower Upper

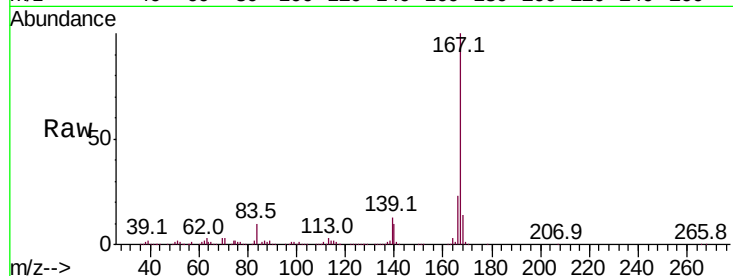
167 100

166 22.6 18.2 27.2

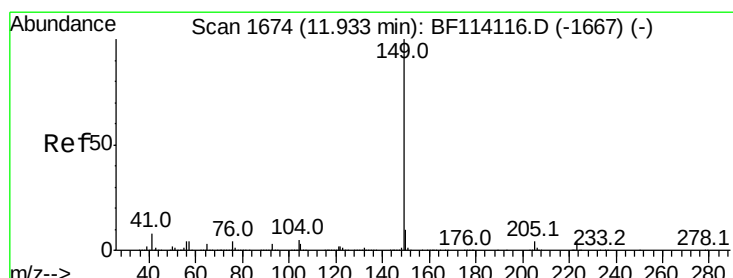
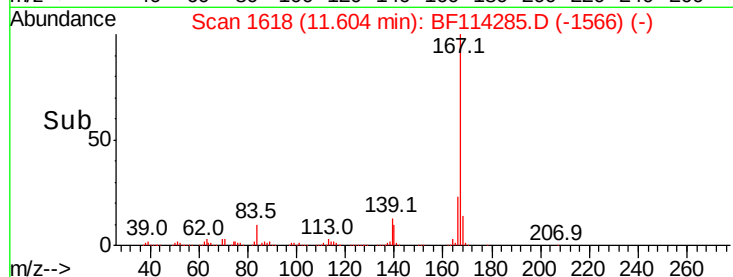
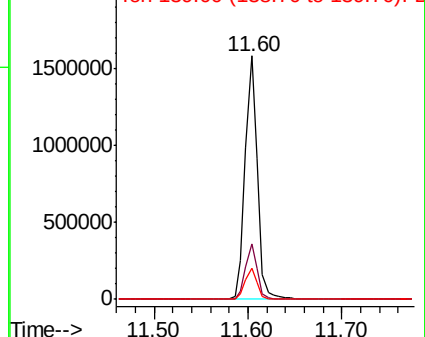
139 12.9 10.6 16.0

Manual Integrations
APPROVED

mohammad
5/16/2019 9:50:58 AM



Abundance Ion 167.00 (166.70 to 167.70): E
Ion 166.00 (165.70 to 166.70): E
Ion 139.00 (138.70 to 139.70): E



#74

Di-n-butylphthalate

Concen: 41.984 ng

RT: 11.93 min Scan# 1673

Delta R.T. -0.01 min

Lab File: BF114285.D

Acq: 15 May 2019 15:15

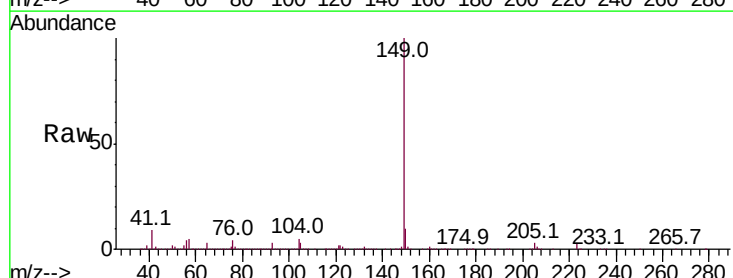
Tgt Ion:149 Resp: 1662828

Ion Ratio Lower Upper

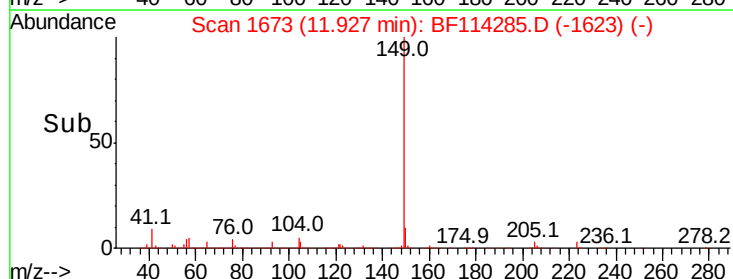
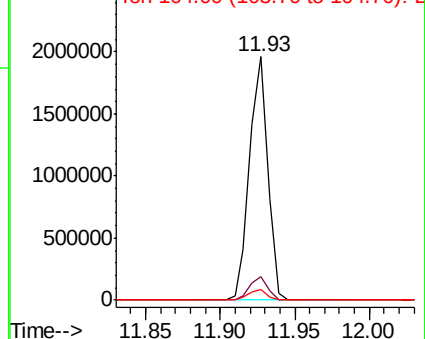
149 100

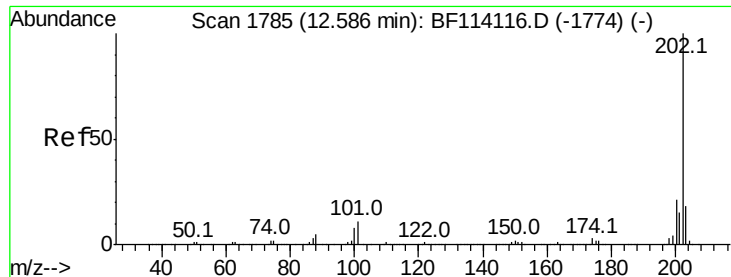
150 9.6 7.7 11.5

104 4.6 3.6 5.4



Abundance Ion 149.00 (148.70 to 149.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 104.00 (103.70 to 104.70): E





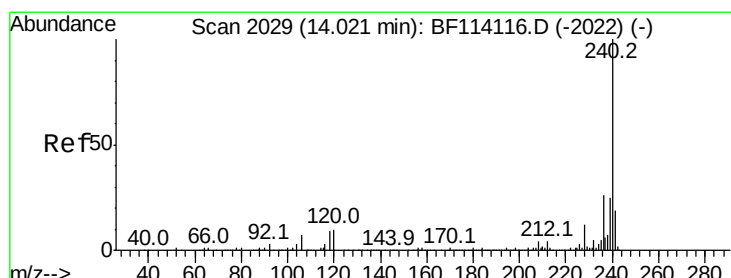
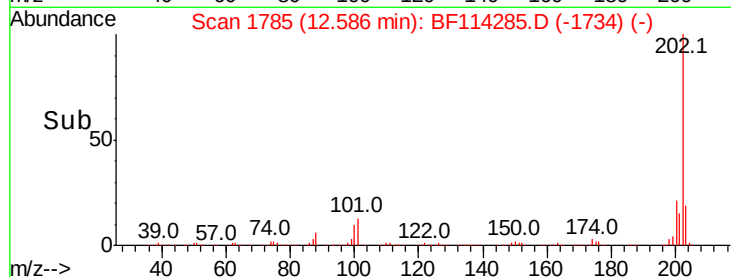
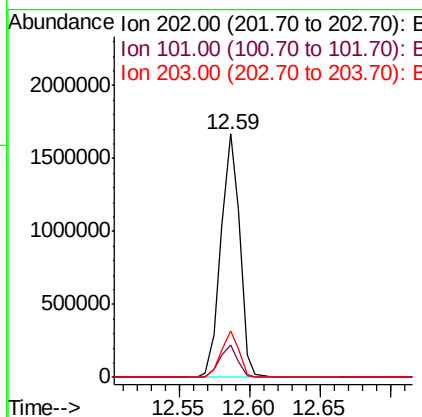
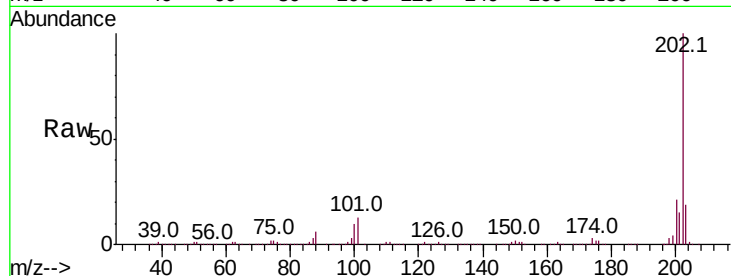
#75
 Fluoranthene
 Concen: 40.059 ng
 RT: 12.59 min Scan# 1785
 Delta R.T. -0.00 min
 Lab File: BF114285.D
 Acq: 15 May 2019 15:15

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-COMPMS

Tot Ion	Ratio	Resp	Lower	Upper
202	100	1548379		
101	13.3		0.0	31.0
203	19.1		0.0	38.4

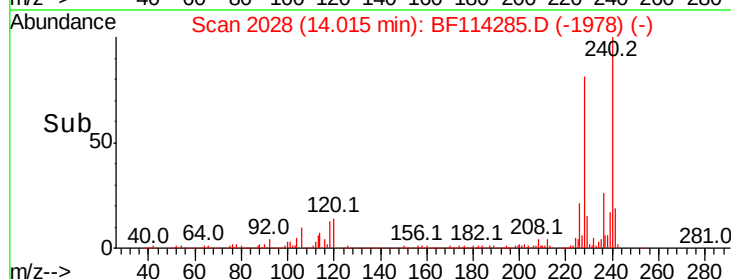
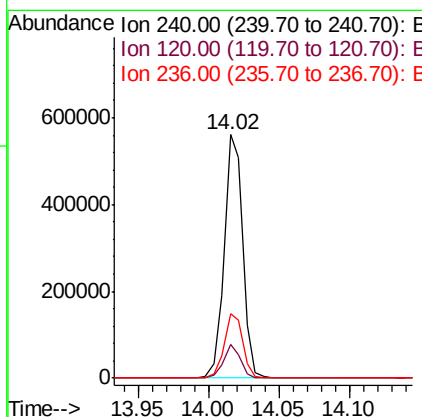
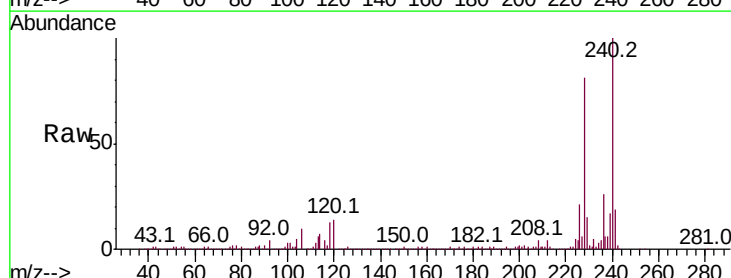
Manual Integrations
 APPROVED

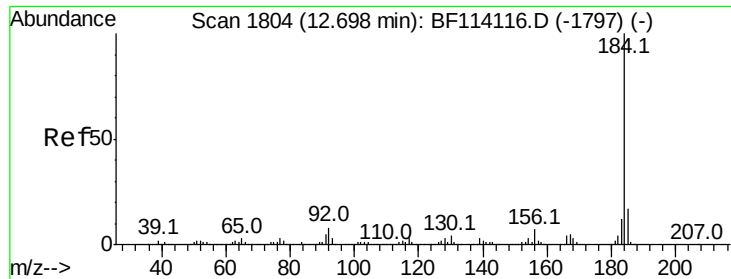
mohammad
 5/16/2019 9:50:58 AM



#76
 Chrysene-d12
 Concen: 20.000 ng
 RT: 14.02 min Scan# 2028
 Delta R.T. -0.01 min
 Lab File: BF114285.D
 Acq: 15 May 2019 15:15

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	509122		
120	14.1		8.3	12.5#
236	26.3		20.8	31.2





#77

Benzidine

Concen: 22.529 ng

RT: 12.70 min Scan# 1805

Delta R.T. 0.01 min

Lab File: BF114285.D

Acq: 15 May 2019 15:15

Instrument :

BNA_F

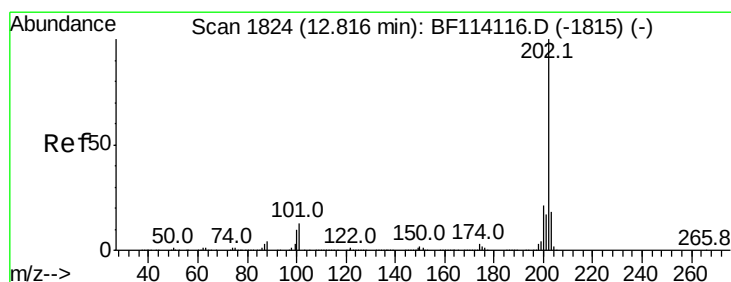
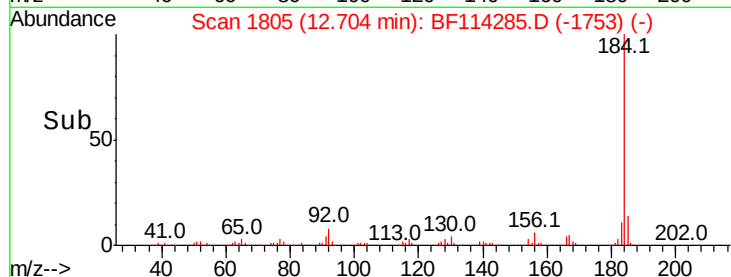
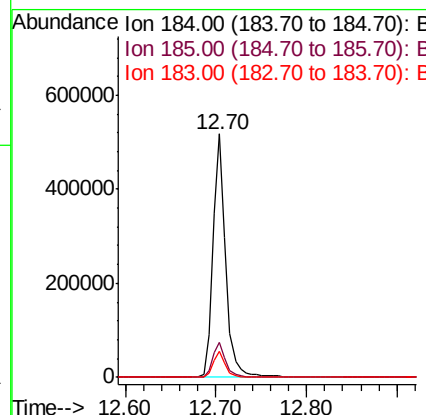
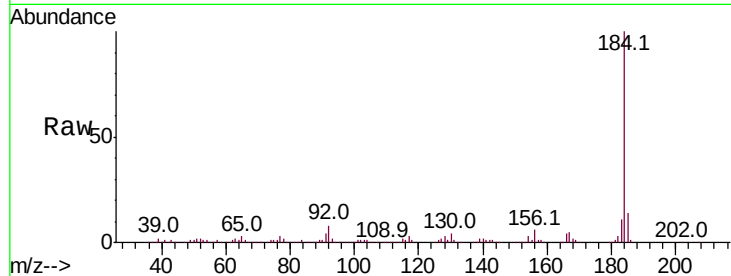
ClientSampleId :

SOIL-COMPMS

Tot Ion	Ratio	Lower	Upper
184	100		
185	14.3	13.6	20.4
183	10.9	9.2	13.8

Manual Integrations
APPROVED

mohammad
5/16/2019 9:50:58 AM



#78

Pyrene

Concen: 38.949 ng

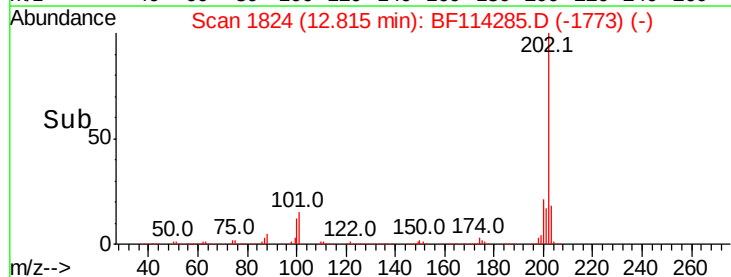
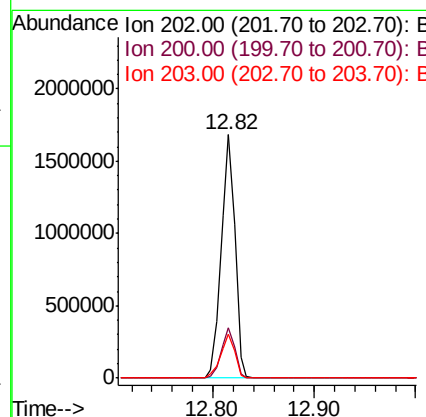
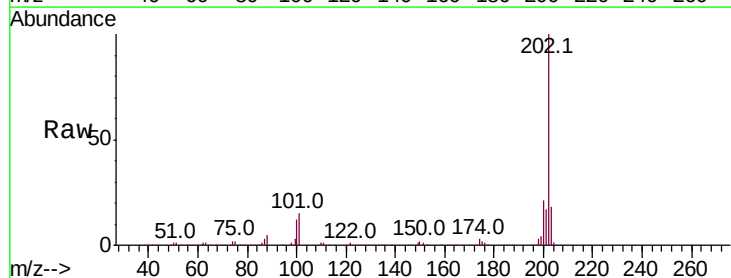
RT: 12.82 min Scan# 1824

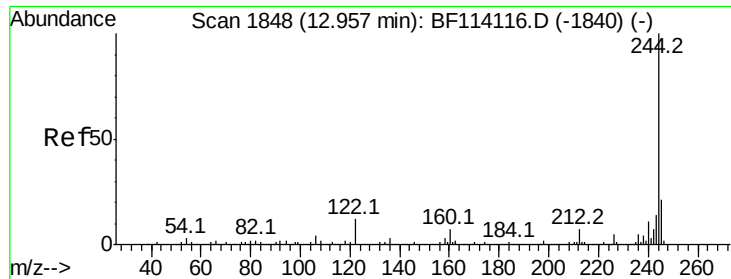
Delta R.T. -0.00 min

Lab File: BF114285.D

Acq: 15 May 2019 15:15

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.7	16.9	25.3
203	18.1	14.5	21.7





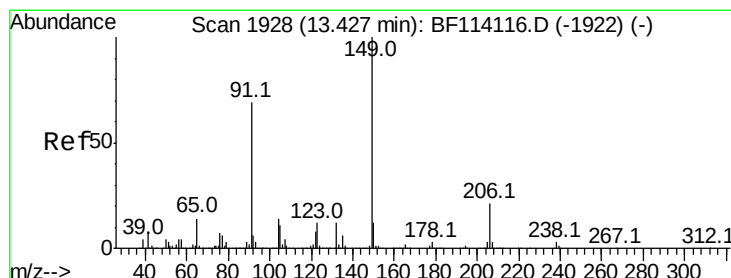
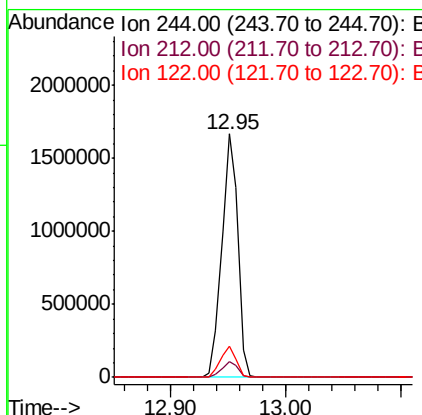
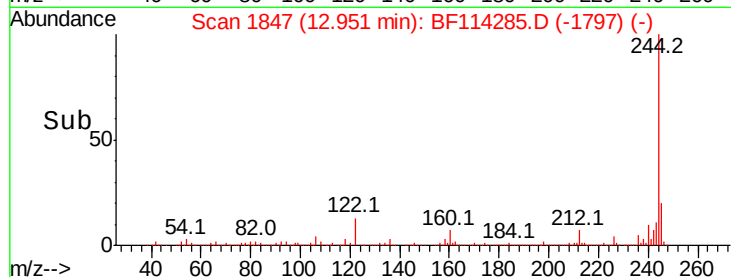
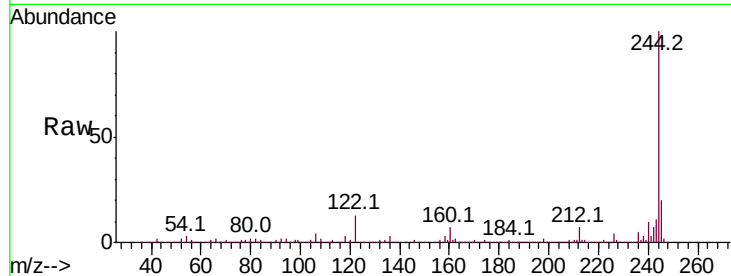
#79
 Terphenyl-d14
 Concen: 64.882 ng
 RT: 12.95 min Scan# 1847
 Delta R.T. -0.01 min
 Lab File: BF114285.D
 Acq: 15 May 2019 15:15

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-COMPMS

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.8	8.6
122	12.7	9.4	14.2

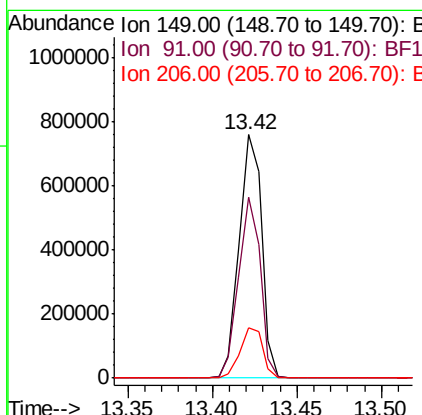
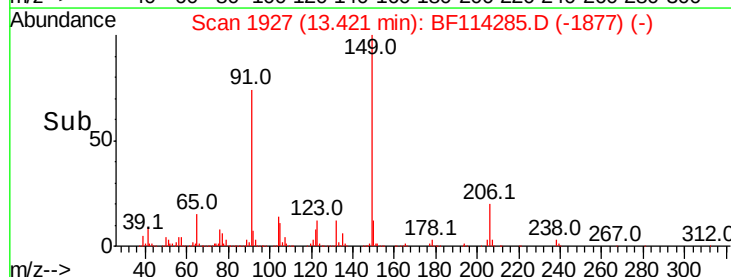
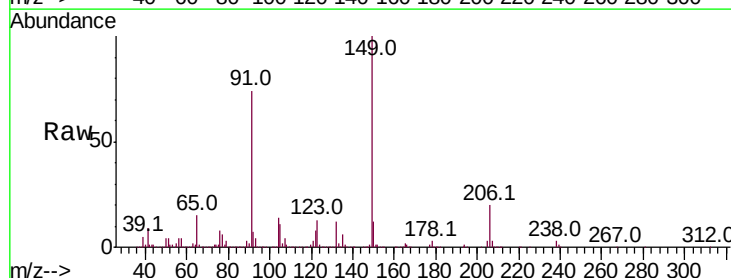
Manual Integrations
 APPROVED

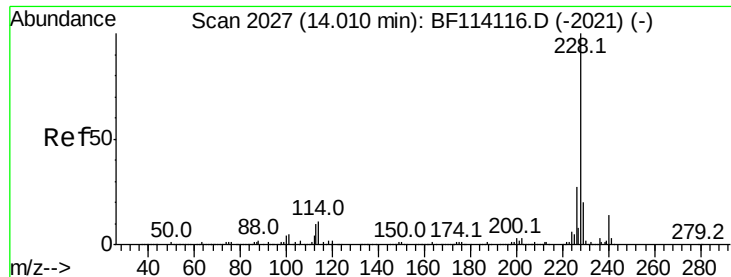
mohammad
 5/16/2019 9:50:58 AM



#80
 Butylbenzylphthalate
 Concen: 41.104 ng
 RT: 13.42 min Scan# 1927
 Delta R.T. -0.01 min
 Lab File: BF114285.D
 Acq: 15 May 2019 15:15

Tgt Ion	Ratio	Lower	Upper
149	100		
91	74.1	55.0	82.4
206	20.4	16.9	25.3





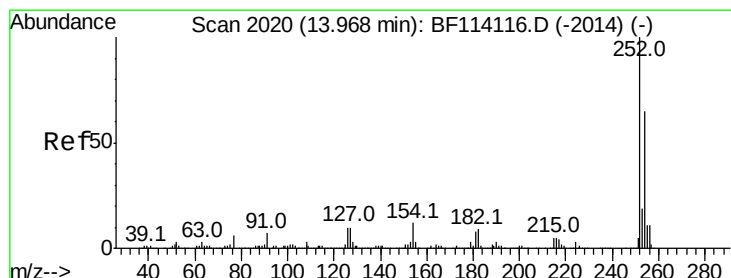
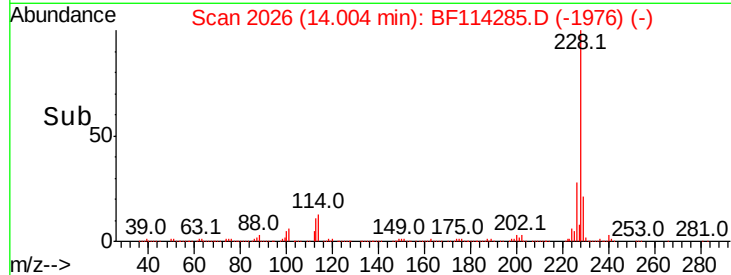
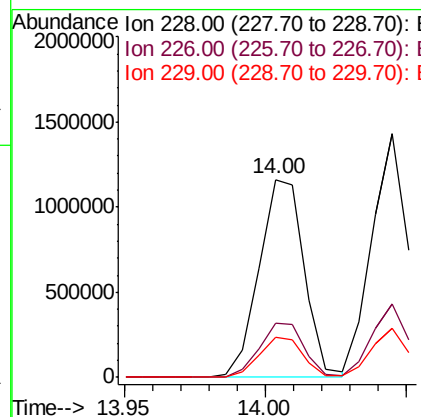
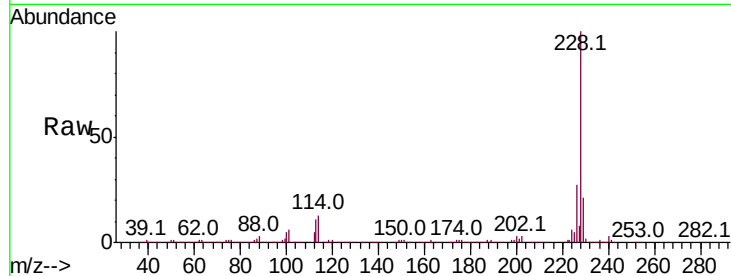
#81
Benzo(a)anthracene
Concen: 39.083 ng
RT: 14.00 min Scan# 2026
Delta R.T. -0.01 min
Lab File: BF114285.D
Acq: 15 May 2019 15:15

Instrument :
BNA_F
ClientSampleId :
SOIL-COMPMS

Tot Ion	Ratio	Lower	Upper
228	100		
226	27.5	22.2	33.2
229	20.5	16.4	24.6

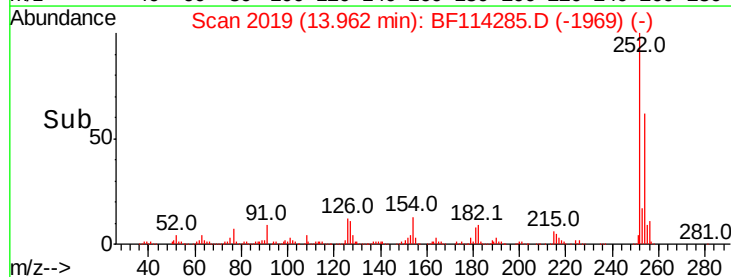
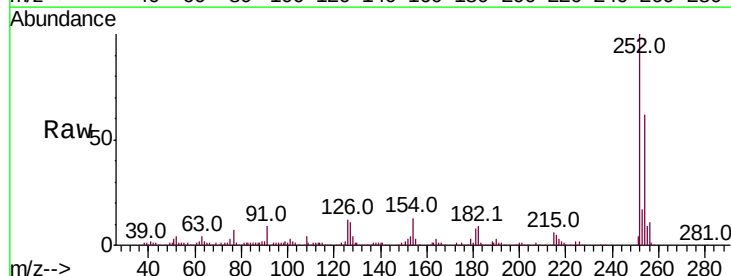
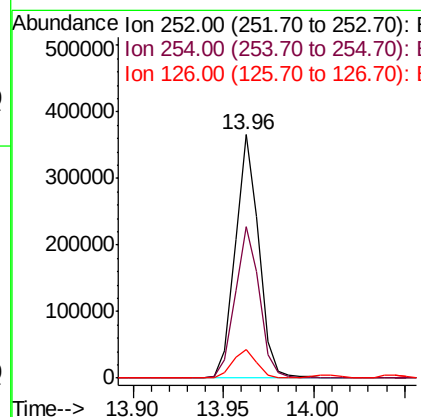
Manual Integrations
APPROVED

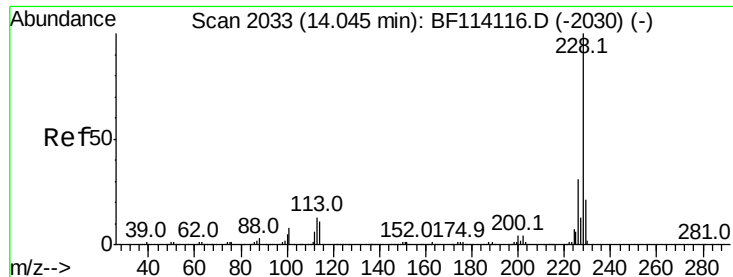
mohammad
5/16/2019 9:50:58 AM



#82
3,3'-Dichlorobenzidine
Concen: 25.881 ng
RT: 13.96 min Scan# 2019
Delta R.T. -0.01 min
Lab File: BF114285.D
Acq: 15 May 2019 15:15

Tgt Ion	Ratio	Lower	Upper
252	100		
254	62.3	51.9	77.9
126	11.6	7.9	11.9





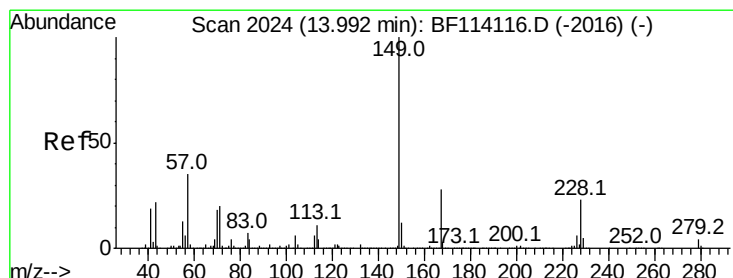
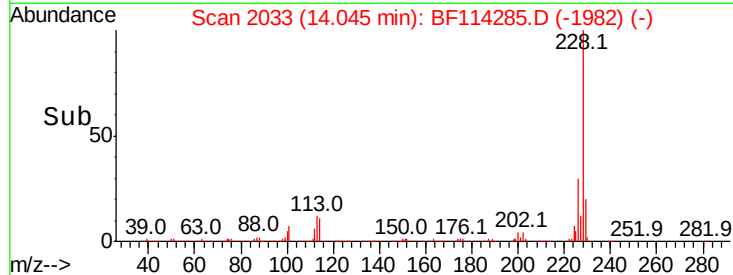
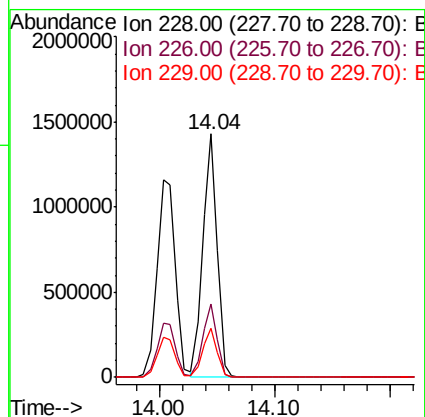
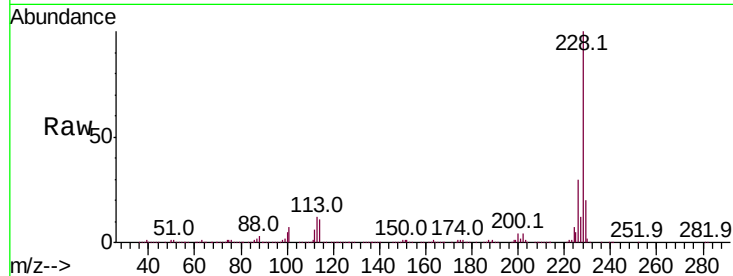
#83
 Chrysene
 Concen: 39.006 ng
 RT: 14.04 min Scan# 2033
 Delta R.T. -0.00 min
 Lab File: BF114285.D
 Acq: 15 May 2019 15:15

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-COMPMS

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.4	25.0	37.6
229	20.1	17.0	25.6

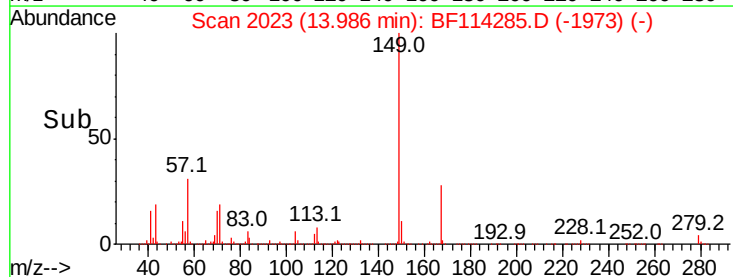
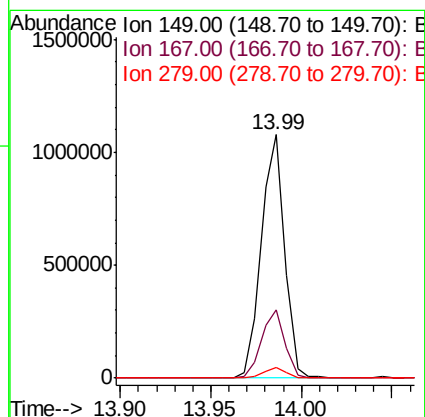
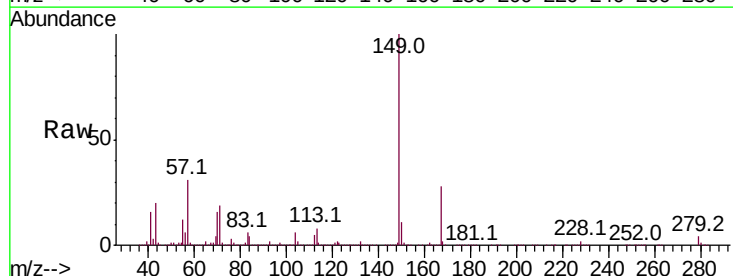
Manual Integrations
 APPROVED

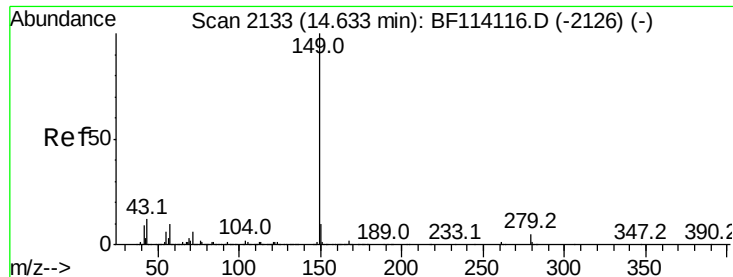
mohammad
 5/16/2019 9:50:58 AM



#84
 Bis(2-ethylhexyl)phthalate
 Concen: 42.687 ng
 RT: 13.99 min Scan# 2023
 Delta R.T. -0.01 min
 Lab File: BF114285.D
 Acq: 15 May 2019 15:15

Tgt Ion	Ratio	Lower	Upper
149	100		
167	27.9	22.6	33.8
279	4.1	3.0	4.6





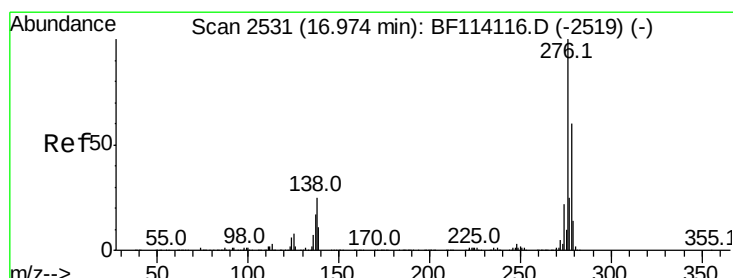
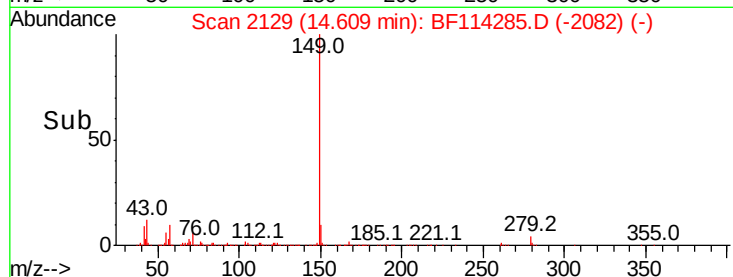
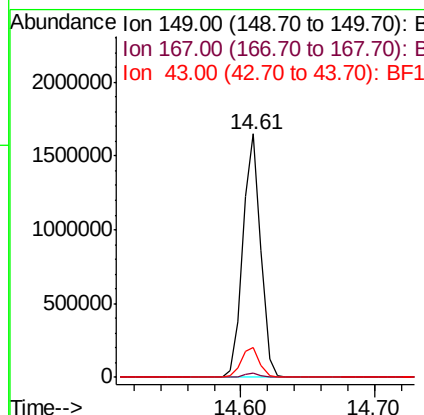
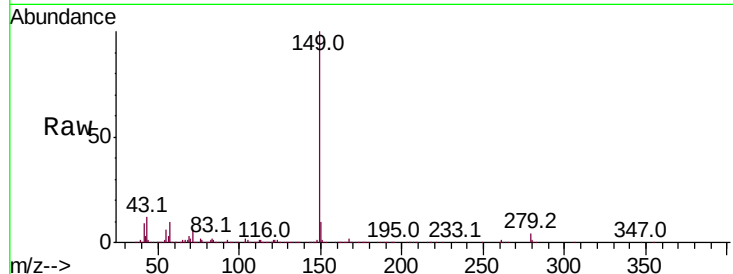
#85
Di-n-octyl phthalate
Concen: 41.671 ng
RT: 14.61 min Scan# 2129
Delta R.T. -0.02 min
Lab File: BF114285.D
Acq: 15 May 2019 15:15

Instrument :
BNA_F
ClientSampleId :
SOIL-COMPMS

Tot Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	12.5	10.1	15.1

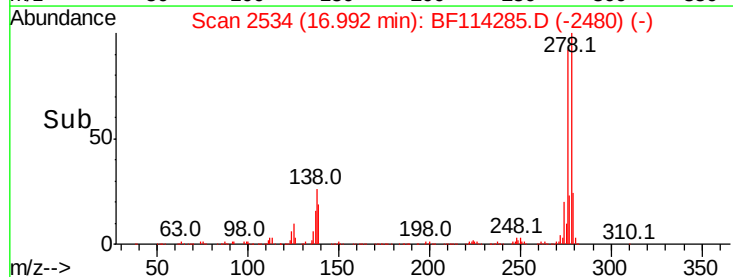
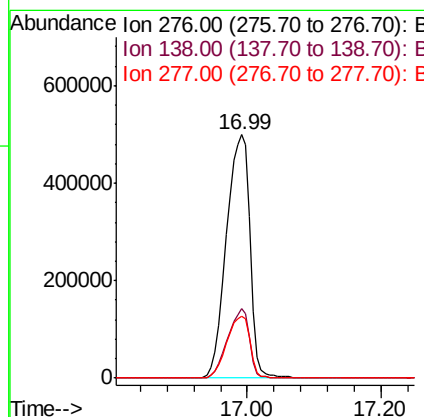
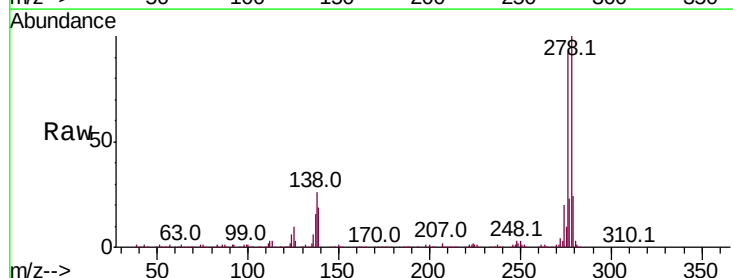
Manual Integrations
APPROVED

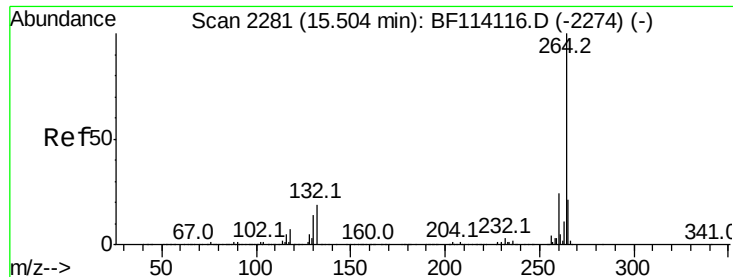
mohammad
5/16/2019 9:50:58 AM



#86
Indeno(1,2,3-cd)pyrene
Concen: 43.798 ng
RT: 16.99 min Scan# 2534
Delta R.T. 0.02 min
Lab File: BF114285.D
Acq: 15 May 2019 15:15

Tgt Ion	Ratio	Lower	Upper
276	100		
138	26.5	20.2	30.2
277	25.1	20.0	30.0





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.50 min Scan# 2280

Delta R.T. -0.01 min

Lab File: BF114285.D

Acq: 15 May 2019 15:15

Instrument :

BNA_F

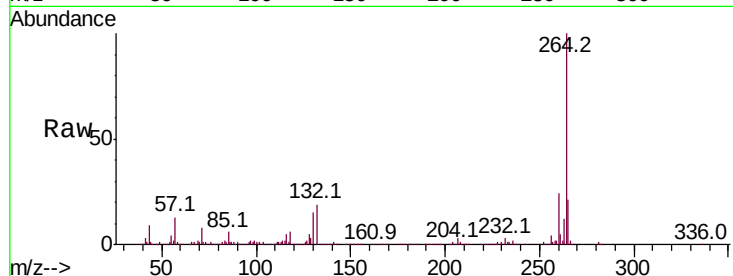
ClientSampleId :

SOIL-COMPMS

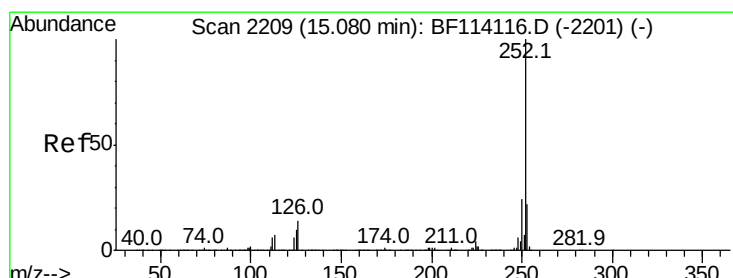
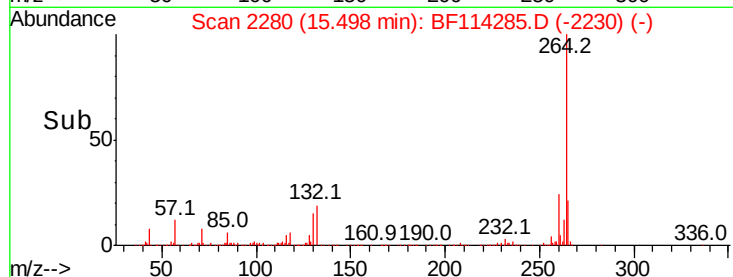
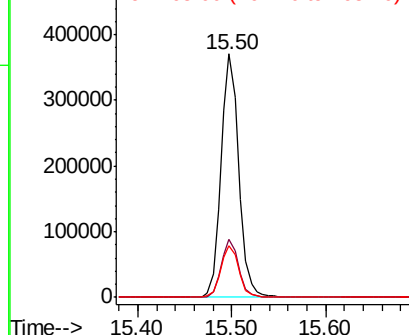
Tot Ion:	264	Resp:	490101
Ion Ratio	Lower	Upper	
264	100		
260	23.8	19.4	29.0
265	21.3	16.9	25.3

Manual Integrations
APPROVED

mohammad
5/16/2019 9:50:58 AM



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E



#88

Benzo(b)fluoranthene

Concen: 38.864 ng

RT: 15.07 min Scan# 2208

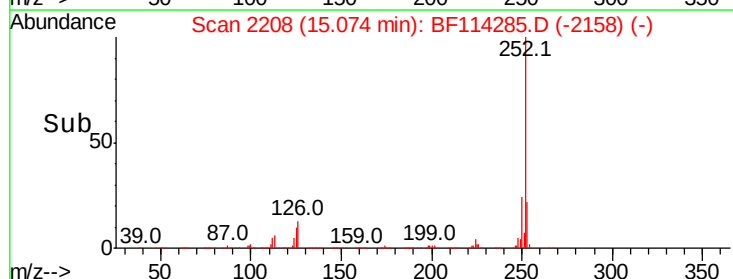
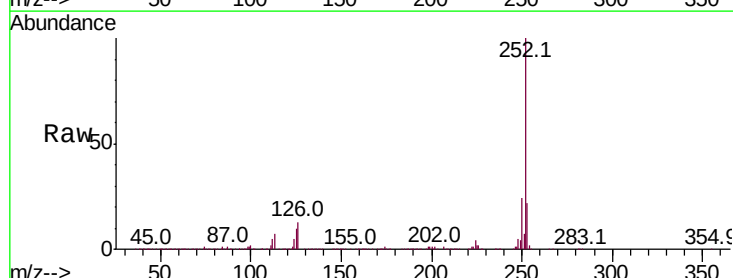
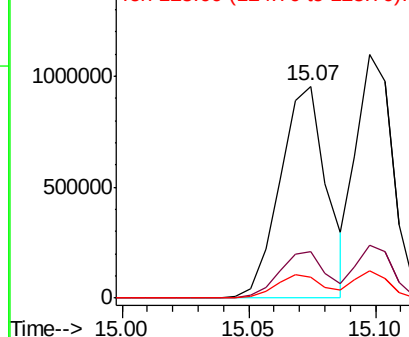
Delta R.T. -0.01 min

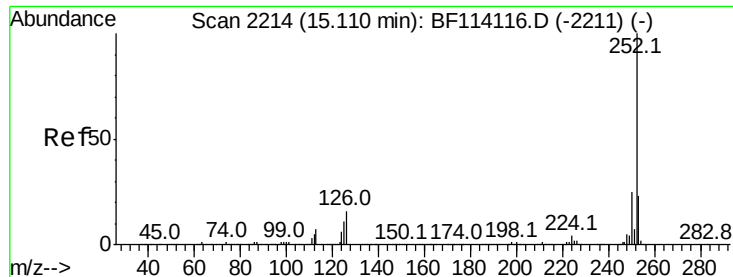
Lab File: BF114285.D

Acq: 15 May 2019 15:15

Tgt Ion:	252	Resp:	1220279
Ion Ratio	Lower	Upper	
252	100		
253	22.1	17.8	26.8
125	10.1	8.3	12.5

Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





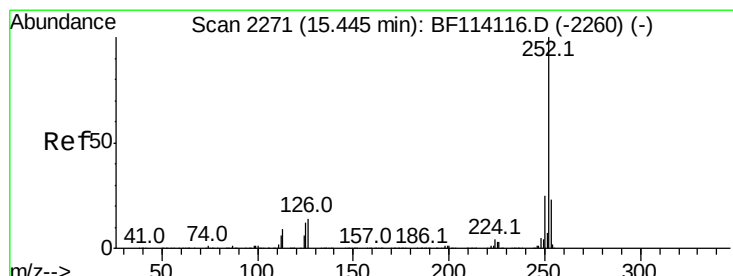
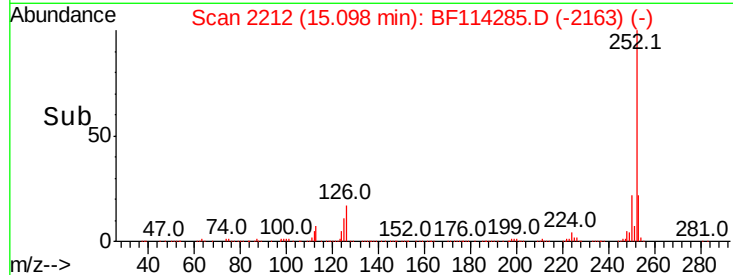
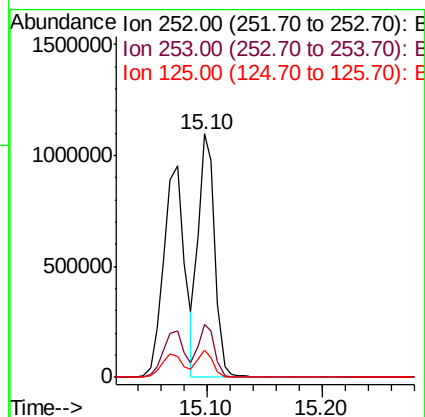
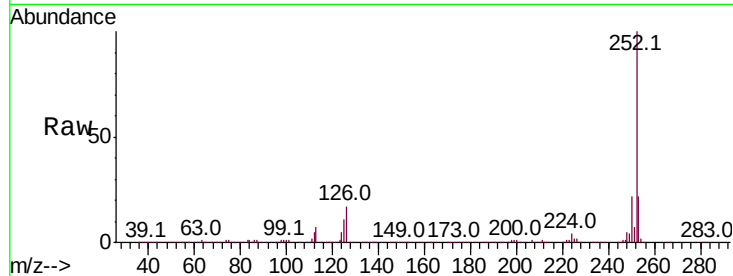
#89
Benzo(k)fluoranthene
Concen: 38.211 ng
RT: 15.10 min Scan# 2212
Delta R.T. -0.01 min
Lab File: BF114285.D
Acq: 15 May 2019 15:15

Instrument :
BNA_F
ClientSampleId :
SOIL-COMPMS

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.9	18.2	27.2
125	11.2	8.6	13.0

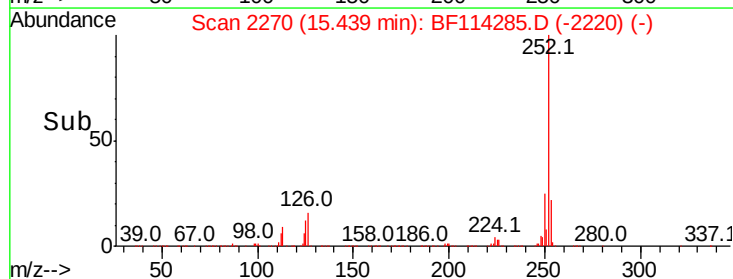
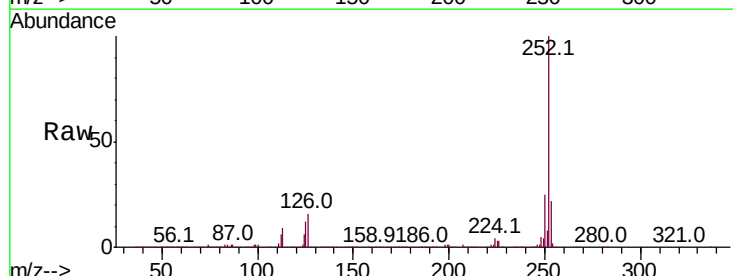
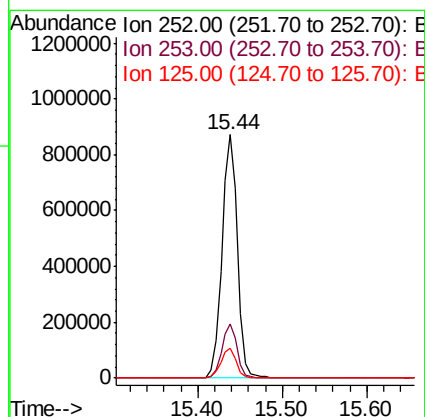
Manual Integrations
APPROVED

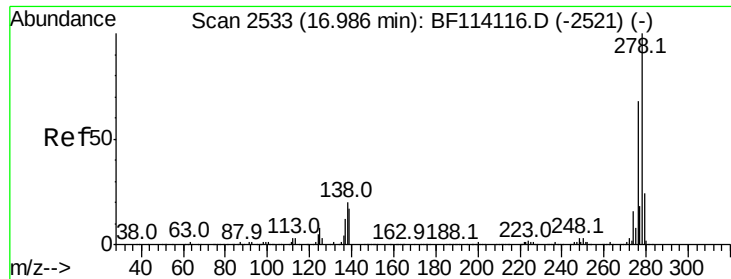
mohammad
5/16/2019 9:50:58 AM



#90
Benzo(a)pyrene
Concen: 40.361 ng
RT: 15.44 min Scan# 2270
Delta R.T. -0.01 min
Lab File: BF114285.D
Acq: 15 May 2019 15:15

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	18.1	27.1
125	12.3	9.5	14.3





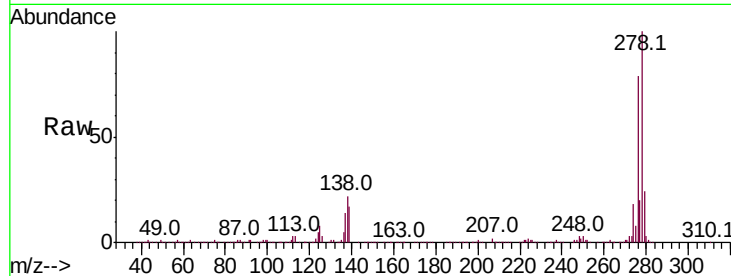
#91
Dibenzo(a,h)anthracene
Concen: 44.830 ng
RT: 17.00 min Scan# 2535
Delta R.T. 0.01 min
Lab File: BF114285.D
Acq: 15 May 2019 15:15

Instrument :
BNA_F
ClientSampleId :
SOIL-COMPMS

Tot Ion	Ratio	Lower	Upper
278	100		
139	16.7	13.5	20.3
279	24.2	19.0	28.6

Manual Integrations
APPROVED

mohammad
5/16/2019 9:50:58 AM

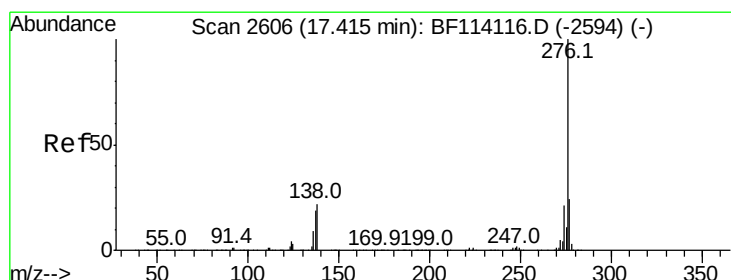
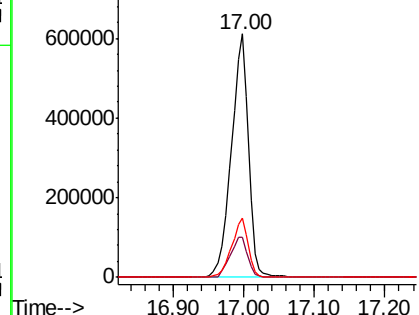
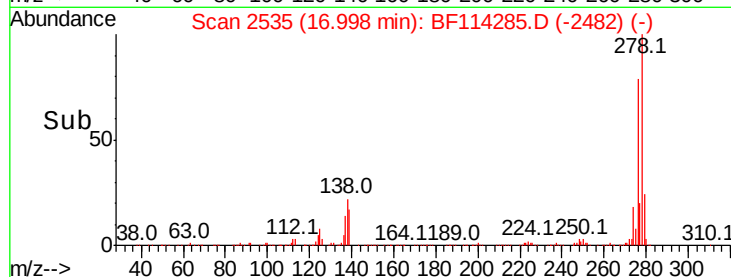


Abundance

Ion 278.00 (277.70 to 278.70): E

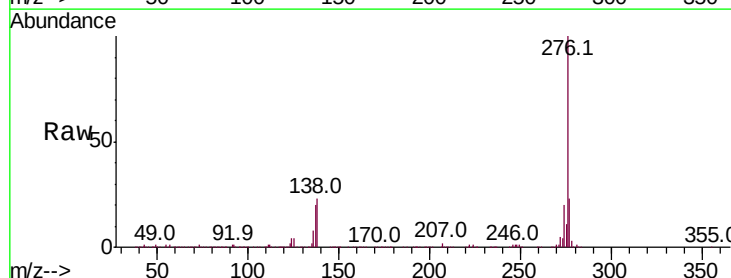
Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#92
Benzo(g,h,i)perylene
Concen: 48.096 ng
RT: 17.43 min Scan# 2609
Delta R.T. 0.02 min
Lab File: BF114285.D
Acq: 15 May 2019 15:15

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.0	19.0	28.4
138	23.0	17.8	26.6



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

