

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112321\
 Data File : BN017554.D
 Acq On : 22 Nov 2021 20:46
 Operator : CG/JU
 Sample : M4801-01
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SITE-1-DRILL-CUTTINGS-20211119

Quant Time: Nov 23 02:40:46 2021
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\8270-SIM-BN111921.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 19 14:57:14 2021
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 11/23/2021
 Supervised By :mohammad ahmed 11/24/2021

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.865	152	30443	0.400	ng	0.00
7) Naphthalene-d8	10.649	136	137822	0.400	ng	#-0.01
13) Acenaphthene-d10	14.486	164	73831	0.400	ng	0.00
19) Phenanthrene-d10	17.226	188	140255	0.400	ng	0.00
29) Chrysene-d12	21.409	240	120126	0.400	ng	# 0.00
35) Perylene-d12	23.780	264	106865	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.467	112	28487	0.378	ng	0.02
5) Phenol-d6	7.035	99	33412	0.393	ng	0.00
8) Nitrobenzene-d5	9.001	82	33634	0.371	ng	-0.01
11) 2-Methylnaphthalene-d10	12.240	152	82503	0.359	ng	0.00
14) 2,4,6-Tribromophenol	15.970	330	6121	0.270	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	99261	0.361	ng	0.00
27) Fluoranthene-d10	19.258	212	152809	0.354	ng	0.00
31) Terphenyl-d14	19.853	244	101065	0.383	ng	0.00
Target Compounds						Qvalue
24) Pentachlorophenol	16.885	266	252	0.207	ng	# 89
25) Phenanthrene	17.262	178	53407m	0.136	ng	
28) Fluoranthene	19.287	202	99457	0.229	ng	100
30) Pyrene	19.650	202	84121	0.207	ng	# 95
32) Benzo(a)anthracene	21.398	228	46198	0.124	ng	96
33) Chrysene	21.452	228	42280	0.106	ng	97
34) Bis(2-ethylhexyl)phtha...	21.335	149	54884	0.373	ng	# 99
36) Indeno(1,2,3-cd)pyrene	26.220	276	19835	0.061	ng	99
37) Benzo(b)fluoranthene	23.061	252	55861	0.144	ng	# 89
38) Benzo(k)fluoranthene	23.106	252	21439m	0.057	ng	
39) Benzo(a)pyrene	23.674	252	33956	0.106	ng	# 89
41) Benzo(g,h,i)perylene	26.970	276	20407	0.073	ng	# 93

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

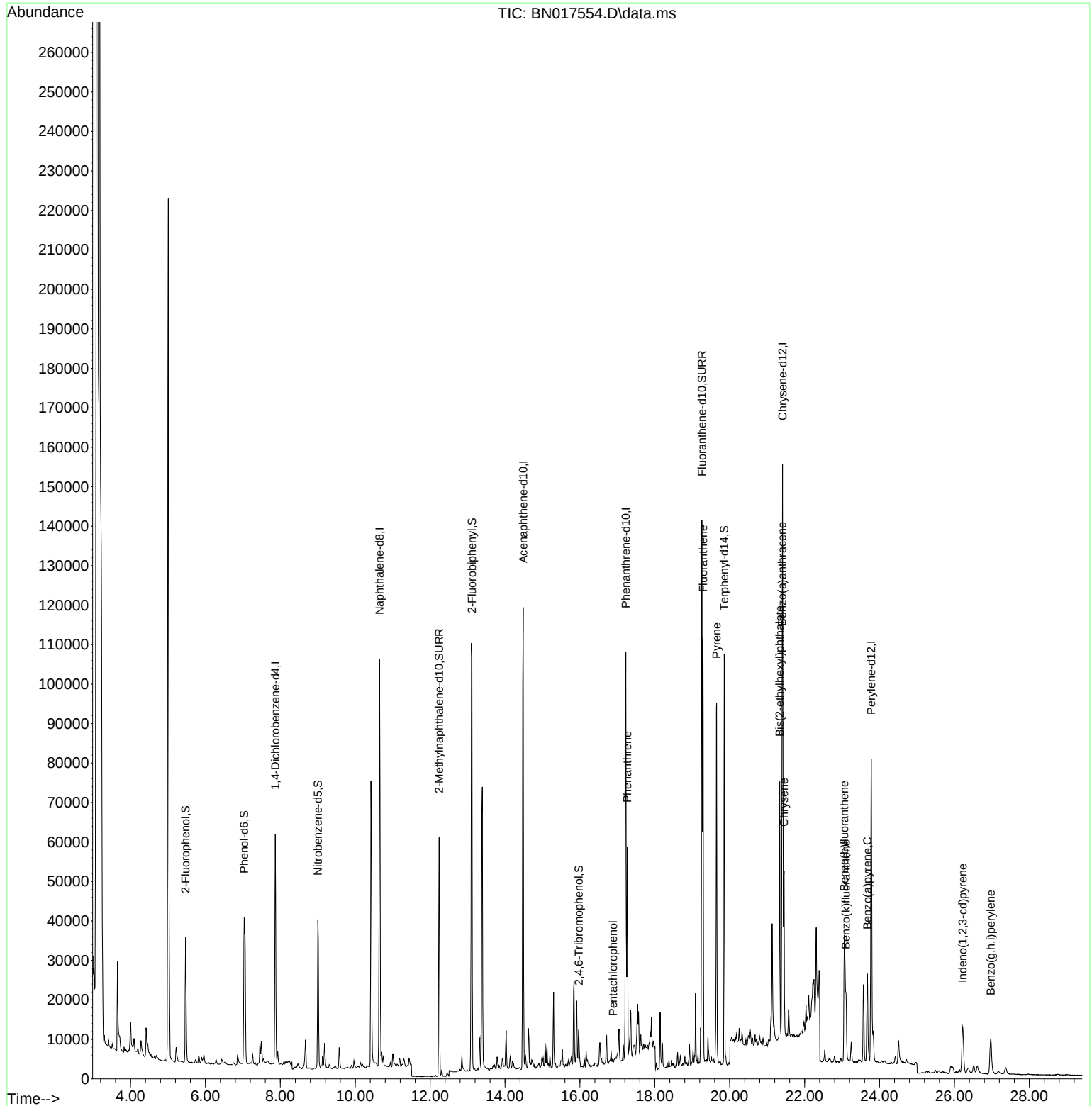
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112321\
Data File : BN017554.D
Acq On : 22 Nov 2021 20:46
Operator : CG/JU
Sample : M4801-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

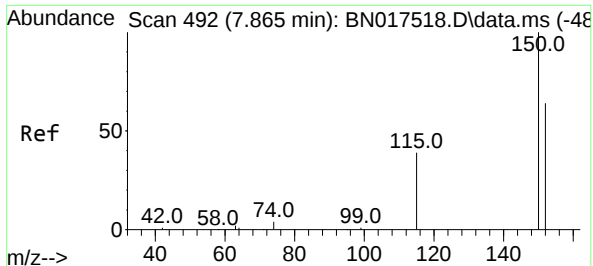
Instrument :
BNA_N
ClientSampleId :
SITE-1-DRILL-CUTTINGS-20211119

Quant Time: Nov 23 02:40:46 2021
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\8270-SIM-BN111921.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 19 14:57:14 2021
Response via : Initial Calibration

Manual Integrations
APPROVED

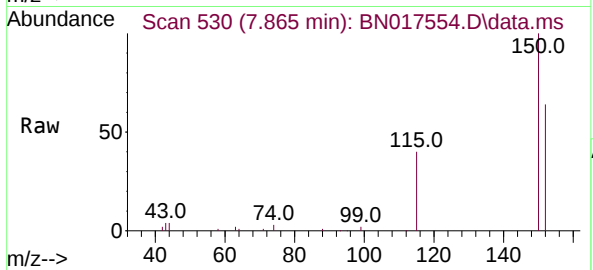
Reviewed By :Jagrut Upadhyay 11/23/2021
Supervised By :mohammad ahmed 11/24/2021





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.865 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN017554.D
Acq: 22 Nov 2021 20:46

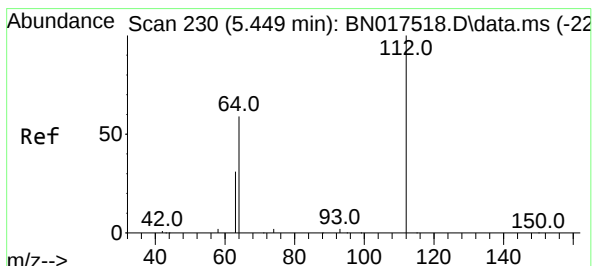
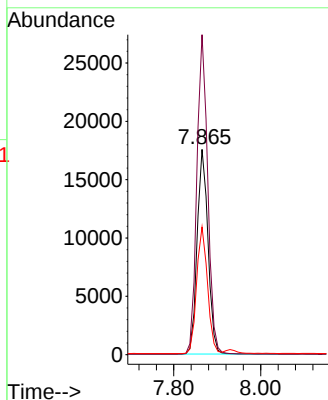
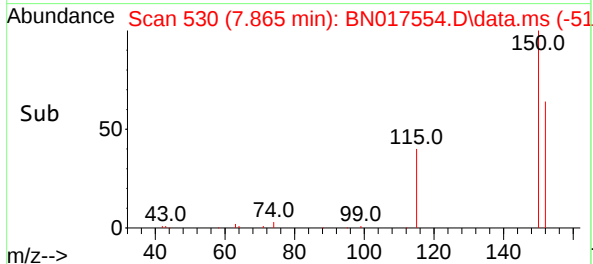
Instrument :
BNA_N
ClientSampleId :
SITE-1-DRILL-CUTTINGS-20211119



Tgt Ion:152 Resp: 3044
Ion Ratio Lower Upper
152 100
150 155.9 123.0 184.4
115 62.2 45.6 68.4

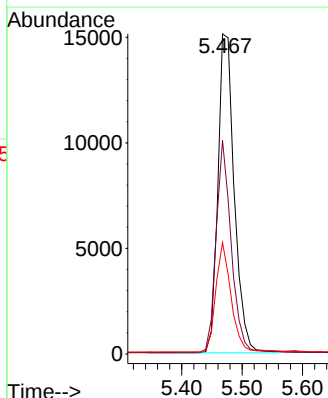
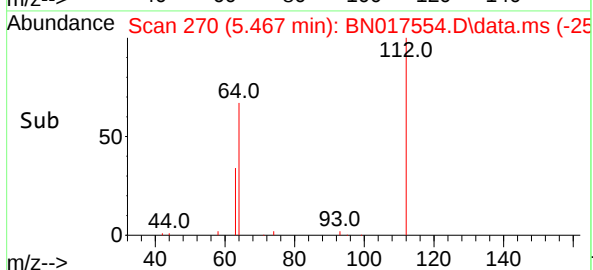
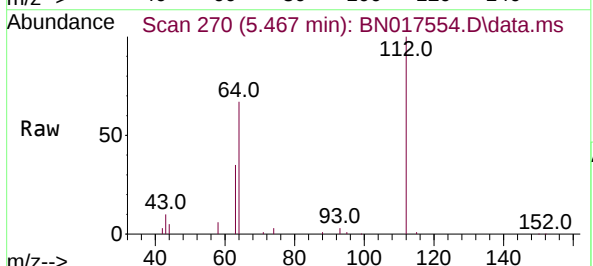
Manual Integrations
APPROVED

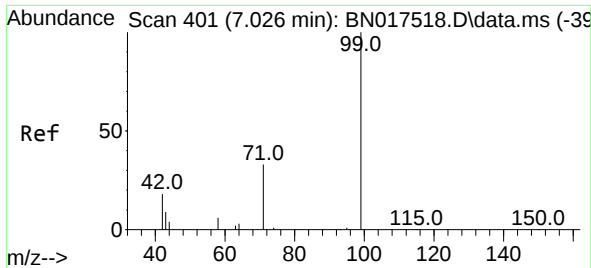
Reviewed By :Jagrut Upadhyay 11/23/2021
Supervised By :mohammad ahmed 11/24/2021



#4
2-Fluorophenol
Concen: 0.378 ng
RT: 5.467 min Scan# 270
Delta R.T. 0.018 min
Lab File: BN017554.D
Acq: 22 Nov 2021 20:46

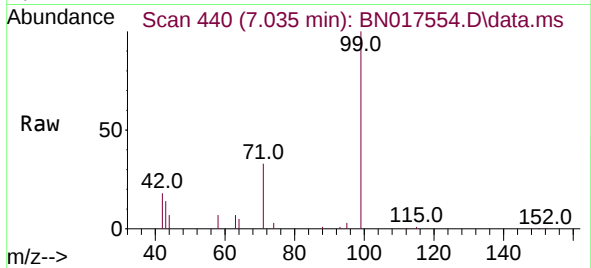
Tgt Ion:112 Resp: 28487
Ion Ratio Lower Upper
112 100
64 60.9 47.6 71.4
63 32.0 24.6 37.0





#5
Phenol-d6
Concen: 0.393 ng
RT: 7.035 min Scan# 41
Delta R.T. 0.009 min
Lab File: BN017554.D
Acq: 22 Nov 2021 20:46

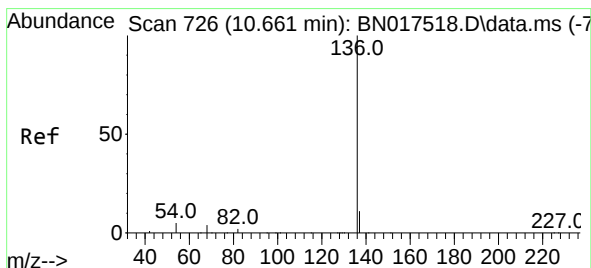
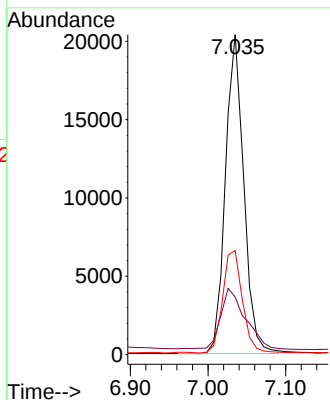
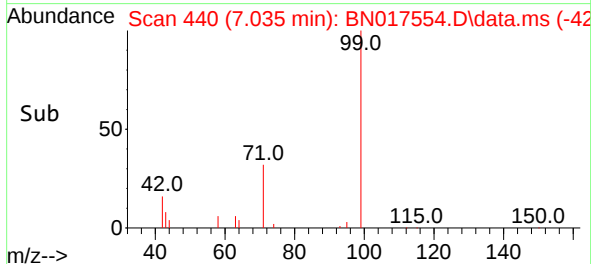
Instrument :
BNA_N
ClientSampleId :
SITE-1-DRILL-CUTTINGS-20211119



Tgt Ion: 99 Resp: 3341
Ion Ratio Lower Upper
99 100
42 25.2 17.0 25.6
71 34.5 24.8 37.2

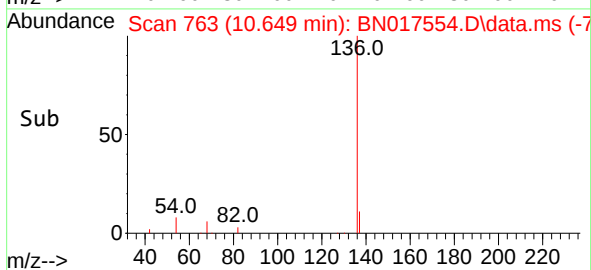
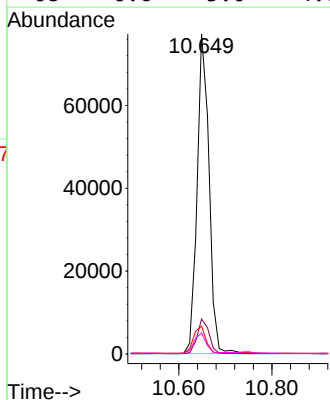
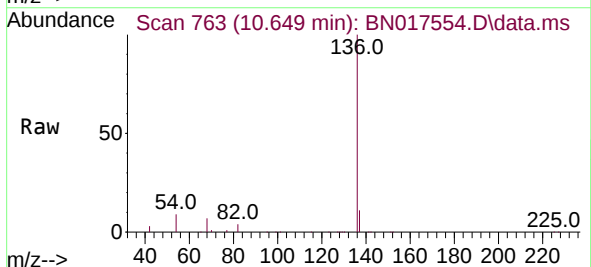
Manual Integrations
APPROVED

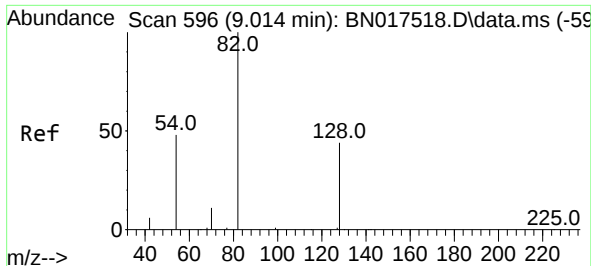
Reviewed By :Jagrut Upadhyay 11/23/2021
Supervised By :mohammad ahmed 11/24/2021



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.649 min Scan# 763
Delta R.T. -0.012 min
Lab File: BN017554.D
Acq: 22 Nov 2021 20:46

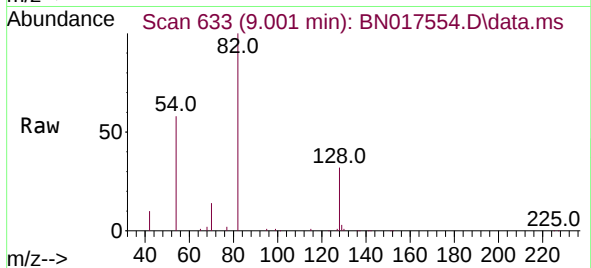
Tgt Ion:136 Resp: 137822
Ion Ratio Lower Upper
136 100
137 10.9 8.8 13.2
54 8.7 4.0 6.0#
68 6.6 3.0 4.6#





#8
Nitrobenzene-d5
Concen: 0.371 ng
RT: 9.001 min Scan# 61
Delta R.T. -0.013 min
Lab File: BN017554.D
Acq: 22 Nov 2021 20:46

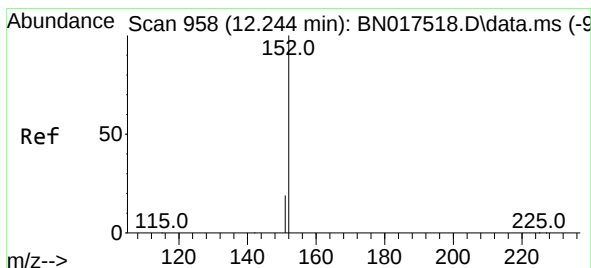
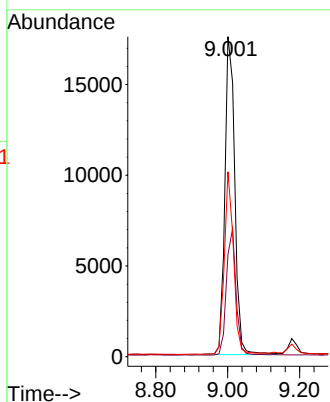
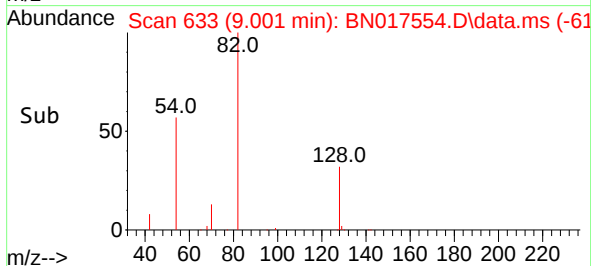
Instrument :
BNA_N
ClientSampleId :
SITE-1-DRILL-CUTTINGS-20211119



Tgt Ion: 82 Resp: 33634
Ion Ratio Lower Upper
82 100
128 31.9 27.7 41.5
54 57.8 49.2 73.8

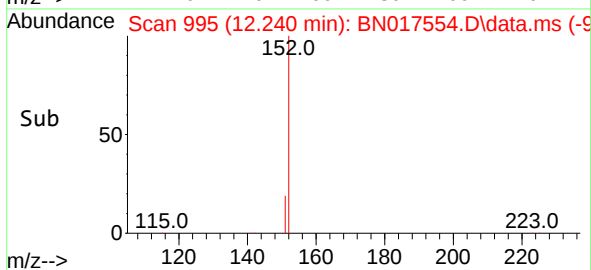
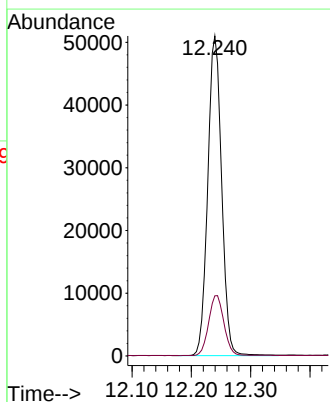
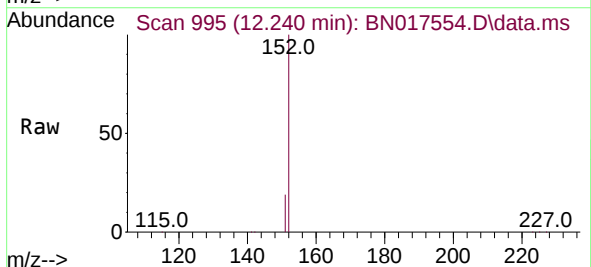
Manual Integrations
APPROVED

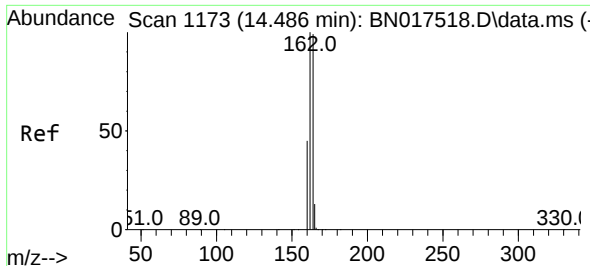
Reviewed By :Jagrut Upadhyay 11/23/2021
Supervised By :mohammad ahmed 11/24/2021



#11
2-Methylnaphthalene-d10
Concen: 0.359 ng
RT: 12.240 min Scan# 995
Delta R.T. -0.004 min
Lab File: BN017554.D
Acq: 22 Nov 2021 20:46

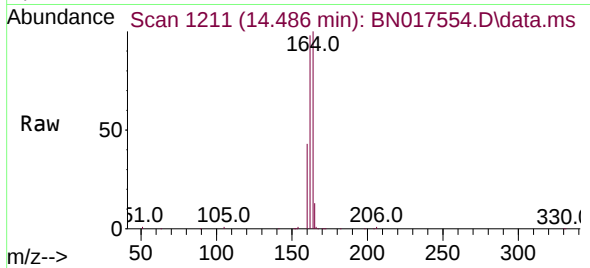
Tgt Ion:152 Resp: 82503
Ion Ratio Lower Upper
152 100
151 20.7 16.2 24.4





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.486 min Scan# 1173
Delta R.T. -0.000 min
Lab File: BN017554.D
Acq: 22 Nov 2021 20:46

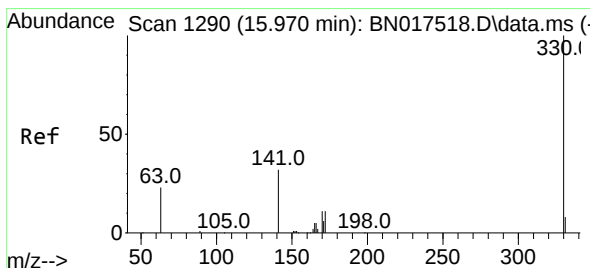
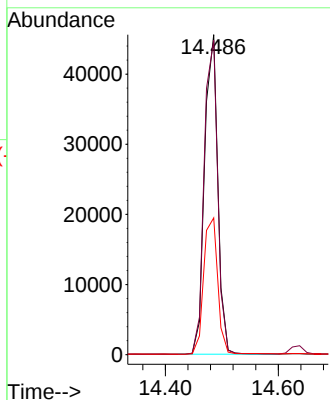
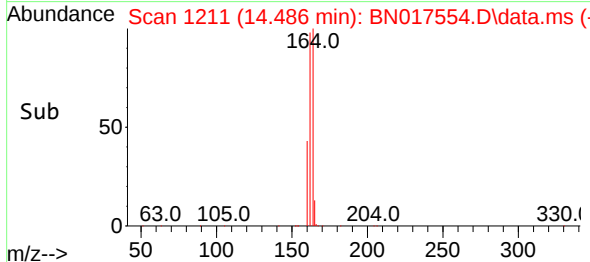
Instrument : BNA_N
ClientSampleId :
SITE-1-DRILL-CUTTINGS-20211119



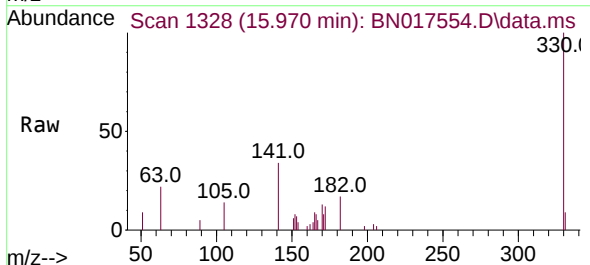
Tgt Ion:164 Resp: 7383
Ion Ratio Lower Upper
164 100
162 98.2 81.4 122.2
160 42.8 36.8 55.2

Manual Integrations
APPROVED

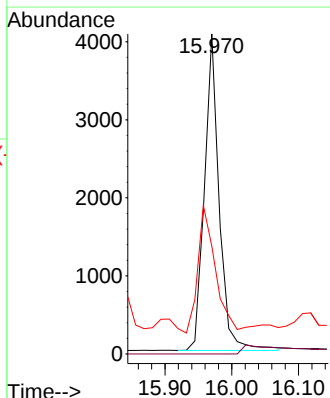
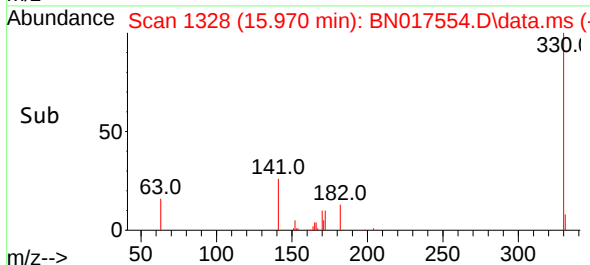
Reviewed By :Jagrut Upadhyay 11/23/2021
Supervised By :mohammad ahmed 11/24/2021

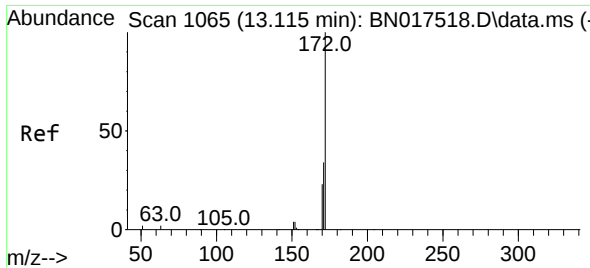


#14
2,4,6-Tribromophenol
Concen: 0.270 ng
RT: 15.970 min Scan# 1328
Delta R.T. 0.000 min
Lab File: BN017554.D
Acq: 22 Nov 2021 20:46



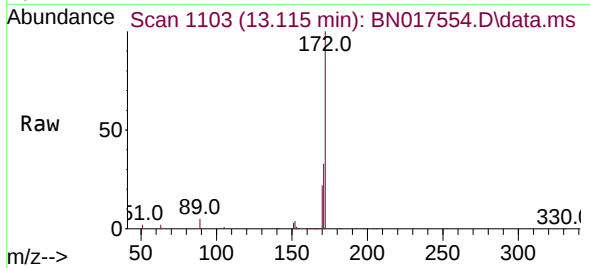
Tgt Ion:330 Resp: 6121
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 49.2 28.9 43.3#





#15
2-Fluorobiphenyl
Concen: 0.361 ng
RT: 13.115 min Scan# 1103
Delta R.T. 0.000 min
Lab File: BN017554.D
Acq: 22 Nov 2021 20:46

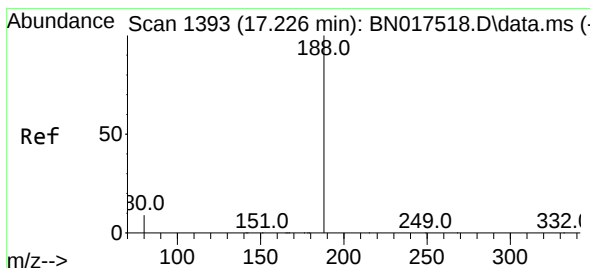
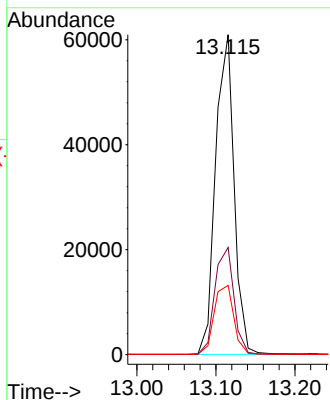
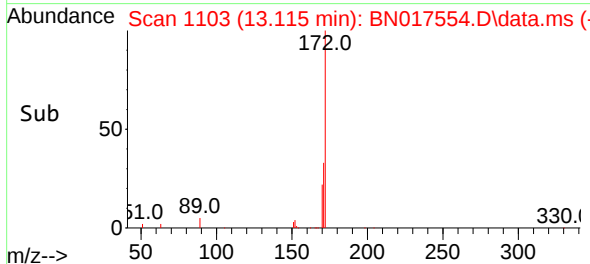
Instrument :
BNA_N
ClientSampleId :
SITE-1-DRILL-CUTTINGS-20211119



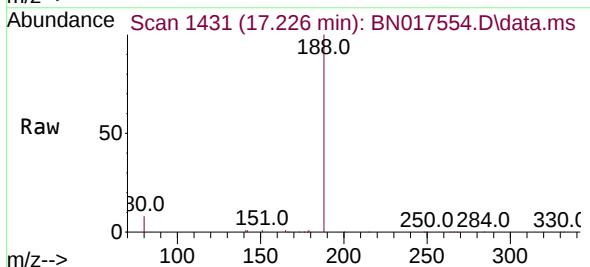
Tgt Ion:172 Resp: 9926
Ion Ratio Lower Upper
172 100
171 33.5 28.7 43.1
170 21.6 19.4 29.2

Manual Integrations
APPROVED

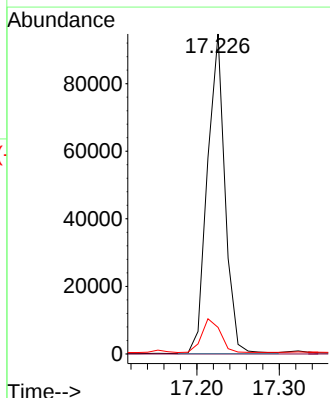
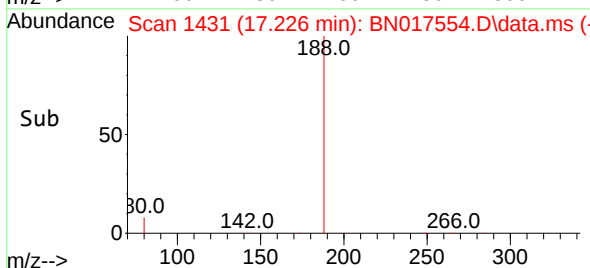
Reviewed By :Jagrut Upadhyay 11/23/2021
Supervised By :mohammad ahmed 11/24/2021

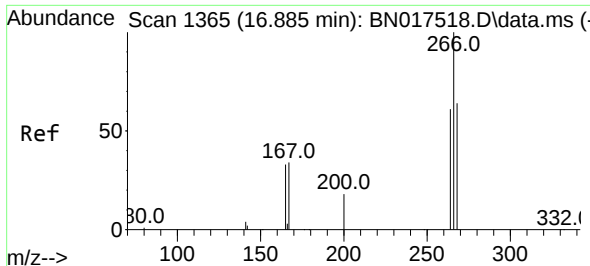


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.226 min Scan# 1431
Delta R.T. -0.000 min
Lab File: BN017554.D
Acq: 22 Nov 2021 20:46



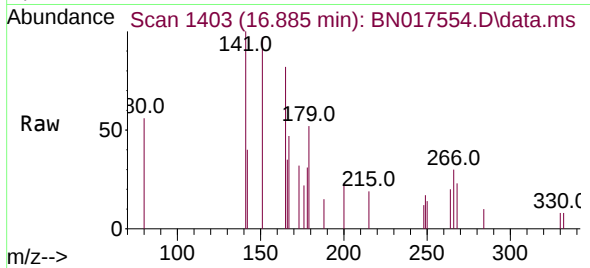
Tgt Ion:188 Resp: 140255
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.3 6.1 9.1





#24
Pentachlorophenol
Concen: 0.207 ng
RT: 16.885 min Scan# 1403
Delta R.T. -0.000 min
Lab File: BN017554.D
Acq: 22 Nov 2021 20:46

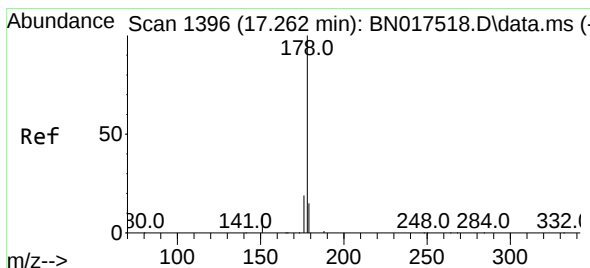
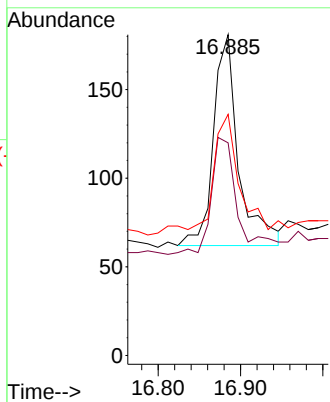
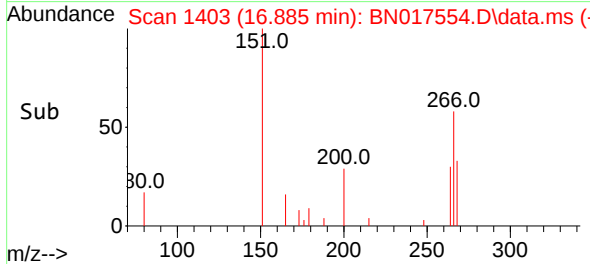
Instrument :
BNA_N
ClientSampleId :
SITE-1-DRILL-CUTTINGS-20211119



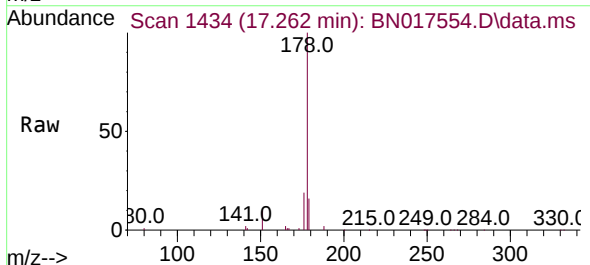
Tgt Ion:266 Resp: 252
Ion Ratio Lower Upper
266 100
264 59.5 49.8 74.8
268 49.6 51.3 76.9

Manual Integrations
APPROVED

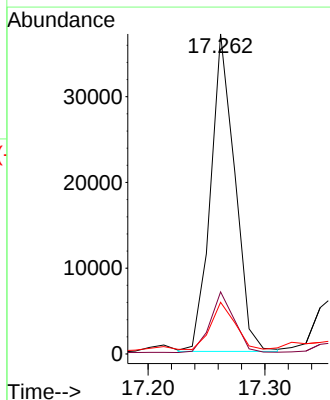
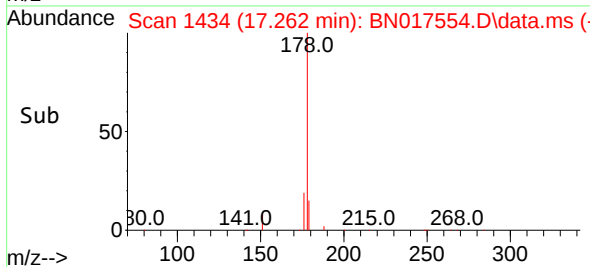
Reviewed By :Jagrut Upadhyay 11/23/2021
Supervised By :mohammad ahmed 11/24/2021

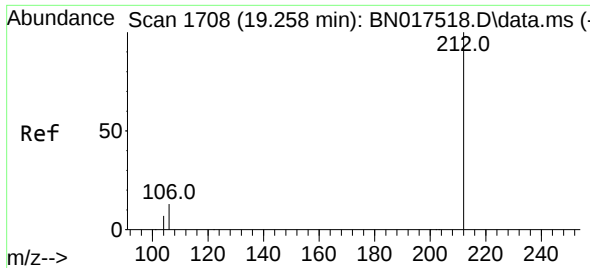


#25
Phenanthrene
Concen: 0.136 ng m
RT: 17.262 min Scan# 1434
Delta R.T. 0.000 min
Lab File: BN017554.D
Acq: 22 Nov 2021 20:46



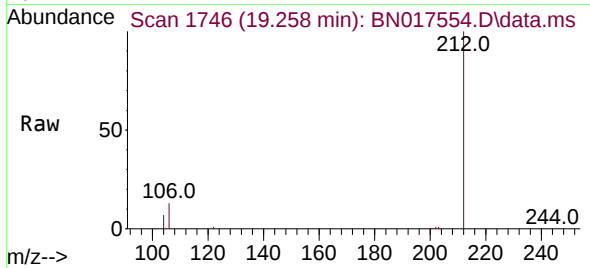
Tgt Ion:178 Resp: 53407
Ion Ratio Lower Upper
178 100
176 19.8 15.0 22.6
179 18.1 12.3 18.5





#27
Fluoranthene-d10
Concen: 0.354 ng
RT: 19.258 min Scan# 1708
Delta R.T. -0.000 min
Lab File: BN017554.D
Acq: 22 Nov 2021 20:46

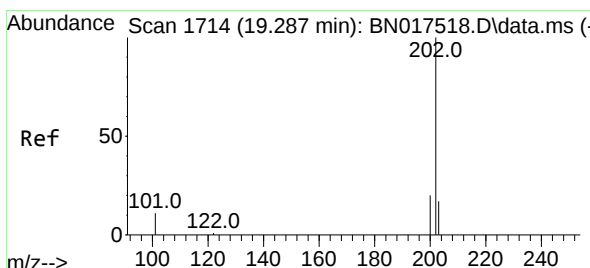
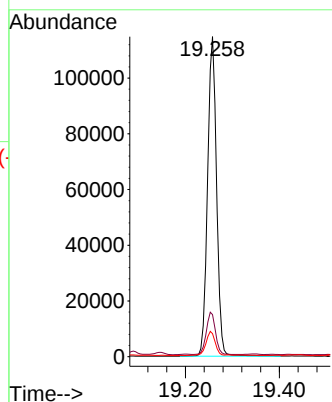
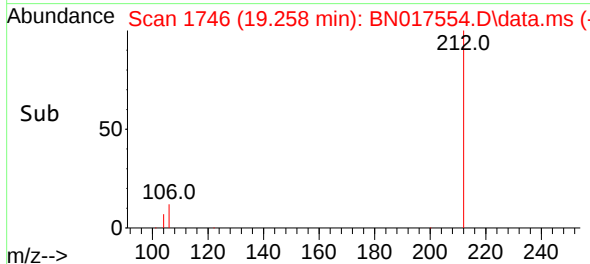
Instrument :
BNA_N
ClientSampleId :
SITE-1-DRILL-CUTTINGS-20211119



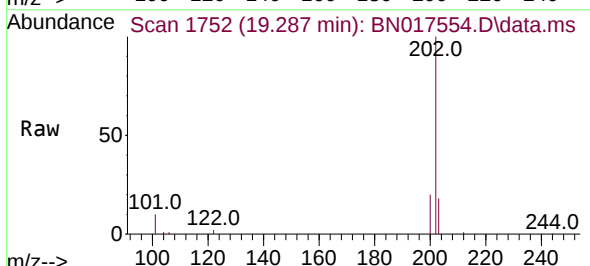
Tgt Ion:212 Resp: 152809
Ion Ratio Lower Upper
212 100
106 13.4 10.5 15.7
104 7.8 5.8 8.6

Manual Integrations
APPROVED

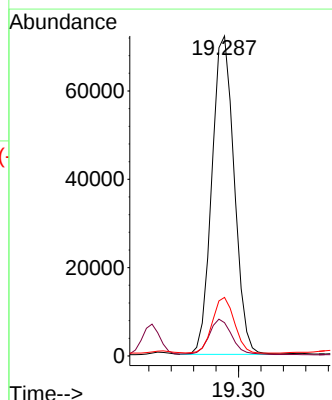
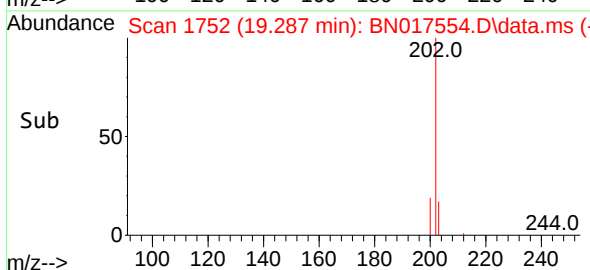
Reviewed By :Jagrut Upadhyay 11/23/2021
Supervised By :mohammad ahmed 11/24/2021

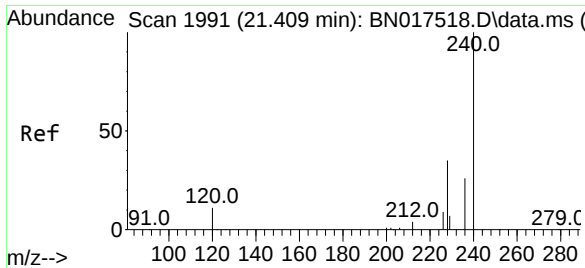


#28
Fluoranthene
Concen: 0.229 ng
RT: 19.287 min Scan# 1752
Delta R.T. 0.000 min
Lab File: BN017554.D
Acq: 22 Nov 2021 20:46



Tgt Ion:202 Resp: 99457
Ion Ratio Lower Upper
202 100
101 11.4 8.9 13.3
203 17.2 13.8 20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.409 min Scan# 2012

Delta R.T. 0.000 min

Lab File: BN017554.D

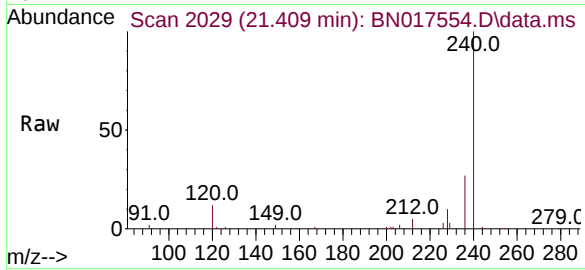
Acq: 22 Nov 2021 20:46

Instrument :

BNA_N

ClientSampleId :

SITE-1-DRILL-CUTTINGS-20211119



Tgt Ion:240 Resp: 120120

Ion Ratio Lower Upper

240 100

120 12.3 4.2 6.2

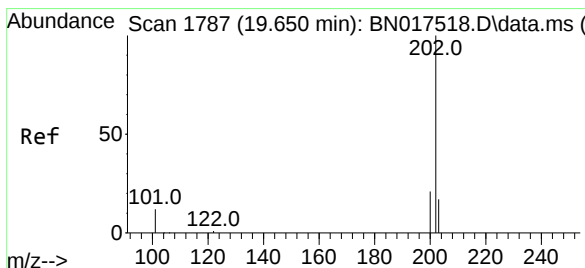
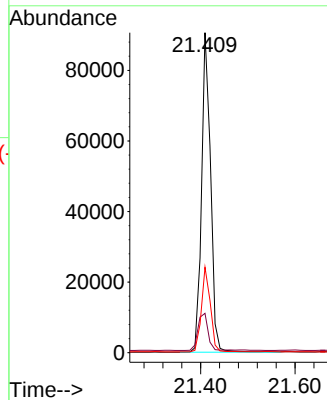
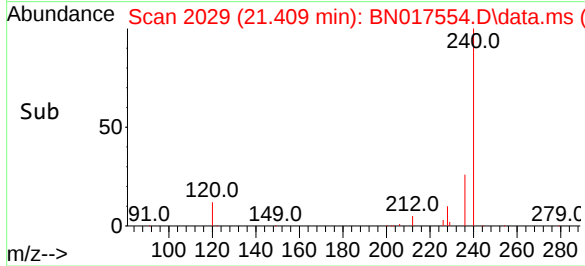
236 26.7 20.0 30.0

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 11/23/2021

Supervised By :mohammad ahmed 11/24/2021



#30

Pyrene

Concen: 0.207 ng

RT: 19.650 min Scan# 1825

Delta R.T. -0.000 min

Lab File: BN017554.D

Acq: 22 Nov 2021 20:46

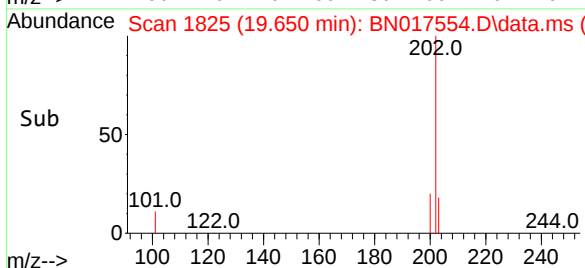
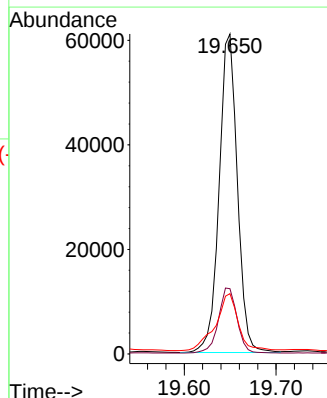
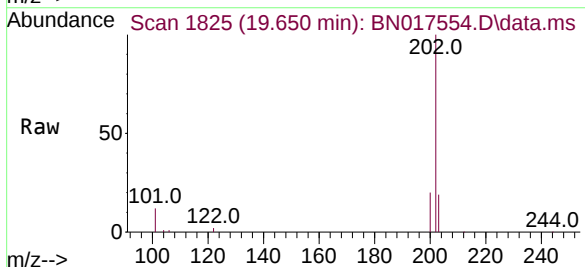
Tgt Ion:202 Resp: 84121

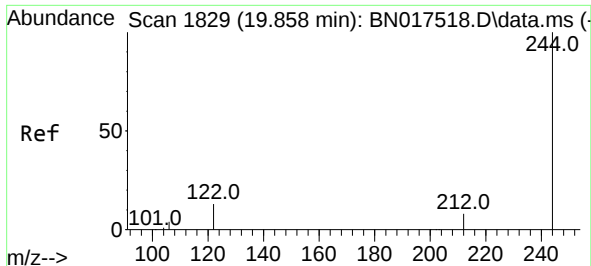
Ion Ratio Lower Upper

202 100

200 20.7 16.5 24.7

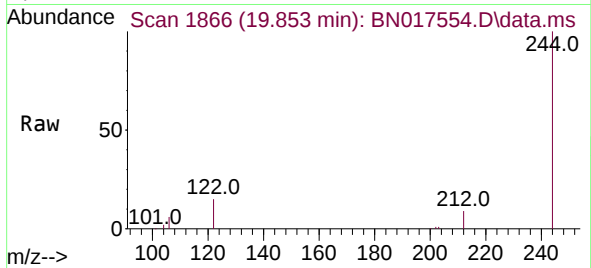
203 22.3 14.0 21.0





#31
 Terphenyl-d14
 Concen: 0.383 ng
 RT: 19.853 min Scan# 10106
 Delta R.T. -0.005 min
 Lab File: BN017554.D
 Acq: 22 Nov 2021 20:46

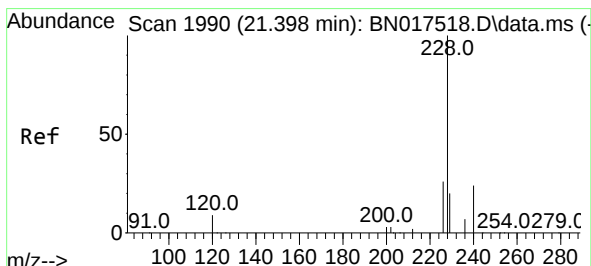
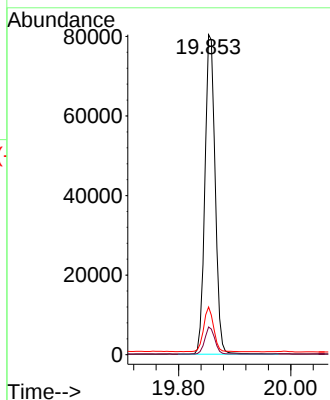
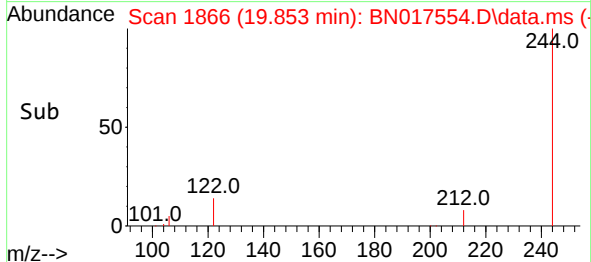
Instrument : BNA_N
 ClientSampleId :
 SITE-1-DRILL-CUTTINGS-20211119



Tgt Ion:244 Resp: 10106
 Ion Ratio Lower Upper
 244 100
 212 8.6 5.7 8.5
 122 14.9 8.6 13.0

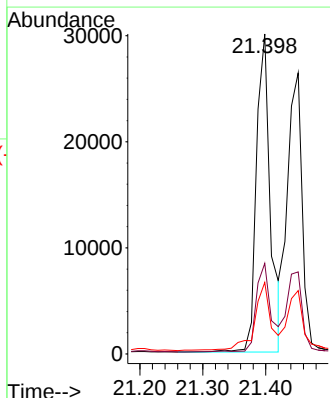
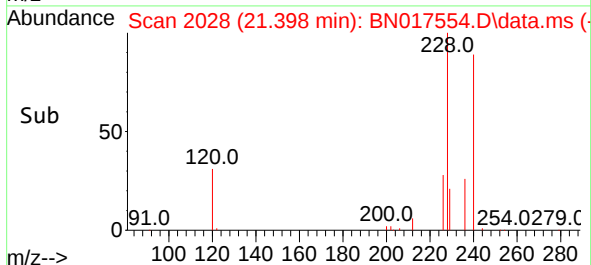
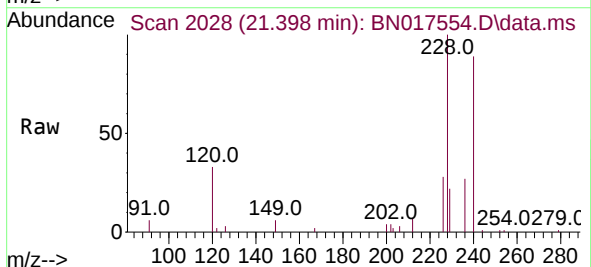
Manual Integrations
 APPROVED

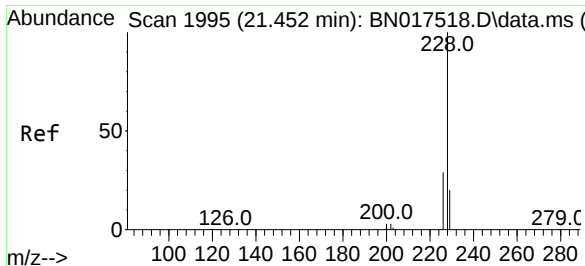
Reviewed By :Jagrut Upadhyay 11/23/2021
 Supervised By :mohammad ahmed 11/24/2021



#32
 Benzo(a)anthracene
 Concen: 0.124 ng
 RT: 21.398 min Scan# 2028
 Delta R.T. 0.000 min
 Lab File: BN017554.D
 Acq: 22 Nov 2021 20:46

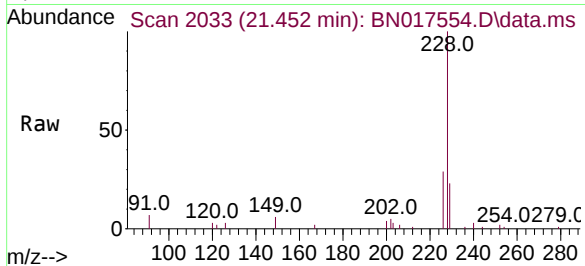
Tgt Ion:228 Resp: 46198
 Ion Ratio Lower Upper
 228 100
 226 28.3 21.3 31.9
 229 22.3 15.7 23.5





#33
Chrysene
Concen: 0.106 ng
RT: 21.452 min Scan# 2022
Delta R.T. -0.000 min
Lab File: BN017554.D
Acq: 22 Nov 2021 20:46

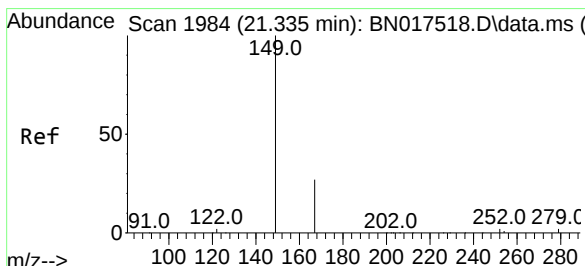
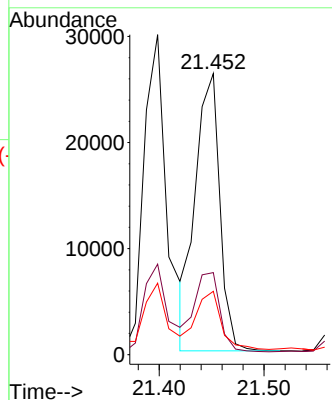
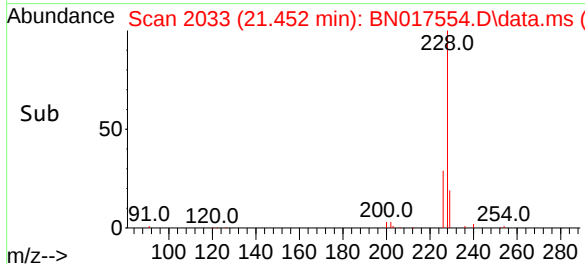
Instrument :
BNA_N
ClientSampleId :
SITE-1-DRILL-CUTTINGS-20211119



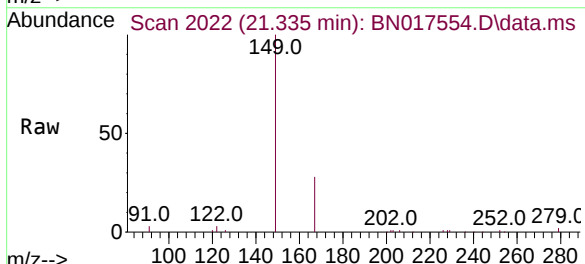
Tgt Ion:228 Resp: 42280
Ion Ratio Lower Upper
228 100
226 29.2 23.3 34.9
229 22.5 15.6 23.4

Manual Integrations
APPROVED

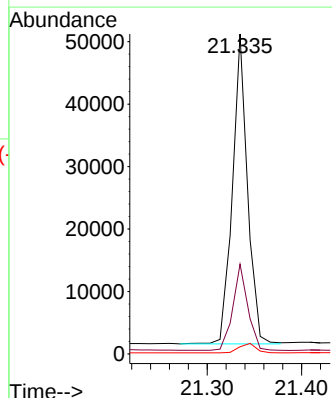
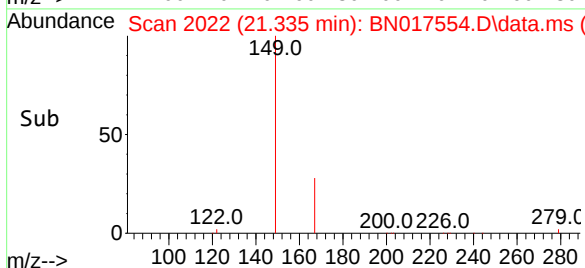
Reviewed By :Jagrut Upadhyay 11/23/2021
Supervised By :mohammad ahmed 11/24/2021

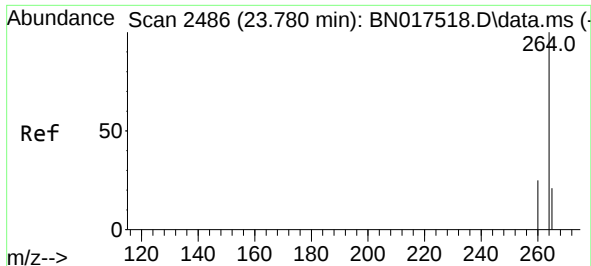


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.373 ng
RT: 21.335 min Scan# 2022
Delta R.T. -0.000 min
Lab File: BN017554.D
Acq: 22 Nov 2021 20:46



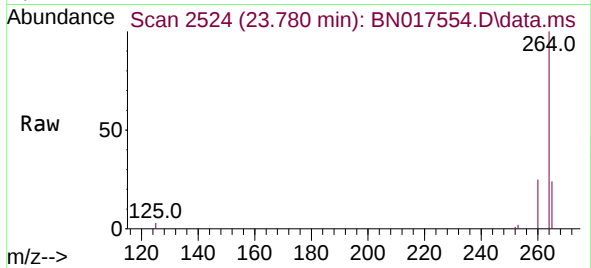
Tgt Ion:149 Resp: 54884
Ion Ratio Lower Upper
149 100
167 27.7 21.8 32.6
279 3.3 3.4 5.0#





#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.780 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: BN017554.D
 Acq: 22 Nov 2021 20:46

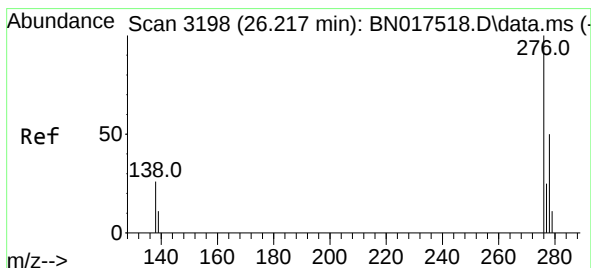
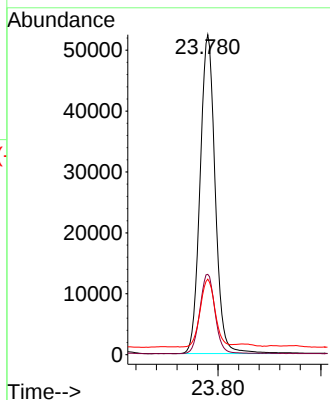
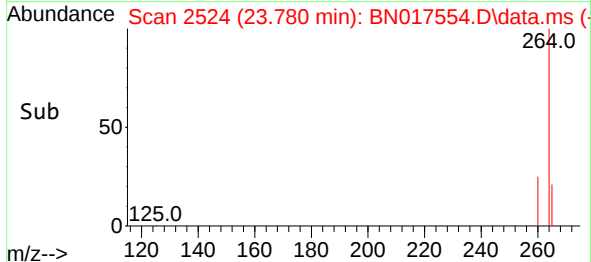
Instrument :
 BNA_N
 ClientSampleId :
 SITE-1-DRILL-CUTTINGS-20211119



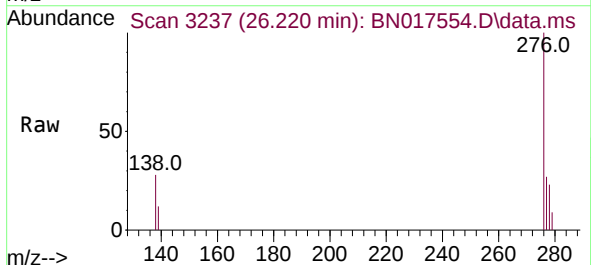
Tgt Ion:264 Resp: 10686
 Ion Ratio Lower Upper
 264 100
 260 25.1 19.4 29.2
 265 23.6 18.6 28.0

Manual Integrations
 APPROVED

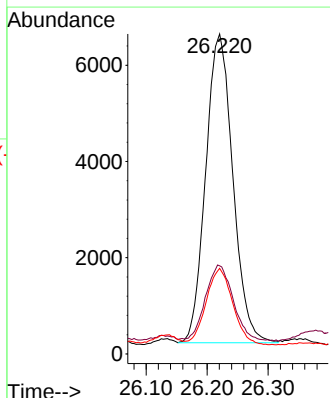
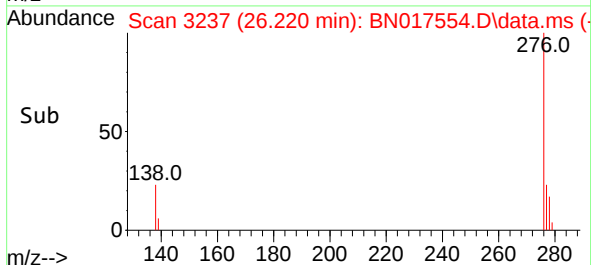
Reviewed By :Jagrut Upadhyay 11/23/2021
 Supervised By :mohammad ahmed 11/24/2021

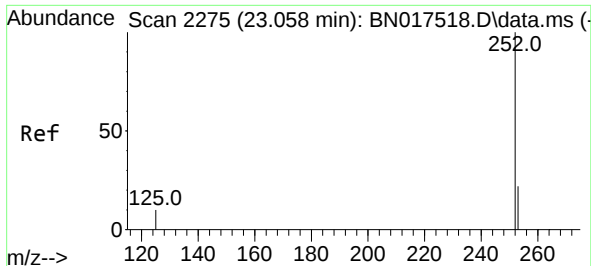


#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.061 ng
 RT: 26.220 min Scan# 3237
 Delta R.T. 0.003 min
 Lab File: BN017554.D
 Acq: 22 Nov 2021 20:46



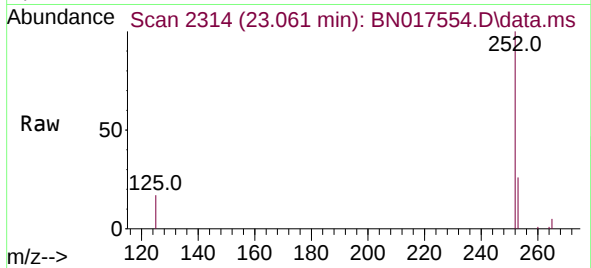
Tgt Ion:276 Resp: 19835
 Ion Ratio Lower Upper
 276 100
 138 25.1 19.7 29.5
 277 24.2 20.0 30.0





#37
Benzo(b)fluoranthene
Concen: 0.144 ng
RT: 23.061 min Scan# 21
Delta R.T. 0.003 min
Lab File: BN017554.D
Acq: 22 Nov 2021 20:46

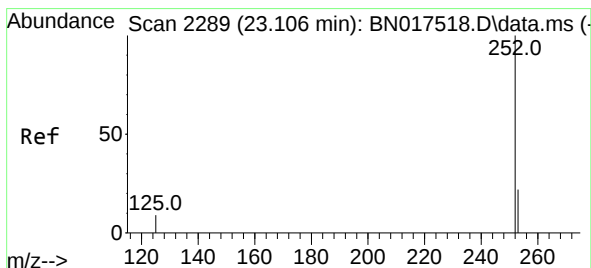
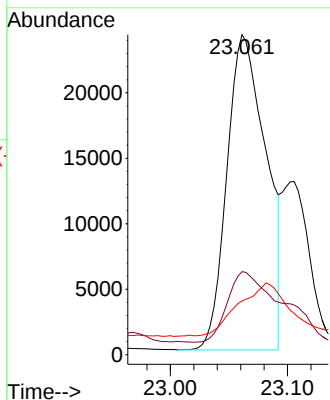
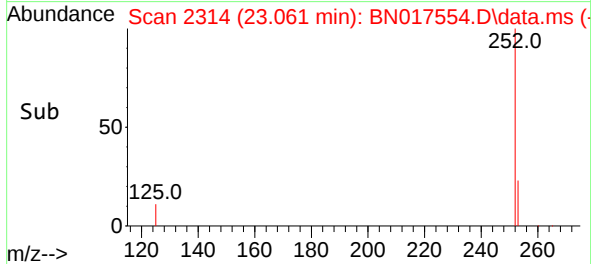
Instrument :
BNA_N
ClientSampleId :
SITE-1-DRILL-CUTTINGS-20211119



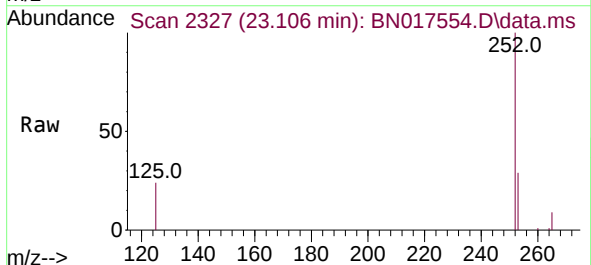
Tgt Ion:252 Resp: 5586
Ion Ratio Lower Upper
252 100
253 26.0 17.7 26.5
125 16.7 7.8 11.8

Manual Integrations
APPROVED

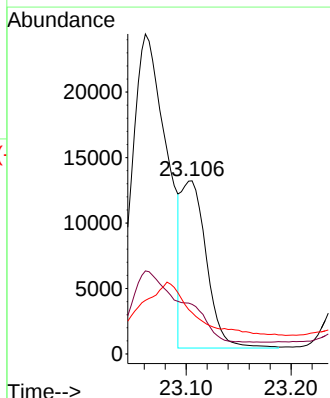
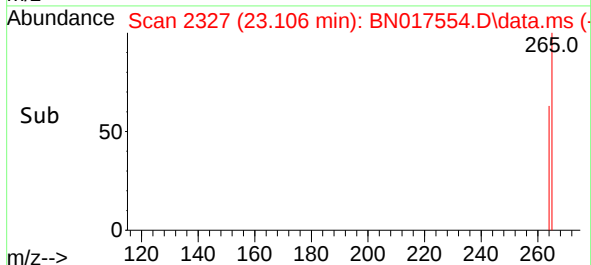
Reviewed By :Jagrut Upadhyay 11/23/2021
Supervised By :mohammad ahmed 11/24/2021

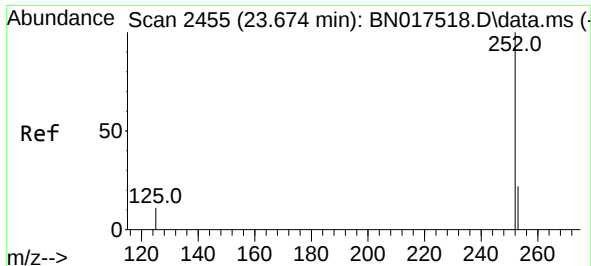


#38
Benzo(k)fluoranthene
Concen: 0.057 ng m
RT: 23.106 min Scan# 2327
Delta R.T. -0.000 min
Lab File: BN017554.D
Acq: 22 Nov 2021 20:46



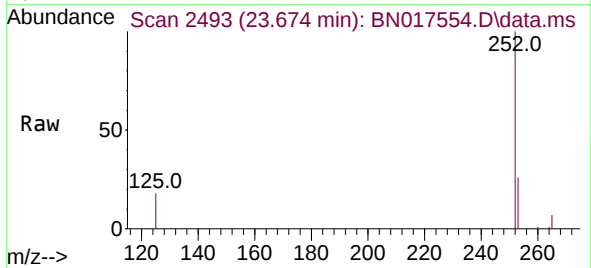
Tgt Ion:252 Resp: 21439
Ion Ratio Lower Upper
252 100
253 28.7 17.7 26.5#
125 23.8 8.2 12.2#





#39
Benzo(a)pyrene
Concen: 0.106 ng
RT: 23.674 min Scan# 2455
Delta R.T. -0.000 min
Lab File: BN017554.D
Acq: 22 Nov 2021 20:46

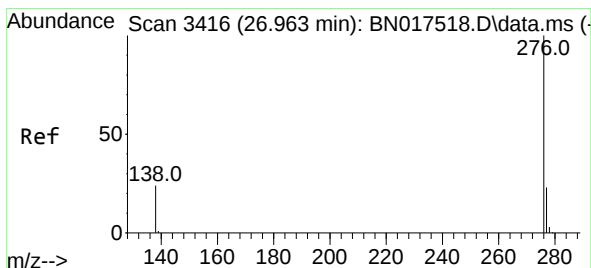
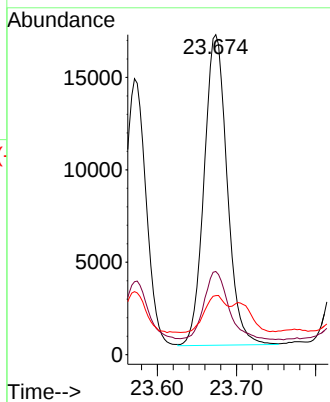
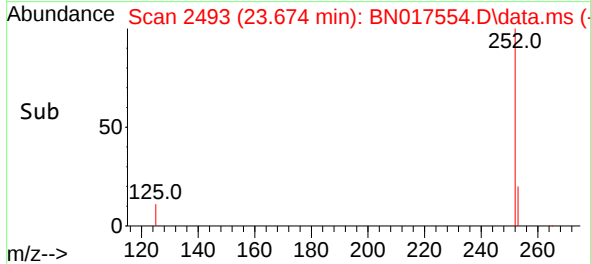
Instrument :
BNA_N
ClientSampleId :
SITE-1-DRILL-CUTTINGS-20211119



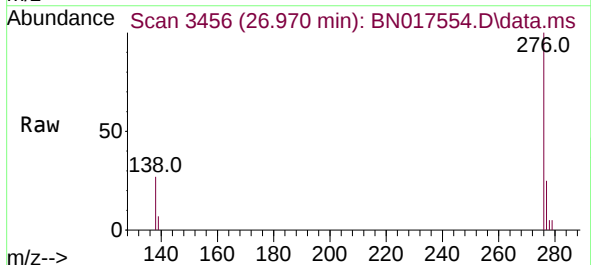
Tgt Ion:252 Resp: 33950
Ion Ratio Lower Upper
252 100
253 26.0 17.9 26.9
125 18.4 9.2 13.8

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 11/23/2021
Supervised By :mohammad ahmed 11/24/2021



#41
Benzo(g,h,i)perylene
Concen: 0.073 ng
RT: 26.970 min Scan# 3456
Delta R.T. 0.007 min
Lab File: BN017554.D
Acq: 22 Nov 2021 20:46



Tgt Ion:276 Resp: 20407
Ion Ratio Lower Upper
276 100
277 25.3 19.0 28.4
138 26.9 17.1 25.7

