LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092520\
Data File : BF121698.D
Acq On : 25 Sep 2020 16:24
Operator : JU/CG
Sample : L4152-01 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WR-PILE-1-2

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.351	382	385	393	rBV	150231	181173	2.56%	0.225%
2	4.987	489	493	503	rBV	264550	288882	4.07%	0.360%
3	5.410	561	565	573	rBV	121179	121546	1.71%	0.151%
4	6.428	734	738	752	rVB	634085	591744	8.35%	0.736%
5	6.792	797	800	804	rBV	978731	885531	12.49%	1.102%
6	7.357	892	896	900	rBV	552441	462474	6.52%	0.576%
7	8.080	1013	1019	1021	rBV	1468606	1193834	16.84%	1.486%
8	8.104	1021	1023	1026	rVB	326776	255357	3.60%	0.318%
9	9.157	1198	1202	1205	rBV	1077898	925496	13.05%	1.152%
10	9.551	1266	1269	1273	rVV	148558	130323	1.84%	0.162%
11	9.833	1311	1317	1320	rBV	1556869	1416074	19.97%	1.762%
12	9.869	1320	1323	1326	rVB	897981	731562	10.32%	0.910%
13	10.039	1348	1352	1356	rBV	731393	612781	8.64%	0.763%
14	10.380	1406	1410	1415	rBV	908693	786056	11.09%	0.978%
15	10.469	1423	1425	1427	rVV	136826	123934	1.75%	0.154%
16	10.539	1435	1437	1441	rVB	254688	208414	2.94%	0.259%
17	10.621	1445	1451	1455	rVV	261657	347349	4.90%	0.432%
18	10.745	1468	1472	1477	rBV3	181756	286277	4.04%	0.356%
19	10.933	1497	1504	1506	rBV3	140213	216261	3.05%	0.269%
20	11.127	1534	1537	1541	rVV	773466	631488	8.91%	0.786%
21	11.186	1541	1547	1550	rVV4	154164	306272	4.32%	0.381%
22	11.216	1550	1552	1559	rVB	560119	546309	7.70%	0.680%
23	11.327	1567	1571	1572	rBV	1277552	1411516	19.91%	1.757%
24	11.357	1572	1576	1579	rVV	5383287	6355759	89.63%	7.910%
25	11.404	1579	1584	1586	rVV	2090667	1905946	26.88%	2.372%
26	11.433	1586	1589	1592	rVB	162674	152280	2.15%	0.190%
27	11.557	1603	1610	1617	rBV2	1080962	1249771	17.63%	1.555%
28	11.616	1617	1620	1624	rVB2	285582	268240	3.78%	0.334%
29	11.657	1624	1627	1631	rBV3	144080	170127	2.40%	0.212%
30	11.821	1652	1655	1658	rBV	633674	575872	8.12%	0.717%
31	11.851	1658	1660	1664	rVB	993254	843234	11.89%	1.049%
32	11.898	1665	1668	1671	rBV	322018	298153	4.20%	0.371%
33	11.939	1671	1675	1677	rBV	1233867	1227129	17.31%	1.527%
34	12.004	1682	1686	1688	rBV2	125533	142300	2.01%	0.177%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092520\
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Acq On : 25 Sep 2020 16:24
Operator : JU/CG
Sample : L4152-01 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WR-PILE-1-2

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	12.027	1688	1690	1693	rVV	254107	207120	2.92%	0.258%
36	12.121	1703	1706	1708	rVV	651963	550098	7.76%	0.685%
37	12.145	1708	1710	1714	rVV	727993	598524	8.44%	0.745%
38	12.268	1728	1731	1734	rVB2	159282	131749	1.86%	0.164%
39	12.298	1734	1736	1738	rBV	134572	127121	1.79%	0.158%
40	12.374	1745	1749	1752	rBV	313131	335131	4.73%	0.417%
41	12.415	1753	1756	1761	rVB4	240619	285083	4.02%	0.355%
42	12.463	1761	1764	1768	rBV	443963	443536	6.26%	0.552%
43	12.551	1772	1779	1782	rVV	5791669	6832787	96.36%	8.503%
44	12.598	1782	1787	1790	rVB2	178066	213955	3.02%	0.266%
45	12.686	1795	1802	1806	rBV3	325116	524435	7.40%	0.653%
46	12.780	1811	1818	1821	rBV2	4811249	7090749	100.00%	8.824%
47	12.815	1821	1824	1828	rVB	341427	322013	4.54%	0.401%
48	12.886	1832	1836	1837	rBV	525193	467437	6.59%	0.582%
49	12.910	1837	1840	1847	rVB2	1206405	1573590	22.19%	1.958%
50	12.986	1847	1853	1856	rBV3	428407	728496	10.27%	0.907%
51	13.015	1856	1858	1860	rVB	243377	179178	2.53%	0.223%
52	13.068	1860	1867	1869	rBV4	364981	533858	7.53%	0.664%
53	13.092	1869	1871	1874	rVB	815741	707640	9.98%	0.881%
54	13.162	1879	1883	1885	rVB	519046	473897	6.68%	0.590%
55	13.198	1885	1889	1891	rBV2	611667	665498	9.39%	0.828%
56	13.221	1891	1893	1896	rVB	292632	255226	3.60%	0.318%
57	13.251	1896	1898	1901	rBV	141901	127945	1.80%	0.159%
58	13.286	1902	1904	1907	rVB	238755	220847	3.11%	0.275%
59	13.321	1907	1910	1913	rBV2	289806	325663	4.59%	0.405%
60	13.486	1933	1938	1942	rBV8	185150	400519	5.65%	0.498%
61	13.598	1954	1957	1962	rVB	634336	672350	9.48%	0.837%
62	13.709	1972	1976	1979	rBV2	589795	646727	9.12%	0.805%
63	13.739	1979	1981	1983	rVV	593407	499601	7.05%	0.622%
64	13.762	1983	1985	1990	rVV2	506074	754873	10.65%	0.939%
65	13.809	1990	1993	2000	rVB	820332	804908	11.35%	1.002%
66	13.962	2011	2019	2022	rVV2	3390482	5093326	71.83%	6.339%
67	13.998	2022	2025	2030	rVB	2945021	2774820	39.13%	3.453%
68	14.068	2035	2037	2042	rVV	498636	485298	6.84%	0.604%
69	14.127	2045	2047	2049	rVV3	171900	186513	2.63%	0.232%
70	14.151	2049	2051	2054	rVV2	266763	262224	3.70%	0.326%
71	14.186	2054	2057	2061	rVB2	311962	415789	5.86%	0.517%

LSC Area Percent Report

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Acq On : 25 Sep 2020 16:24
Operator : JU/CG
Sample : L4152-01 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WR-PILE-1-2

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

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Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	14.292	2071	2075	2077	rBV4	97873	165311	2.33%	0.206%
73	14.351	2080	2085	2087	rVV	463141	494444	6.97%	0.615%
74	14.380	2087	2090	2094	rVB2	235964	265587	3.75%	0.331%
75	14.439	2096	2100	2103	rBV3	216321	286016	4.03%	0.356%
76	14.474	2103	2106	2108	rBV	249240	214508	3.03%	0.267%
77	14.498	2108	2110	2113	rVB2	273659	225107	3.17%	0.280%
78	14.656	2133	2137	2139	rBV2	222392	241502	3.41%	0.301%
79	14.680	2139	2141	2146	rVB3	97406	127697	1.80%	0.159%
80	14.739	2147	2151	2154	rBV3	148520	156847	2.21%	0.195%
81	14.833	2163	2167	2171	rBV3	167030	253322	3.57%	0.315%
82	14.904	2176	2179	2183	rBV4	81809	119872	1.69%	0.149%
83	14.945	2183	2186	2190	rVB	96571	120150	1.69%	0.150%
84	15.004	2190	2196	2199	rBV	2071933	3543224	49.97%	4.409%
85	15.068	2204	2207	2210	rVV	174229	191340	2.70%	0.238%
86	15.104	2210	2213	2216	rVB	437980	426405	6.01%	0.531%
87	15.186	2224	2227	2229	rBV3	133119	172560	2.43%	0.215%
88	15.298	2241	2246	2252	rVB	1187345	1646646	23.22%	2.049%
89	15.362	2252	2257	2262	rVB	1740055	2154590	30.39%	2.681%
90	15.415	2262	2266	2269	rBV	763202	1029272	14.52%	1.281%
91	15.445	2269	2271	2278	rVB	633964	783589	11.05%	0.975%
92	15.762	2323	2325	2332	rVB4	86154	140122	1.98%	0.174%
93	16.415	2432	2436	2440	rBV2	78513	132496	1.87%	0.165%
94	16.662	2472	2478	2480	rBV2	120343	234935	3.31%	0.292%
95	16.850	2503	2510	2518	rVB2	863065	1711367	24.14%	2.130%
96	16.927	2519	2523	2530	rVB2	85448	175459	2.47%	0.218%
97	17.021	2531	2539	2543	rBV2	214223	439089	6.19%	0.546%
98	17.074	2543	2548	2553	rBV2	141215	252353	3.56%	0.314%
99	17.286	2576	2584	2595	rBV	667500	1402697	19.78%	1.746%
100	17.509	2616	2622	2635	rVB2	199577	480501	6.78%	0.598%

Sum of corrected areas: 80354996

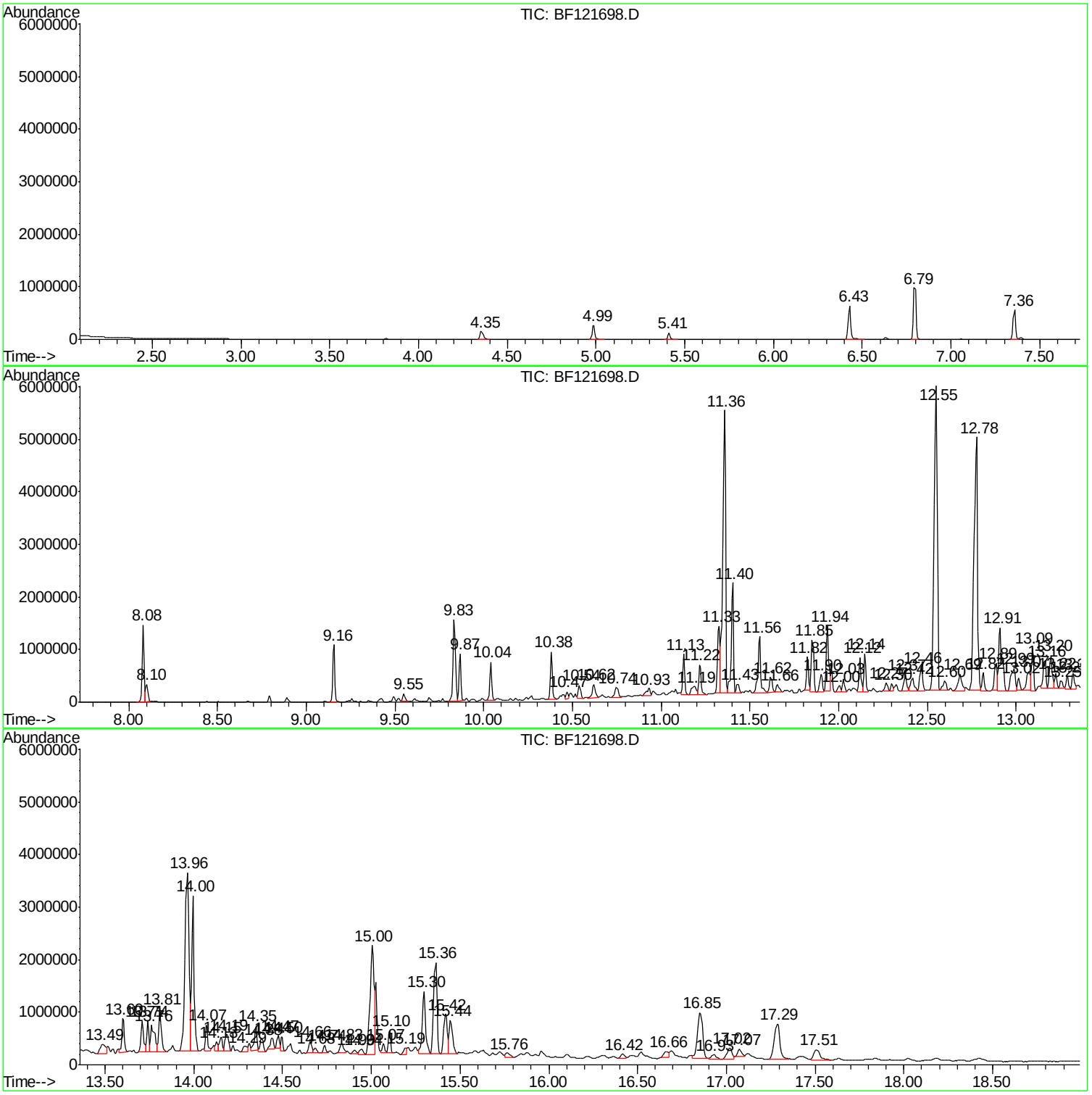
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092520\
Data File : BF121698.D
Acq On : 25 Sep 2020 16:24
Operator : JU/CG
Sample : L4152-01 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WR-PILE-1-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092520\
Data File : BF121698.D
Acq On : 25 Sep 2020 16:24
Operator : JU/CG
Sample : L4152-01 5X
Misc :
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Instrument : BNA_F
ClientSampleId : WR-PILE-1-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

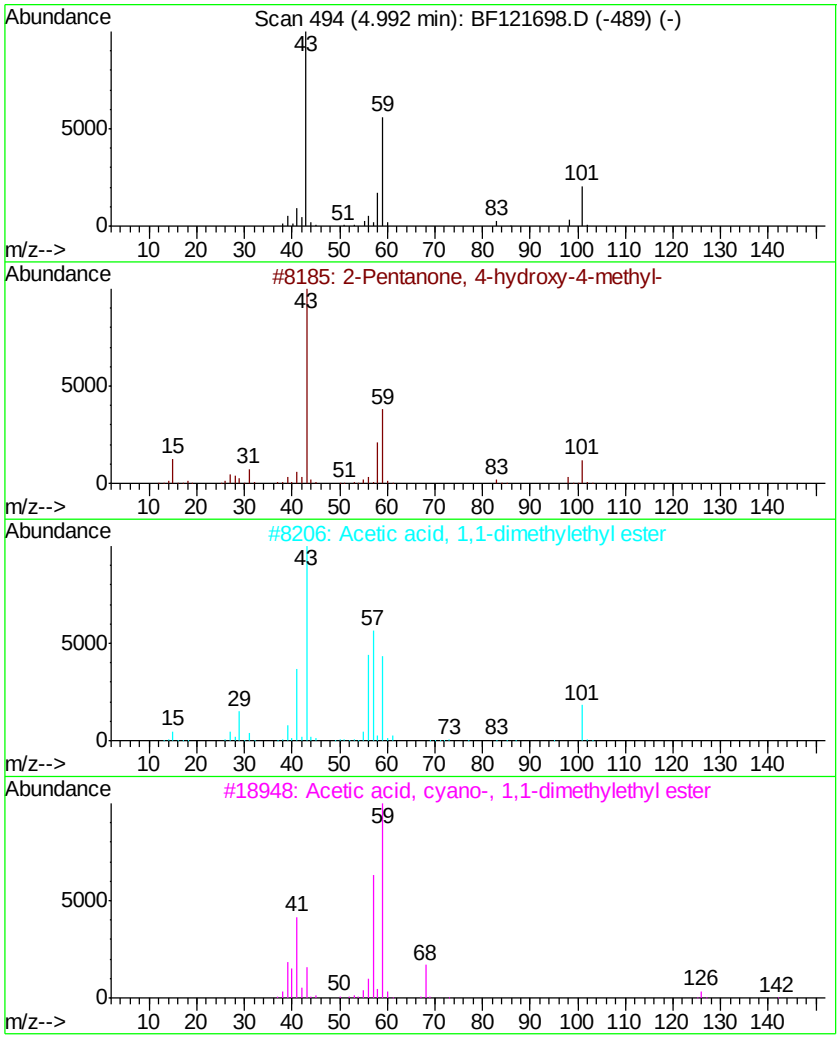
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

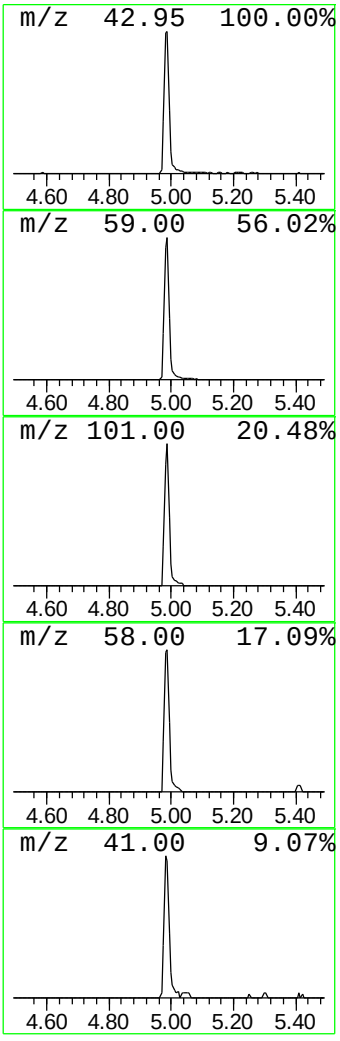
****

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.99	6.52 ng	288882	1,4-Dichlorobenzene-d4	6.80

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	64
2	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	39
3	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	23
4	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9
5	5-Hexen-2-one	98	C6H10O	000109-49-9	9





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092520\
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Operator : JU/CG
Sample : L4152-01 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WR-PILE-1-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

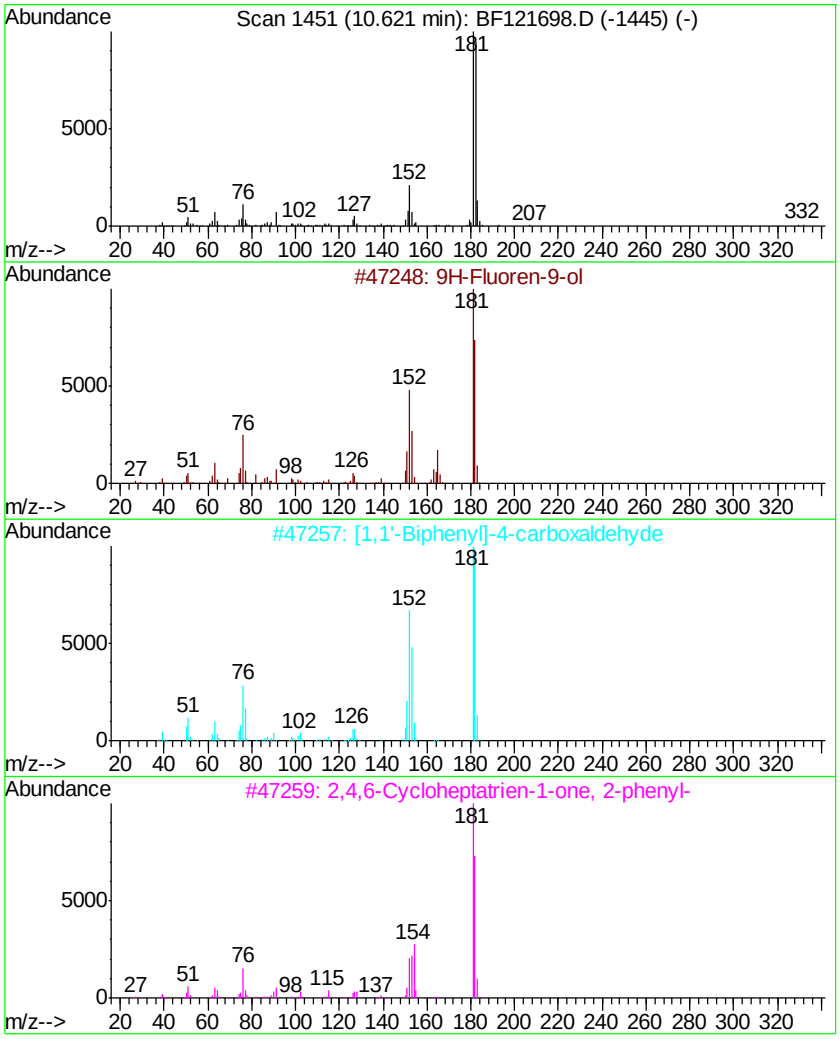
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

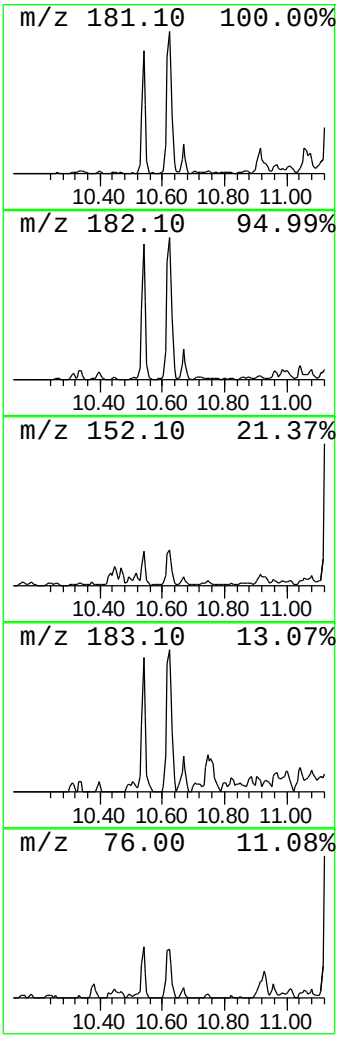
****

Peak Number 2 9H-Fluoren-9-ol Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.62	4.92 ng	347349	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	86
2	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	78
3	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	78
4	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	76
5	Norharmane, N-methyl-	182	C12H10N2	1000374-78-6	64





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092520\
Data File : BF121698.D
Acq On : 25 Sep 2020 16:24
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Sample : L4152-01 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WR-PILE-1-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

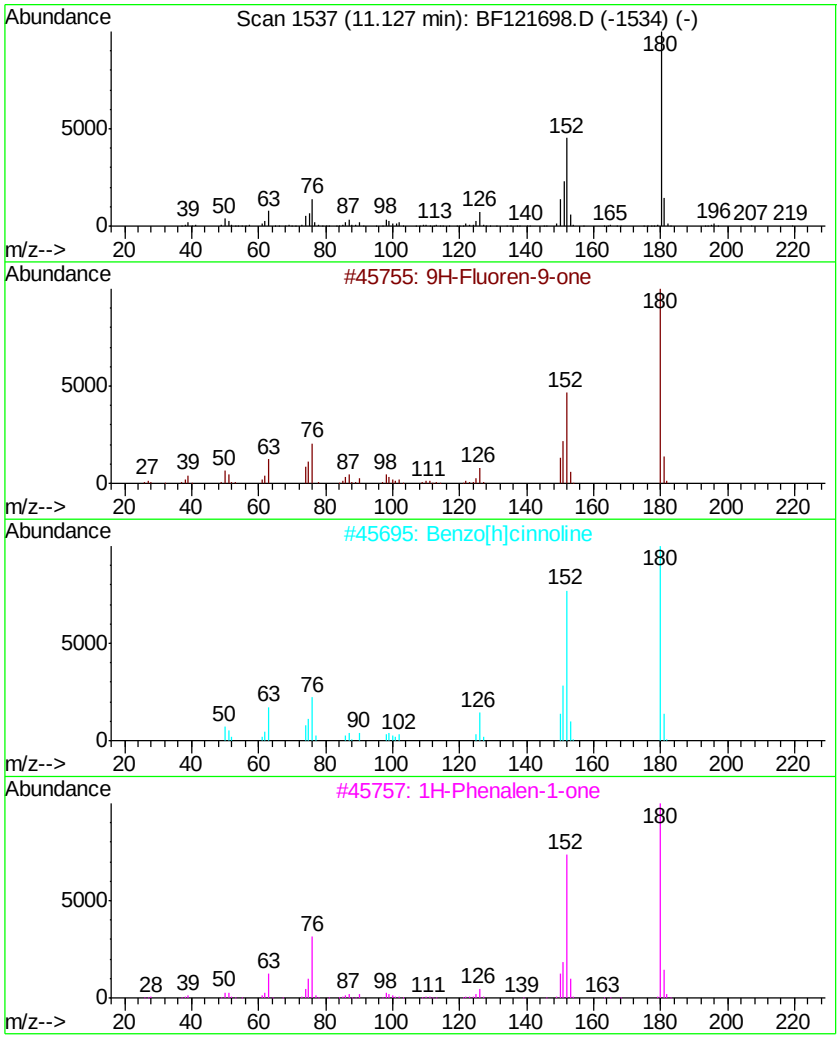
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

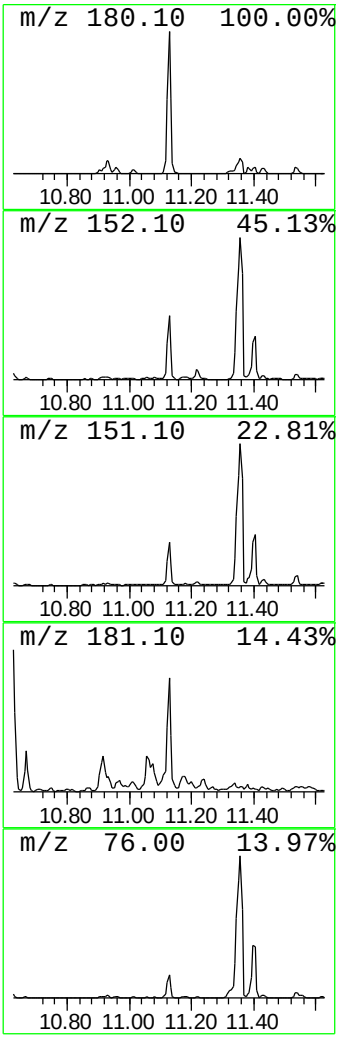
****

Peak Number 3 9H-Fluoren-9-one Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.13	8.95 ng	631488	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	96
2	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	91
3	1H-Phenalen-1-one	180	C13H8O	000548-39-0	64
4	2,3-Diazaphenanthrene	180	C12H8N2	000229-72-1	50
5	Phenazine	180	C12H8N2	000092-82-0	47





Library Search Compound Report

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Data File : BF121698.D
Acq On : 25 Sep 2020 16:24
Operator : JU/CG
Sample : L4152-01 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WR-PILE-1-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

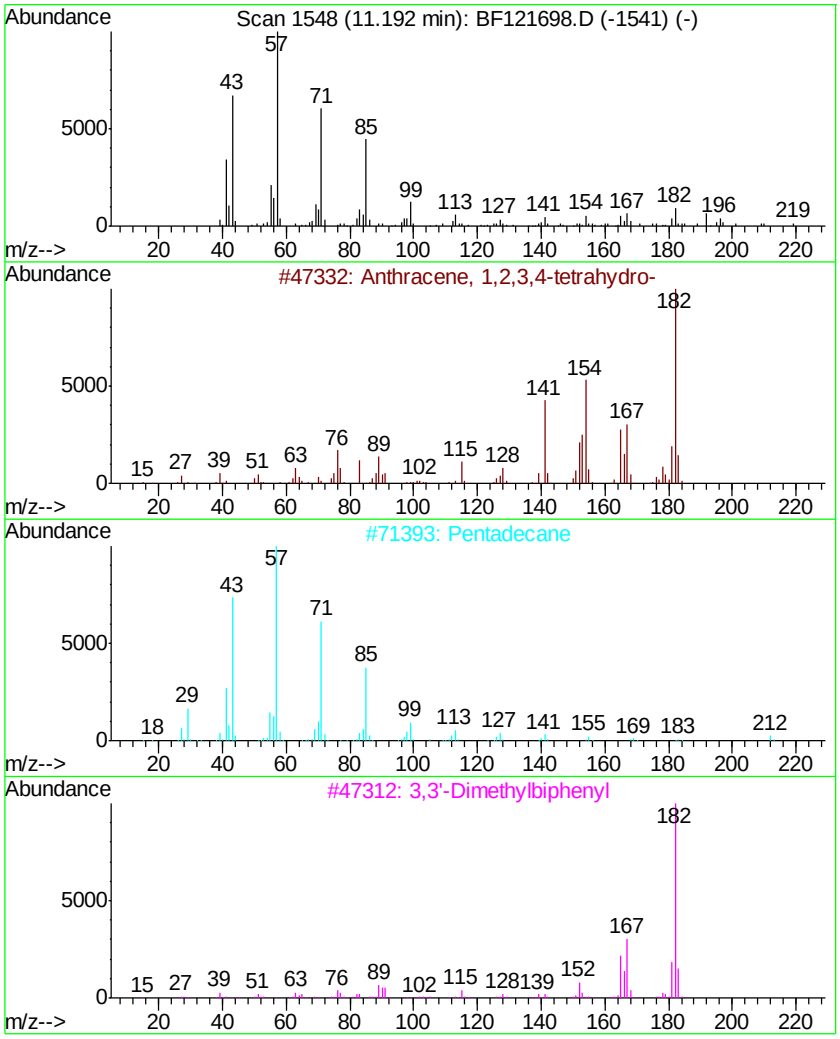
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

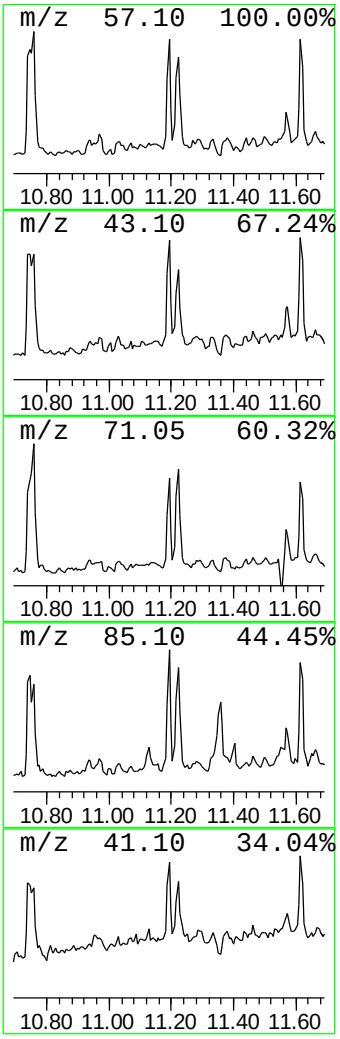
****

Peak Number 4 Anthracene, 1,2,3,4-tetrahy... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.19	4.34 ng	306272	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1,2,3,4-tetrahydro-	182	C14H14	002141-42-6	95
2	Pentadecane	212	C15H32	000629-62-9	60
3	3,3'-Dimethylbiphenyl	182	C14H14	000612-75-9	46
4	1,1'-Biphenyl, 3,4'-dimethyl-	182	C14H14	007383-90-6	42
5	.beta.-Carboline, 2-methyl-	182	C12H10N2	013099-99-5	38





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092520\
Data File : BF121698.D
Acq On : 25 Sep 2020 16:24
Operator : JU/CG
Sample : L4152-01 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WR-PILE-1-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

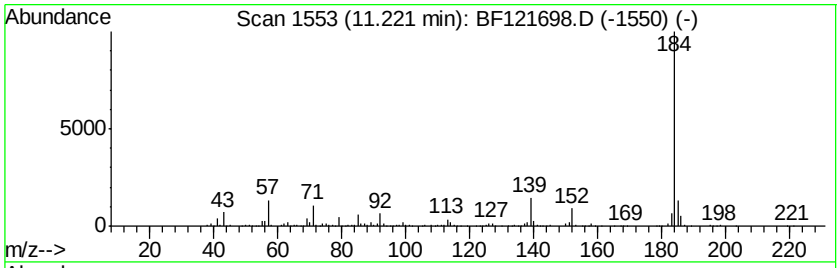
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

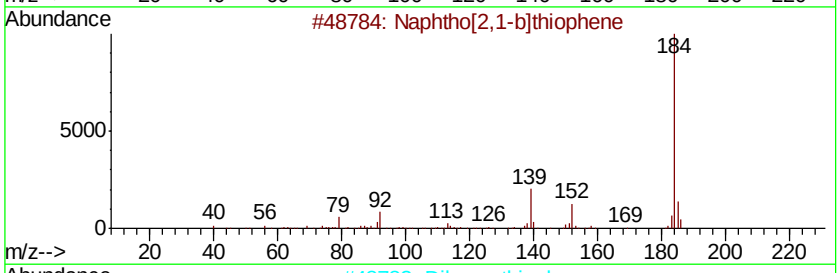
****

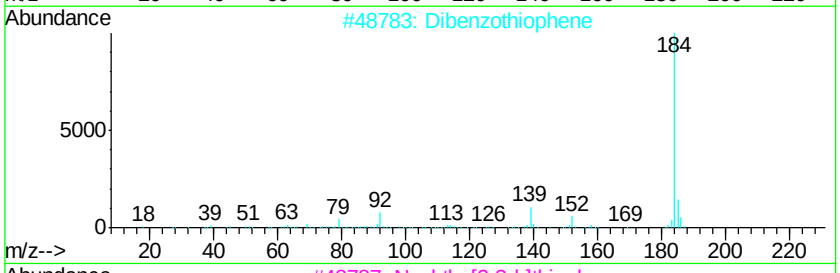
Peak Number 5 Naphtho[2,1-b]thiophene Concentration Rank 11

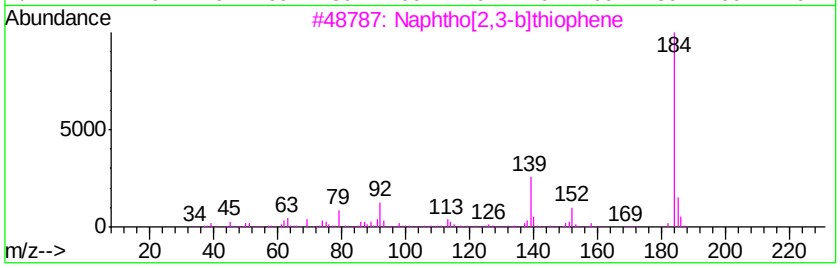
R.T.	EstConc	Area	Relative to ISTD	R.T.
11.22	7.74 ng	546309	Phenanthrene-d10	11.33

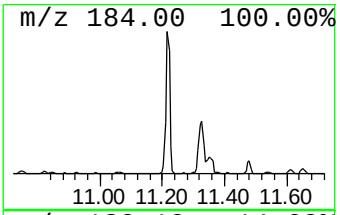
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	95
2	Dibenzothiophene	184	C12H8S	000132-65-0	94
3	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	94
4	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	87
5	Naphthalene, 2-ethenyl-6-methoxy-	184	C13H12O	063444-51-9	80

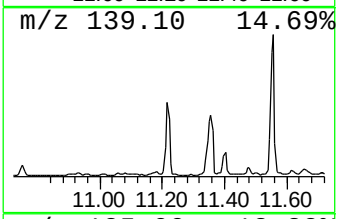


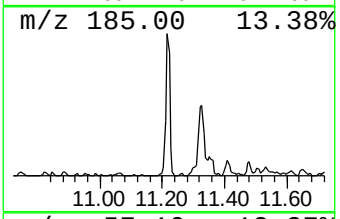


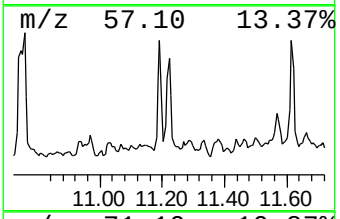


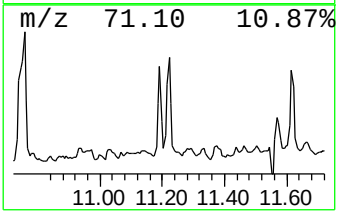












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Data File : BF121698.D
Acq On : 25 Sep 2020 16:24
Operator : JU/CG
Sample : L4152-01 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WR-PILE-1-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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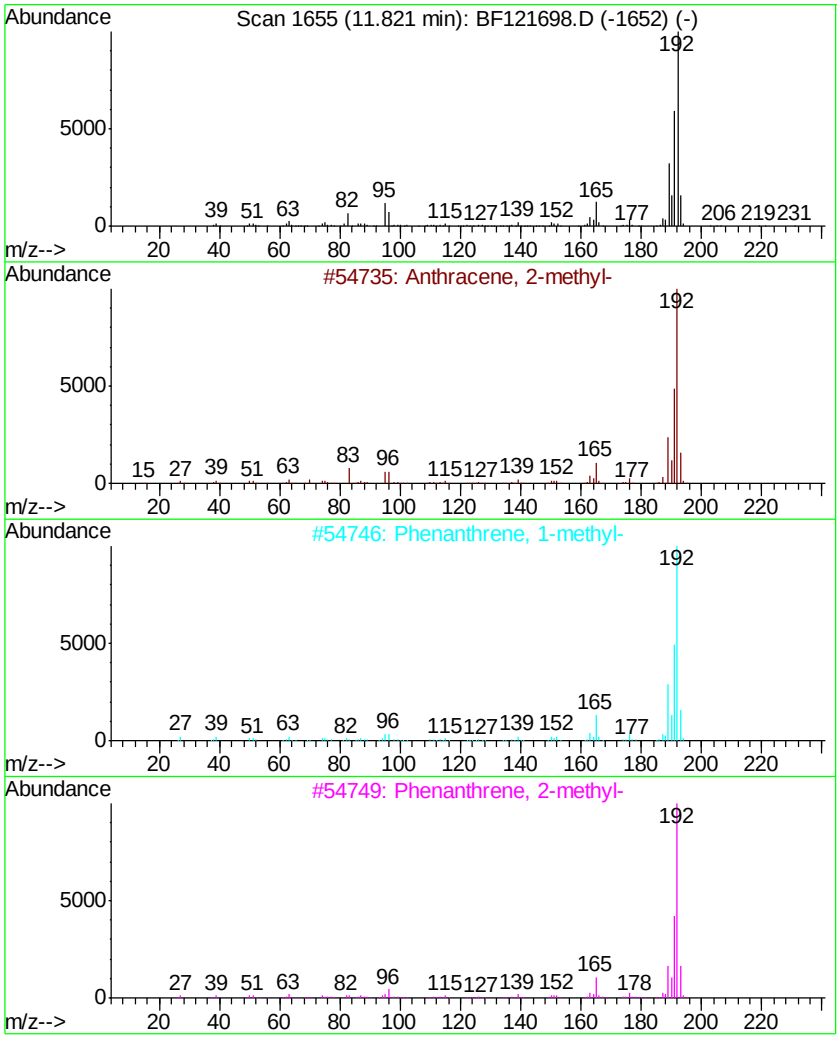
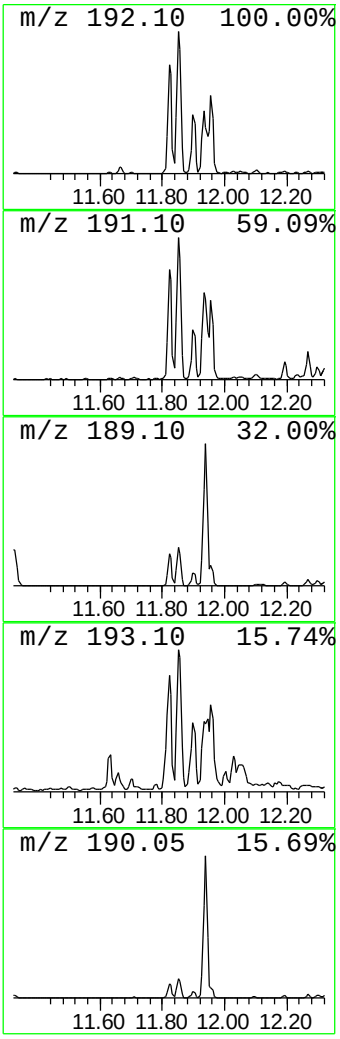
Peak Number 6 Anthracene, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.82	8.16 ng	575872	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	97
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
5	1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	93





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Operator : JU/CG
Sample : L4152-01 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WR-PILE-1-2

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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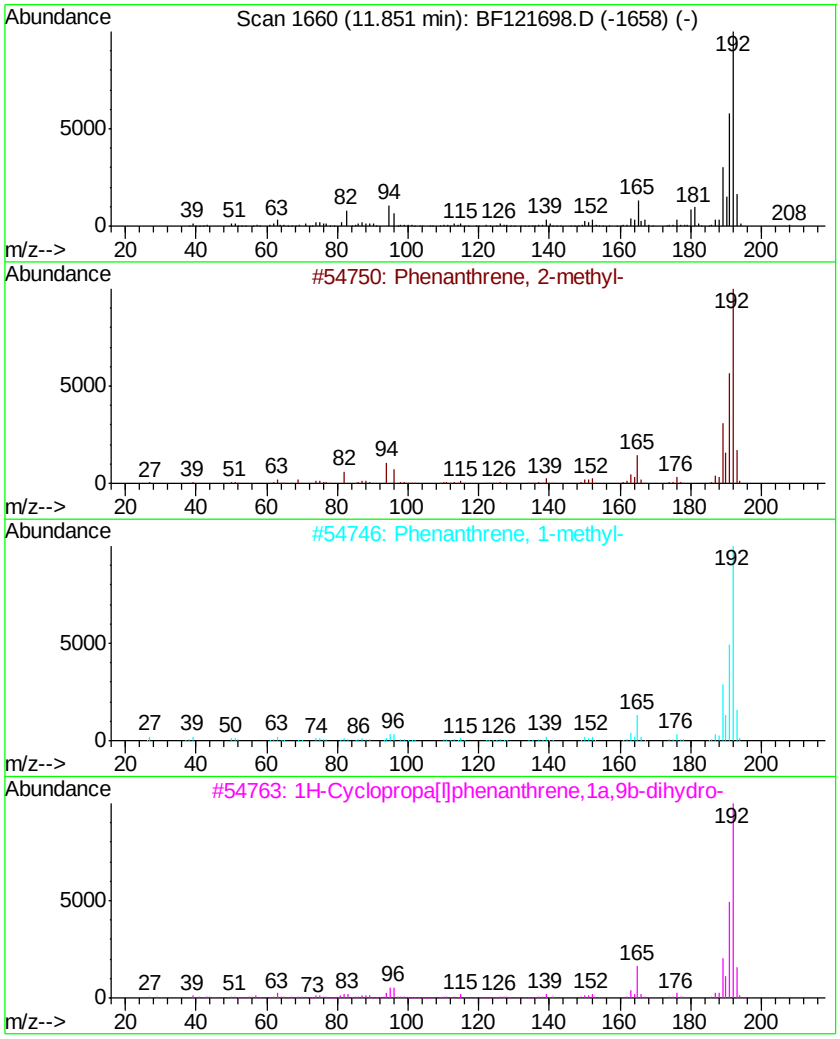
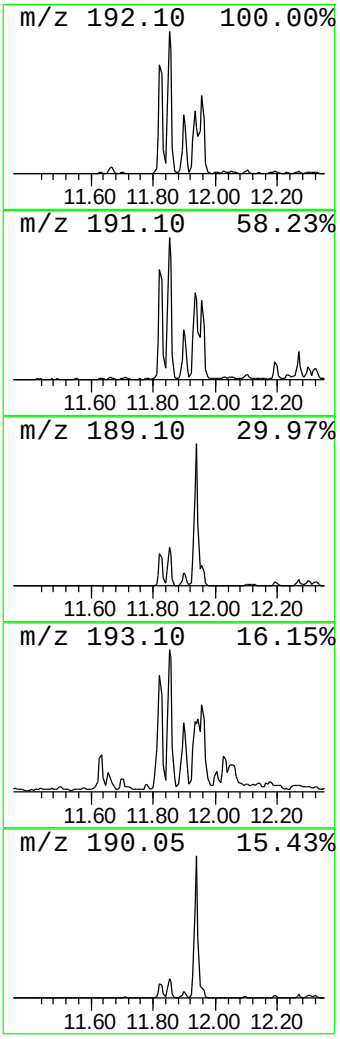
Peak Number 7 Phenanthrene, 2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.85	11.95 ng	843234	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	95





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Data File : BF121698.D
Acq On : 25 Sep 2020 16:24
Operator : JU/CG
Sample : L4152-01 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WR-PILE-1-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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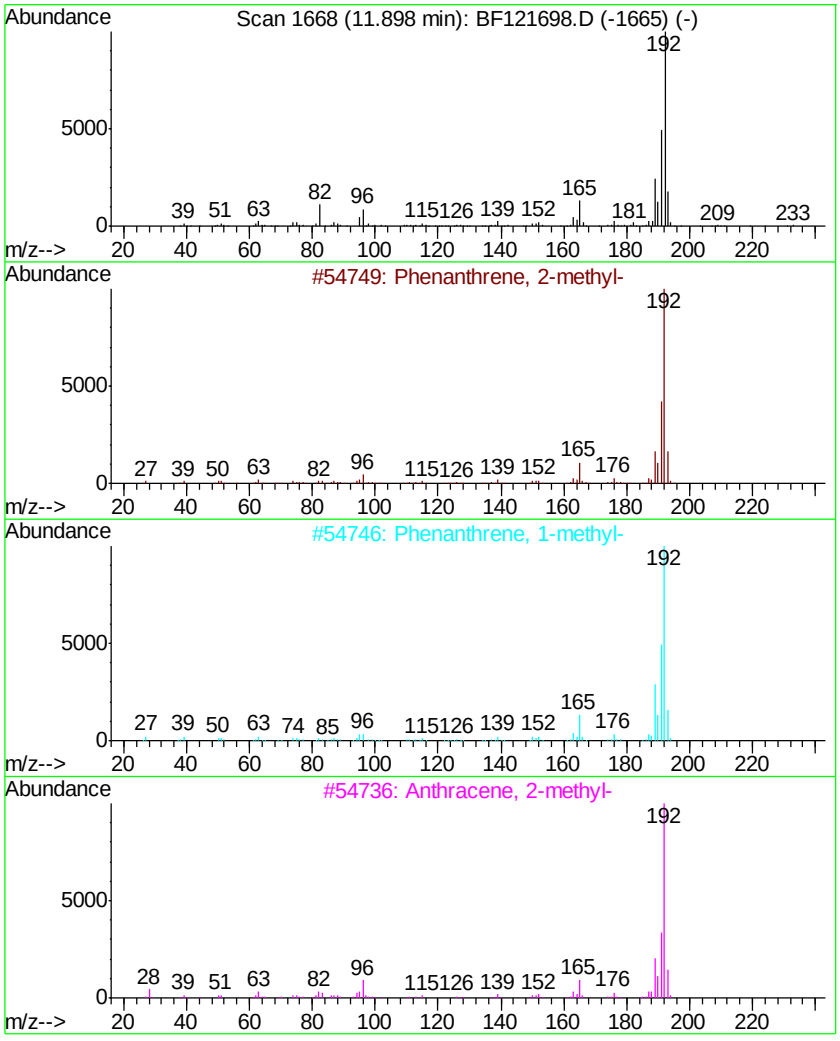
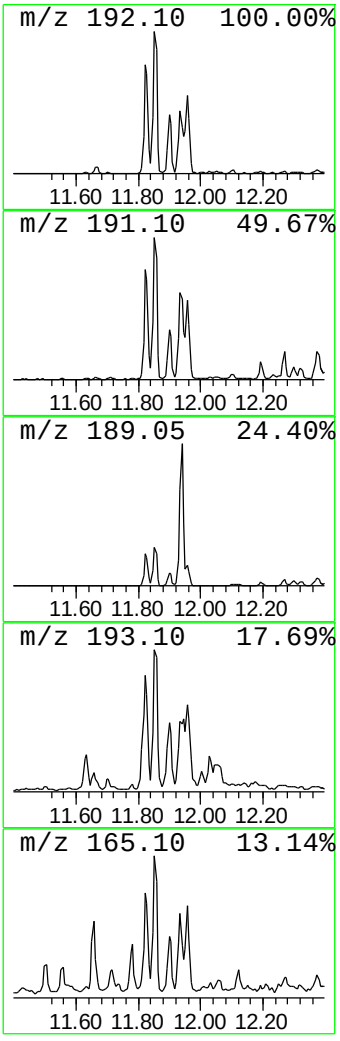
Peak Number 8 Phenanthrene, 1-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.90	4.22 ng	298153	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	94
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	94





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092520\
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Acq On : 25 Sep 2020 16:24
Operator : JU/CG
Sample : L4152-01 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WR-PILE-1-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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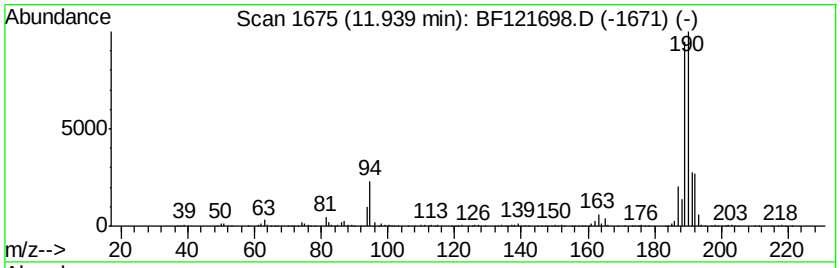
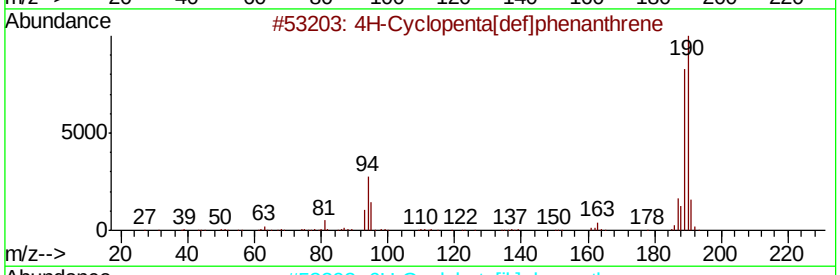
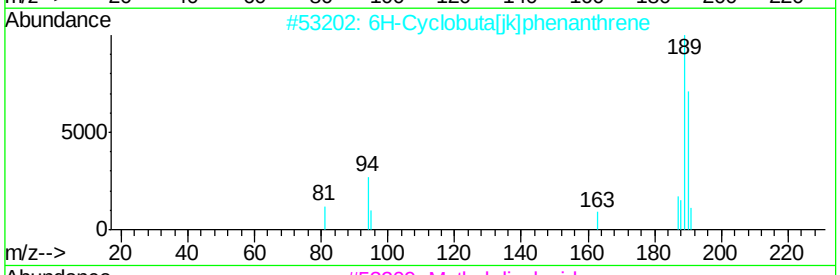
Peak Number 9 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

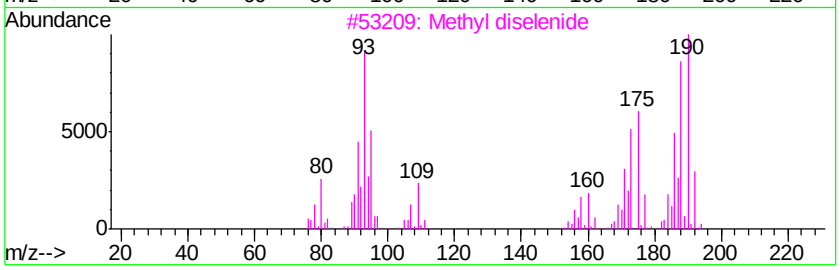
R.T.	EstConc	Area	Relative to ISTD	R.T.
11.94	17.39 ng	1227130	Phenanthrene-d10	11.33

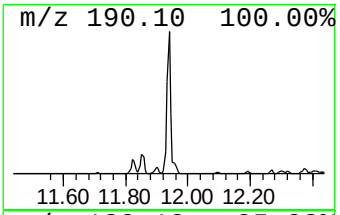
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	94
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	50
3	Methyl diselenide	190	C2H6Se2	007101-31-7	49
4	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	45
5	1,4-Naphthalenedione, 2,5-dihydr...	190	C10H6O4	004923-55-1	17

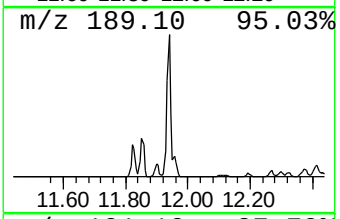


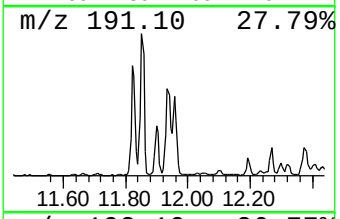


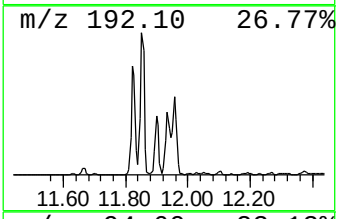


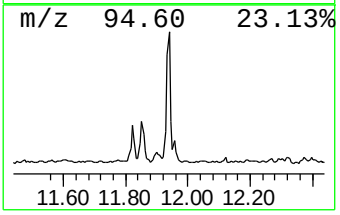












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Acq On : 25 Sep 2020 16:24
Operator : JU/CG
Sample : L4152-01 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WR-PILE-1-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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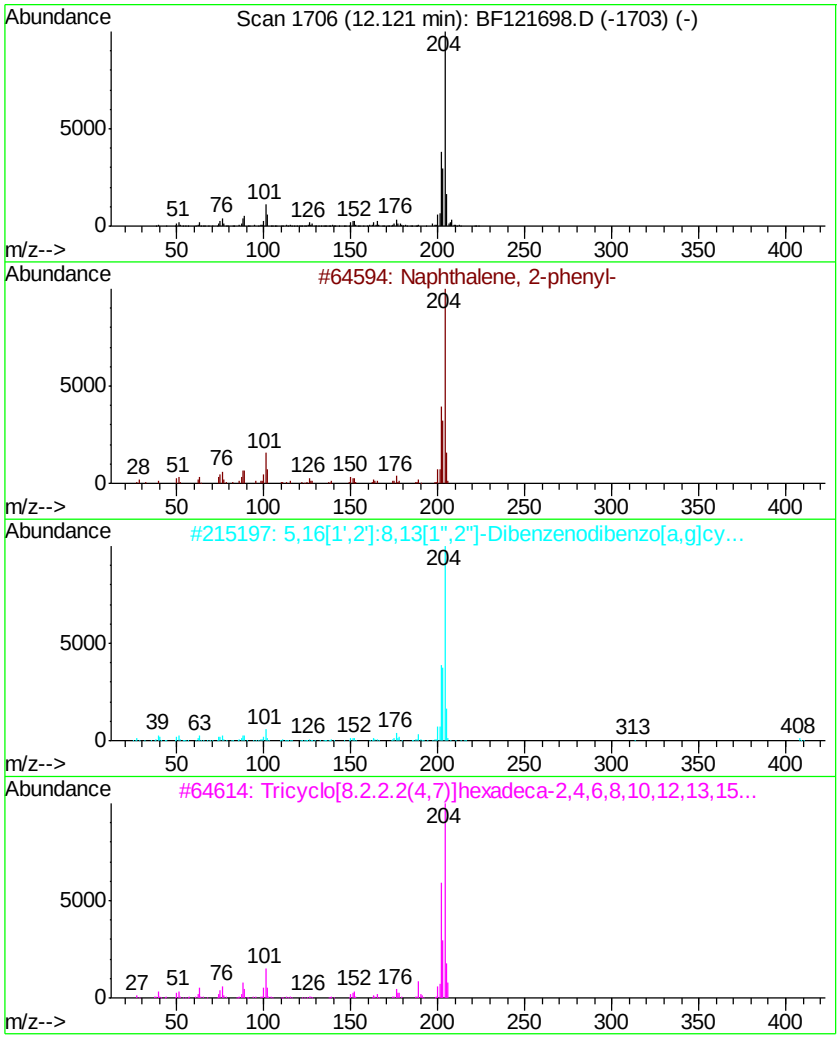
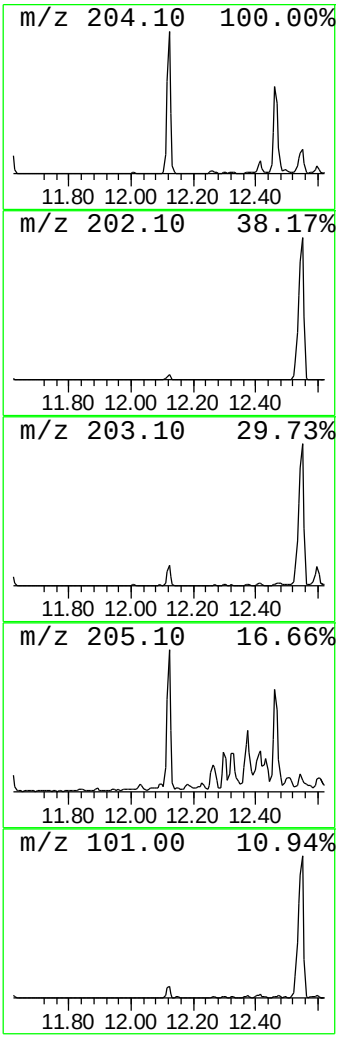
Peak Number 10 Naphthalene, 2-phenyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.12	7.79 ng	550098	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	95
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	91
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	68
4	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	68
5	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	60





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Acq On : 25 Sep 2020 16:24
Operator : JU/CG
Sample : L4152-01 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WR-PILE-1-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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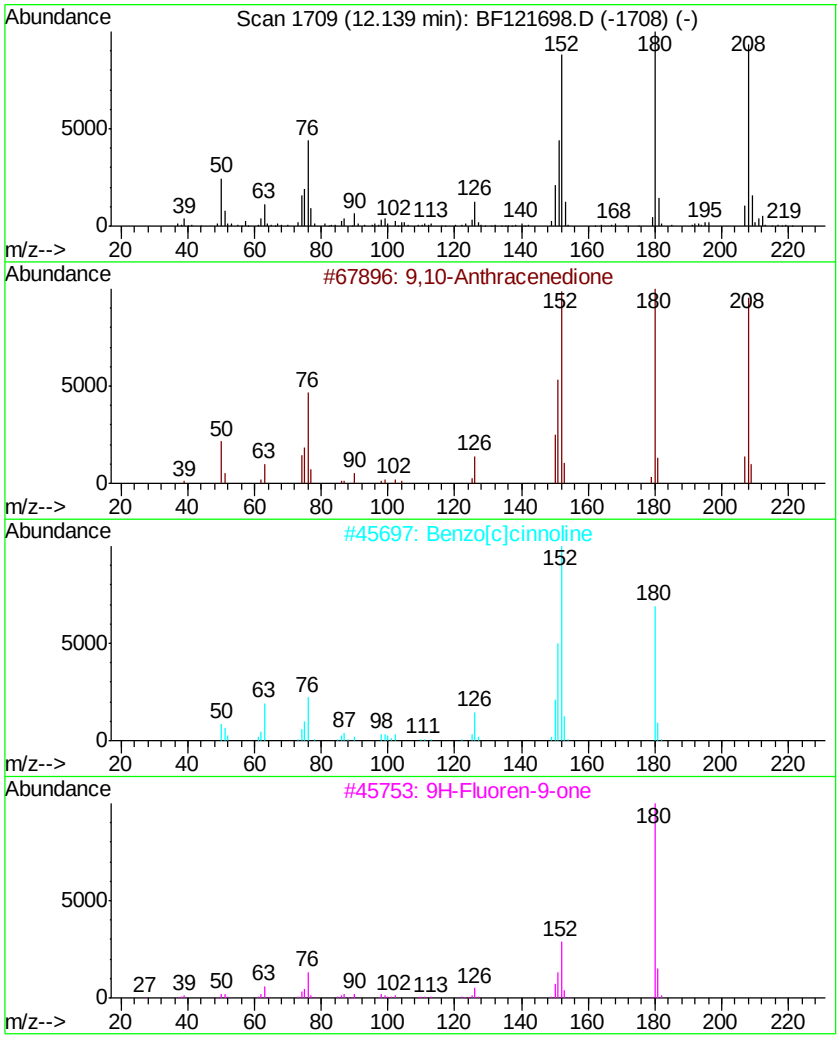
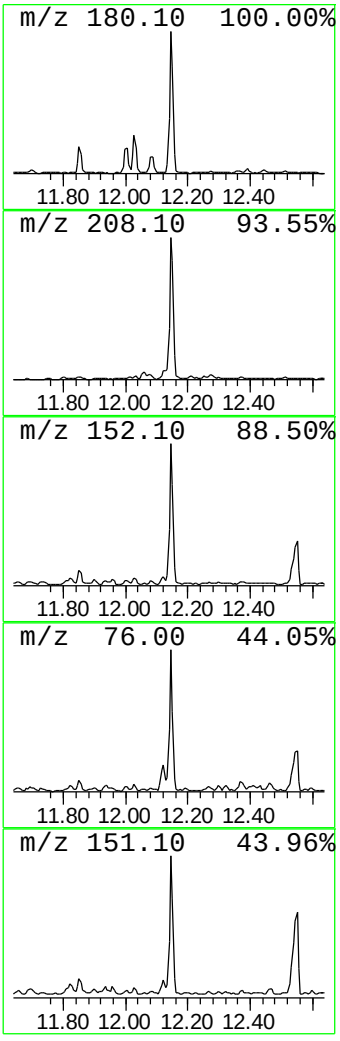
Peak Number 11 9,10-Anthracenedione Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.14	8.48 ng	598524	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	99
2	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	93
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	70
4	1H-Phenalen-1-one	180	C13H8O	000548-39-0	60
5	1,3-Benzenedicarboxaldehyde, 2,4...	180	C9H8O4	010209-57-1	47





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Data File : BF121698.D
Acq On : 25 Sep 2020 16:24
Operator : JU/CG
Sample : L4152-01 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WR-PILE-1-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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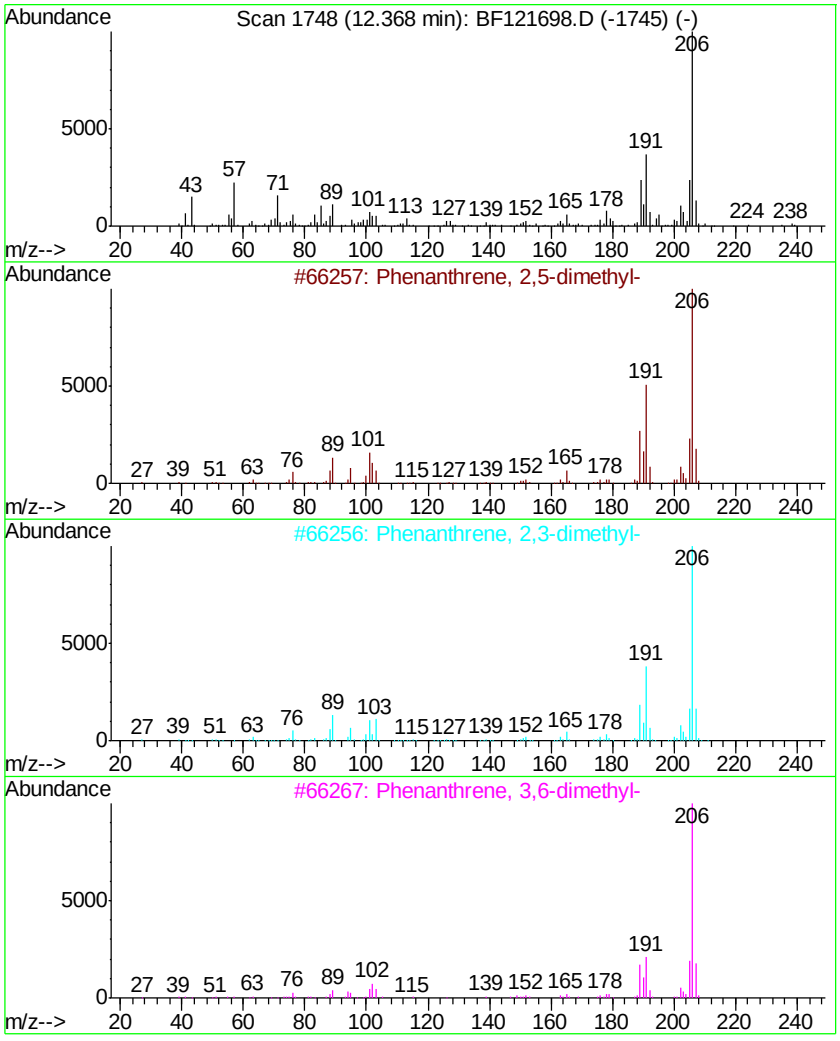
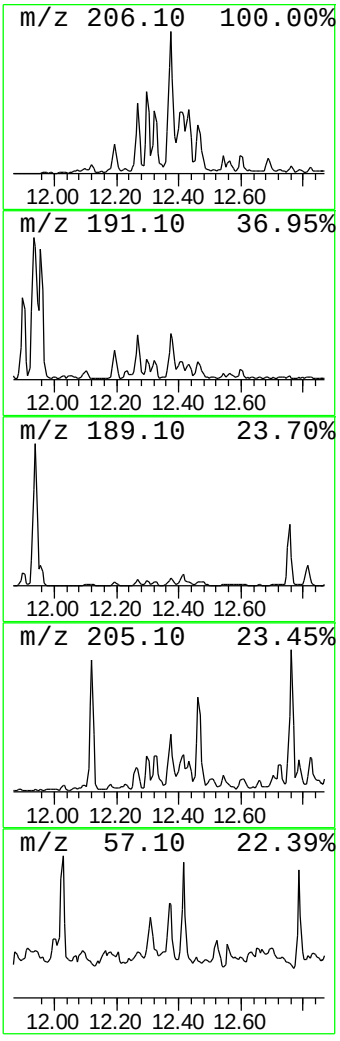
Peak Number 12 Phenanthrene, 2,5-dimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.37	4.75 ng	335131	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	95
2	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
5	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	89





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Acq On : 25 Sep 2020 16:24
Operator : JU/CG
Sample : L4152-01 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WR-PILE-1-2

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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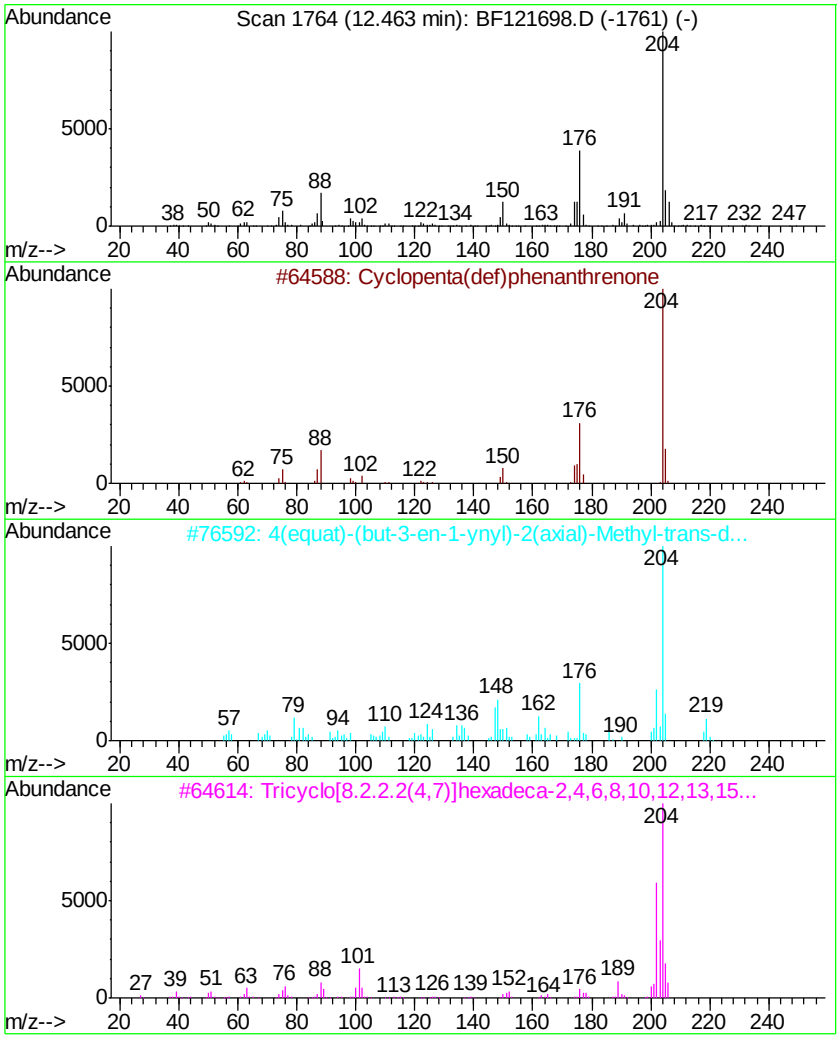
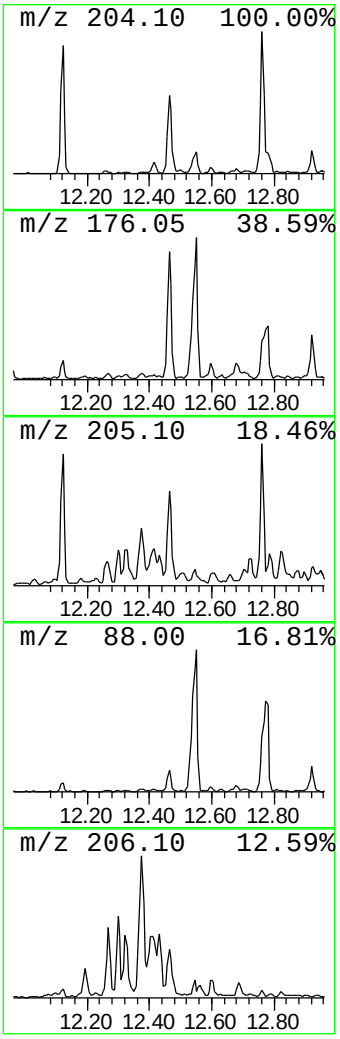
Peak Number 13 Cyclopenta(def)phenanthrenone Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.46	6.28 ng	443536	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	96
2	4(equat)-(but-3-en-1-ynyl)-2(axi...	219	C14H21NO	038423-22-2	53
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	47
4	Ethyl 2,3,4,6-tetrakis-O-(trimet...	496	C20H48O6Si4	1000365-90-0	43
5	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	42





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Data File : BF121698.D
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Sample : L4152-01 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WR-PILE-1-2

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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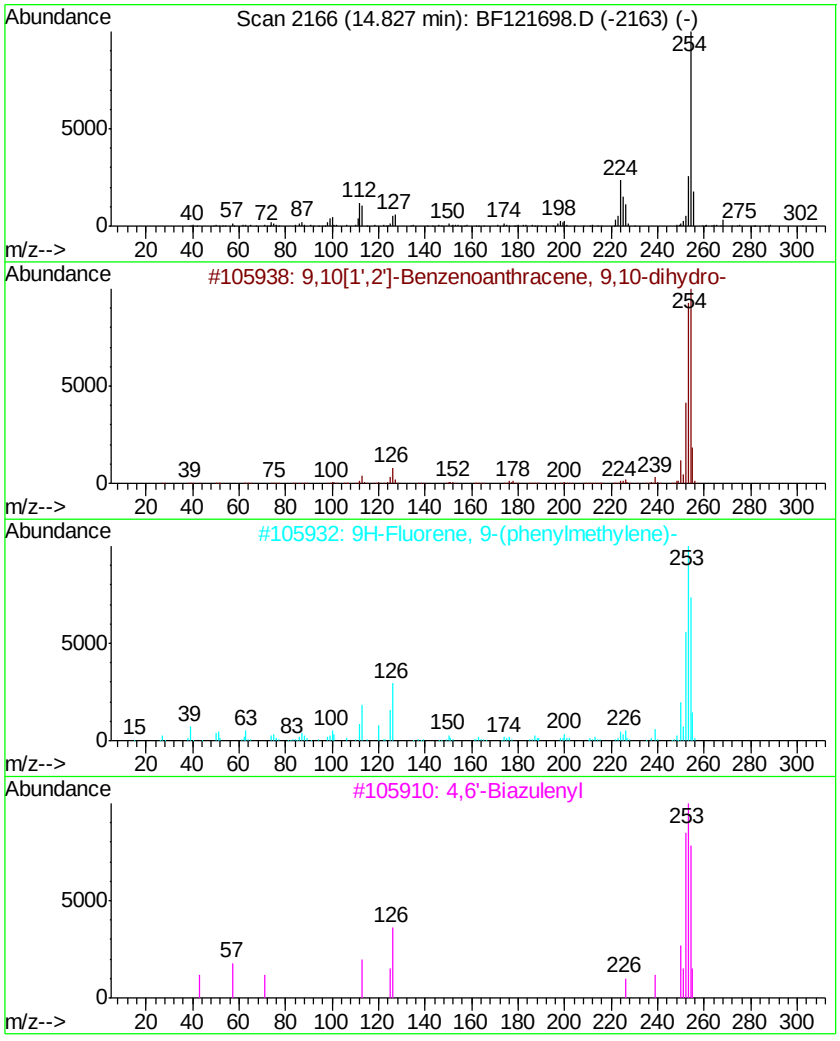
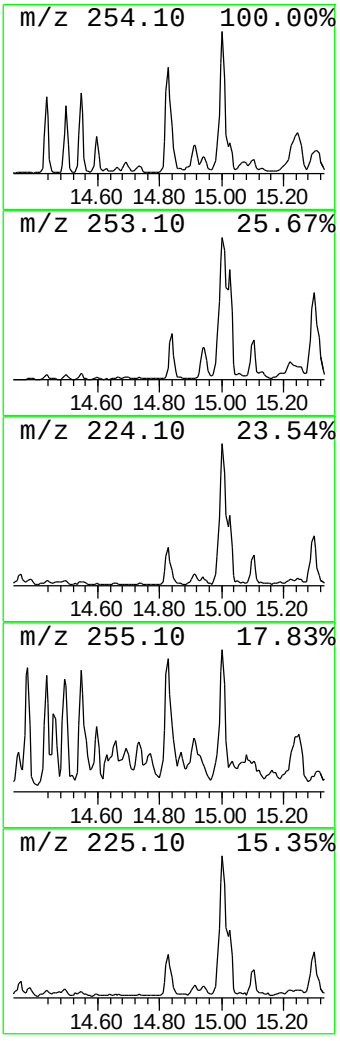
Peak Number 14 9,10[1',2']-Benzenoanthrace... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.83	4.92 ng	253322	Perylene-d12	15.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10[1',2']-Benzenoanthracene, 9...	254	C20H14	000477-75-8	87
2	9H-Fluorene, 9-(phenylmethylene)-	254	C20H14	001836-87-9	83
3	4,6'-Biazulenyl	254	C20H14	094154-49-1	80
4	4,5-Dihydrobenzo[e]pyrene	254	C20H14	095676-42-9	74
5	2H-Pyrazolo[3',4':5,6]pyrimido[2...	254	C13H10N4O2	1000318-77-9	64





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Data File : BF121698.D
Acq On : 25 Sep 2020 16:24
Operator : JU/CG
Sample : L4152-01 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WR-PILE-1-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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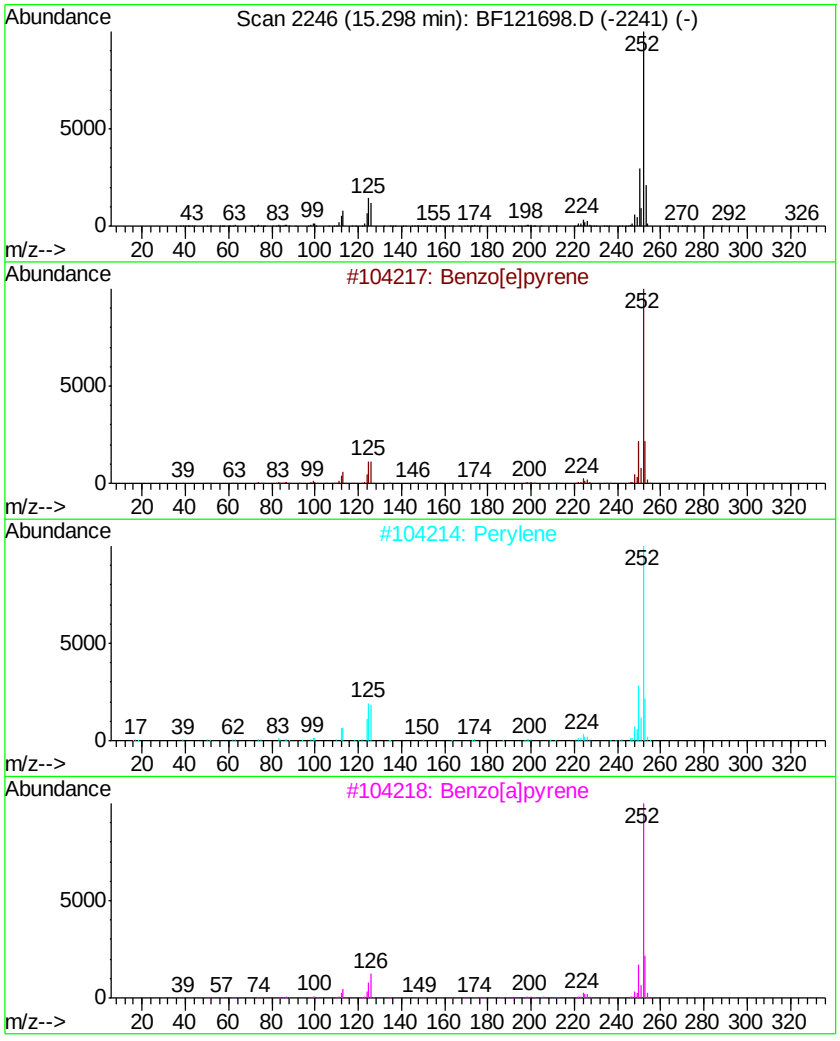
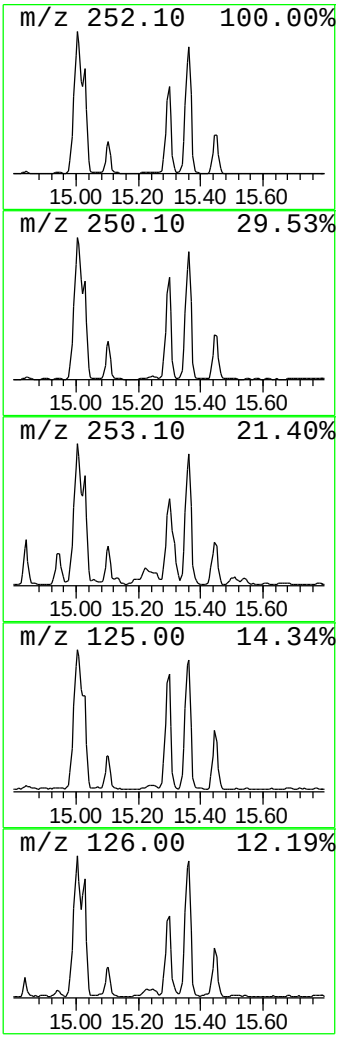
Peak Number 16 Benzo[e]pyrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.30	32.00 ng	1646650	Perylene-d12	15.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Perylene	252	C20H12	000198-55-0	95
3	Benzo[a]pyrene	252	C20H12	000050-32-8	93
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	89





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092520\
Data File : BF121698.D
Acq On : 25 Sep 2020 16:24
Operator : JU/CG
Sample : L4152-01 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WR-PILE-1-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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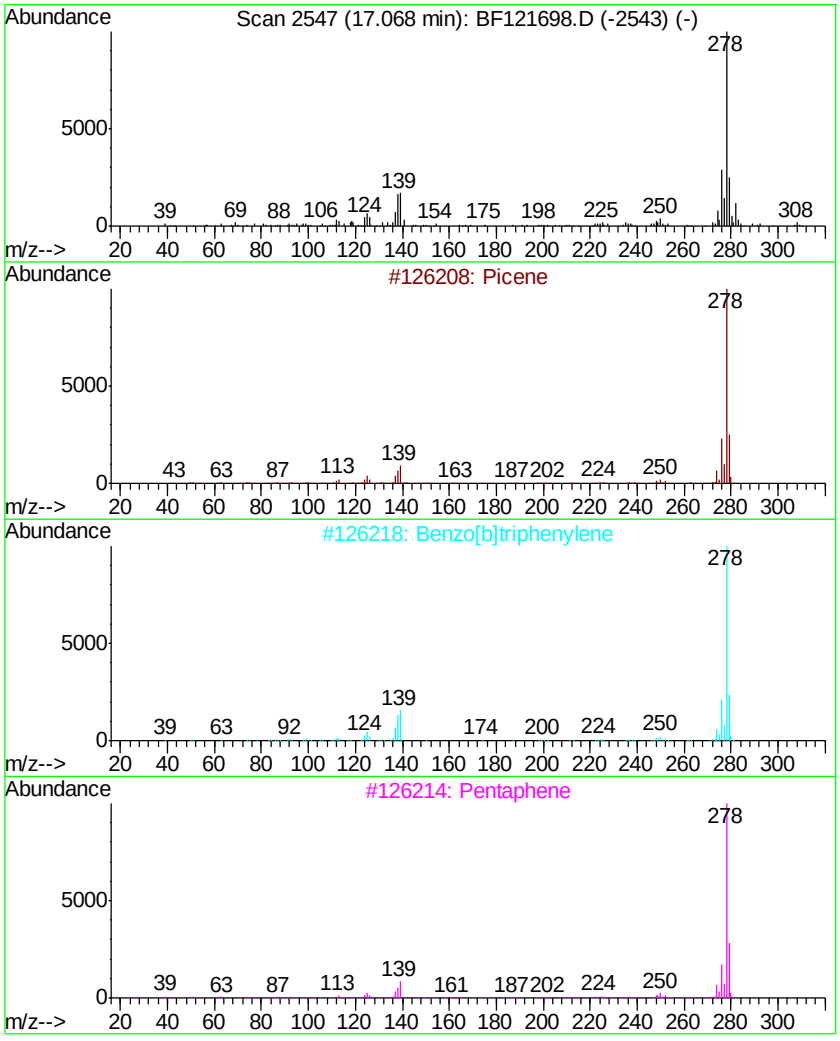
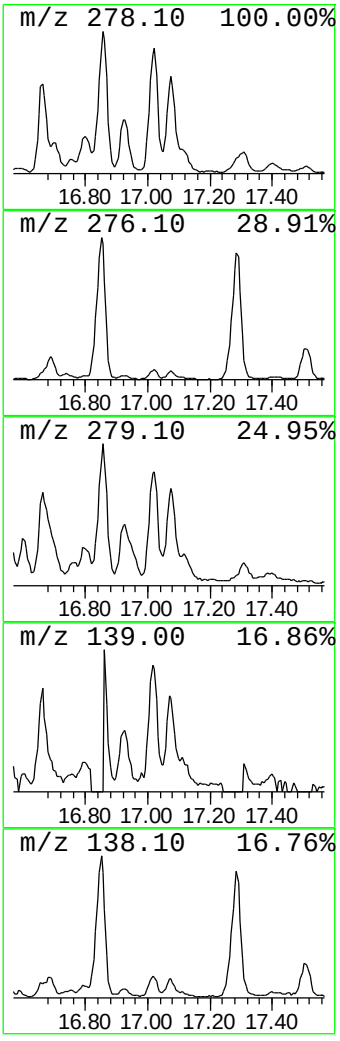
Peak Number 19 Picene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.07	4.90 ng	252353	Perylene-d12	15.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Picene	278	C22H14	000213-46-7	96
2	Benzo[b]triphenylene	278	C22H14	000215-58-7	96
3	Pentaphene	278	C22H14	000222-93-5	95
4	Benzo[b]chrysene	278	C22H14	000214-17-5	95
5	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	94





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF092520\
Data File : BF121698.D
Acq On : 25 Sep 2020 16:24
Operator : JU/CG
Sample : L4152-01 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WR-PILE-1-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-hy...	4.99	6.5	ng	288882	1	6.80	885531	20.0
9H-Fluoren-9-ol	10.62	4.9	ng	347349	4	11.33	1411520	20.0
9H-Fluoren-9-one	11.13	8.9	ng	631488	4	11.33	1411520	20.0
Anthracene, 1,2,3...	11.19	4.3	ng	306272	4	11.33	1411520	20.0
Naphtho[2,1-b]thi...	11.22	7.7	ng	546309	4	11.33	1411520	20.0
Anthracene, 2-met...	11.82	8.2	ng	575872	4	11.33	1411520	20.0
Phenanthrene, 2-m...	11.85	11.9	ng	843234	4	11.33	1411520	20.0
Phenanthrene, 1-m...	11.90	4.2	ng	298153	4	11.33	1411520	20.0
4H-Cyclopenta[def...	11.94	17.4	ng	1227130	4	11.33	1411520	20.0
Naphthalene, 2-ph...	12.12	7.8	ng	550098	4	11.33	1411520	20.0
9,10-Anthracenedione	12.14	8.5	ng	598524	4	11.33	1411520	20.0
Phenanthrene, 2,5...	12.37	4.8	ng	335131	4	11.33	1411520	20.0
Cyclopenta(def)ph...	12.46	6.3	ng	443536	4	11.33	1411520	20.0
9,10[1',2']-Benze...	14.83	4.9	ng	253322	6	15.42	1029270	20.0
Benzo[e]pyrene	15.30	32.0	ng	1646650	6	15.42	1029270	20.0
Picene	17.07	4.9	ng	252353	6	15.42	1029270	20.0