LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF120319\
Data File : BF118081.D
Acq On : 4 Dec 2019 00:03
Operator : JU
Sample : K6024-03
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-3-(0.5-1.0)

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-BF111319.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	2.140	3	9	17	rVB	525693	666475	15.25%	0.973%
2	2.510	67	72	80	rVB	33780	49872	1.14%	0.073%
3	5.087	506	510	518	rBV	417862	505599	11.57%	0.738%
4	5.498	575	580	583	rBV	2615133	2401924	54.97%	3.507%
5	6.510	748	752	755	rBV	2778331	2635800	60.33%	3.848%
6	6.651	771	776	779	rBV	3289410	2880071	65.92%	4.205%
7	6.881	811	815	821	rVB	1007518	847509	19.40%	1.237%
8	7.033	837	841	845	rBV	2489964	2280733	52.20%	3.330%
9	7.439	906	910	914	rBV	1766324	1721910	39.41%	2.514%
10	8.163	1030	1033	1036	rBV	1152138	1042405	23.86%	1.522%
11	8.880	1152	1155	1159	rVB	65943	51716	1.18%	0.076%
12	8.980	1169	1172	1176	rVB	71063	55762	1.28%	0.081%
13	9.245	1213	1217	1220	rBV	3899939	3143829	71.95%	4.590%
14	9.516	1256	1263	1267	rBV2	35193	52970	1.21%	0.077%
15	9.586	1271	1275	1277	rBV	80104	78883	1.81%	0.115%
16	9.639	1281	1284	1288	rVB	616301	502783	11.51%	0.734%
17	9.704	1291	1295	1297	rBV2	50202	47135	1.08%	0.069%
18	9.786	1306	1309	1313	rBV	230914	192807	4.41%	0.282%
19	9.851	1313	1320	1323	rVV3	30712	55482	1.27%	0.081%
20	9.927	1327	1333	1336	rBV	1584711	1270514	29.08%	1.855%
21	9.963	1336	1339	1342	rVB	222691	196345	4.49%	0.287%
22	10.080	1355	1359	1363	rBV4	36355	53667	1.23%	0.078%
23	10.133	1363	1368	1372	rVV2	183323	193208	4.42%	0.282%
24	10.245	1383	1387	1390	rBV3	63040	67067	1.53%	0.098%
25	10.274	1390	1392	1398	rVB	46914	46756	1.07%	0.068%
26	10.333	1398	1402	1404	rBV2	58032	73628	1.69%	0.108%
27	10.474	1423	1426	1432	rBV2	211774	225249	5.16%	0.329%
28	10.545	1432	1438	1440	rBV	55562	80828	1.85%	0.118%
29	10.633	1451	1453	1457	rVB	103533	86837	1.99%	0.127%
30	10.721	1464	1468	1472	rBV	2412765	2063175	47.22%	3.012%
31	10.845	1484	1489	1495	rVB5	110305	142438	3.26%	0.208%
32	11.027	1518	1520	1523	rVB2	65392	58321	1.33%	0.085%
33	11.157	1537	1542	1544	rBV3	90489	107701	2.46%	0.157%
34	11.180	1544	1546	1551	rVV	93565	107315	2.46%	0.157%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF120319\
Data File : BF118081.D
Acq On : 4 Dec 2019 00:03
Operator : JU
Sample : K6024-03
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-3-(0.5-1.0)

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-BF111319.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.227	1551	1554	1558	rVV	255454	233263	5.34%	0.341%
36	11.280	1558	1563	1567	rVV3	101887	192465	4.40%	0.281%
37	11.316	1567	1569	1574	rVB	218844	208545	4.77%	0.304%
38	11.421	1584	1587	1589	rBV	1178105	1115917	25.54%	1.629%
39	11.451	1589	1592	1595	rVV	3596263	2954321	67.62%	4.314%
40	11.498	1597	1600	1603	rVV	744640	600263	13.74%	0.876%
41	11.527	1603	1605	1609	rVB2	97664	102027	2.34%	0.149%
42	11.651	1621	1626	1629	rBV2	353680	396500	9.07%	0.579%
43	11.716	1634	1637	1641	rVV3	122696	130525	2.99%	0.191%
44	11.757	1641	1644	1649	rVV3	105444	118206	2.71%	0.173%
45	11.880	1662	1665	1667	rVB	65463	60408	1.38%	0.088%
46	11.927	1669	1673	1674	rVV	500902	430394	9.85%	0.628%
47	11.951	1674	1677	1680	rVV2	1073125	1112227	25.46%	1.624%
48	11.980	1680	1682	1684	rVV	200656	166916	3.82%	0.244%
49	12.004	1684	1686	1688	rVB	174060	139202	3.19%	0.203%
50	12.039	1688	1692	1694	rBV2	642204	674984	15.45%	0.986%
51	12.063	1694	1696	1699	rVB	366138	284005	6.50%	0.415%
52	12.110	1701	1704	1705	rBV2	58672	67393	1.54%	0.098%
53	12.221	1720	1723	1725	rBV	380058	281821	6.45%	0.411%
54	12.251	1725	1728	1731	rVB	358497	325785	7.46%	0.476%
55	12.298	1734	1736	1740	rBV2	56488	59894	1.37%	0.087%
56	12.374	1746	1749	1751	rVB	137866	120968	2.77%	0.177%
57	12.404	1751	1754	1756	rBV	116665	90468	2.07%	0.132%
58	12.427	1756	1758	1760	rVB	102372	77235	1.77%	0.113%
59	12.480	1763	1767	1770	rBV2	271566	359517	8.23%	0.525%
60	12.515	1770	1773	1775	rVV2	141457	165170	3.78%	0.241%
61	12.568	1779	1782	1787	rVB	333799	338429	7.75%	0.494%
62	12.651	1791	1796	1799	rBV	4439599	4232055	96.86%	6.179%
63	12.704	1804	1805	1808	rVV2	108403	82842	1.90%	0.121%
64	12.733	1808	1810	1814	rVV	401648	375376	8.59%	0.548%
65	12.774	1815	1817	1819	rVV2	115340	127041	2.91%	0.185%
66	12.798	1819	1821	1824	rVV	150581	145095	3.32%	0.212%
67	12.880	1828	1835	1838	rBV2	3786494	4369313	100.00%	6.380%
68	12.921	1840	1842	1847	rVB2	204731	212888	4.87%	0.311%
69	12.992	1851	1854	1855	rVV	253273	248694	5.69%	0.363%
70	13.015	1855	1858	1865	rVB	2527085	2479854	56.76%	3.621%
71	13.092	1866	1871	1874	rBV2	296365	506659	11.60%	0.740%

LSC Area Percent Report

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Data File : BF118081.D
Acq On : 4 Dec 2019 00:03
Operator : JU
Sample : K6024-03
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-3-(0.5-1.0)

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-BF111319.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.121	1874	1876	1878	rVV	184476	148138	3.39%	0.216%
73	13.180	1882	1886	1887	rVV3	260770	301459	6.90%	0.440%
74	13.198	1887	1889	1893	rVB	442371	448566	10.27%	0.655%
75	13.268	1898	1901	1903	rBV	200727	144950	3.32%	0.212%
76	13.304	1904	1907	1910	rBV2	410770	440372	10.08%	0.643%
77	13.362	1915	1917	1920	rBV2	100796	96243	2.20%	0.141%
78	13.398	1921	1923	1926	rVV	229403	189946	4.35%	0.277%
79	13.433	1926	1929	1932	rVV	253442	258015	5.91%	0.377%
80	13.521	1941	1944	1947	rVB	257847	240013	5.49%	0.350%
81	13.709	1974	1976	1981	rVB	442373	433936	9.93%	0.634%
82	13.821	1992	1995	1998	rBV2	441537	505991	11.58%	0.739%
83	13.851	1998	2000	2002	rVV	381985	334069	7.65%	0.488%
84	13.874	2002	2004	2008	rVV2	344727	505077	11.56%	0.737%
85	13.921	2008	2012	2015	rVB2	484216	590771	13.52%	0.863%
86	14.074	2031	2038	2041	rBV2	2345872	3623058	82.92%	5.290%
87	14.109	2041	2044	2051	rVB	2028510	2033229	46.53%	2.969%
88	14.186	2054	2057	2061	rVB	223461	211466	4.84%	0.309%
89	14.257	2067	2069	2073	rVB2	457086	472059	10.80%	0.689%
90	14.462	2102	2104	2107	rVB	410586	351005	8.03%	0.512%
91	14.498	2108	2110	2114	rVB2	206336	191651	4.39%	0.280%
92	14.592	2123	2126	2128	rBV	259296	263605	6.03%	0.385%
93	15.145	2215	2220	2223	rBV	1706936	2767796	63.35%	4.041%
94	15.251	2235	2238	2241	rVB	301494	293336	6.71%	0.428%
95	15.456	2269	2273	2279	rVB	945094	1336724	30.59%	1.952%
96	15.521	2279	2284	2289	rBV	1455474	1844092	42.21%	2.693%
97	15.586	2291	2295	2298	rBV2	721852	1029829	23.57%	1.504%
98	17.103	2548	2553	2561	rVB2	539932	1064031	24.35%	1.554%
99	17.562	2626	2631	2640	rVB2	387117	796570	18.23%	1.163%

Sum of corrected areas: 68489376

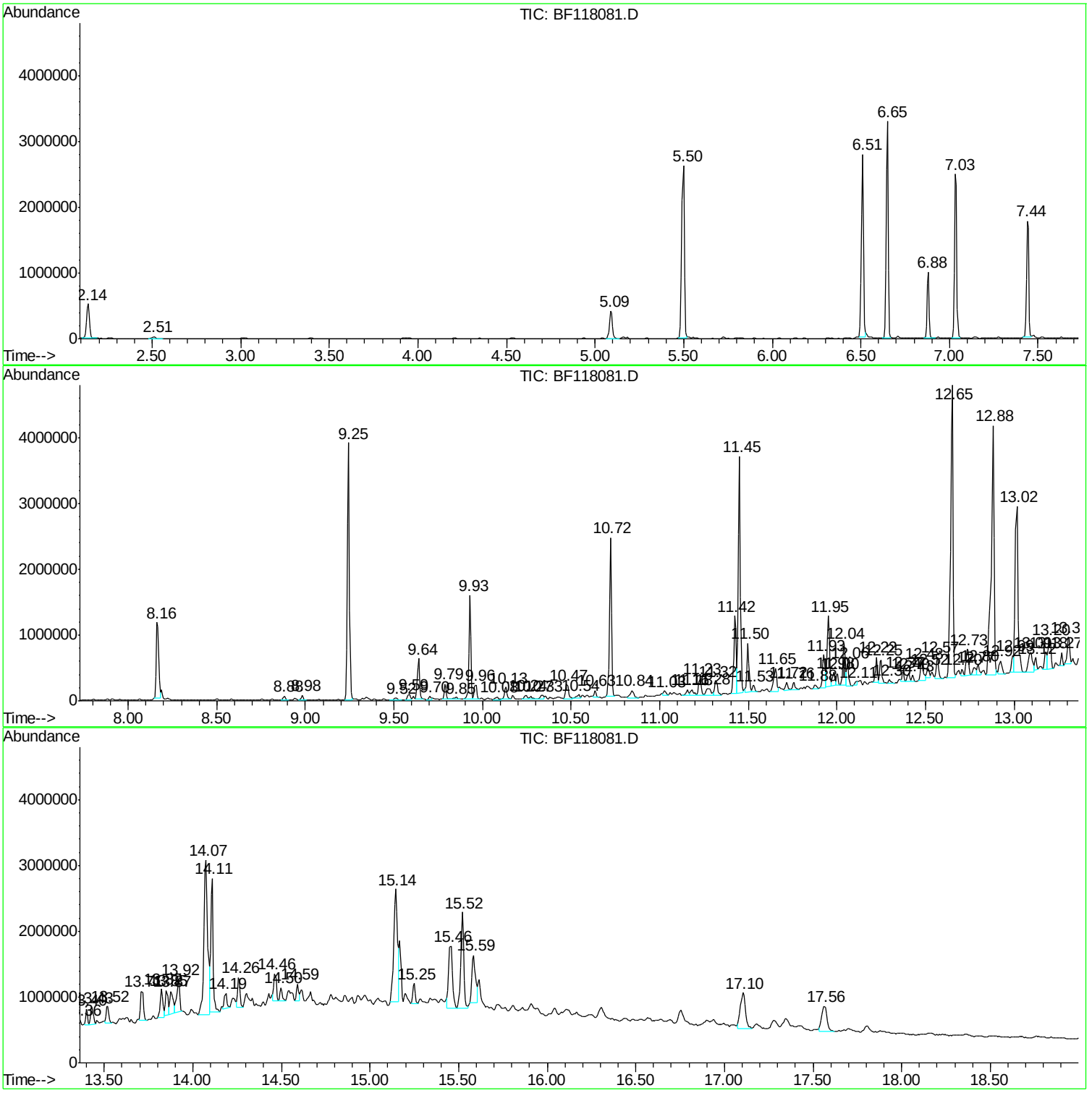
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF120319\
Data File : BF118081.D
Acq On : 4 Dec 2019 00:03
Operator : JU
Sample : K6024-03
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-3-(0.5-1.0)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF120319\
Data File : BF118081.D
Acq On : 4 Dec 2019 00:03
Operator : JU
Sample : K6024-03
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-3-(0.5-1.0)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

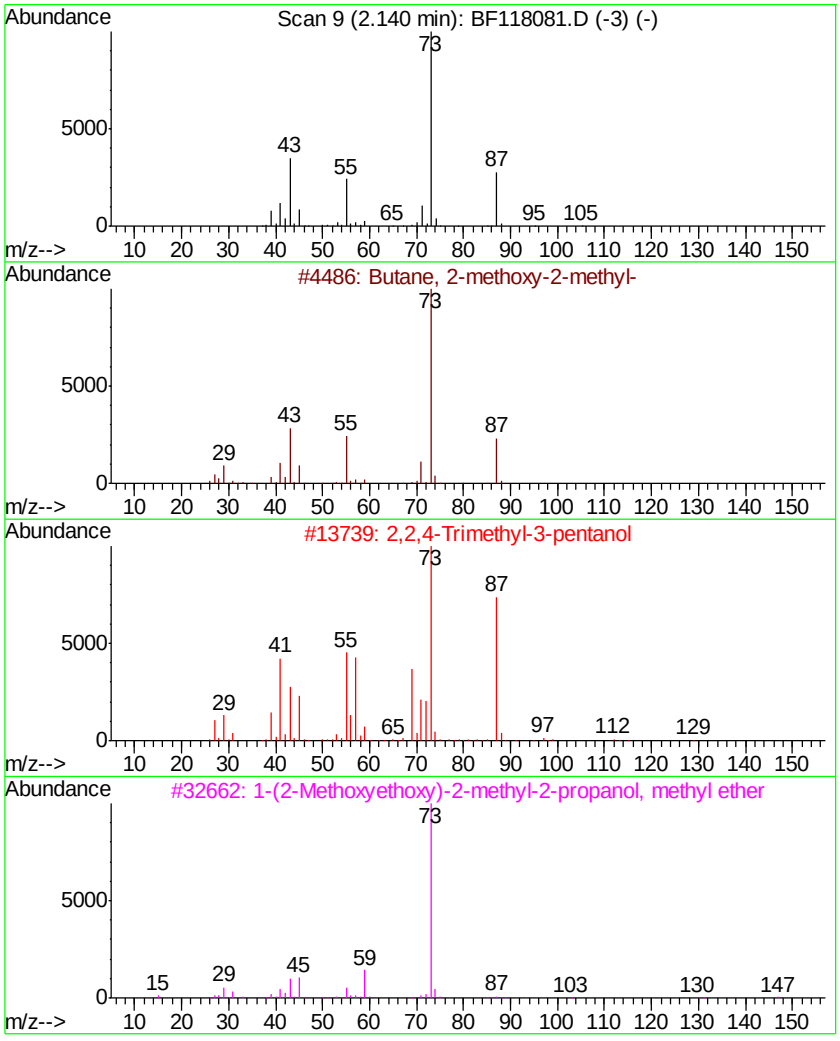
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

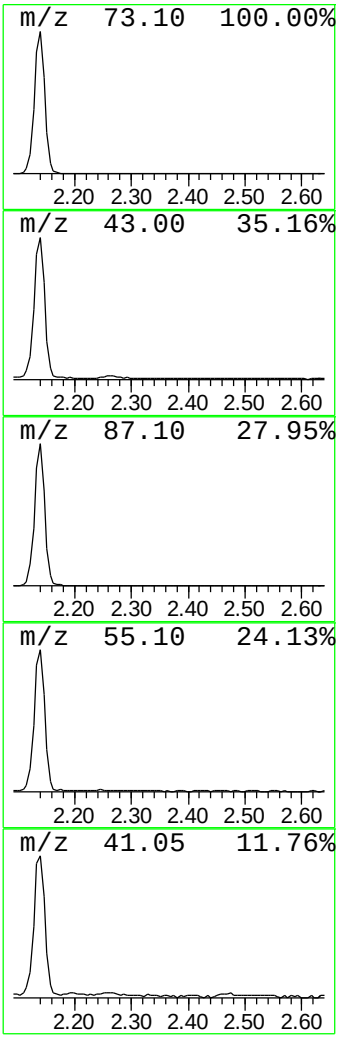
****

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.14	15.73 ng	666475	1,4-Dichlorobenzene-d4	6.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	78
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	39
3	1-(2-Methoxyethoxy)-2-methyl-2-p...	162	C8H18O3	1000364-24-4	25
4	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	23
5	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	9





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF120319\
Data File : BF118081.D
Acq On : 4 Dec 2019 00:03
Operator : JU
Sample : K6024-03
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-3-(0.5-1.0)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

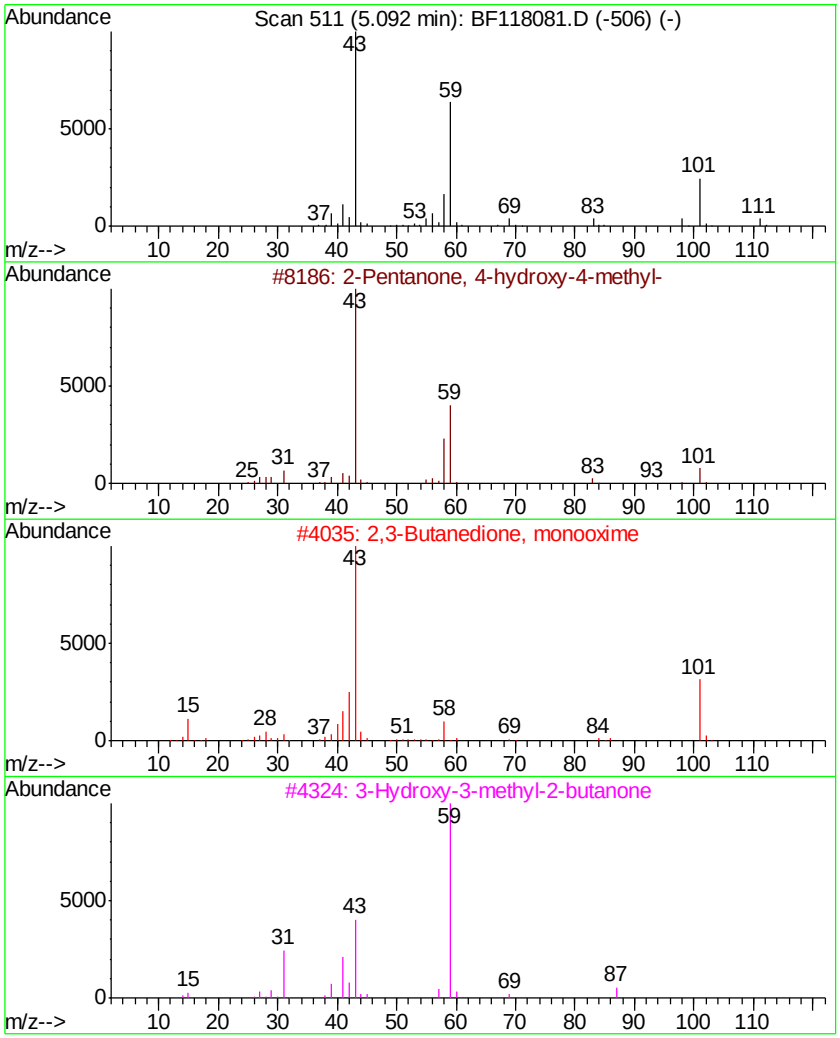
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

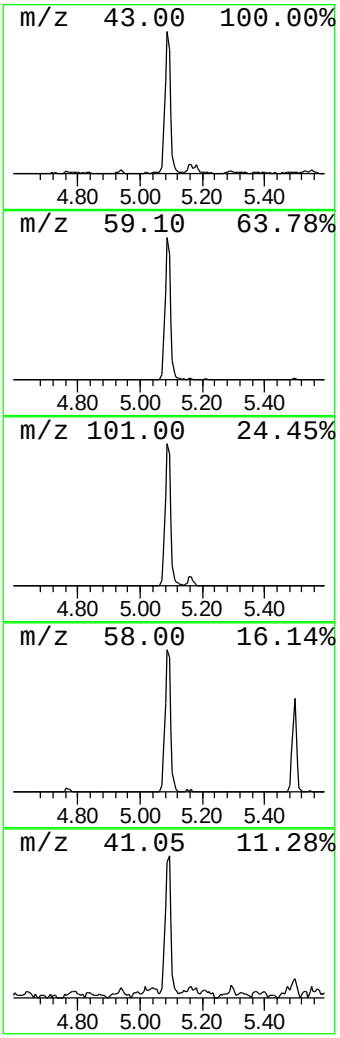
****

Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.09	11.93 ng	505599	1,4-Dichlorobenzene-d4	6.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	17
3	3-Hydroxy-3-methyl-2-butanone	102	C5H10O2	000115-22-0	17
4	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	17
5	5-Oxohexanenitrile	111	C6H9NO	010412-98-3	10





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF120319\
Data File : BF118081.D
Acq On : 4 Dec 2019 00:03
Operator : JU
Sample : K6024-03
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-3-(0.5-1.0)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

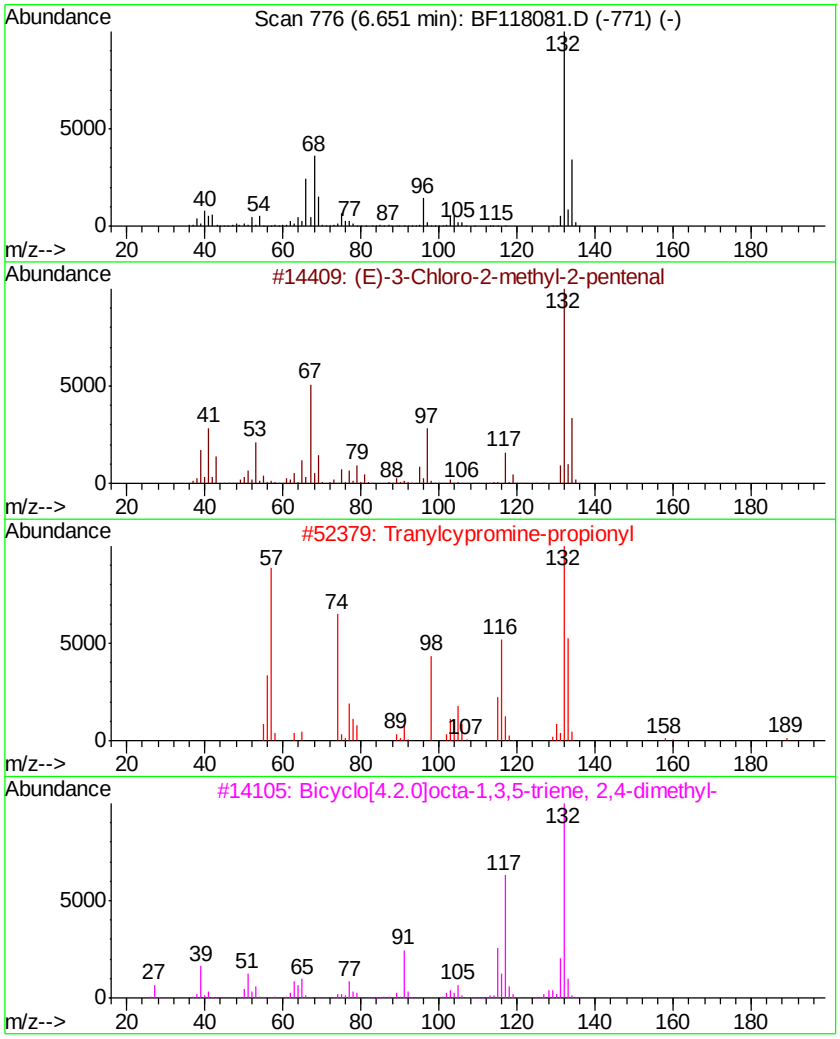
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

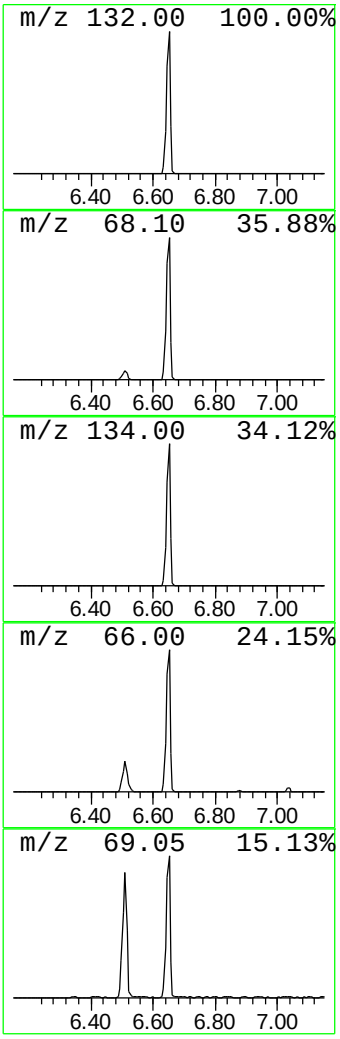
****

Peak Number 3 unknown6.65 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.65	67.97 ng	2880070	1,4-Dichlorobenzene-d4	6.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	25
2	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	16
3	Bicyclo[4.2.0]octa-1,3,5-triene,...	132	C10H12	028749-81-7	9
4	1-Methylpyrrolo[1,2-a]pyrazine	132	C8H8N2	064608-59-9	9
5	2H-Cyclopenta[d]pyridazine, 2-me...	132	C8H8N2	022291-85-6	9





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF120319\
Data File : BF118081.D
Acq On : 4 Dec 2019 00:03
Operator : JU
Sample : K6024-03
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-3-(0.5-1.0)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

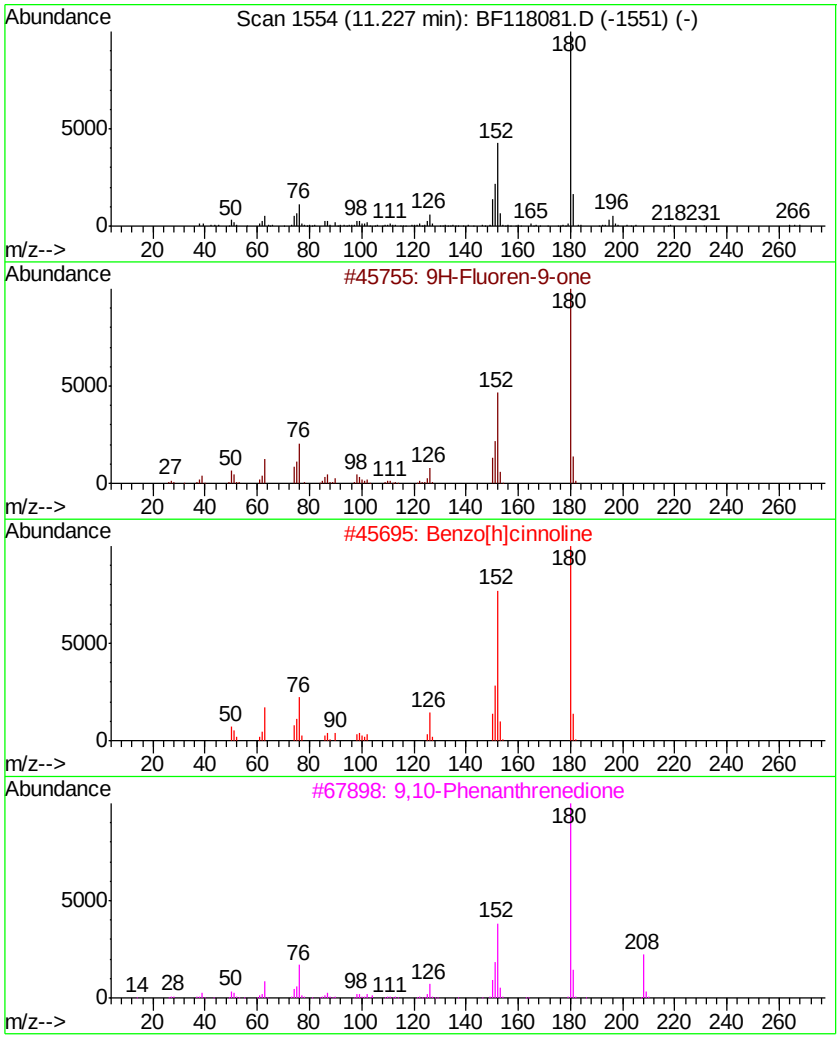
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

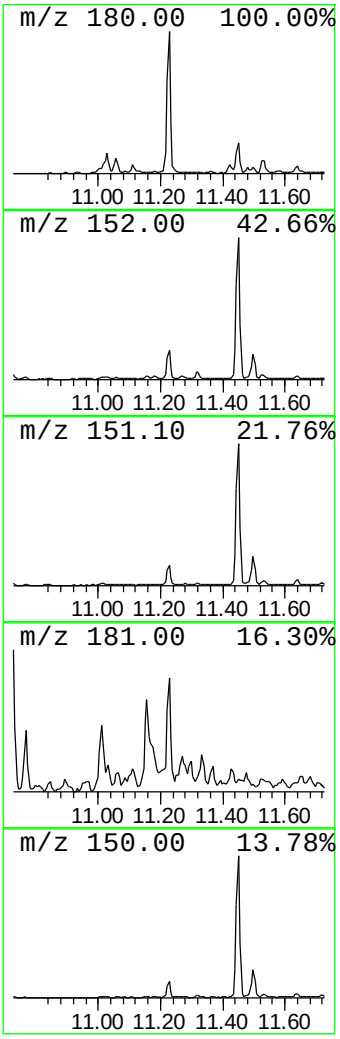
****

Peak Number 5 9H-Fluoren-9-one Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.23	4.18 ng	233263	Phenanthrene-d10	11.42

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	9,10-Phenanthrenedione	208	C14H8O2	000084-11-7	86
4	2,3-Diazaphenanthrene	180	C12H8N2	000229-72-1	53
5	1H-Phenalen-1-one	180	C13H8O	000548-39-0	52





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF120319\
Data File : BF118081.D
Acq On : 4 Dec 2019 00:03
Operator : JU
Sample : K6024-03
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-3-(0.5-1.0)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

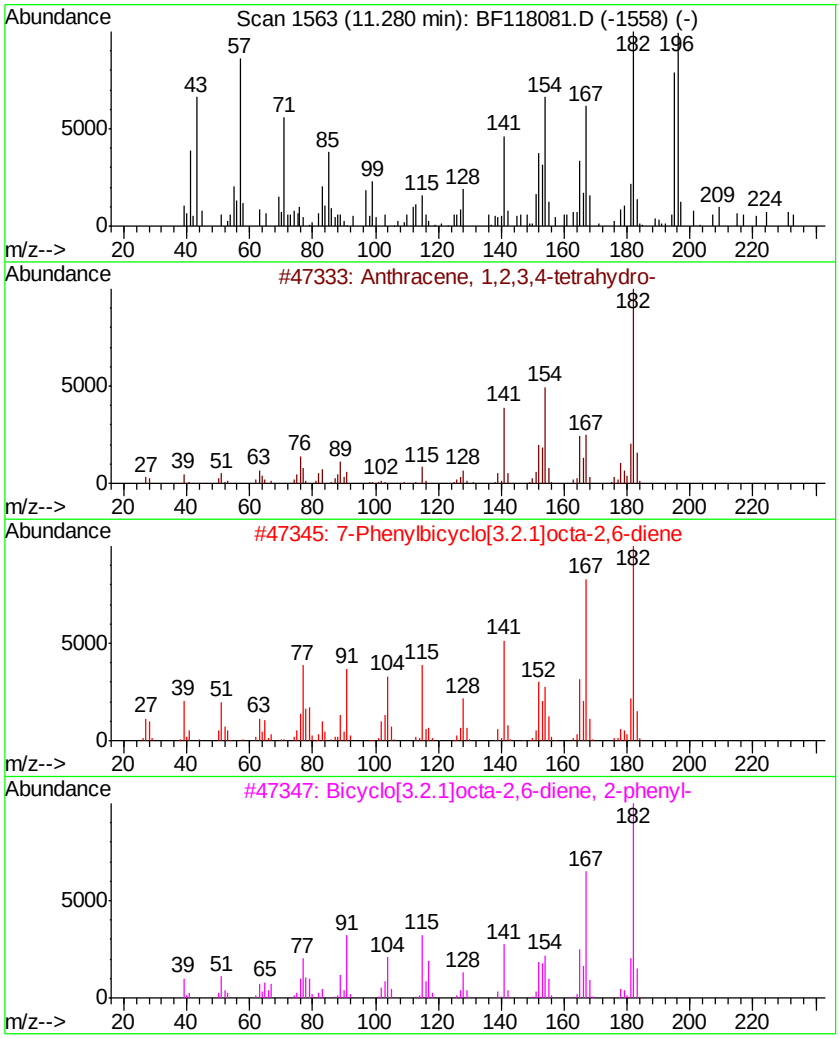
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

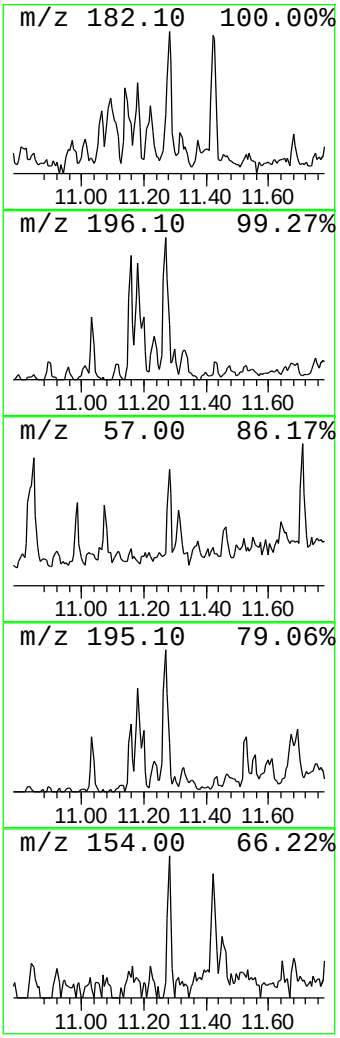
****

Peak Number 6 Anthracene, 1,2,3,4-tetrahy... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.28	3.45 ng	192465	Phenanthrene-d10	11.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1,2,3,4-tetrahydro-	182	C14H14	002141-42-6	95
2	7-Phenylbicyclo[3.2.1]octa-2,6-d...	182	C14H14	1000201-01-7	70
3	Bicyclo[3.2.1]octa-2,6-diene, 2-...	182	C14H14	101166-08-9	45
4	8-Dimethylaminonaphthalene-1-car...	196	C13H12N2	128644-69-9	42
5	Benzene, 1-ethyl-2-(phenylmethyl)-	196	C15H16	028122-25-0	42





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Acq On : 4 Dec 2019 00:03
Operator : JU
Sample : K6024-03
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-3-(0.5-1.0)

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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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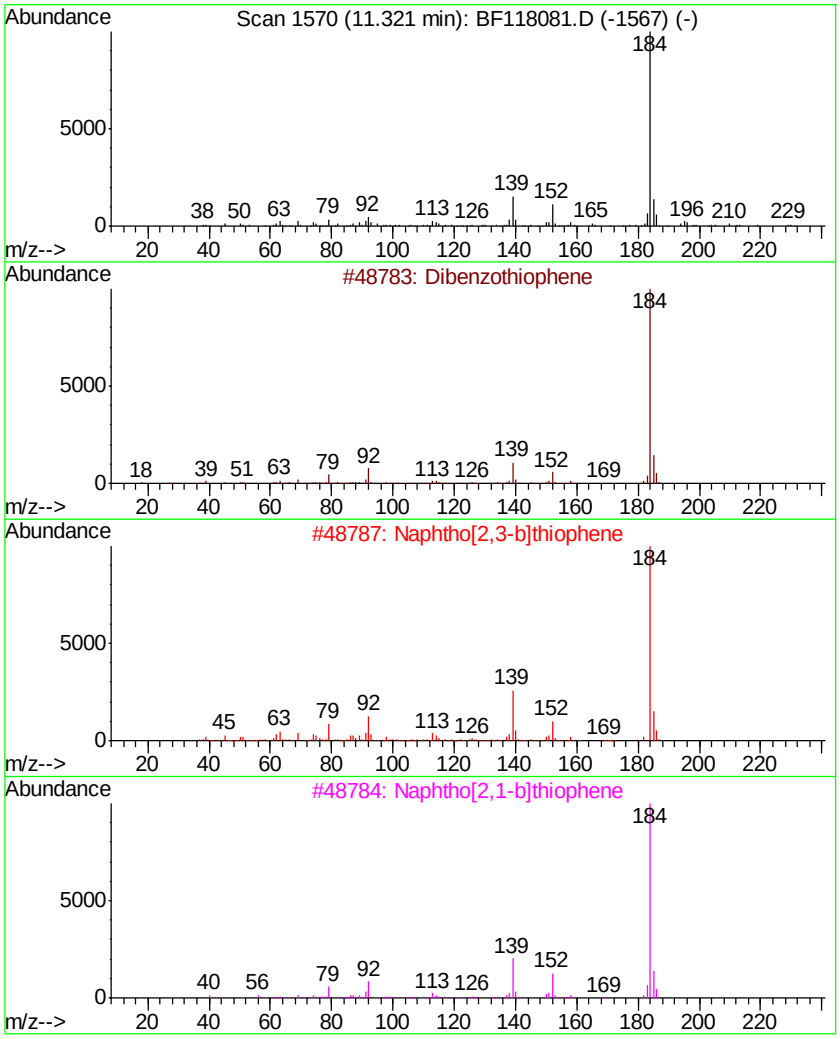
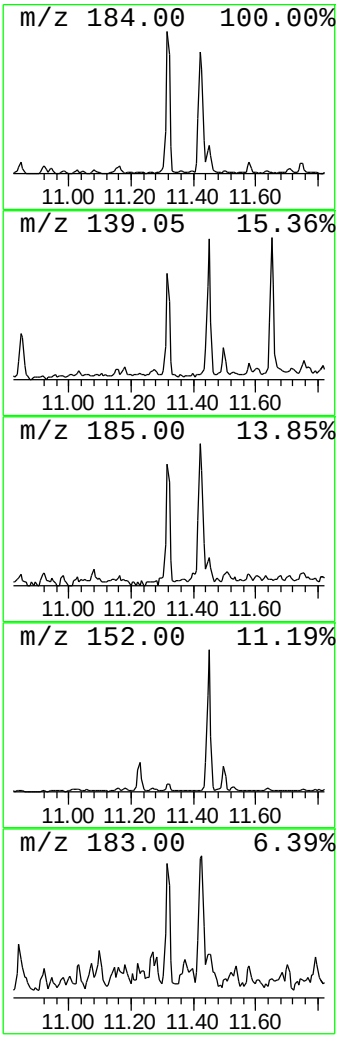
Peak Number 7 Dibenzothiophene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.32	3.74 ng	208545	Phenanthrene-d10	11.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	96
2	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	95
3	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	94
4	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	93
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91





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ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
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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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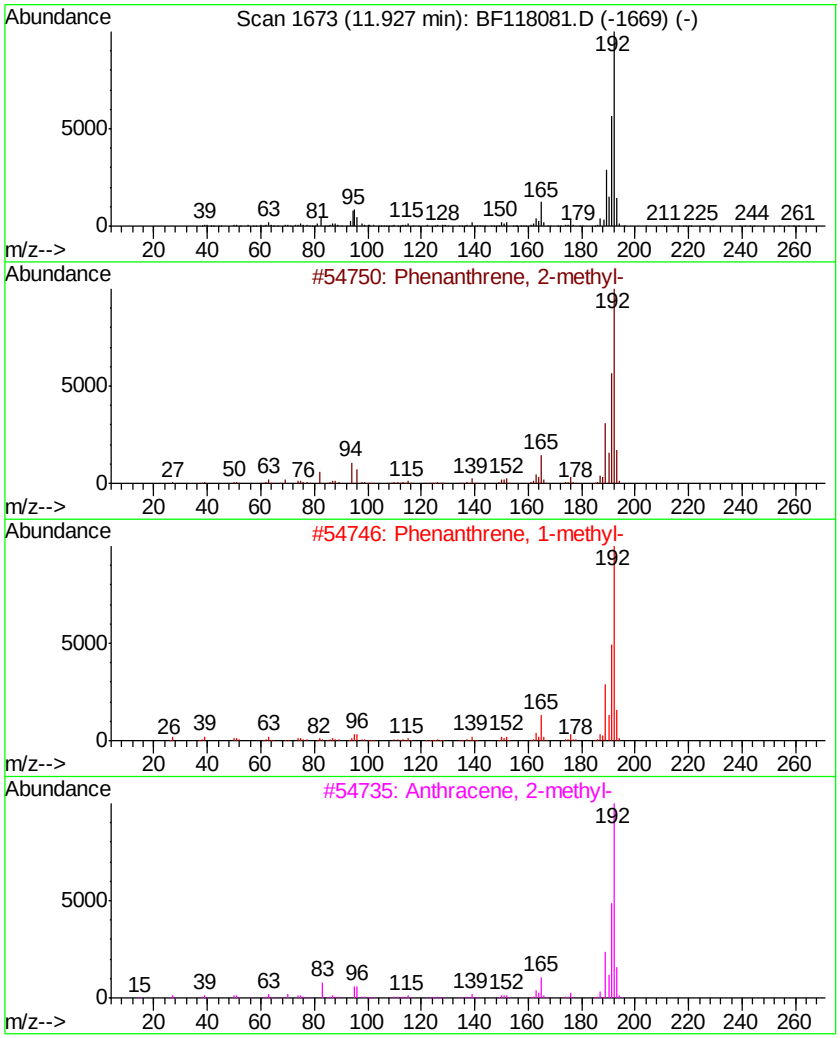
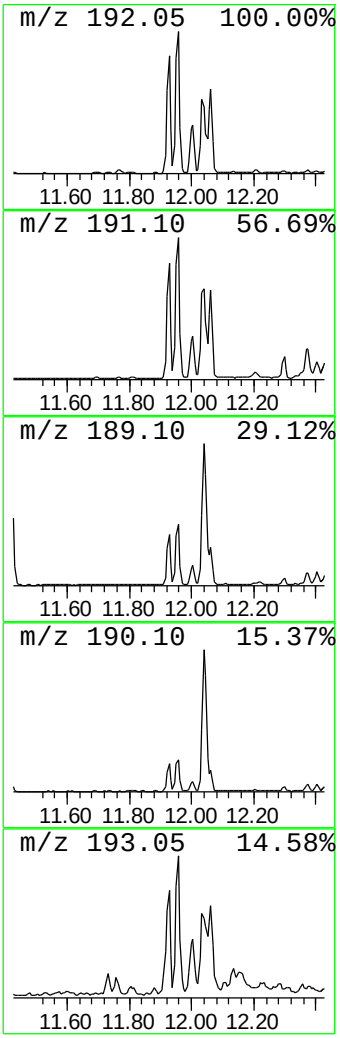
Peak Number 8 Phenanthrene, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.93	7.71 ng	430394	Phenanthrene-d10	11.42

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	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	94
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93





Library Search Compound Report

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ClientSampleId : B-3-(0.5-1.0)

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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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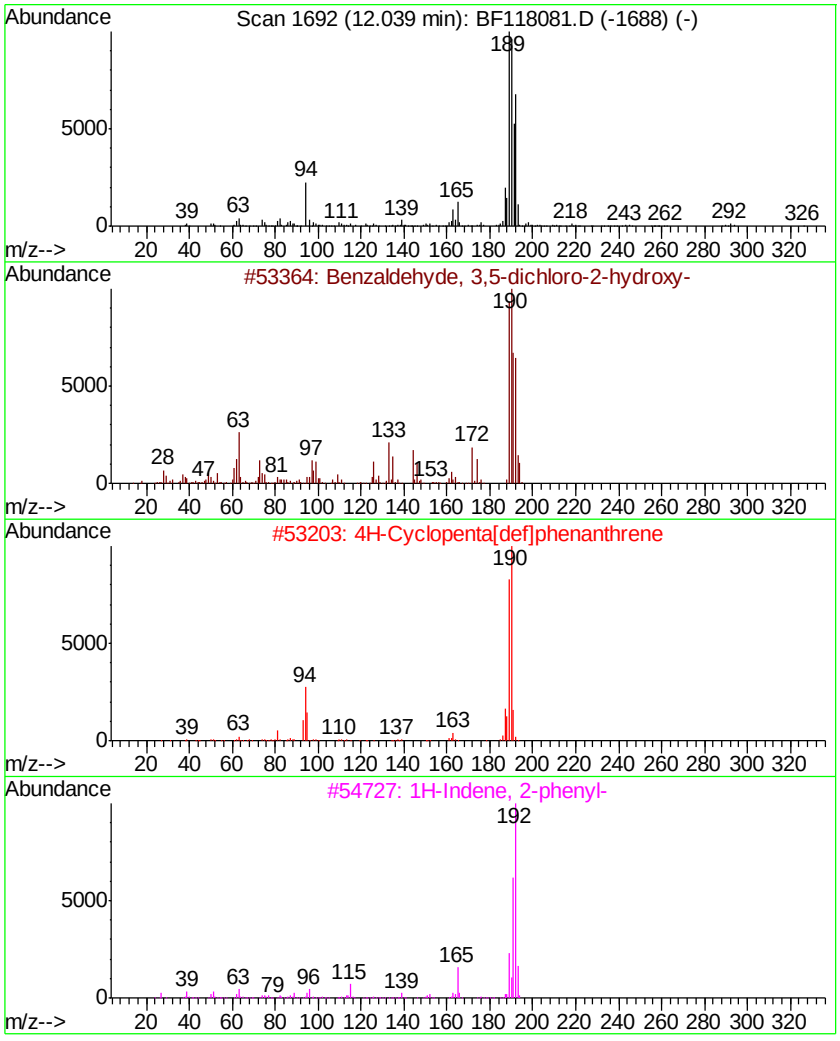
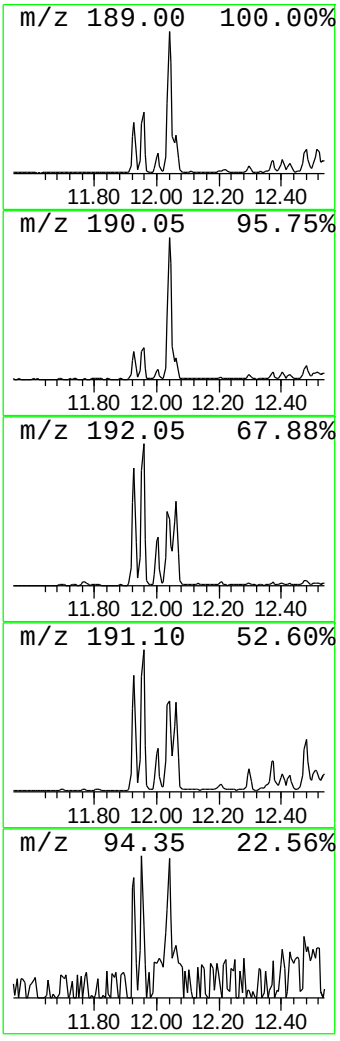
Peak Number 9 Benzaldehyde, 3,5-dichloro-... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.04	12.10 ng	674984	Phenanthrene-d10	11.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	72
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	62
3	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	38
4	Propyne, 1,3-diphenyl-	192	C15H12	004980-70-5	25
5	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	25





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Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-3-(0.5-1.0)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.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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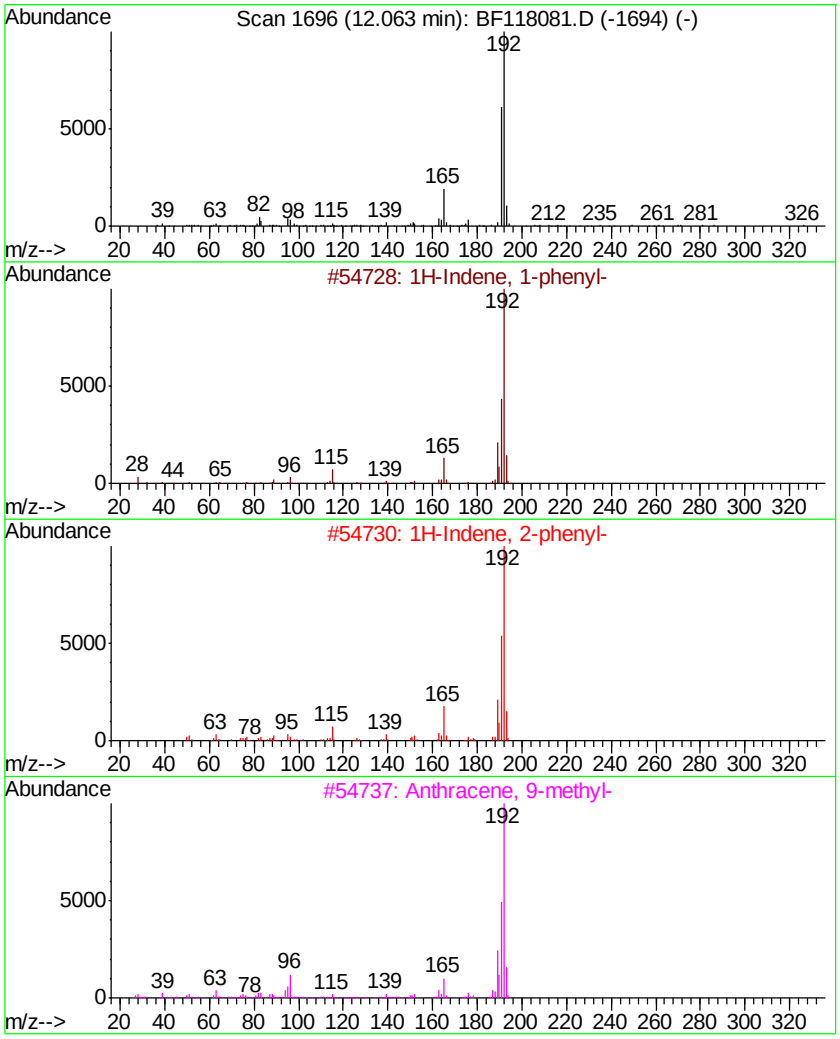
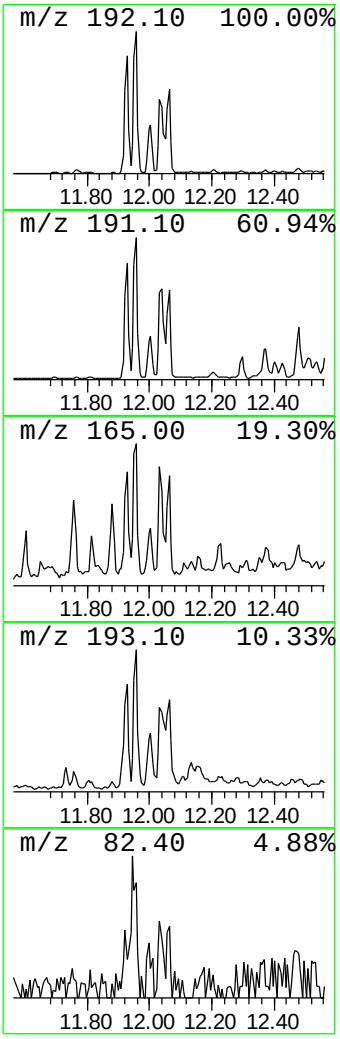
Peak Number 10 1H-Indene, 1-phenyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.06	5.09 ng	284005	Phenanthrene-d10	11.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	83
2	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	80
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	72
4	3,4-Methylenedioxycinnamic acid	192	C10H8O4	002373-80-0	72
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	72





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ClientSampleId : B-3-(0.5-1.0)

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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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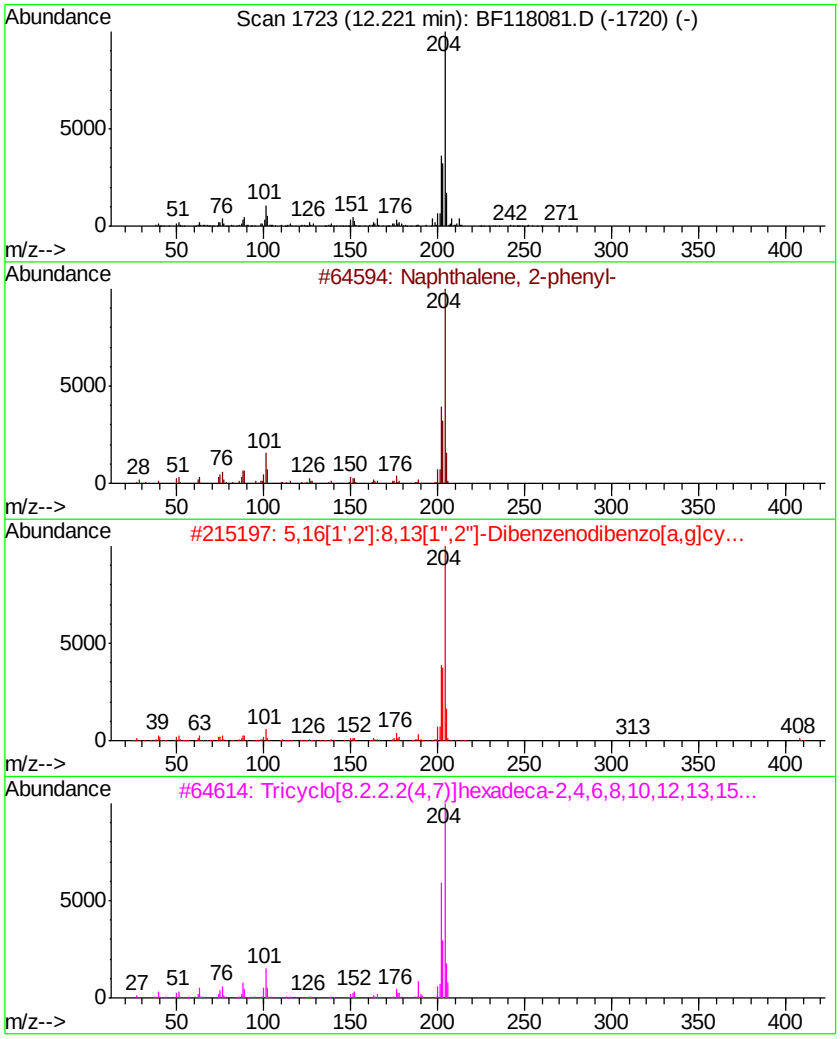
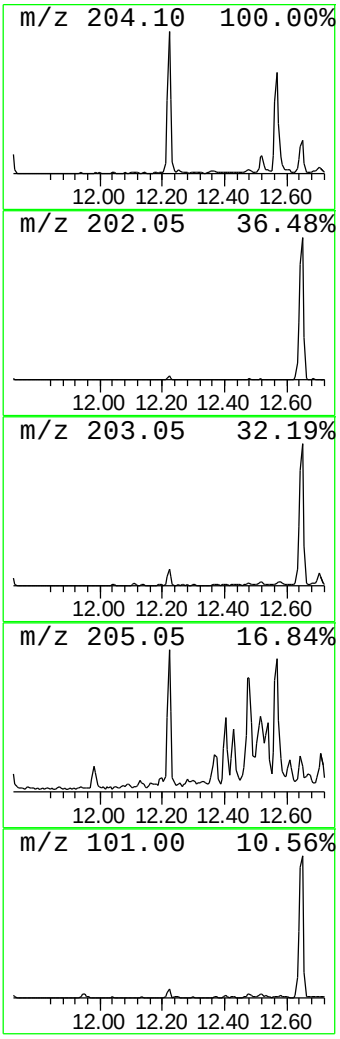
Peak Number 11 Naphthalene, 2-phenyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.22	5.05 ng	281821	Phenanthrene-d10	11.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	89
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	87
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	74
4	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	58
5	Benzene, 1,1'-(1-buten-3-yne-1,4...	204	C16H12	013141-45-2	52





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Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-3-(0.5-1.0)

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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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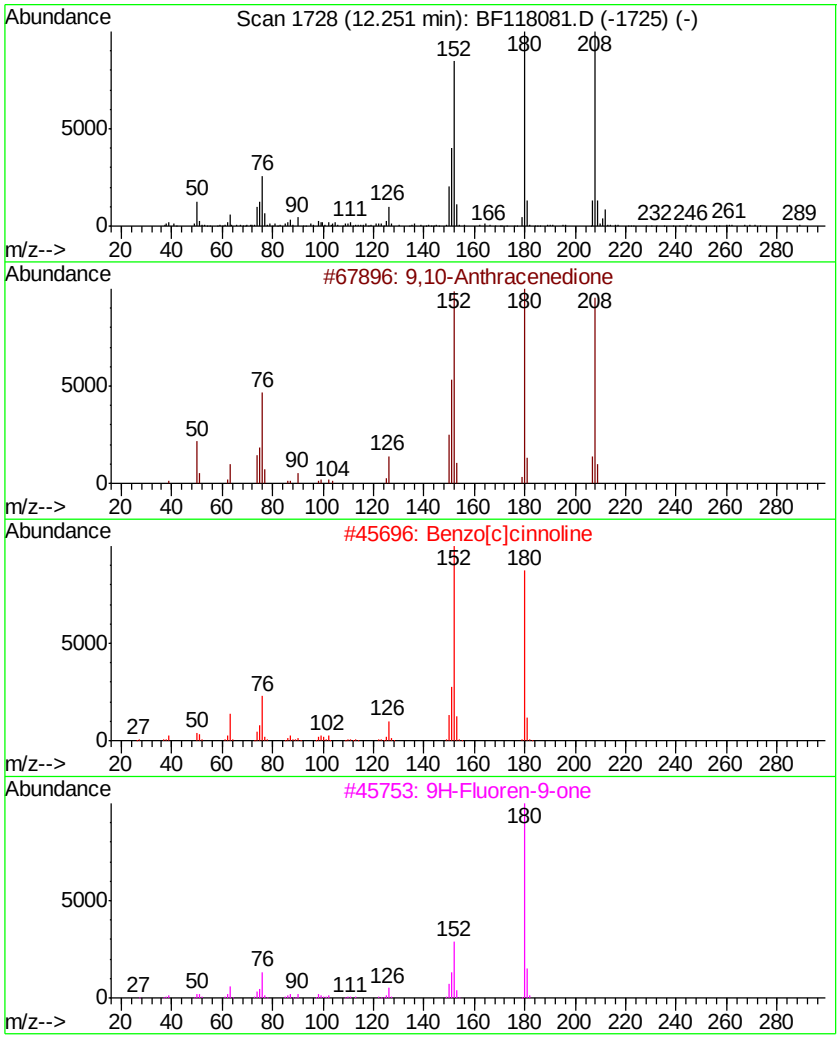
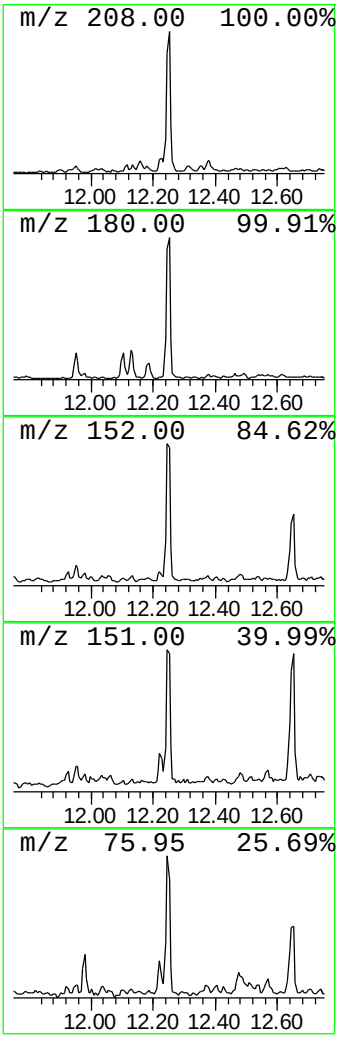
Peak Number 12 9,10-Anthracenedione Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.25	5.84 ng	325785	Phenanthrene-d10	11.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	98
2	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	78
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	62
4	1H-Phenalen-1-one	180	C13H8O	000548-39-0	60
5	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	50





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Misc :
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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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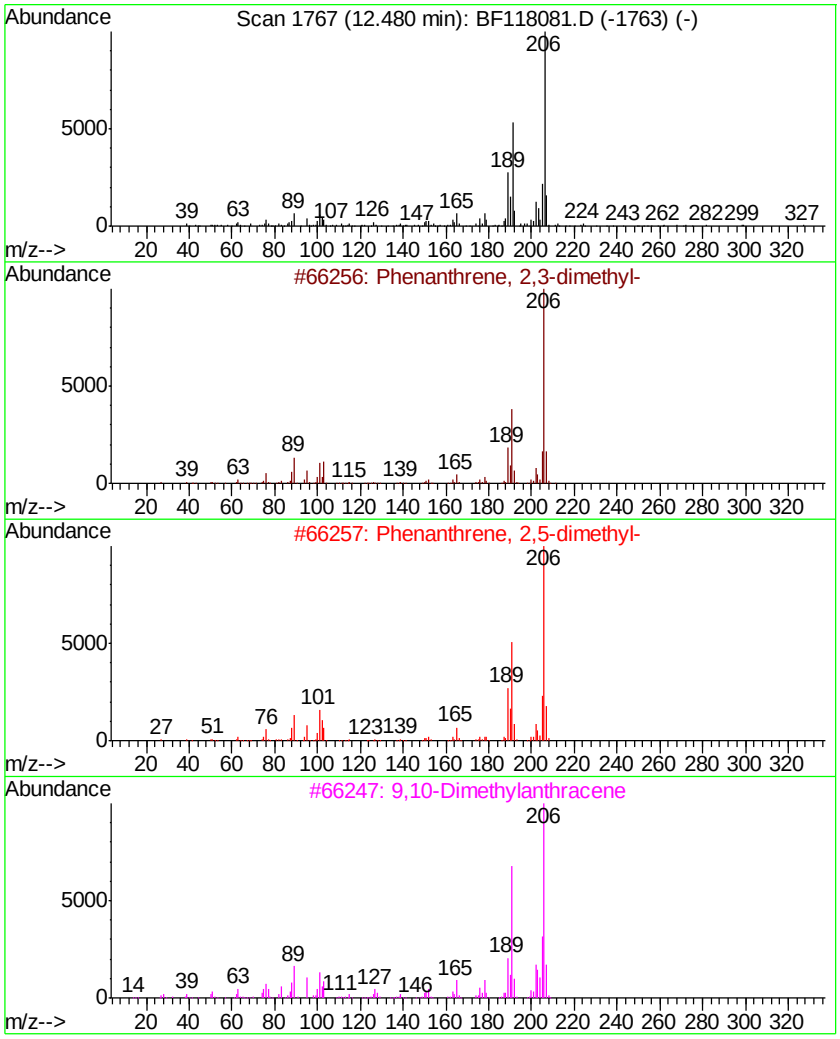
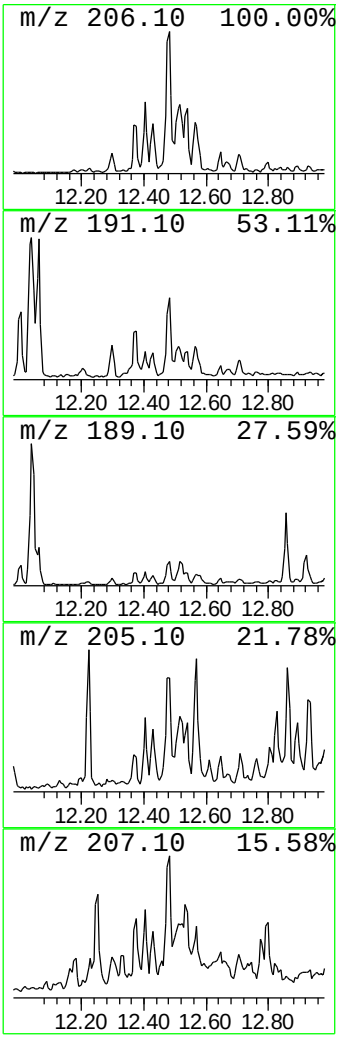
Peak Number 13 Phenanthrene, 2,3-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.48	6.44 ng	359517	Phenanthrene-d10	11.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	94
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
4	1H-Indene, 2-methyl-3-phenyl-	206	C16H14	035099-60-6	87
5	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	83





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Instrument : BNA_F
ClientSampleId : B-3-(0.5-1.0)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
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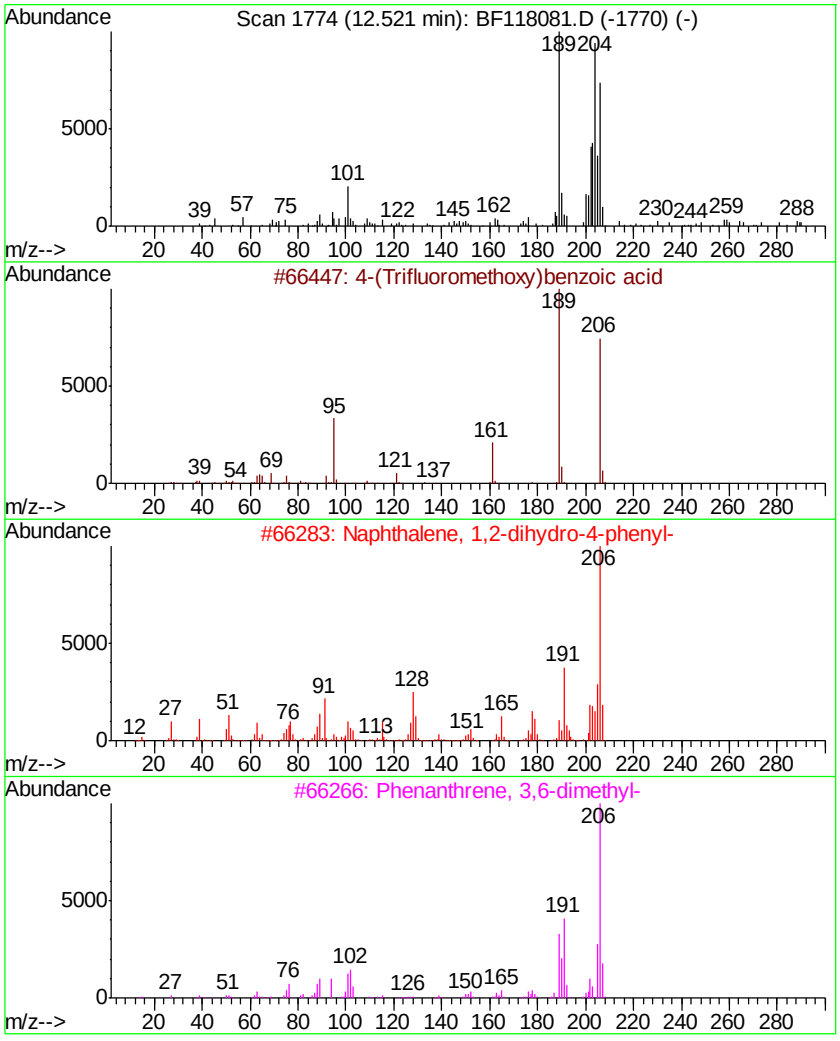
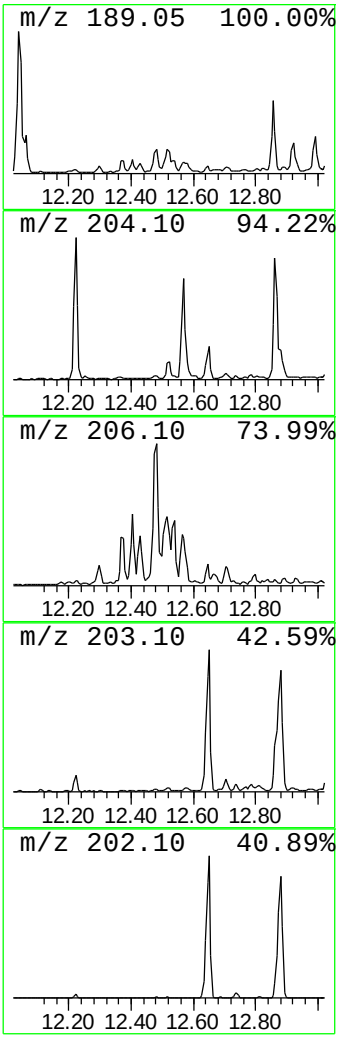
Peak Number 14 unknown12.52 Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.52	2.96 ng	165170	Phenanthrene-d10	11.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-(Trifluoromethoxy)benzoic acid	206	C8H5F3O3	000330-12-1	32
2	Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	30
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	27
4	1H-Indene, 2-methyl-3-phenyl-	206	C16H14	035099-60-6	27
5	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	22





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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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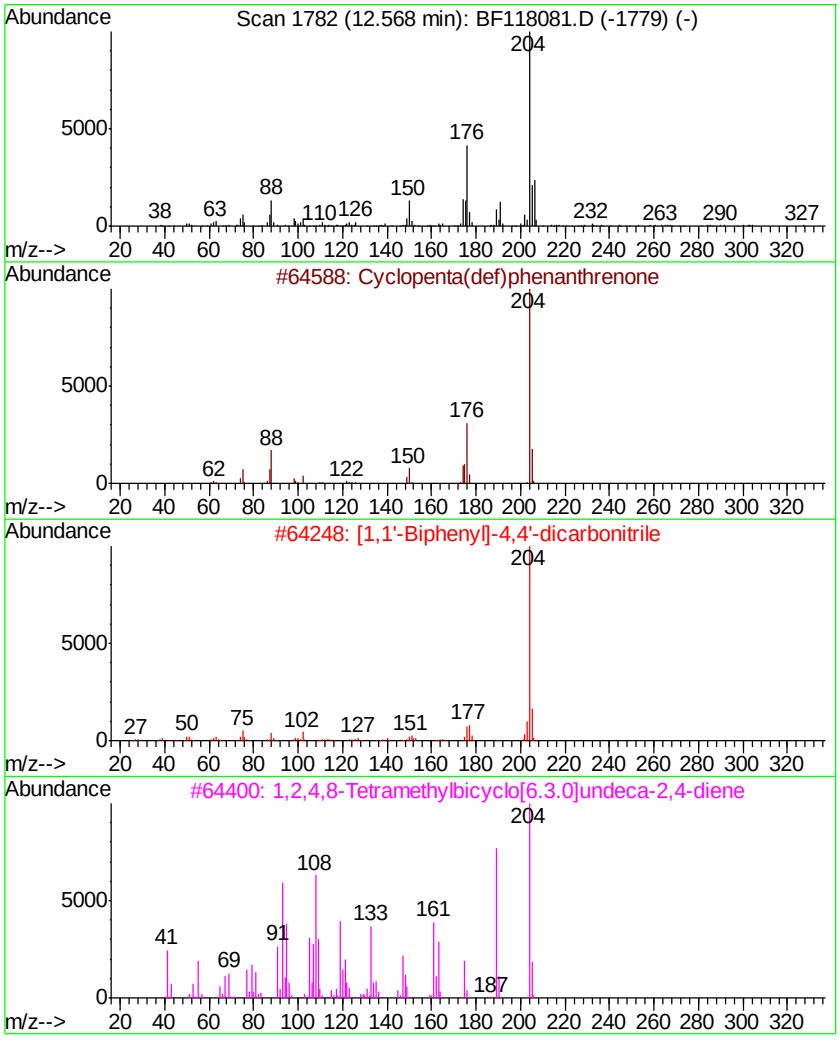
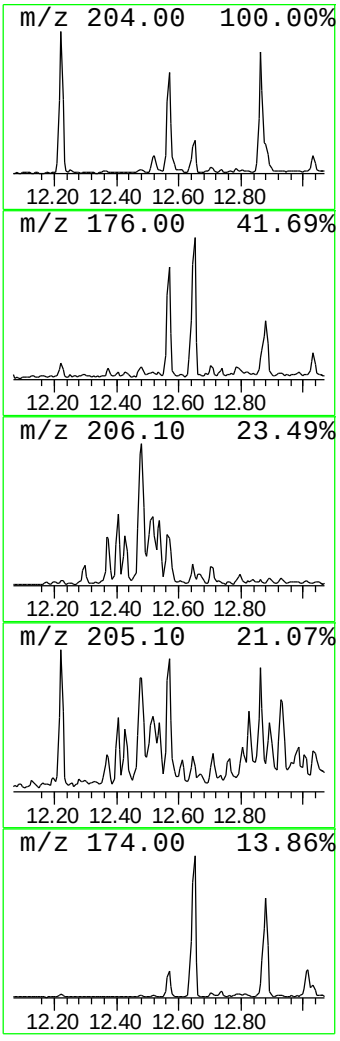
Peak Number 15 Cyclopenta(def)phenanthrenone Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.57	6.07 ng	338429	Phenanthrene-d10	11.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	95
2	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	52
3	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	45
4	N-(4-Chloro-phenyl)-2-(3,4-dihyd...	330	C17H15ClN2OS	1000296-34-3	42
5	9-Acridinecarbonitrile	204	C14H8N2	005326-19-2	38





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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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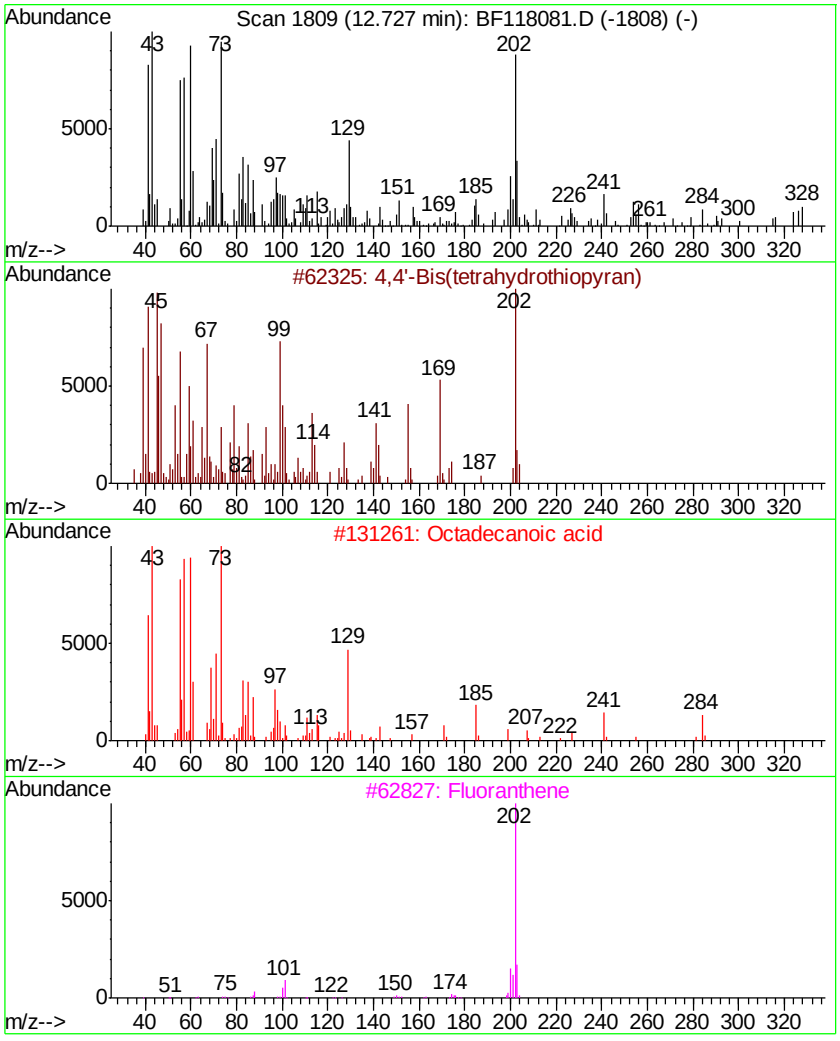
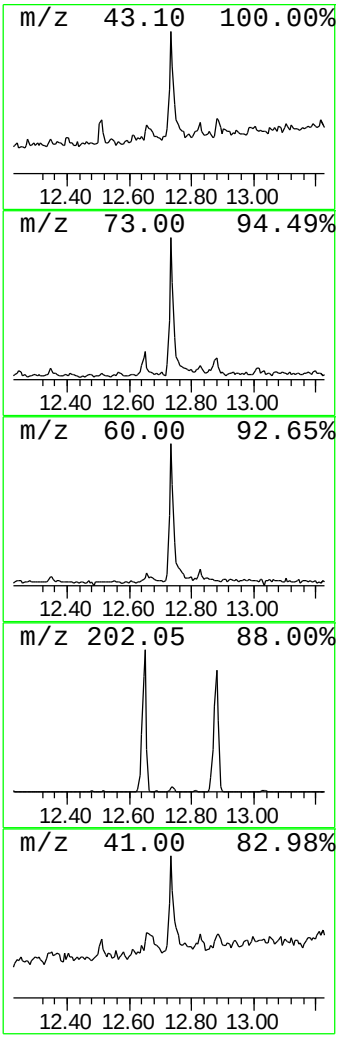
Peak Number 16 4,4'-Bis(tetrahydrothiopyran) Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.73	6.73 ng	375376	Phenanthrene-d10	11.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4,4'-Bis(tetrahydrothiopyran)	202	C10H18S2	116196-83-9	95
2	Octadecanoic acid	284	C18H36O2	000057-11-4	93
3	Fluoranthene	202	C16H10	000206-44-0	49
4	Tridecanoic acid	214	C13H26O2	000638-53-9	43
5	Pyrene	202	C16H10	000129-00-0	43





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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TIC Integration Parameters: LSCINT.P

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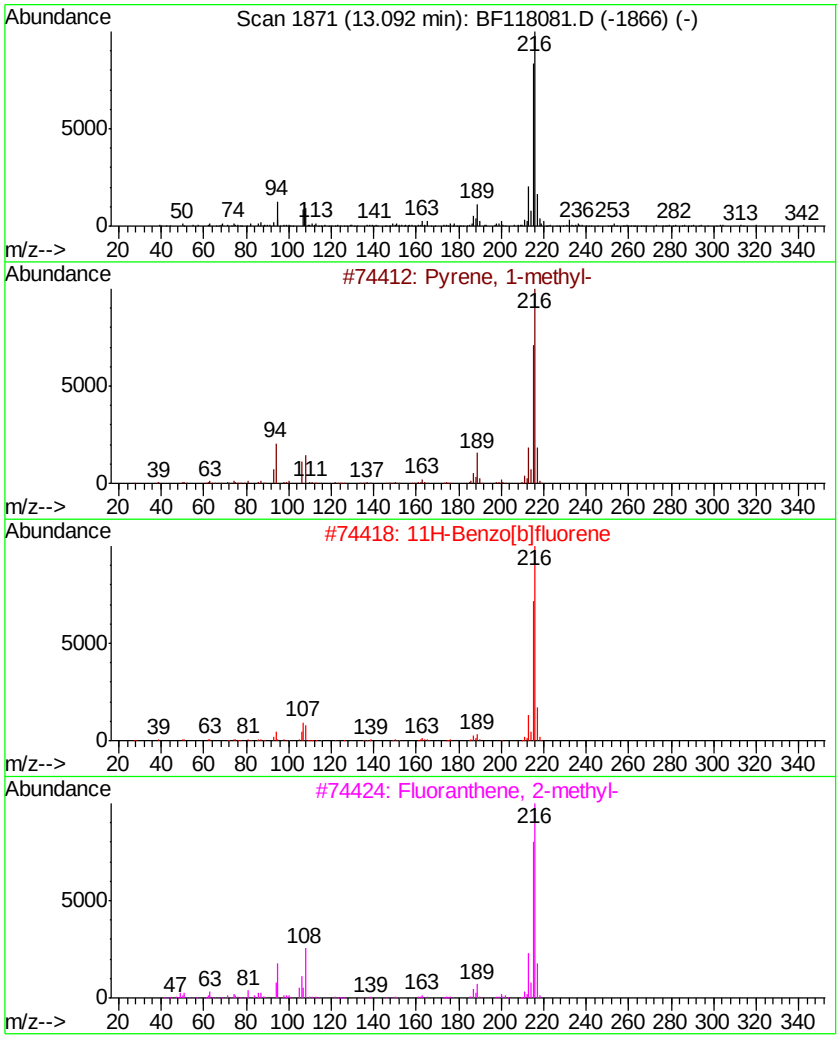
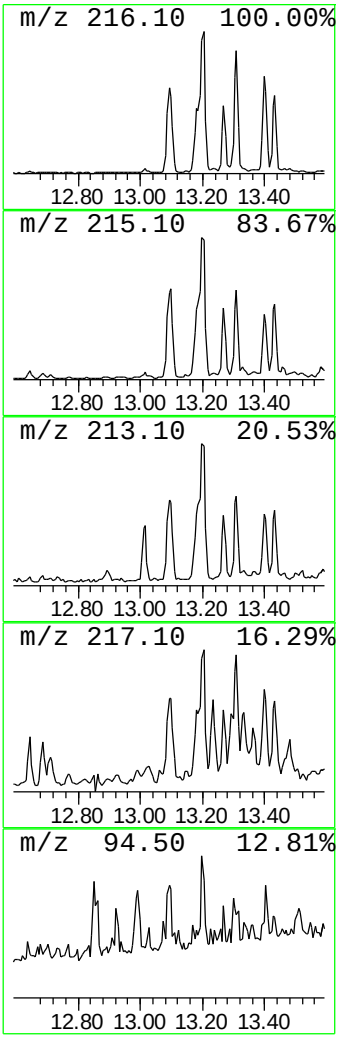
Peak Number 17 Pyrene, 1-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.09	2.80 ng	506659	Chrysene-d12	14.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91
4	Pyrene, 2-methyl-	216	C17H12	003442-78-2	89
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	83





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF120319\
Data File : BF118081.D
Acq On : 4 Dec 2019 00:03
Operator : JU
Sample : K6024-03
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-3-(0.5-1.0)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.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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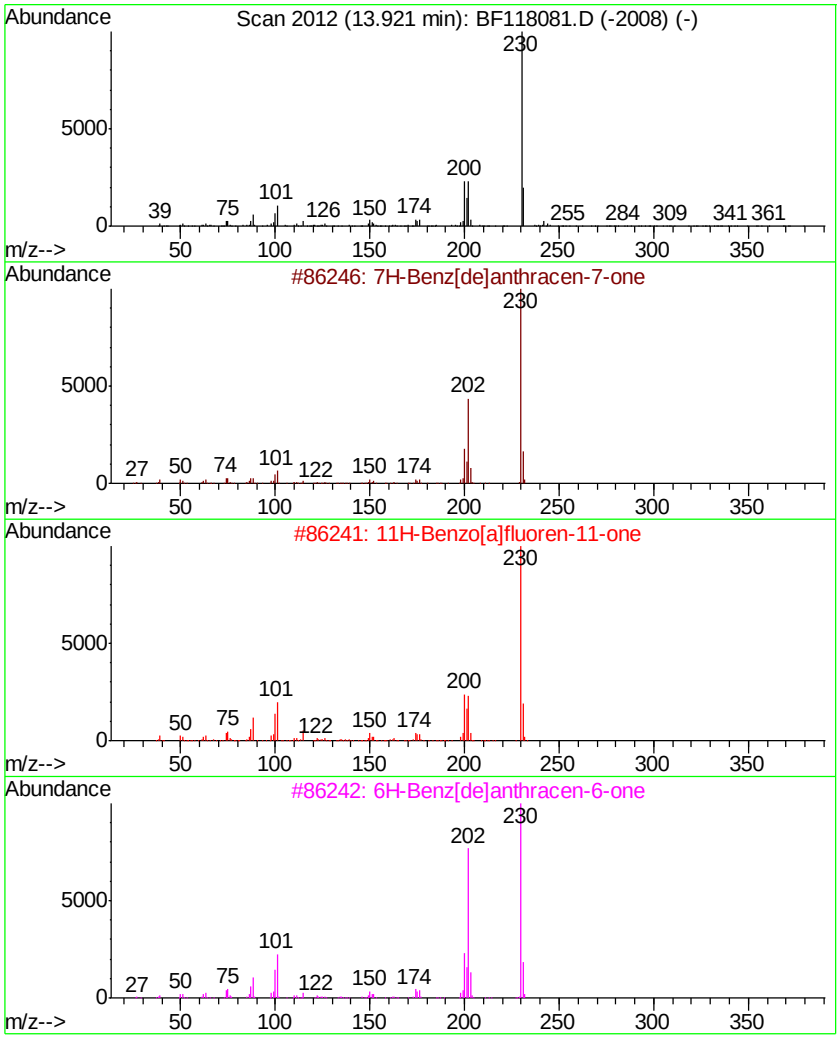
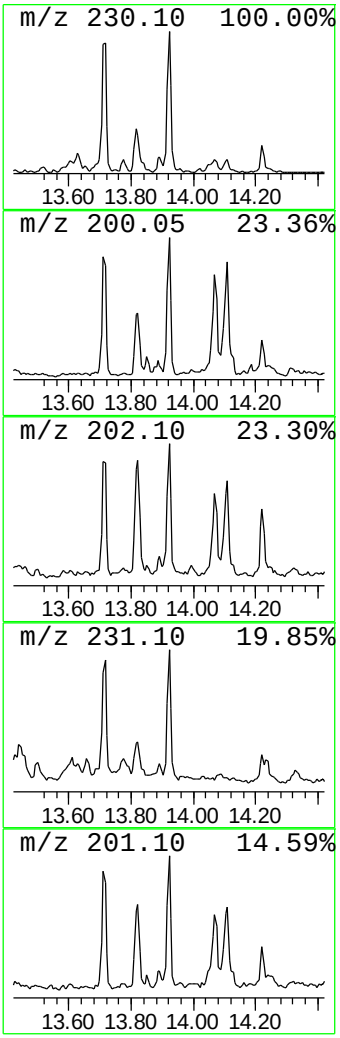
Peak Number 18 7H-Benz[de]anthracen-7-one Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.92	3.26 ng	590771	Chrysene-d12	14.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	91
2	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	87
3	6H-Benz[de]anthracen-6-one	230	C17H10O	080252-14-8	64
4	o-Terphenyl	230	C18H14	000084-15-1	58
5	1-Pyrenecarboxaldehyde	230	C17H10O	003029-19-4	56





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF120319\
Data File : BF118081.D
Acq On : 4 Dec 2019 00:03
Operator : JU
Sample : K6024-03
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-3-(0.5-1.0)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.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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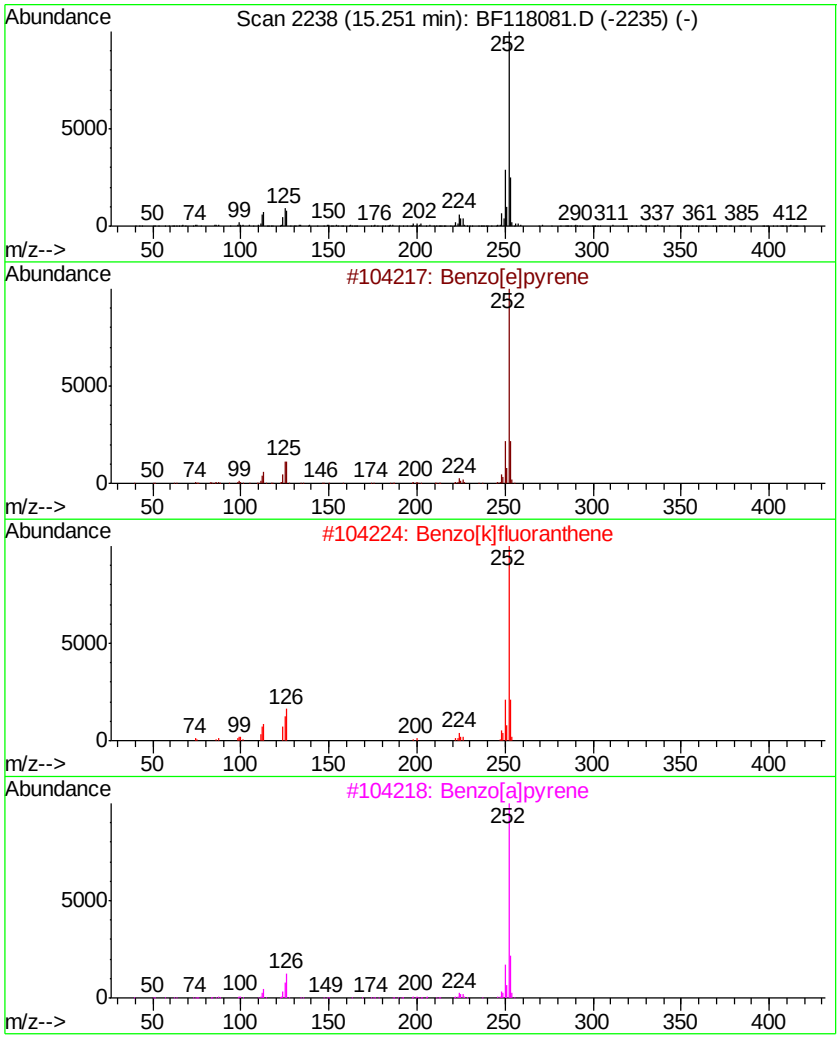
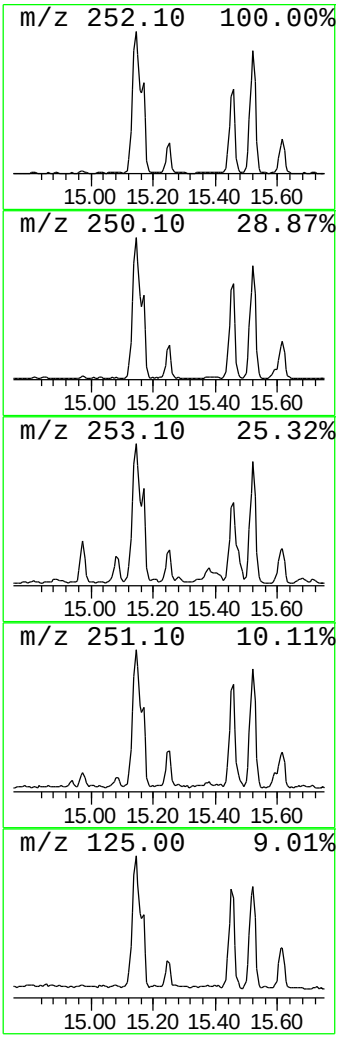
Peak Number 19 Benzo[e]pyrene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.25	5.70 ng	293336	Perylene-d12	15.58

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	93
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	90
3	Benzo[a]pyrene	252	C20H12	000050-32-8	90
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90
5	Perylene	252	C20H12	000198-55-0	76





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF120319\
Data File : BF118081.D
Acq On : 4 Dec 2019 00:03
Operator : JU
Sample : K6024-03
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-3-(0.5-1.0)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.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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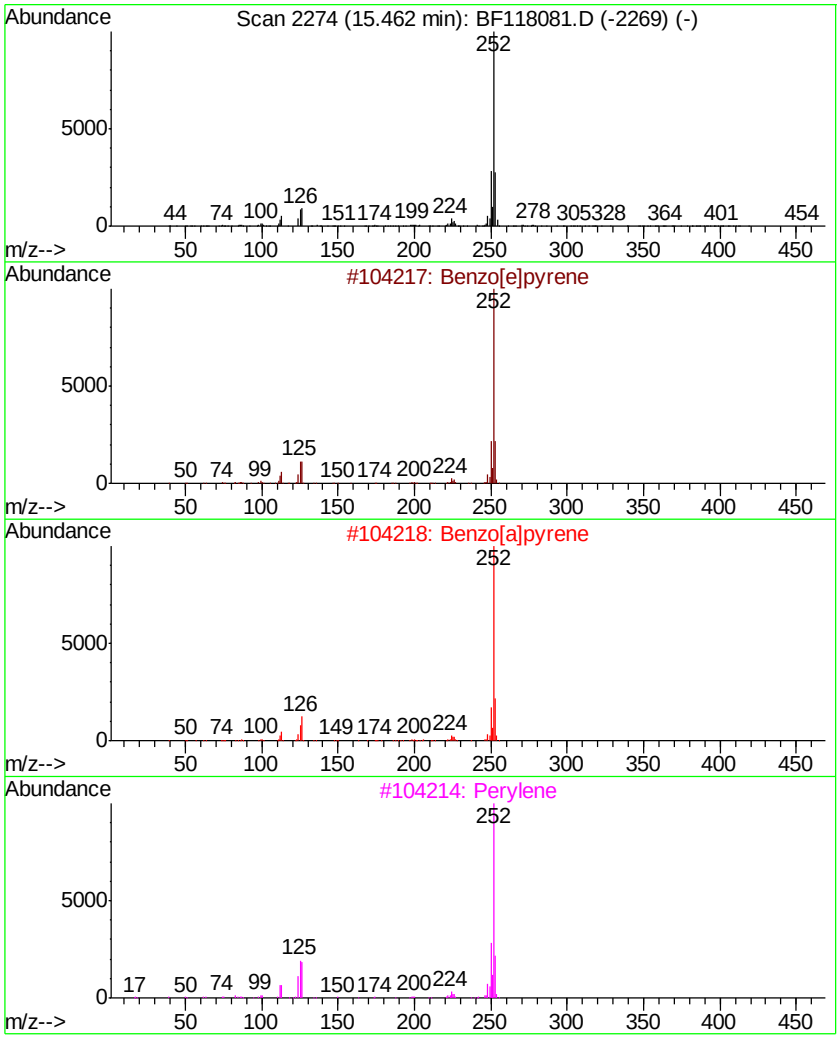
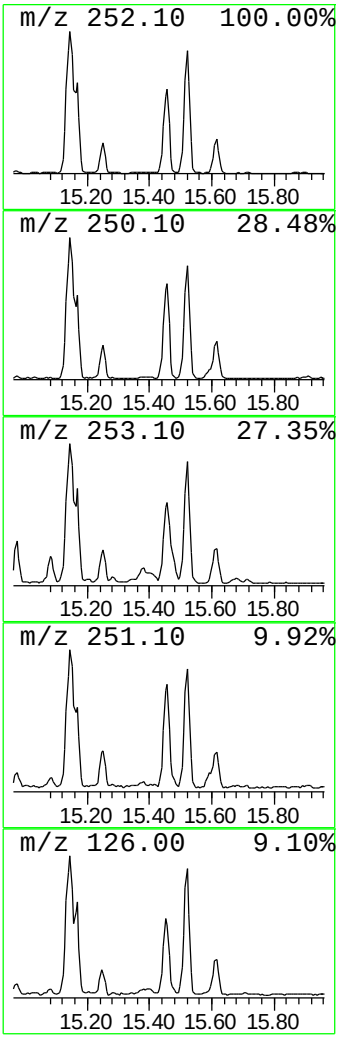
Peak Number 20 Perylene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.46	25.96 ng	1336720	Perylene-d12	15.58

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	99
2	Benzo[a]pyrene	252	C20H12	000050-32-8	96
3	Perylene	252	C20H12	000198-55-0	95
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	95
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	94





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF120319\
Data File : BF118081.D
Acq On : 4 Dec 2019 00:03
Operator : JU
Sample : K6024-03
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-3-(0.5-1.0)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.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
Butane, 2-methoxy...	2.14	15.7	ng	666475	1	6.88	847509	20.0
2-Pentanone, 4-hy...	5.09	11.9	ng	505599	1	6.88	847509	20.0
unknown6.65	6.65	68.0	ng	2880070	1	6.88	847509	20.0
9H-Fluoren-9-one	11.23	4.2	ng	233263	4	11.42	1115920	20.0
Anthracene, 1,2,3...	11.28	3.5	ng	192465	4	11.42	1115920	20.0
Dibenzothiophene	11.32	3.7	ng	208545	4	11.42	1115920	20.0
Phenanthrene, 2-m...	11.93	7.7	ng	430394	4	11.42	1115920	20.0
Benzaldehyde, 3,5...	12.04	12.1	ng	674984	4	11.42	1115920	20.0
1H-Indene, 1-phenyl-	12.06	5.1	ng	284005	4	11.42	1115920	20.0
Naphthalene, 2-ph...	12.22	5.0	ng	281821	4	11.42	1115920	20.0
9,10-Anthracenedione	12.25	5.8	ng	325785	4	11.42	1115920	20.0
Phenanthrene, 2,3...	12.48	6.4	ng	359517	4	11.42	1115920	20.0
unknown12.52	12.52	3.0	ng	165170	4	11.42	1115920	20.0
Cyclopenta(def)ph...	12.57	6.1	ng	338429	4	11.42	1115920	20.0
4,4'-Bis(tetrahyd...	12.73	6.7	ng	375376	4	11.42	1115920	20.0
Pyrene, 1-methyl-	13.09	2.8	ng	506659	5	14.08	3623060	20.0
7H-Benz[de]anthra...	13.92	3.3	ng	590771	5	14.08	3623060	20.0
Benzo[e]pyrene	15.25	5.7	ng	293336	6	15.58	1029830	20.0
Perylene	15.46	26.0	ng	1336720	6	15.58	1029830	20.0