LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071118\
Data File : BF107305.D
Acq On : 11 Jul 2018 17:32
Operator : JU/SJ
Sample : J3880-19
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-20

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-BF061918.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	5.166	477	481	495	rVB	148685	201766	13.12%	0.937%
2	5.525	538	542	547	rBV	14209	18125	1.18%	0.084%
3	5.572	547	550	568	rVV	1252833	1326212	86.26%	6.159%
4	6.584	717	722	731	rBV	1189434	1358003	88.32%	6.307%
5	6.707	739	743	747	rBV	1365000	1332611	86.67%	6.189%
6	6.748	747	750	756	rVB4	27949	29764	1.94%	0.138%
7	6.931	777	781	786	rBV	454220	386635	25.15%	1.796%
8	6.984	786	790	797	rVV2	13516	18360	1.19%	0.085%
9	7.084	803	807	811	rBV	1137797	1090119	70.90%	5.063%
10	7.501	873	878	887	rBV	859305	895760	58.26%	4.160%
11	8.213	996	999	1002	rBV	530349	479160	31.16%	2.225%
12	8.236	1002	1003	1009	rVB	102486	63554	4.13%	0.295%
13	8.784	1093	1096	1100	rVB	18746	15893	1.03%	0.074%
14	8.931	1117	1121	1127	rBV	69028	60291	3.92%	0.280%
15	9.031	1134	1138	1143	rBV	43598	35331	2.30%	0.164%
16	9.289	1178	1182	1185	rBV	1646339	1537541	100.00%	7.140%
17	9.354	1190	1193	1197	rVB2	27639	25301	1.65%	0.117%
18	9.395	1197	1200	1204	rVB	28249	24409	1.59%	0.113%
19	9.554	1224	1227	1232	rBV2	30214	39472	2.57%	0.183%
20	9.631	1237	1240	1243	rVV	35241	36685	2.39%	0.170%
21	9.660	1243	1245	1246	rVV	32563	27190	1.77%	0.126%
22	9.683	1246	1249	1256	rVB	339937	277188	18.03%	1.287%
23	9.842	1271	1276	1280	rBV	45091	50641	3.29%	0.235%
24	9.883	1280	1283	1286	rVB	32483	25742	1.67%	0.120%
25	9.978	1296	1299	1302	rBV2	530714	444016	28.88%	2.062%
26	10.013	1302	1305	1308	rVB	178974	156323	10.17%	0.726%
27	10.136	1320	1326	1329	rBV3	21338	27973	1.82%	0.130%
28	10.183	1329	1334	1337	rBV	102199	97175	6.32%	0.451%
29	10.219	1337	1340	1342	rVB2	22198	20084	1.31%	0.093%
30	10.289	1349	1352	1355	rBV	20292	21819	1.42%	0.101%
31	10.383	1364	1368	1370	rBV2	47671	43005	2.80%	0.200%
32	10.530	1389	1393	1398	rVB	157184	148693	9.67%	0.691%
33	10.595	1398	1404	1409	rBV4	33684	70903	4.61%	0.329%
34	10.683	1417	1419	1423	rVB	41468	37715	2.45%	0.175%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071118\
Data File : BF107305.D
Acq On : 11 Jul 2018 17:32
Operator : JU/SJ
Sample : J3880-19
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-20

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-BF061918.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	10.778	1431	1435	1440	rBV	909531	814255	52.96%	3.781%
36	10.872	1446	1451	1453	rBV3	41131	61997	4.03%	0.288%
37	11.077	1480	1486	1489	rBV3	35060	51466	3.35%	0.239%
38	11.107	1489	1491	1494	rVB3	20014	18253	1.19%	0.085%
39	11.201	1502	1507	1509	rBV5	17145	23725	1.54%	0.110%
40	11.225	1509	1511	1516	rVB3	19252	25160	1.64%	0.117%
41	11.283	1518	1521	1523	rBV	35610	28295	1.84%	0.131%
42	11.313	1523	1526	1529	rBV2	37957	53267	3.46%	0.247%
43	11.372	1534	1536	1541	rVB	42818	38114	2.48%	0.177%
44	11.477	1550	1554	1556	rBV	485071	452297	29.42%	2.100%
45	11.501	1556	1558	1561	rVV	512108	391781	25.48%	1.819%
46	11.554	1564	1567	1570	rVV	145383	122947	8.00%	0.571%
47	11.713	1589	1594	1596	rBV2	49524	49394	3.21%	0.229%
48	11.736	1596	1598	1601	rVB2	32445	25077	1.63%	0.116%
49	11.813	1608	1611	1614	rVB2	17219	21893	1.42%	0.102%
50	11.977	1636	1639	1641	rBV	83737	71618	4.66%	0.333%
51	12.007	1641	1644	1648	rVV2	104097	93732	6.10%	0.435%
52	12.054	1649	1652	1655	rVB	52636	43462	2.83%	0.202%
53	12.095	1655	1659	1661	rBV2	138341	156154	10.16%	0.725%
54	12.148	1665	1668	1672	rBV3	24427	29812	1.94%	0.138%
55	12.272	1686	1689	1692	rBV	69402	62726	4.08%	0.291%
56	12.313	1693	1696	1699	rVB2	41606	36171	2.35%	0.168%
57	12.424	1710	1715	1717	rBV2	28089	39804	2.59%	0.185%
58	12.454	1718	1720	1722	rVB	28794	19334	1.26%	0.090%
59	12.483	1722	1725	1727	rBV2	23062	19534	1.27%	0.091%
60	12.530	1730	1733	1736	rBV2	84488	87976	5.72%	0.409%
61	12.630	1745	1750	1752	rBV2	66014	84134	5.47%	0.391%
62	12.701	1758	1762	1765	rBV	867364	769234	50.03%	3.572%
63	12.730	1765	1767	1770	rVV2	27502	29878	1.94%	0.139%
64	12.760	1770	1772	1776	rVV2	26812	34461	2.24%	0.160%
65	12.795	1776	1778	1780	rVB	26153	20200	1.31%	0.094%
66	12.854	1785	1788	1790	rVV3	44992	57295	3.73%	0.266%
67	12.913	1794	1798	1799	rBV2	170380	185037	12.03%	0.859%
68	12.930	1799	1801	1806	rVV	741014	759490	49.40%	3.527%
69	12.977	1806	1809	1813	rVB	57203	70465	4.58%	0.327%
70	13.066	1819	1824	1827	rBV	1542654	1435134	93.34%	6.665%
71	13.095	1827	1829	1833	rVB	55084	53740	3.50%	0.250%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071118\
Data File : BF107305.D
Acq On : 11 Jul 2018 17:32
Operator : JU/SJ
Sample : J3880-19
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-20

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-BF061918.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.148	1833	1838	1842	rBV2	72117	133361	8.67%	0.619%
73	13.260	1854	1857	1860	rVB2	144264	143816	9.35%	0.668%
74	13.324	1865	1868	1870	rBV	81979	67223	4.37%	0.312%
75	13.366	1871	1875	1877	rBV2	87799	90710	5.90%	0.421%
76	13.460	1888	1891	1893	rBV	77036	69676	4.53%	0.324%
77	13.489	1893	1896	1899	rVV	79895	77137	5.02%	0.358%
78	13.607	1914	1916	1918	rBV	42040	33163	2.16%	0.154%
79	13.771	1942	1944	1948	rVB	140070	135445	8.81%	0.629%
80	13.883	1961	1963	1965	rBV	90041	69924	4.55%	0.325%
81	13.907	1965	1967	1969	rVV	87966	65054	4.23%	0.302%
82	13.942	1969	1973	1978	rVV3	228069	298874	19.44%	1.388%
83	13.989	1978	1981	1987	rVB	92339	111831	7.27%	0.519%
84	14.077	1994	1996	1999	rVB	115904	95471	6.21%	0.443%
85	14.136	2001	2006	2009	rVV2	665199	1095213	71.23%	5.086%
86	14.166	2009	2011	2017	rVB	490664	415468	27.02%	1.929%
87	14.248	2022	2025	2030	rBV2	101662	149140	9.70%	0.693%
88	14.530	2071	2073	2075	rVB	101786	73937	4.81%	0.343%
89	14.566	2077	2079	2081	rBV2	88743	82115	5.34%	0.381%
90	15.224	2187	2191	2199	rBV	343739	736314	47.89%	3.419%
91	15.548	2243	2246	2250	rBV	188146	231787	15.08%	1.076%
92	15.618	2254	2258	2265	rBV	239766	362260	23.56%	1.682%
93	15.683	2266	2269	2272	rBV	209337	234392	15.24%	1.089%

Sum of corrected areas: 21533082

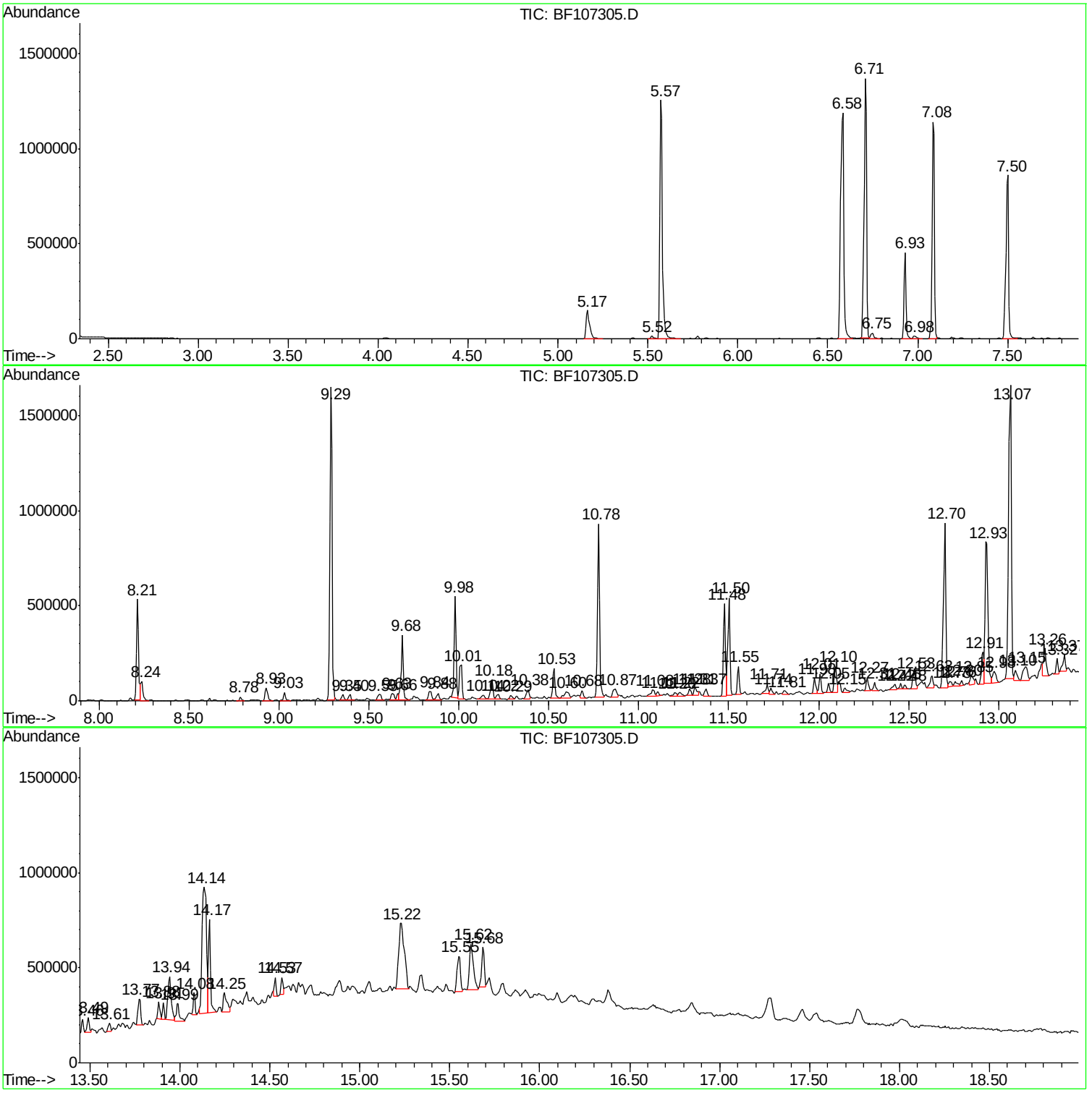
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071118\
Data File : BF107305.D
Acq On : 11 Jul 2018 17:32
Operator : JU/SJ
Sample : J3880-19
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SURCHARGE-SP-20

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.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\BF071118\
Data File : BF107305.D
Acq On : 11 Jul 2018 17:32
Operator : JU/SJ
Sample : J3880-19
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-20

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

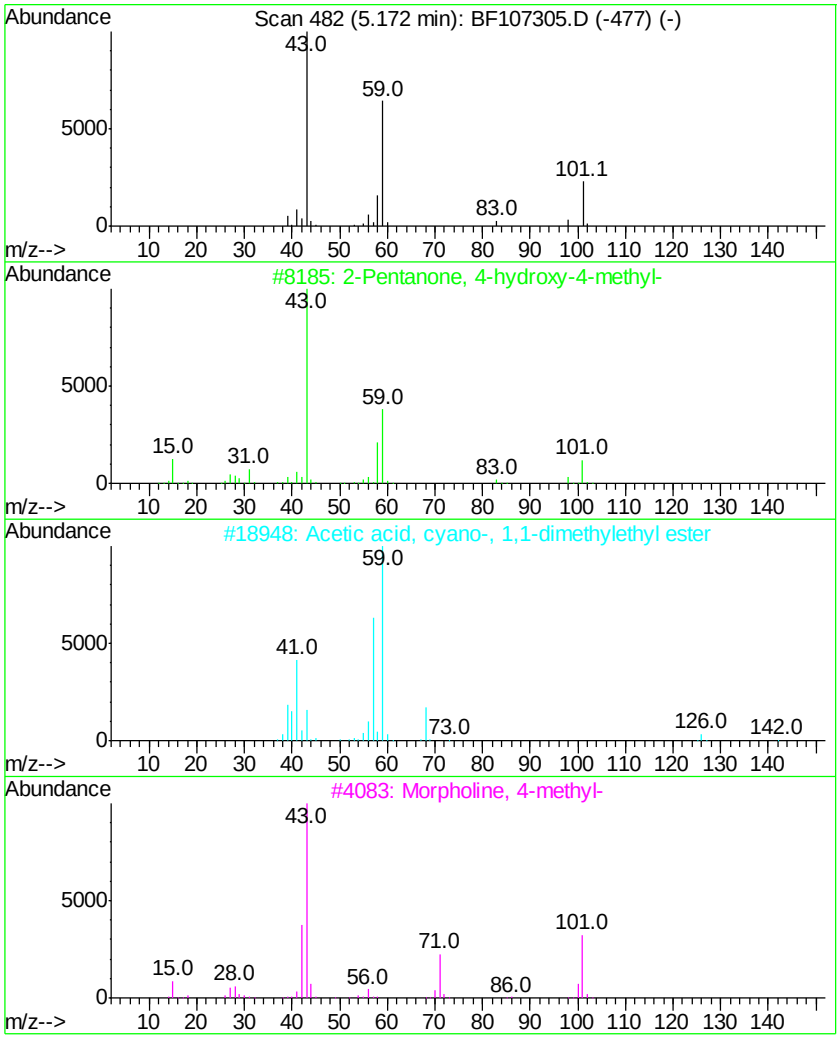
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

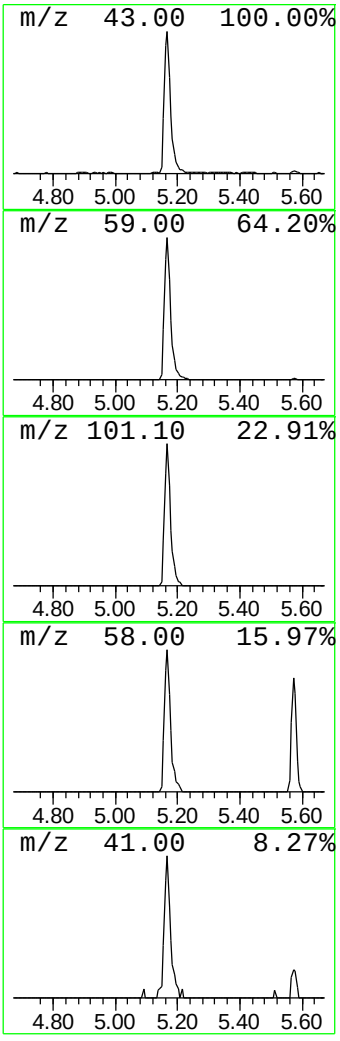
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.17	10.44 ng	201766	1,4-Dichlorobenzene-d4	6.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	72
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	17
3	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9
4	Butane, 1-ethoxy-	102	C6H14O	000628-81-9	9
5	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071118\
Data File : BF107305.D
Acq On : 11 Jul 2018 17:32
Operator : JU/SJ
Sample : J3880-19
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-20

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

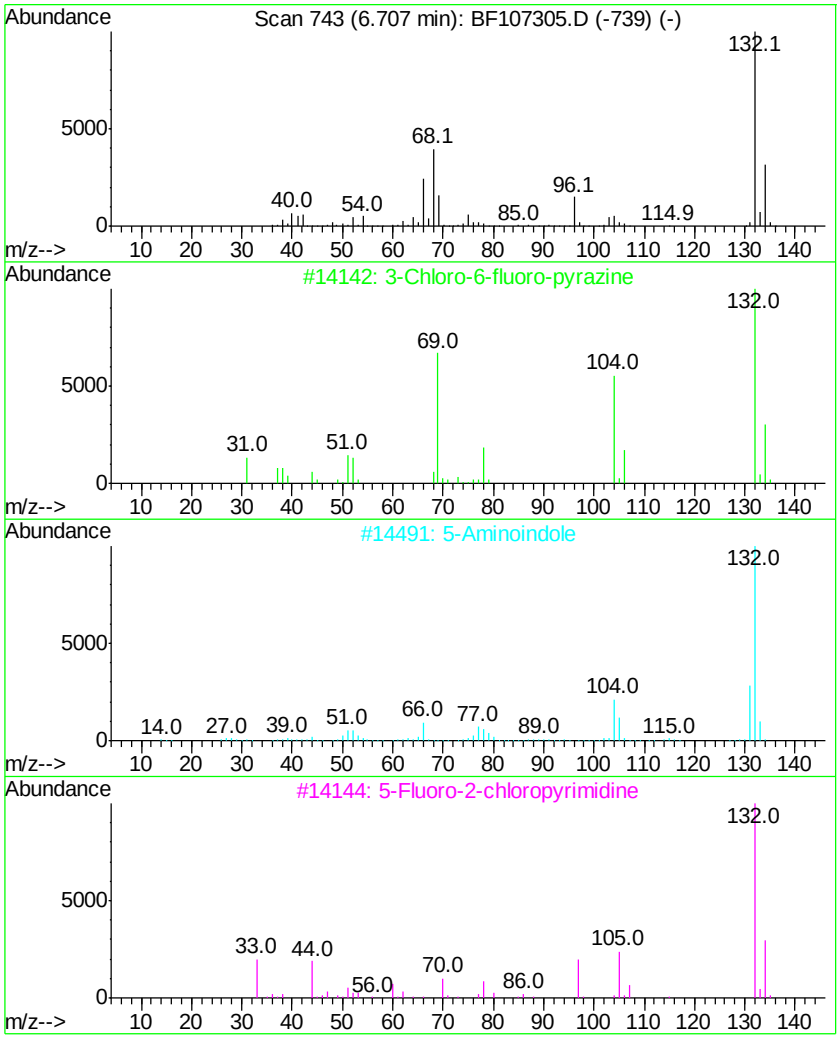
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

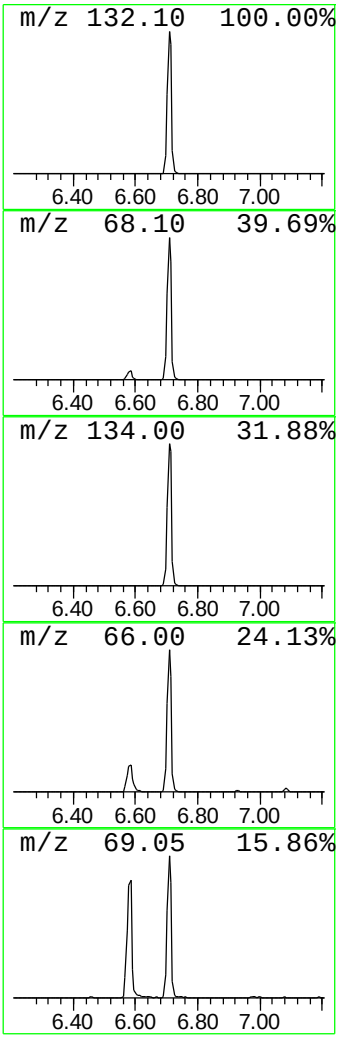
****

Peak Number 2 unknown6.71 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.71	68.93 ng	1332610	1,4-Dichlorobenzene-d4	6.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2	5-Aminoindole	132	C8H8N2	005192-03-0	12
3	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	9
4	4-Chloro-2-fluoro-pyrimidine	132	C4H2ClFN2	051422-00-5	9
5	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	9





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071118\
Data File : BF107305.D
Acq On : 11 Jul 2018 17:32
Operator : JU/SJ
Sample : J3880-19
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-20

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

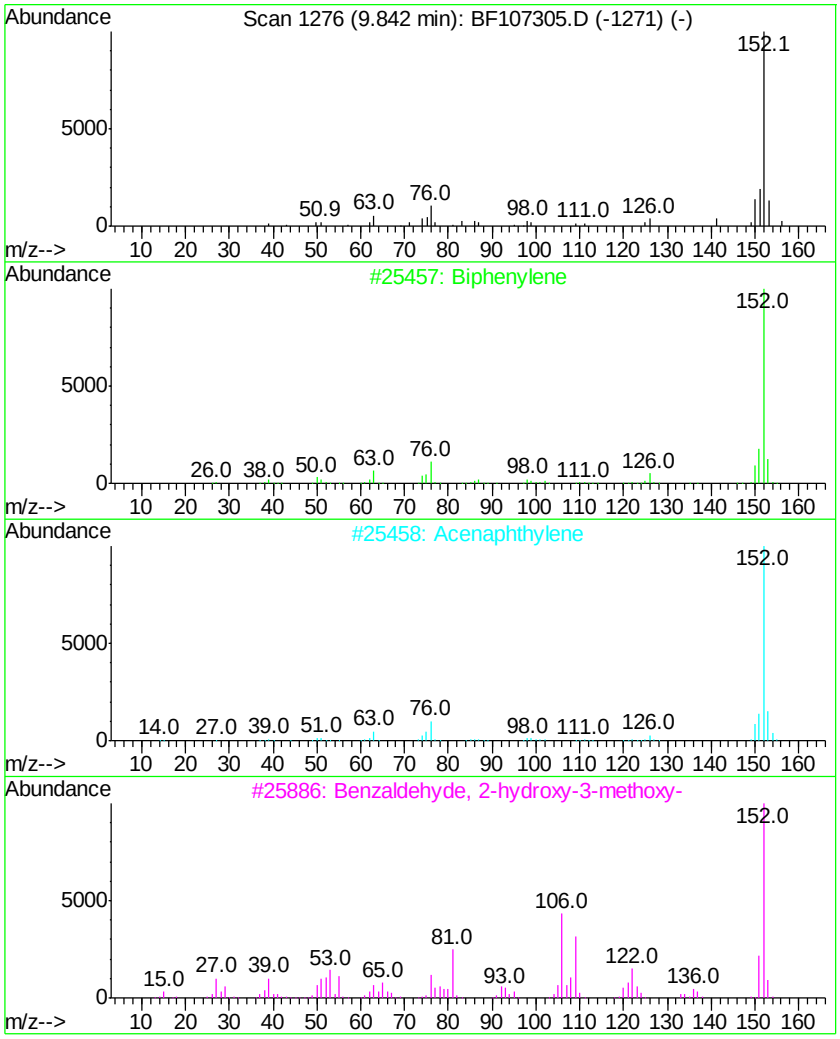
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

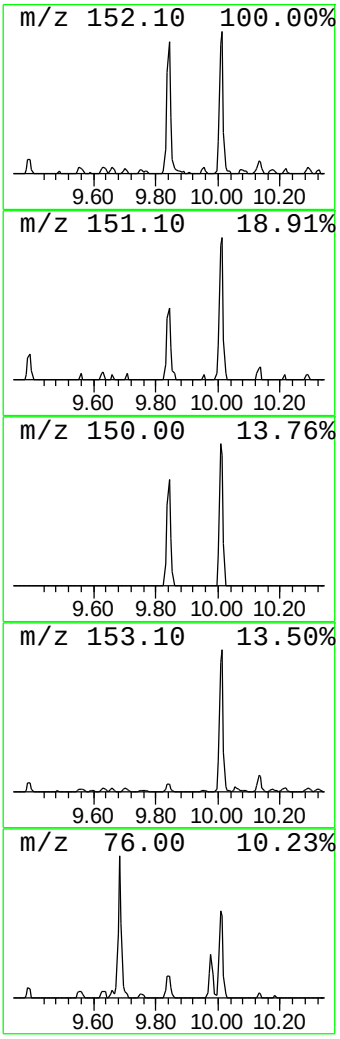
****

Peak Number 4 Biphenylene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.84	2.28 ng	50641	Acenaphthene-d10	9.98

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Biphenylene	152	C12H8	000259-79-0	90
2	Acenaphthylene	152	C12H8	000208-96-8	90
3	Benzaldehyde, 2-hydroxy-3-methoxy-	152	C8H8O3	000148-53-8	50
4	1-acenaphthenol, trifluoroacetat...	266	C14H9F3O2	1000376-45-2	38
5	l-Proline, n-propargyloxycarbony...	239	C12H17NO4	1000328-16-9	36





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071118\
Data File : BF107305.D
Acq On : 11 Jul 2018 17:32
Operator : JU/SJ
Sample : J3880-19
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-20

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

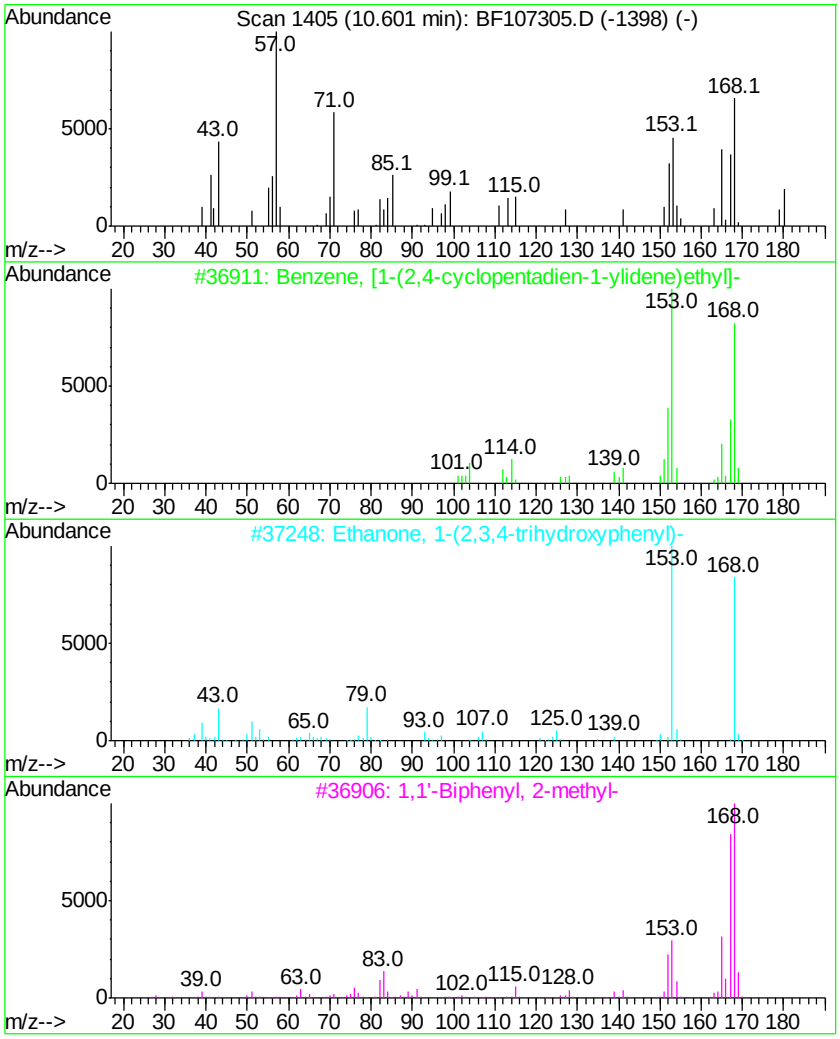
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

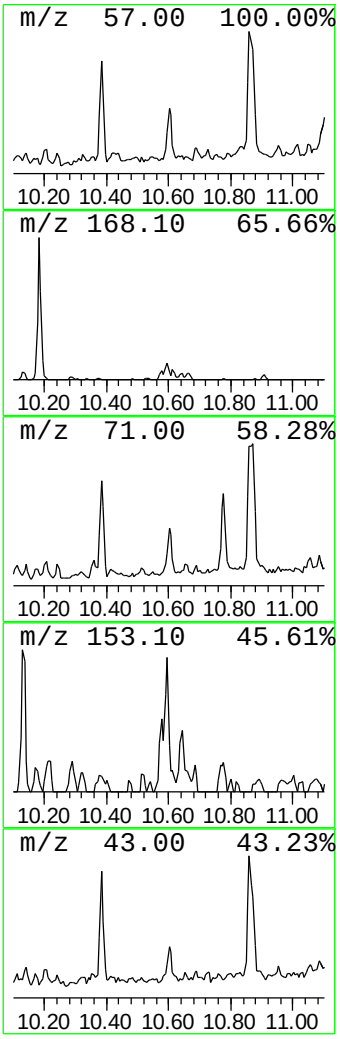
****

Peak Number 5 Benzene, [1-(2,4-cyclopenta... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.60	3.19 ng	70903	Acenaphthene-d10	9.98

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, [1-(2,4-cyclopentadien-...	168	C13H12	002320-32-3	74
2	Ethanone, 1-(2,3,4-trihydroxyphe...	168	C8H8O4	000528-21-2	43
3	1,1'-Biphenyl, 2-methyl-	168	C13H12	000643-58-3	43
4	Naphthalene, 1-(2-propenyl)-	168	C13H12	002489-86-3	42
5	1-Isopropenylnaphthalene	168	C13H12	001855-47-6	40





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071118\
Data File : BF107305.D
Acq On : 11 Jul 2018 17:32
Operator : JU/SJ
Sample : J3880-19
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-20

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

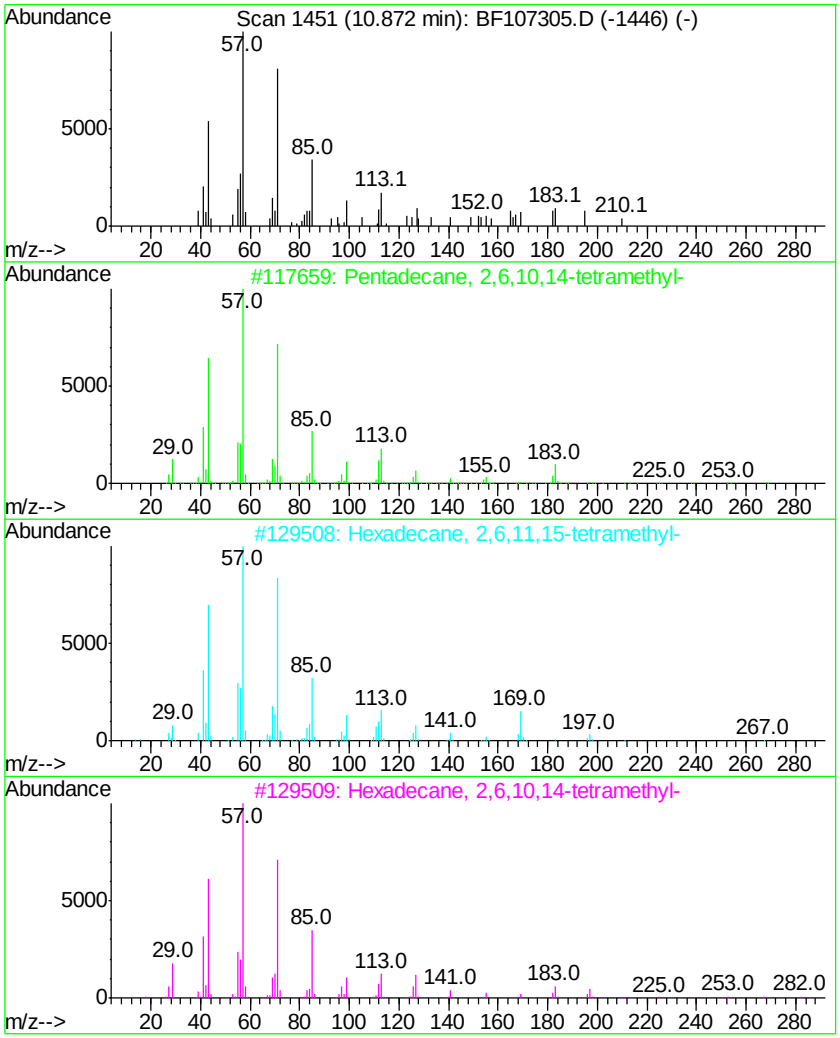
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

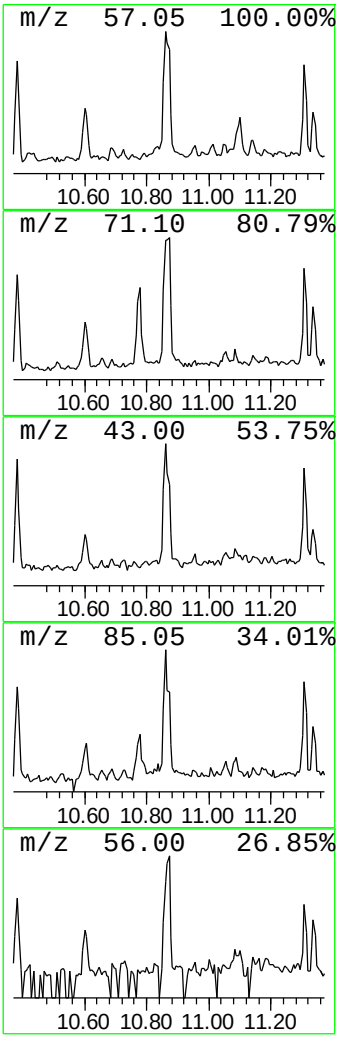
****

Peak Number 6 Pentadecane, 2,6,10,14-tetr... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.87	2.74 ng	61997	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentadecane, 2,6,10,14-tetramethyl-	268	C19H40	001921-70-6	90
2	Hexadecane, 2,6,11,15-tetramethyl-	282	C20H42	000504-44-9	86
3	Hexadecane, 2,6,10,14-tetramethyl-	282	C20H42	000638-36-8	78
4	Dodecane, 2-methyl-8-propyl-	226	C16H34	055045-07-3	72
5	Heptadecane, 2,6-dimethyl-	268	C19H40	054105-67-8	72





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071118\
Data File : BF107305.D
Acq On : 11 Jul 2018 17:32
Operator : JU/SJ
Sample : J3880-19
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-20

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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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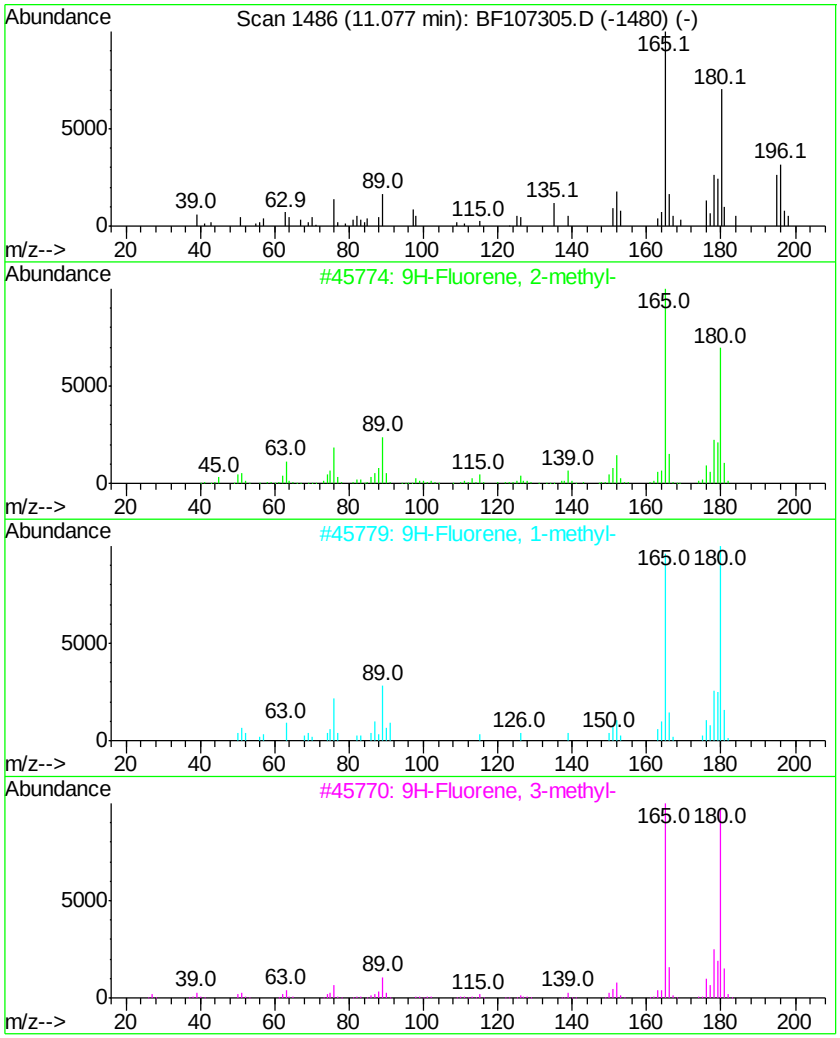
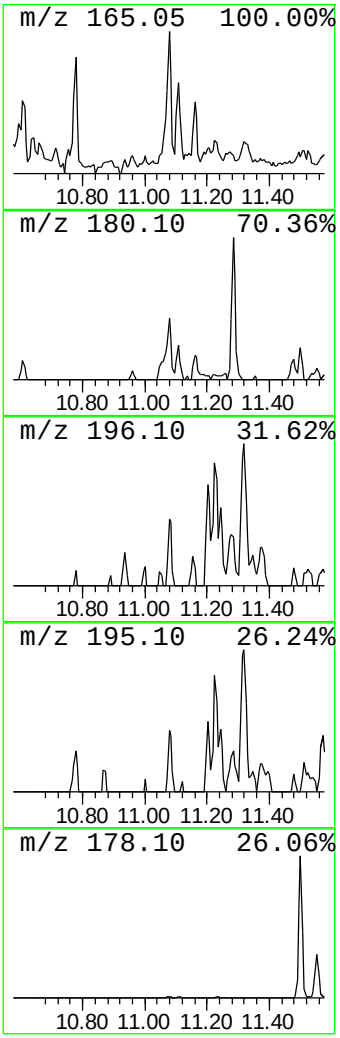
Peak Number 7 9H-Fluorene, 2-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.08	2.28 ng	51466	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	83
2	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	80
3	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	60
4	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	60
5	Pentacyclo[6.4.0.1(1,8).1(2,7)]t...	180	C14H12	086120-84-5	55





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Acq On : 11 Jul 2018 17:32
Operator : JU/SJ
Sample : J3880-19
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-20

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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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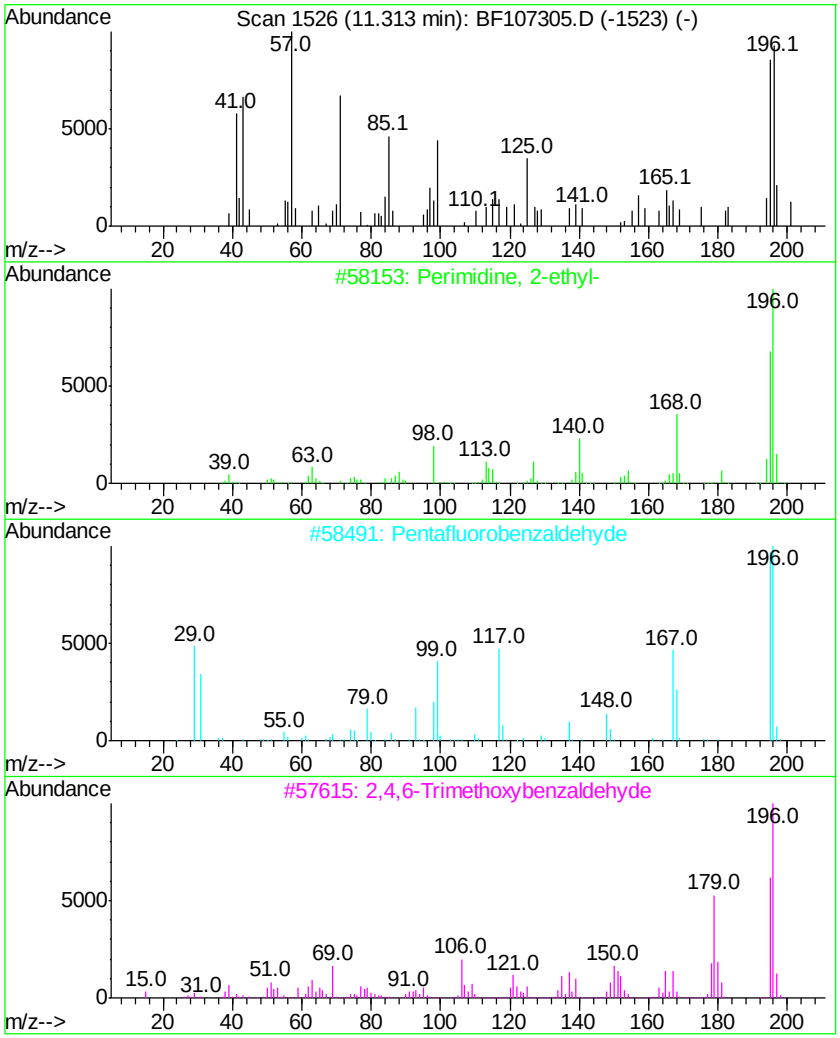
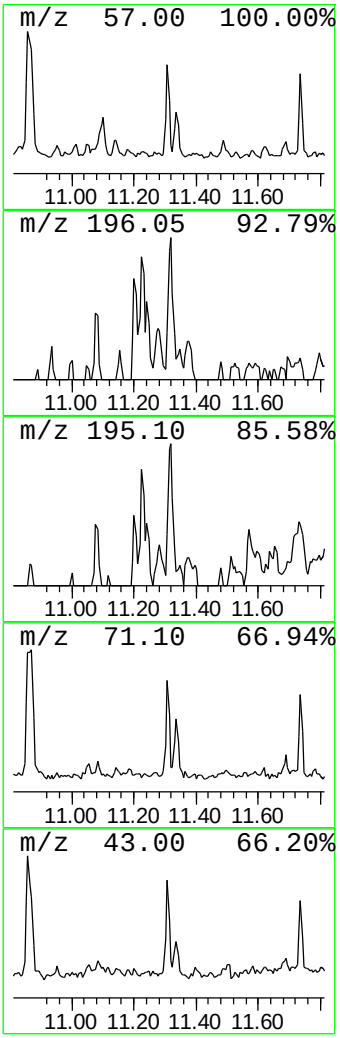
Peak Number 8 unknown11.31 Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.31	2.36 ng	53267	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Perimidine, 2-ethyl-	196	C13H12N2	028478-13-9	45
2	Pentafluorobenzaldehyde	196	C7HF5O	000653-37-2	43
3	2,4,6-Trimethoxybenzaldehyde	196	C10H12O4	000830-79-5	38
4	Benzo[b]benzofuran-2-carboxaldehyde	196	C13H8O2	1000351-56-0	38
5	.beta.-Carboline, 1,2-dimethyl-	196	C13H12N2	109847-05-4	18





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Sample : J3880-19
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Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-20

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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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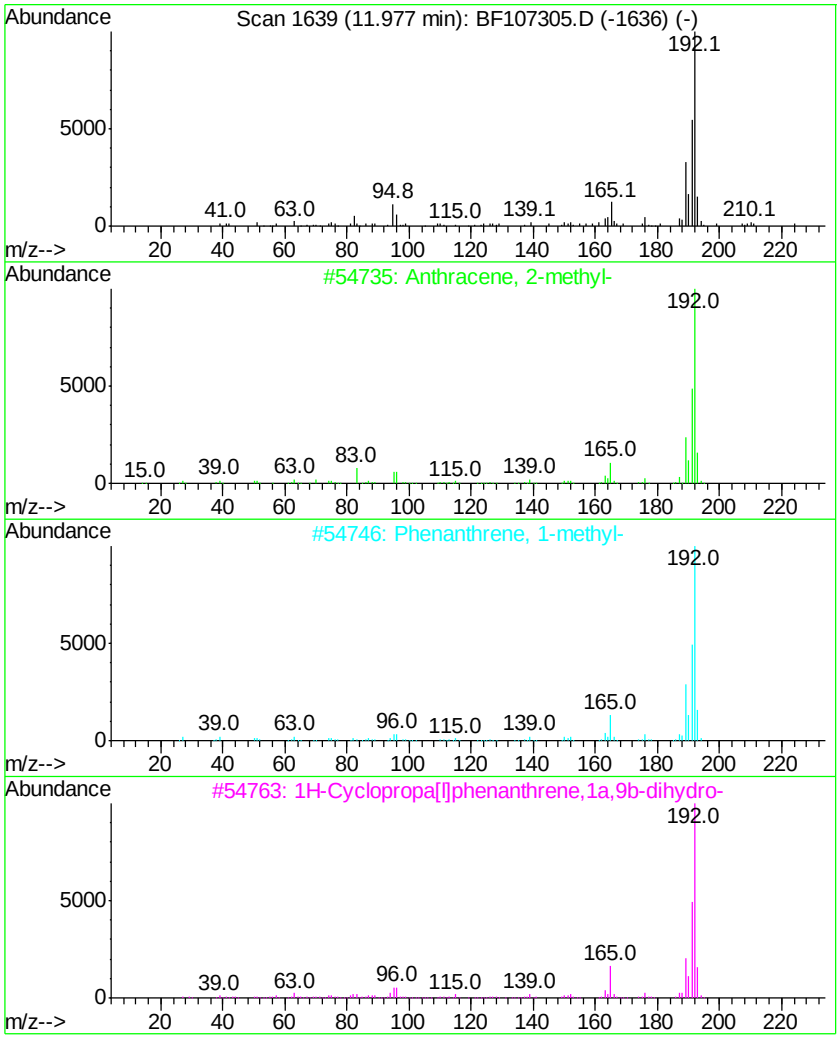
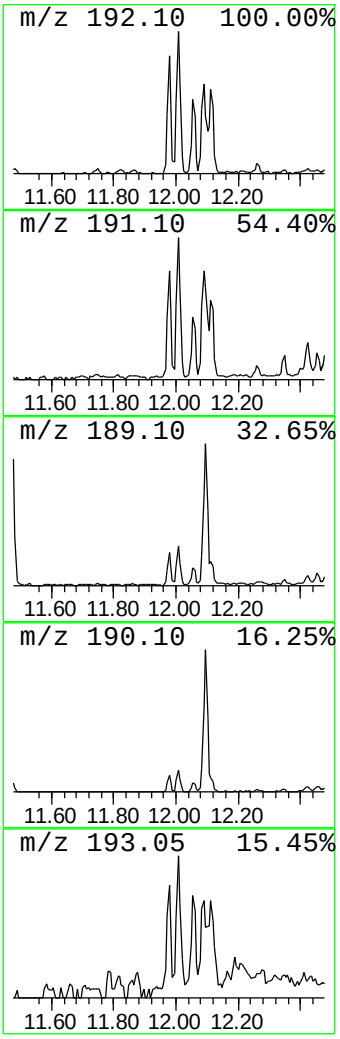
Peak Number 9 Anthracene, 2-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.98	3.17 ng	71618	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	94
4	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	94
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94





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

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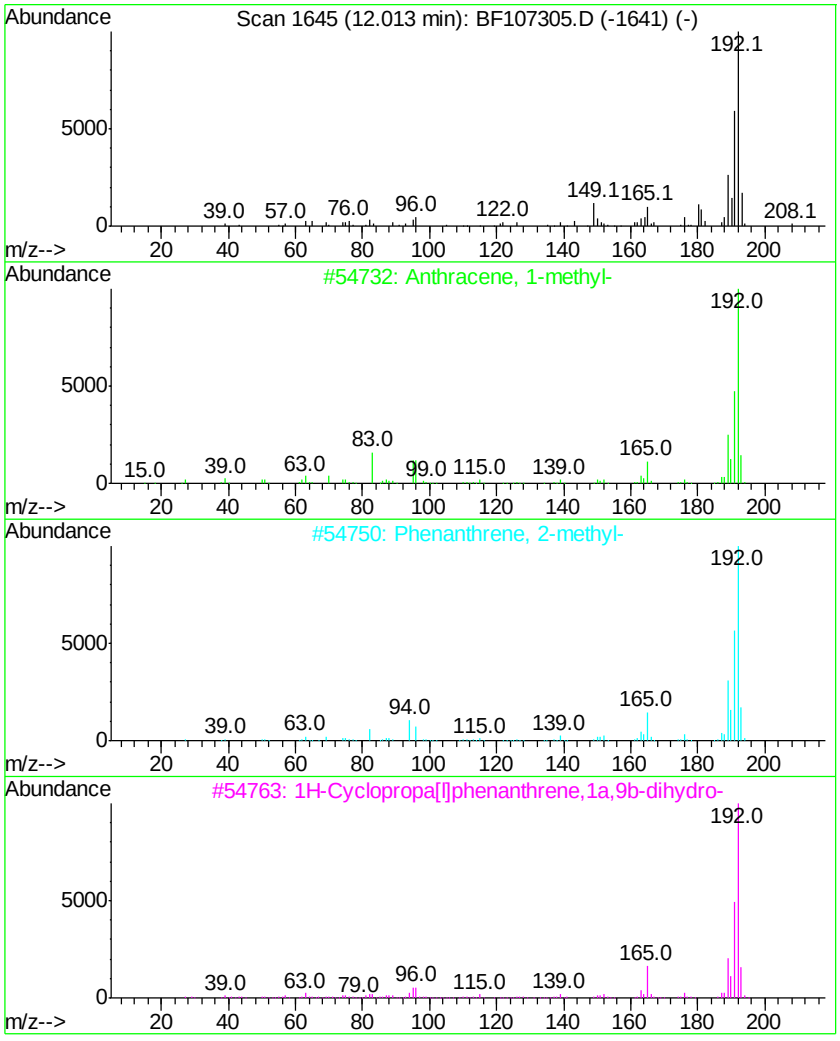
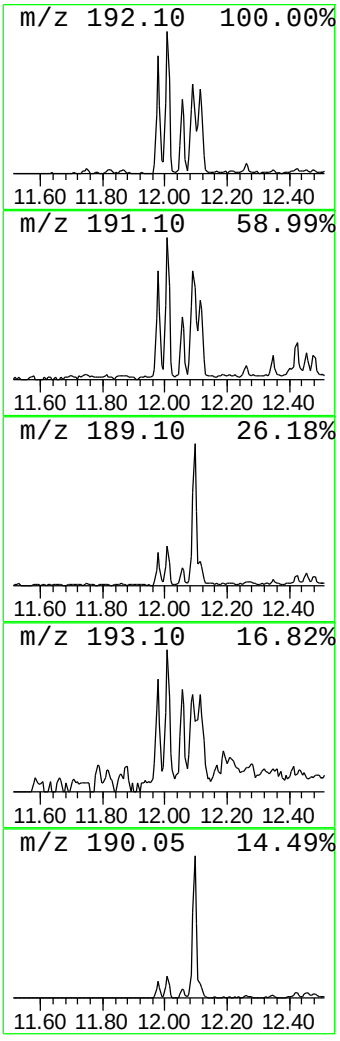
Peak Number 10 Anthracene, 1-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.01	4.14 ng	93732	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	94
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	93
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	91





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Sample : J3880-19
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-20

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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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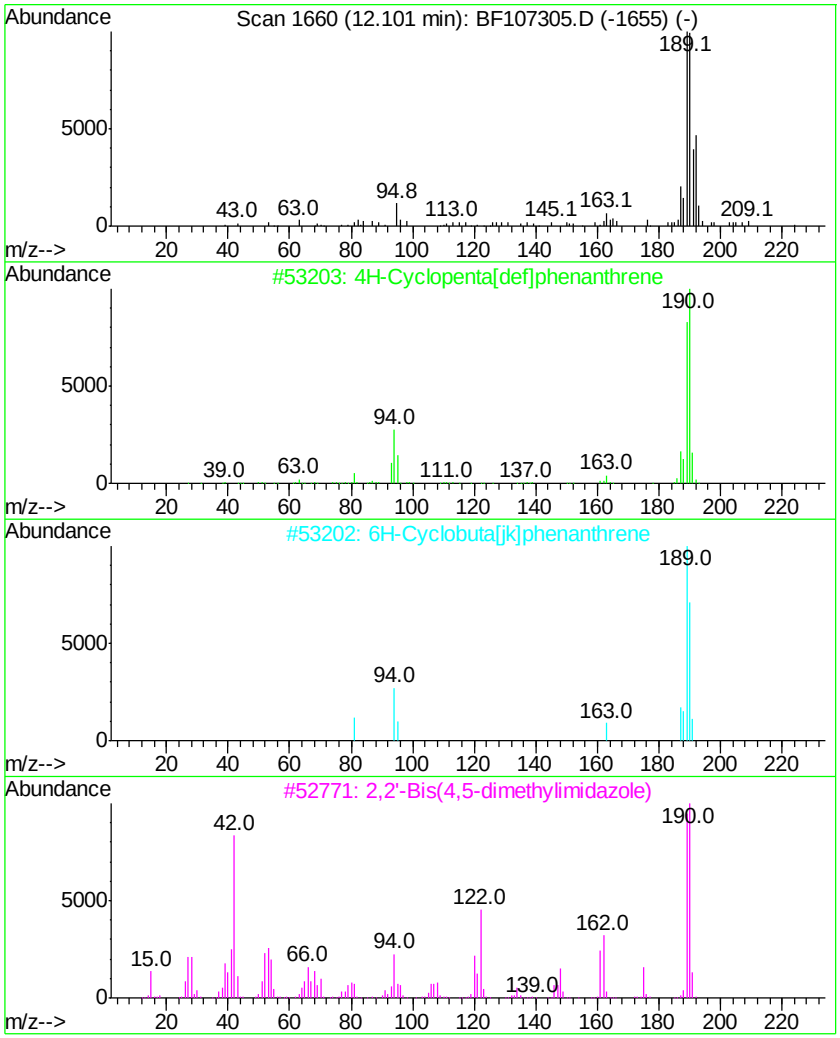
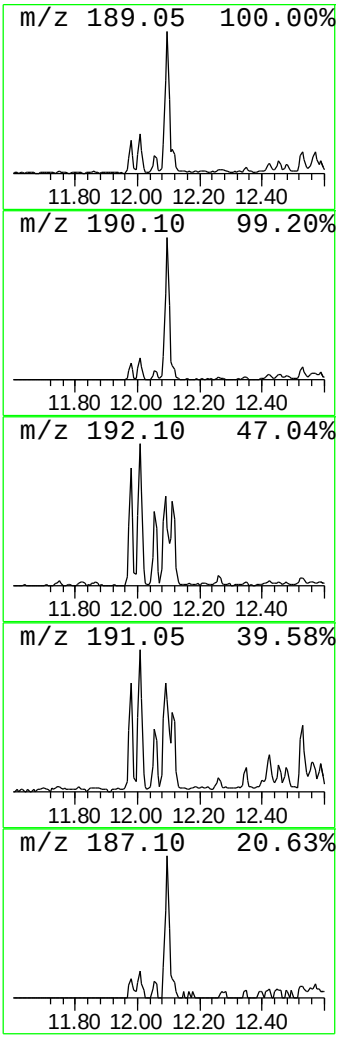
Peak Number 11 4H-Cyclopenta[def]phenanthrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.10	6.90 ng	156154	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	93
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	72
3	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	45
4	1,4-Naphthalenedione, 2,5-dihydr...	190	C10H6O4	004923-55-1	17
5	4-Isothiazolecarbonitrile, 5-chl...	190	C5H3ClN2S2	054798-93-5	16





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Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-20

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.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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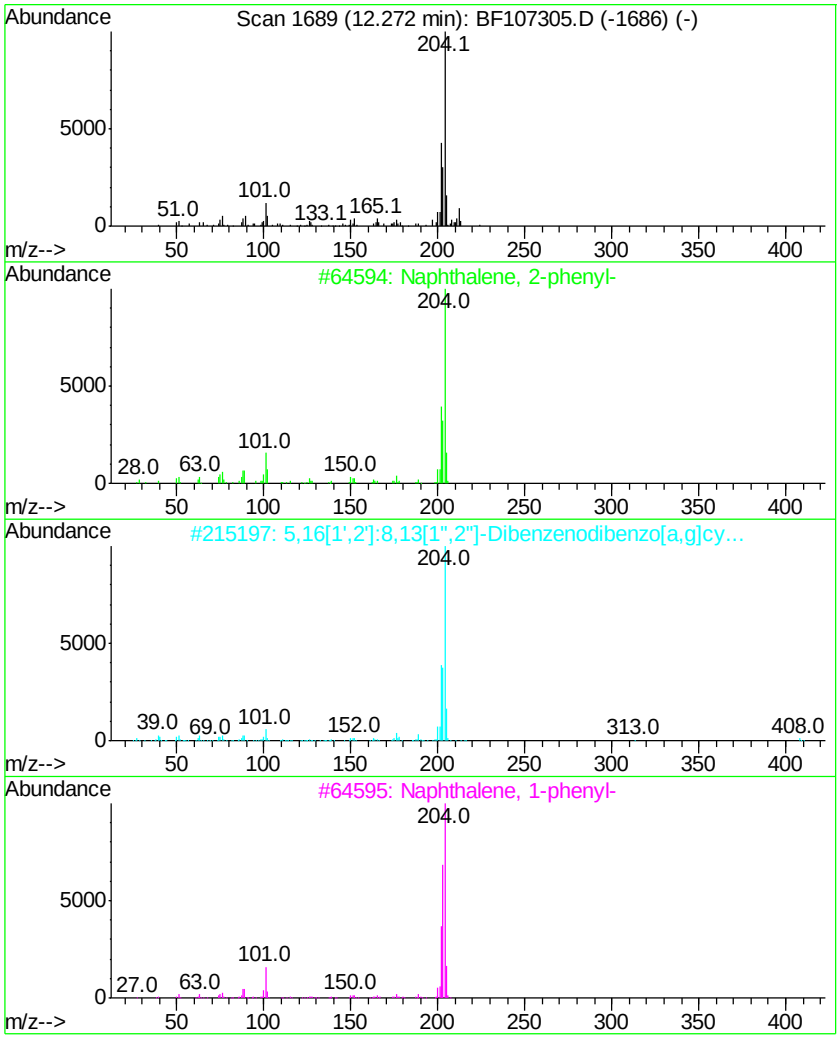
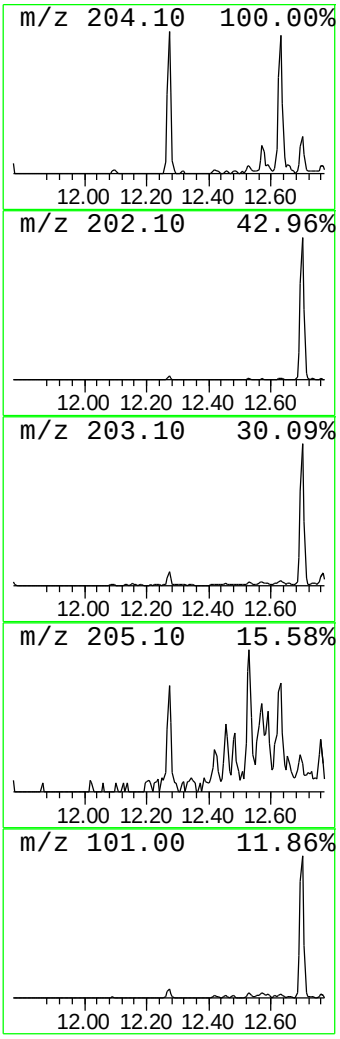
Peak Number 12 Naphthalene, 2-phenyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.27	2.77 ng	62726	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	83
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	80
3	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	70
4	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	58
5	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	46





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Operator : JU/SJ
Sample : J3880-19
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-20

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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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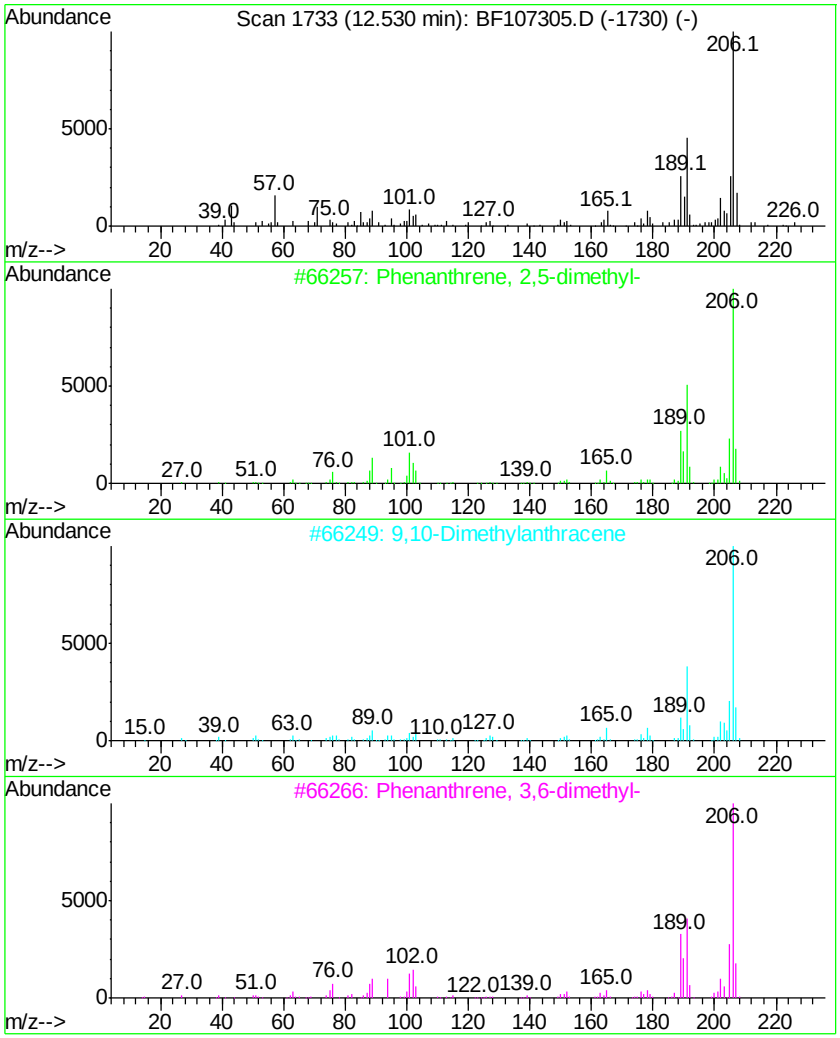
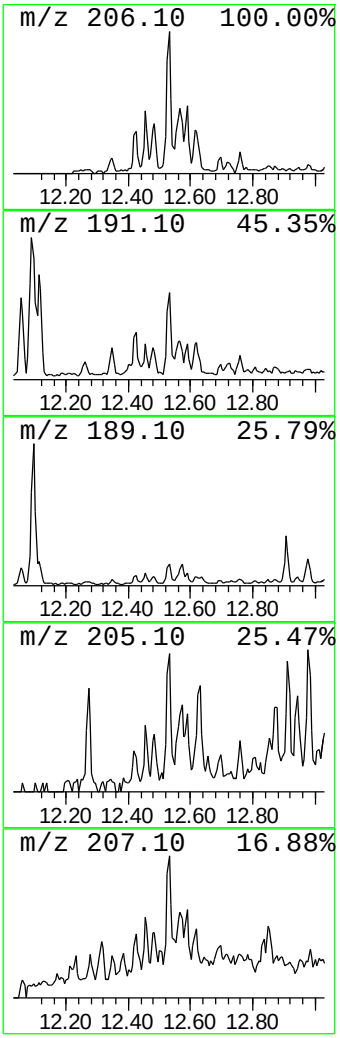
Peak Number 13 Phenanthrene, 2,5-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.53	3.89 ng	87976	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	90
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	90
4	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	87
5	Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	83





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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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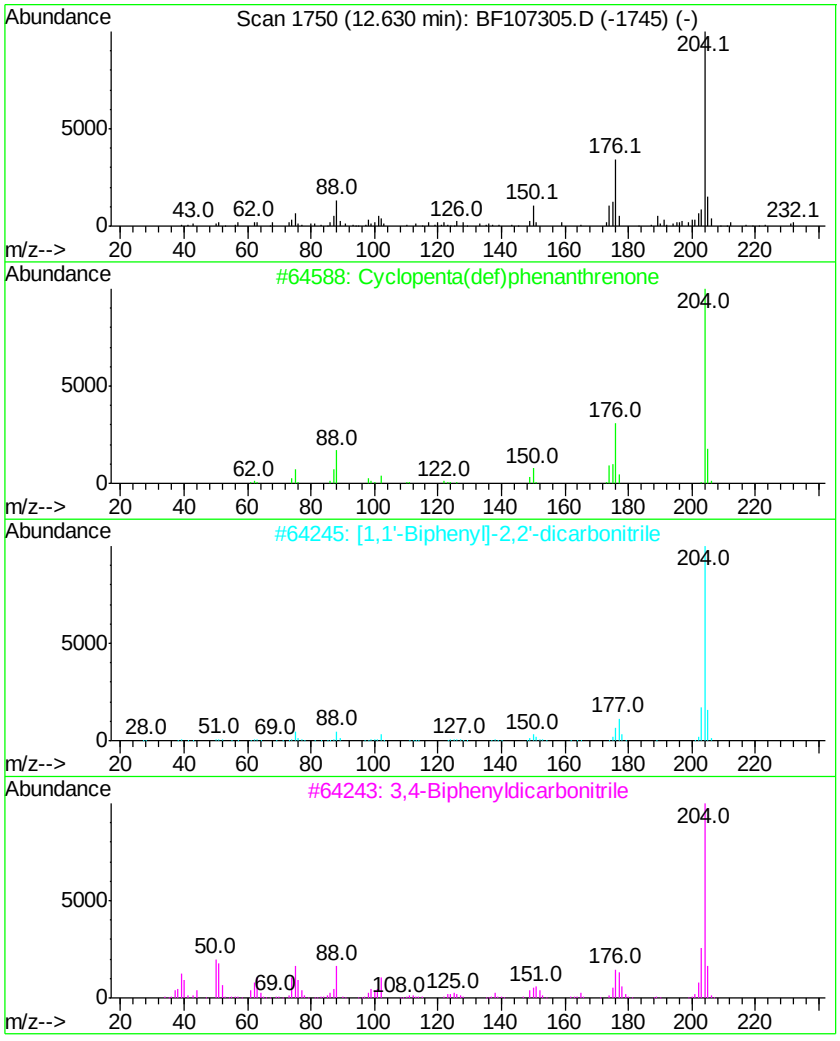
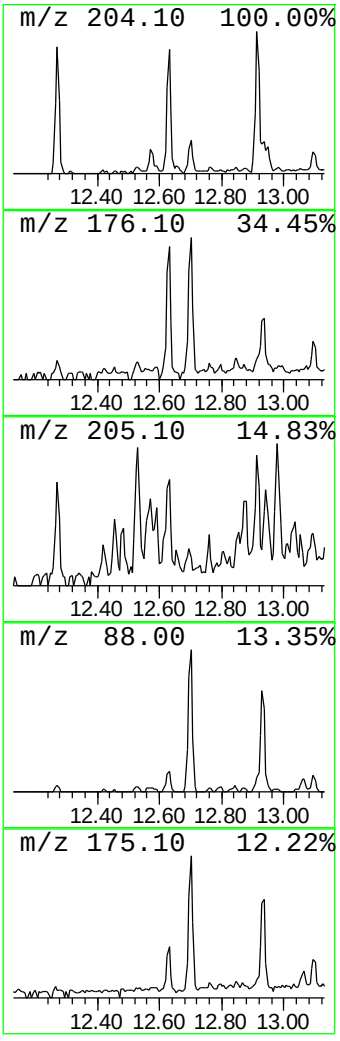
Peak Number 14 Cyclopenta(def)phenanthrenone Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.63	3.72 ng	84134	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	96
2	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	59
3	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	59
4	6-Cyanophenanthridine	204	C14H8N2	002176-28-5	53
5	Tetracyano-p-quinodimethane	204	C12H4N4	001518-16-7	52





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Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-20

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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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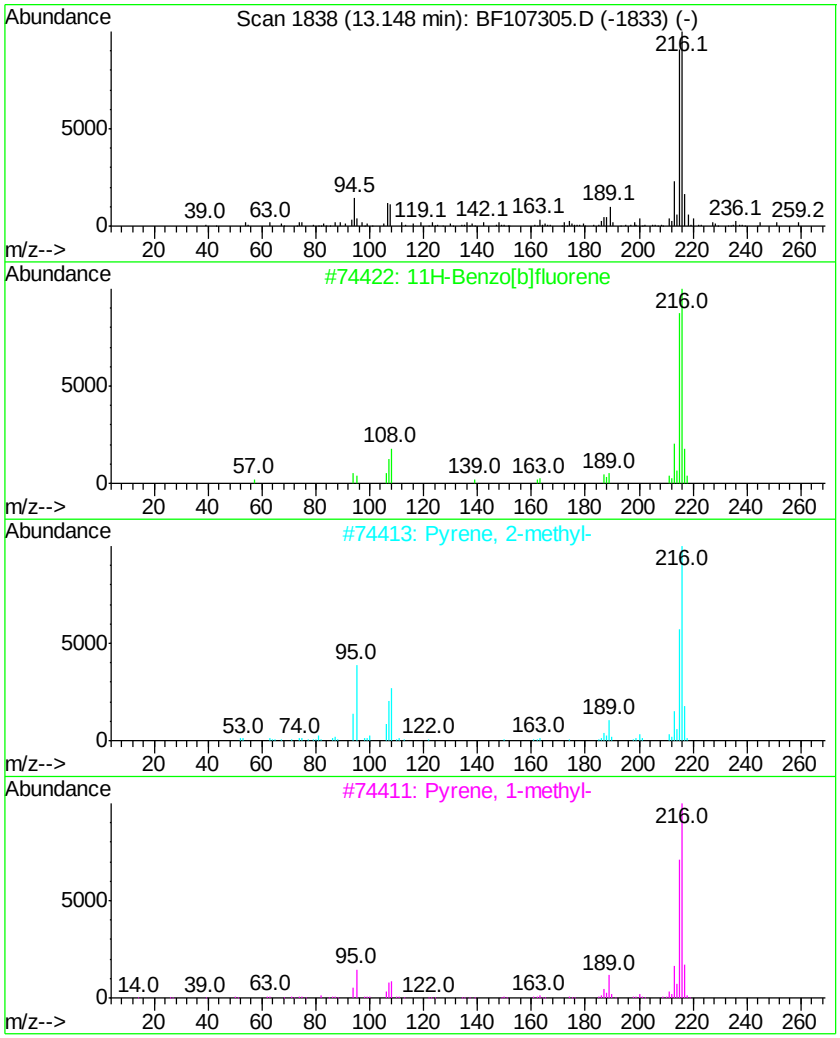
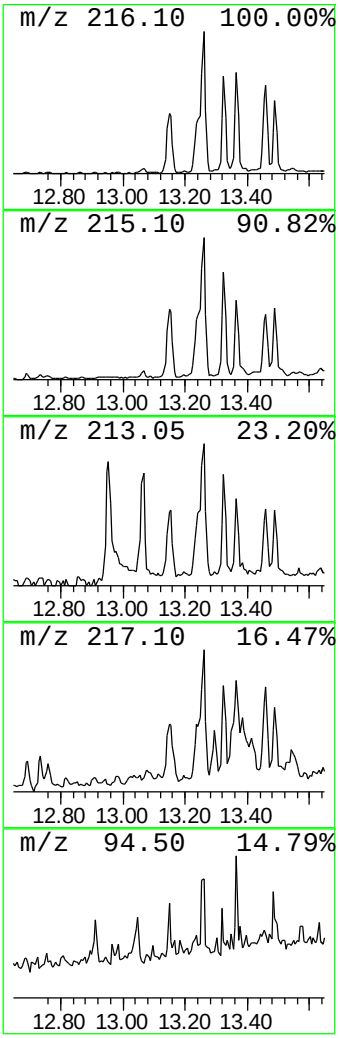
Peak Number 15 11H-Benzo[b]fluorene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	2.44 ng	133361	Chrysene-d12	14.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
2	Pyrene, 2-methyl-	216	C17H12	003442-78-2	93
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	87
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	81
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	81





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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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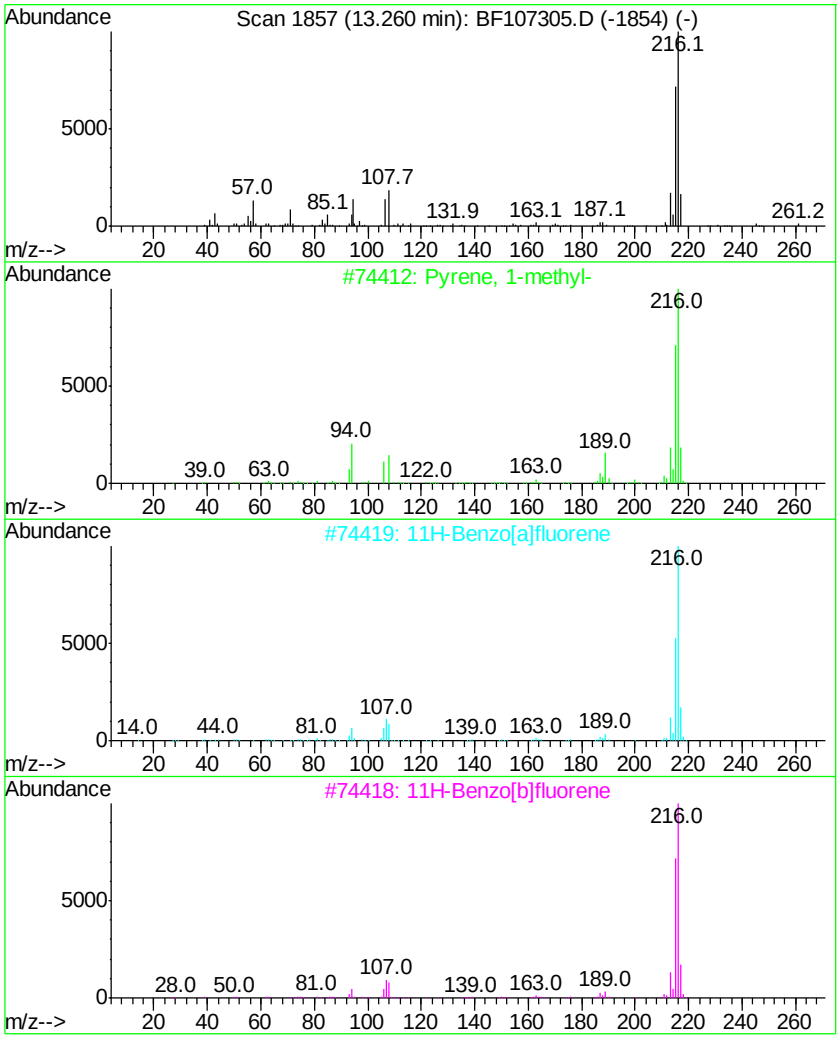
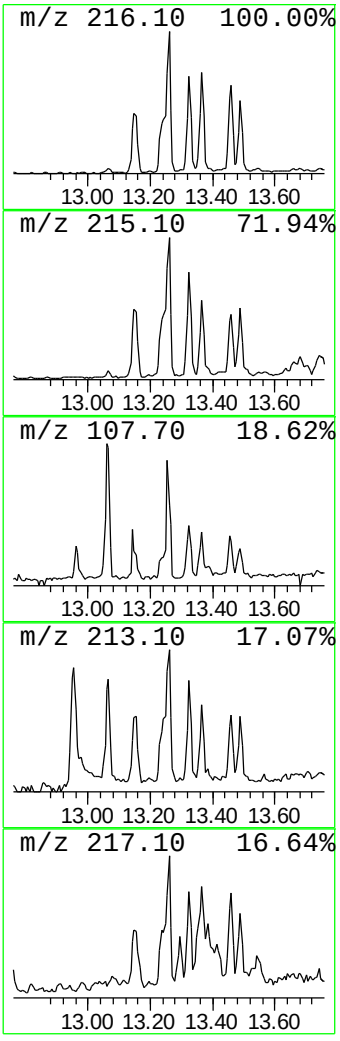
Peak Number 16 Pyrene, 1-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.26	2.63 ng	143816	Chrysene-d12	14.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	87
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	83
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	83
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	72





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

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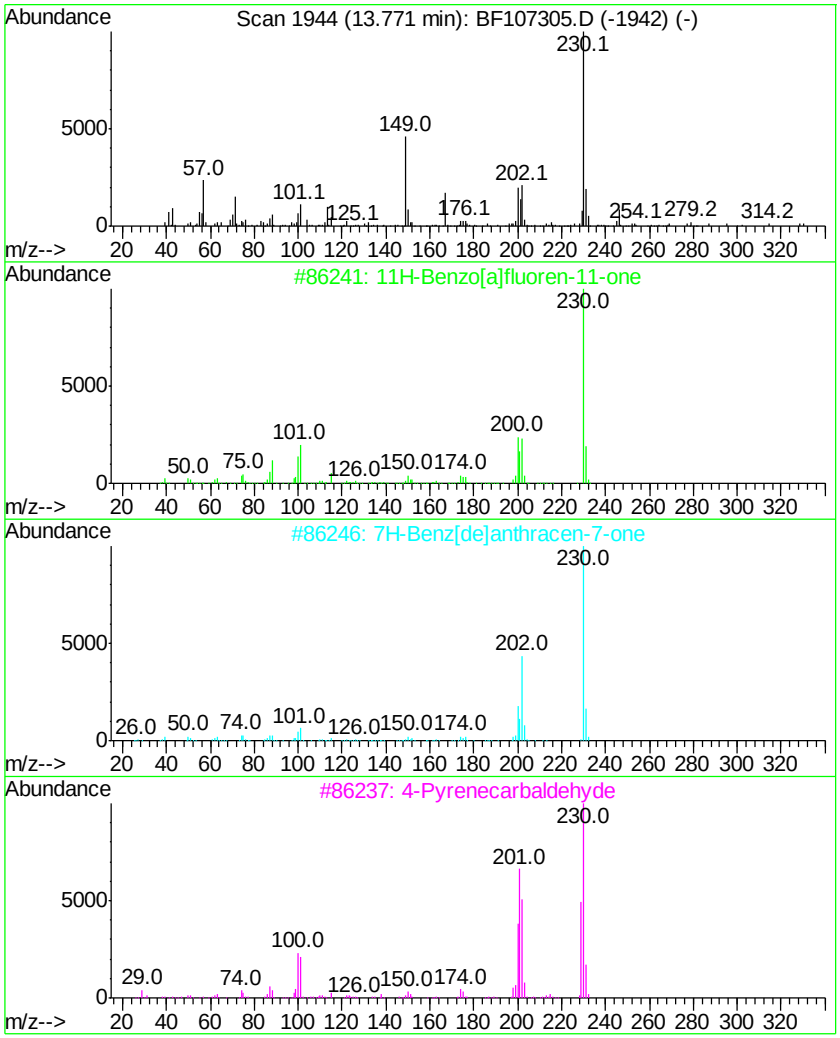
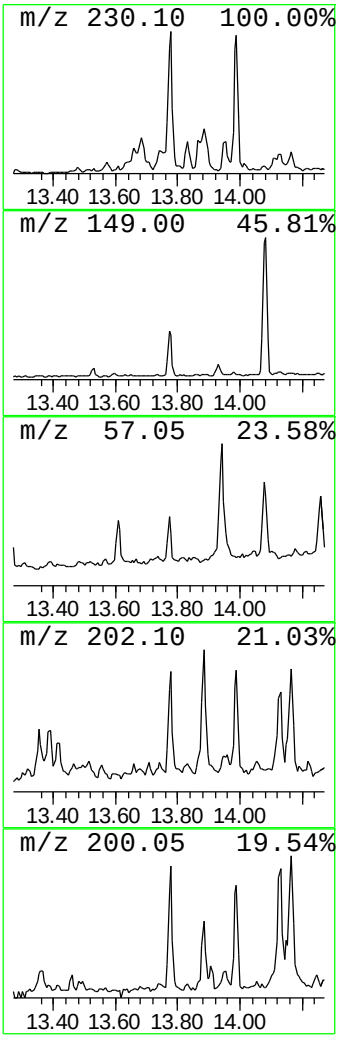
Peak Number 17 11H-Benzo[a]fluoren-11-one Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.77	2.47 ng	135445	Chrysene-d12	14.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	93
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	70
3	4-Pyrenecarbaldehyde	230	C17H10O	022245-51-8	55
4	1-Pyrenecarboxaldehyde	230	C17H10O	003029-19-4	47
5	o-Terphenyl	230	C18H14	000084-15-1	43





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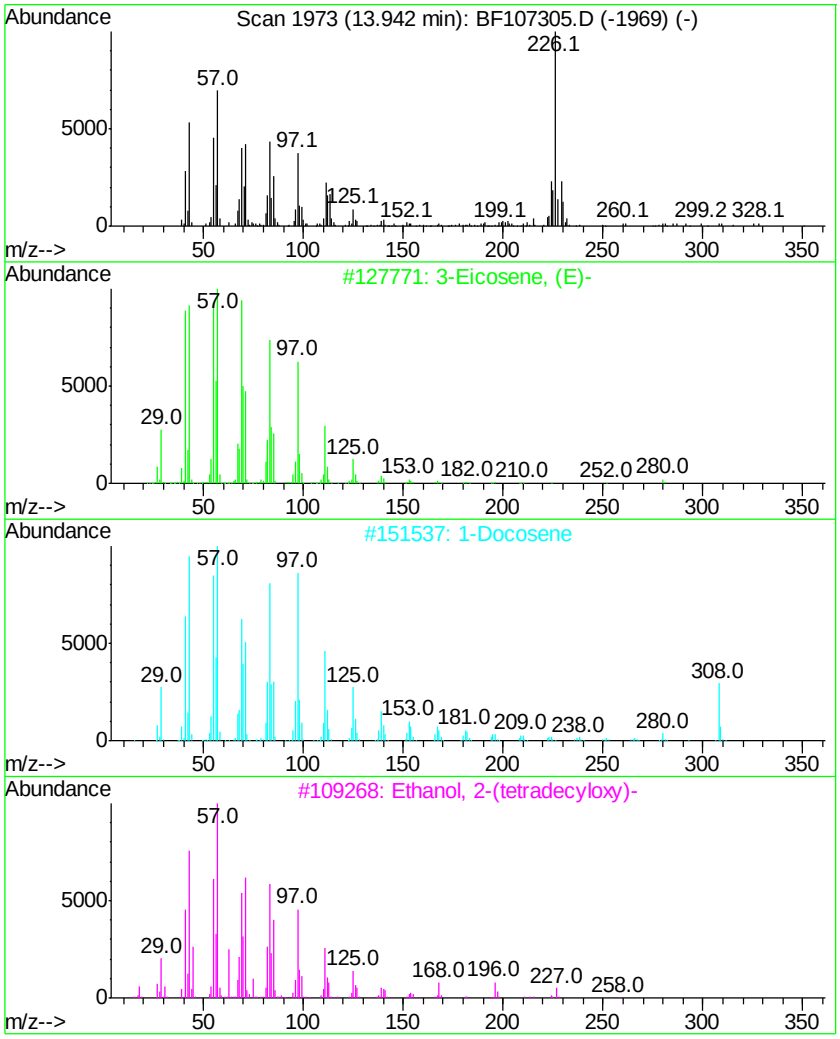
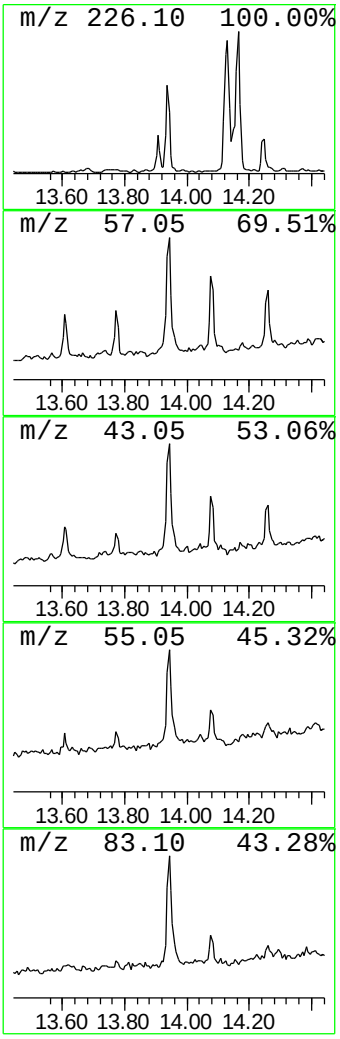
Peak Number 18 3-Eicosene, (E)- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.94	5.46 ng	298874	Chrysene-d12	14.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Eicosene, (E)-	280	C20H40	074685-33-9	68
2	1-Docosene	308	C22H44	001599-67-3	50
3	Ethanol, 2-(tetradecyloxy)-	258	C16H34O2	002136-70-1	50
4	9-Eicosene, (E)-	280	C20H40	074685-29-3	47
5	Trihexadecyl borate	735	C48H99BO3	002665-11-4	45





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Data File : BF107305.D
Acq On : 11 Jul 2018 17:32
Operator : JU/SJ
Sample : J3880-19
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-20

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.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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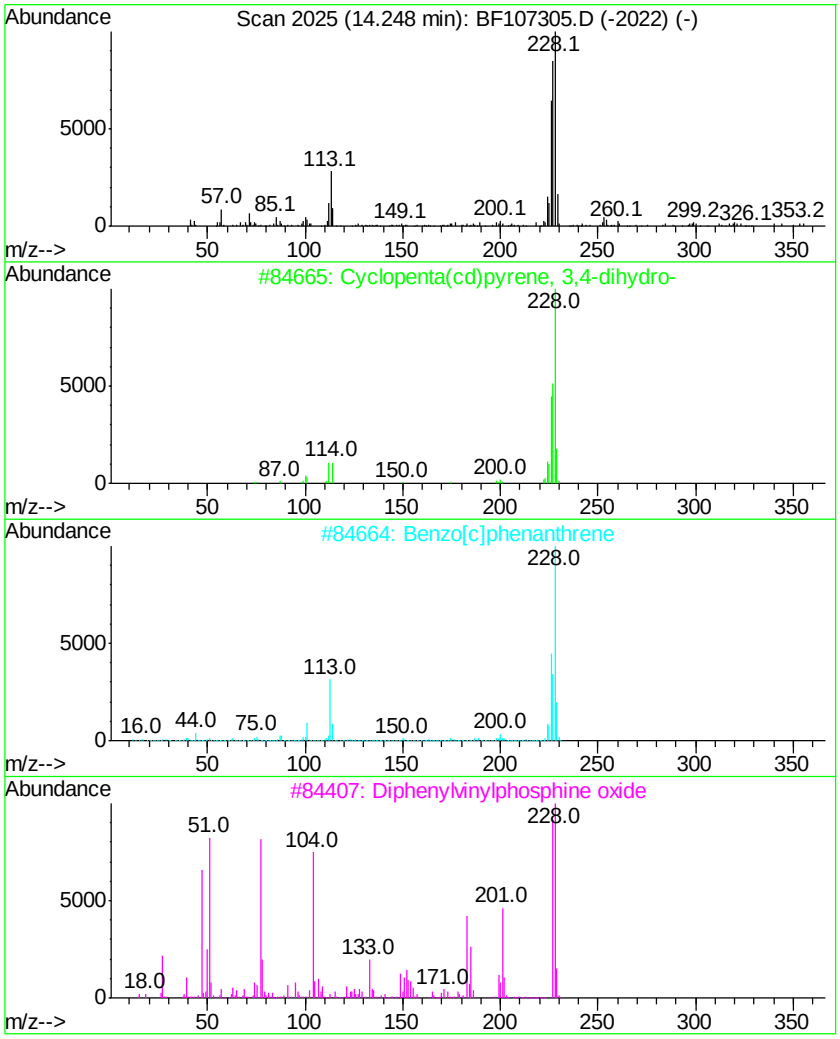
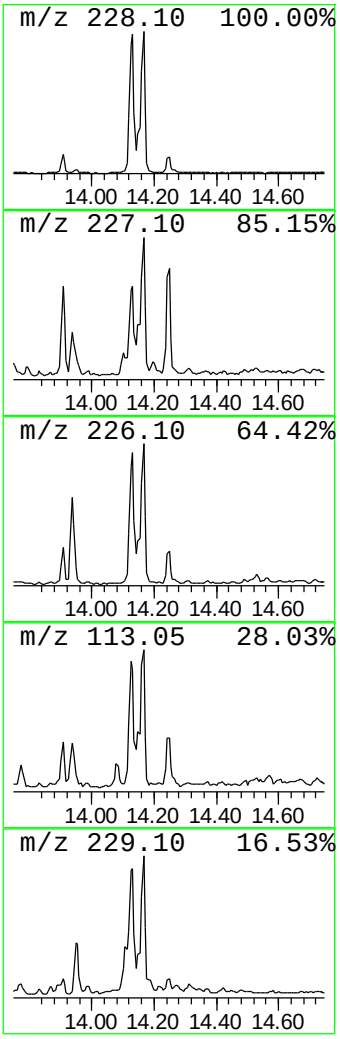
Peak Number 19 Cyclopenta(cd)pyrene, 3,4-d... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.25	2.72 ng	149140	Chrysene-d12	14.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	90
2	Benzo[c]phenanthrene	228	C18H12	000195-19-7	55
3	Diphenylvinylphosphine oxide	228	C14H13OP	002096-78-8	47
4	Triphenylene	228	C18H12	000217-59-4	46
5	Isothiazol-5-amine, 4-bromo-3-ch...	226	C4H4BrClN2S	1000272-59-9	38





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071118\
Data File : BF107305.D
Acq On : 11 Jul 2018 17:32
Operator : JU/SJ
Sample : J3880-19
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-20

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

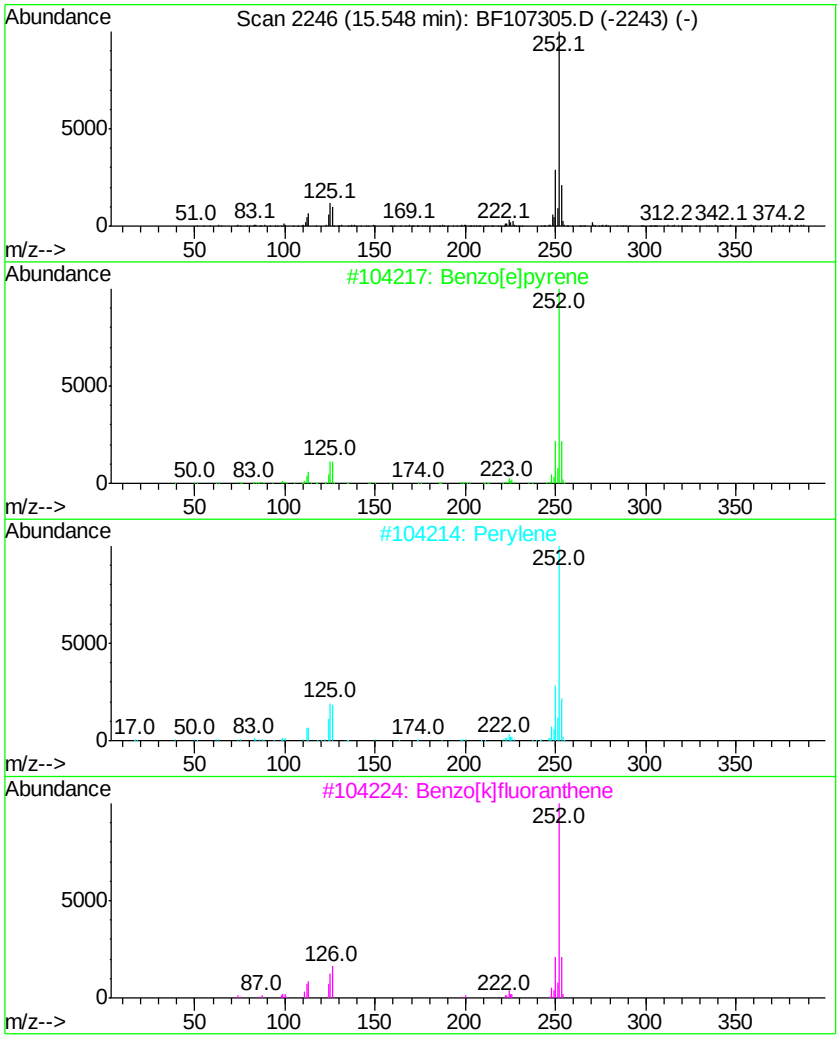
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

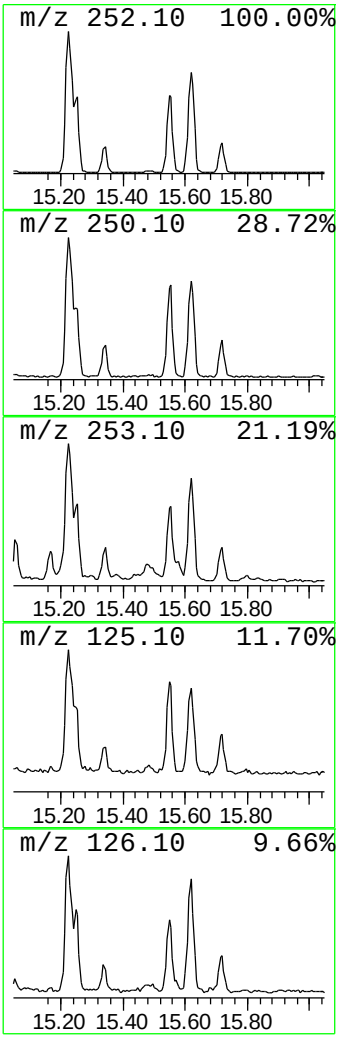
****

Peak Number 20 Benzo[e]pyrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.55	19.78 ng	231787	Perylene-d12	15.68

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	99
2	Perylene	252	C20H12	000198-55-0	96
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	95
4	Benzo[a]pyrene	252	C20H12	000050-32-8	94
5	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF071118\
Data File : BF107305.D
Acq On : 11 Jul 2018 17:32
Operator : JU/SJ
Sample : J3880-19
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-20

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.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...	5.17	10.4	ng	201766	1	6.93	386635	20.0
unknown6.71	6.71	68.9	ng	1332610	1	6.93	386635	20.0
Biphenylene	9.84	2.3	ng	50641	3	9.98	444016	20.0
Benzene, [1-(2,4-...	10.60	3.2	ng	70903	3	9.98	444016	20.0
Pentadecane, 2,6,...	10.87	2.7	ng	61997	4	11.48	452297	20.0
9H-Fluorene, 2-me...	11.08	2.3	ng	51466	4	11.48	452297	20.0
unknown11.31	11.31	2.4	ng	53267	4	11.48	452297	20.0
Anthracene, 2-met...	11.98	3.2	ng	71618	4	11.48	452297	20.0
Anthracene, 1-met...	12.01	4.1	ng	93732	4	11.48	452297	20.0
4H-Cyclopenta[def...	12.10	6.9	ng	156154	4	11.48	452297	20.0
Naphthalene, 2-ph...	12.27	2.8	ng	62726	4	11.48	452297	20.0
Phenanthrene, 2,5...	12.53	3.9	ng	87976	4	11.48	452297	20.0
Cyclopenta(def)ph...	12.63	3.7	ng	84134	4	11.48	452297	20.0
11H-Benzo[b]fluorene	13.15	2.4	ng	133361	5	14.14	1095210	20.0
Pyrene, 1-methyl-	13.26	2.6	ng	143816	5	14.14	1095210	20.0
11H-Benzo[a]fluor...	13.77	2.5	ng	135445	5	14.14	1095210	20.0
3-Eicosene, (E)-	13.94	5.5	ng	298874	5	14.14	1095210	20.0
Cyclopenta(cd)pyr...	14.25	2.7	ng	149140	5	14.14	1095210	20.0
Benzo[e]pyrene	15.55	19.8	ng	231787	6	15.68	234392	20.0