LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071018\
Data File : BF107267.D
Acq On : 10 Jul 2018 12:48
Operator : JU/SJ
Sample : J3879-13RE
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-7RE

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	5.172	478	482	491	rBV	72173	88417	10.95%	0.786%
2	5.584	548	552	570	rVB	646816	622123	77.03%	5.534%
3	6.590	719	723	732	rBV	610779	616245	76.30%	5.482%
4	6.719	741	745	748	rBV	702147	617177	76.41%	5.490%
5	6.760	748	752	760	rVB2	16188	22240	2.75%	0.198%
6	6.937	779	782	786	rBV	240432	198079	24.52%	1.762%
7	7.095	805	809	812	rBV	566503	498855	61.76%	4.437%
8	7.501	874	878	891	rBV	380261	391214	48.44%	3.480%
9	8.219	997	1000	1011	rBV	233448	243201	30.11%	2.163%
10	8.937	1117	1122	1126	rBB	20558	17143	2.12%	0.152%
11	9.037	1136	1139	1142	rBB	11077	8930	1.11%	0.079%
12	9.295	1178	1183	1186	rBV	725919	653610	80.92%	5.814%
13	9.354	1189	1193	1198	rVV	10338	11064	1.37%	0.098%
14	9.395	1198	1200	1205	rVB	13113	10045	1.24%	0.089%
15	9.560	1223	1228	1234	rBV	6128	9265	1.15%	0.082%
16	9.689	1246	1250	1256	rVB	167934	156512	19.38%	1.392%
17	9.842	1274	1276	1281	rBV	15903	14845	1.84%	0.132%
18	9.883	1281	1283	1286	rVB	10469	8376	1.04%	0.075%
19	9.983	1296	1300	1303	rBV	237304	211647	26.20%	1.883%
20	10.013	1303	1305	1310	rVB	35125	27490	3.40%	0.245%
21	10.189	1330	1335	1337	rBV2	17485	17334	2.15%	0.154%
22	10.383	1365	1368	1371	rBV	14060	12758	1.58%	0.113%
23	10.531	1390	1393	1398	rVB	24745	27195	3.37%	0.242%
24	10.601	1403	1405	1410	rVB4	7109	10166	1.26%	0.090%
25	10.778	1431	1435	1441	rBV	419968	387060	47.92%	3.443%
26	10.872	1446	1451	1455	rVB3	14567	20283	2.51%	0.180%
27	11.083	1481	1487	1489	rBV4	7952	10878	1.35%	0.097%
28	11.289	1518	1522	1524	rBV2	14944	14812	1.83%	0.132%
29	11.319	1524	1527	1529	rBV2	13813	16391	2.03%	0.146%
30	11.378	1534	1537	1539	rVB	13860	12394	1.53%	0.110%
31	11.478	1550	1554	1556	rBV	286465	243191	30.11%	2.163%
32	11.501	1556	1558	1562	rVB	316744	262761	32.53%	2.337%
33	11.554	1564	1567	1571	rVV	98346	78631	9.74%	0.699%
34	11.713	1587	1594	1596	rBV2	31612	33440	4.14%	0.297%

LSC Area Percent Report

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Sample : J3879-13RE
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-7RE

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

35	11.736	1596	1598	1601	rVB	14863	13723	1.70%	0.122%
36	11.813	1607	1611	1616	rVB3	13120	14842	1.84%	0.132%
37	11.977	1636	1639	1642	rBV	47274	45164	5.59%	0.402%
38	12.007	1642	1644	1648	rVB2	58551	57320	7.10%	0.510%
39	12.060	1648	1653	1655	rBV	25651	25529	3.16%	0.227%
40	12.095	1655	1659	1661	rBV2	74122	79808	9.88%	0.710%
41	12.113	1661	1662	1665	rVB	32085	24078	2.98%	0.214%
42	12.142	1665	1667	1670	rBV2	8672	8765	1.09%	0.078%
43	12.272	1686	1689	1692	rBV	44868	37667	4.66%	0.335%
44	12.313	1694	1696	1699	rVB2	32040	26073	3.23%	0.232%
45	12.425	1710	1715	1717	rBV3	21160	22485	2.78%	0.200%
46	12.454	1718	1720	1723	rVV	17884	13122	1.62%	0.117%
47	12.483	1723	1725	1727	rVV	11408	9328	1.15%	0.083%
48	12.530	1730	1733	1736	rBV2	49284	49691	6.15%	0.442%
49	12.572	1737	1740	1742	rVV2	20051	21460	2.66%	0.191%
50	12.630	1745	1750	1753	rBV2	32333	40714	5.04%	0.362%
51	12.701	1758	1762	1765	rBV	595716	507476	62.83%	4.514%
52	12.736	1765	1768	1770	rVB3	12484	12411	1.54%	0.110%
53	12.760	1770	1772	1775	rBV2	17124	17682	2.19%	0.157%
54	12.795	1776	1778	1781	rBV	13466	10133	1.25%	0.090%
55	12.854	1783	1788	1789	rVV4	22520	26880	3.33%	0.239%
56	12.872	1789	1791	1794	rVB2	15268	12326	1.53%	0.110%
57	12.913	1794	1798	1799	rBV2	116339	117229	14.51%	1.043%
58	12.936	1799	1802	1806	rVV	492577	479262	59.34%	4.263%
59	12.977	1806	1809	1812	rVV	32530	31752	3.93%	0.282%
60	13.060	1819	1823	1827	rBV	816965	807680	100.00%	7.184%
61	13.095	1827	1829	1833	rVB	34253	34121	4.22%	0.304%
62	13.148	1833	1838	1842	rBV2	38958	76584	9.48%	0.681%
63	13.236	1849	1853	1854	rBV2	42873	49929	6.18%	0.444%
64	13.260	1854	1857	1861	rVB2	92294	90566	11.21%	0.806%
65	13.324	1865	1868	1870	rBV	56383	42178	5.22%	0.375%
66	13.366	1870	1875	1877	rBV2	53769	60896	7.54%	0.542%
67	13.460	1888	1891	1893	rBV	49857	41804	5.18%	0.372%
68	13.489	1893	1896	1898	rBV	44888	42807	5.30%	0.381%
69	13.607	1913	1916	1919	rBV	35555	33682	4.17%	0.300%
70	13.771	1942	1944	1947	rBV	56276	50285	6.23%	0.447%
71	13.883	1960	1963	1965	rBV	59015	47522	5.88%	0.423%

LSC Area Percent Report

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Sample : J3879-13RE
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-7RE

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

72	13.907	1965	1967	1970	rVV	56412	44873	5.56%	0.399%
73	13.936	1970	1972	1978	rVV3	150581	186799	23.13%	1.662%
74	13.983	1978	1980	1986	rVB	62899	66613	8.25%	0.593%
75	14.136	2001	2006	2009	rBV2	418634	638044	79.00%	5.676%
76	14.166	2009	2011	2014	rVB	287627	217710	26.95%	1.937%
77	14.248	2022	2025	2030	rBV2	63766	89989	11.14%	0.800%
78	14.566	2076	2079	2081	rBV2	56376	58656	7.26%	0.522%
79	15.224	2186	2191	2205	rVB	252117	555043	68.72%	4.937%
80	15.548	2242	2246	2250	rVB	128530	150475	18.63%	1.339%
81	15.613	2253	2257	2264	rBV	170451	257234	31.85%	2.288%
82	15.683	2265	2269	2272	rBV	158847	190129	23.54%	1.691%
83	17.759	2618	2622	2630	rVB	61081	129739	16.06%	1.154%

Sum of corrected areas: 11242050

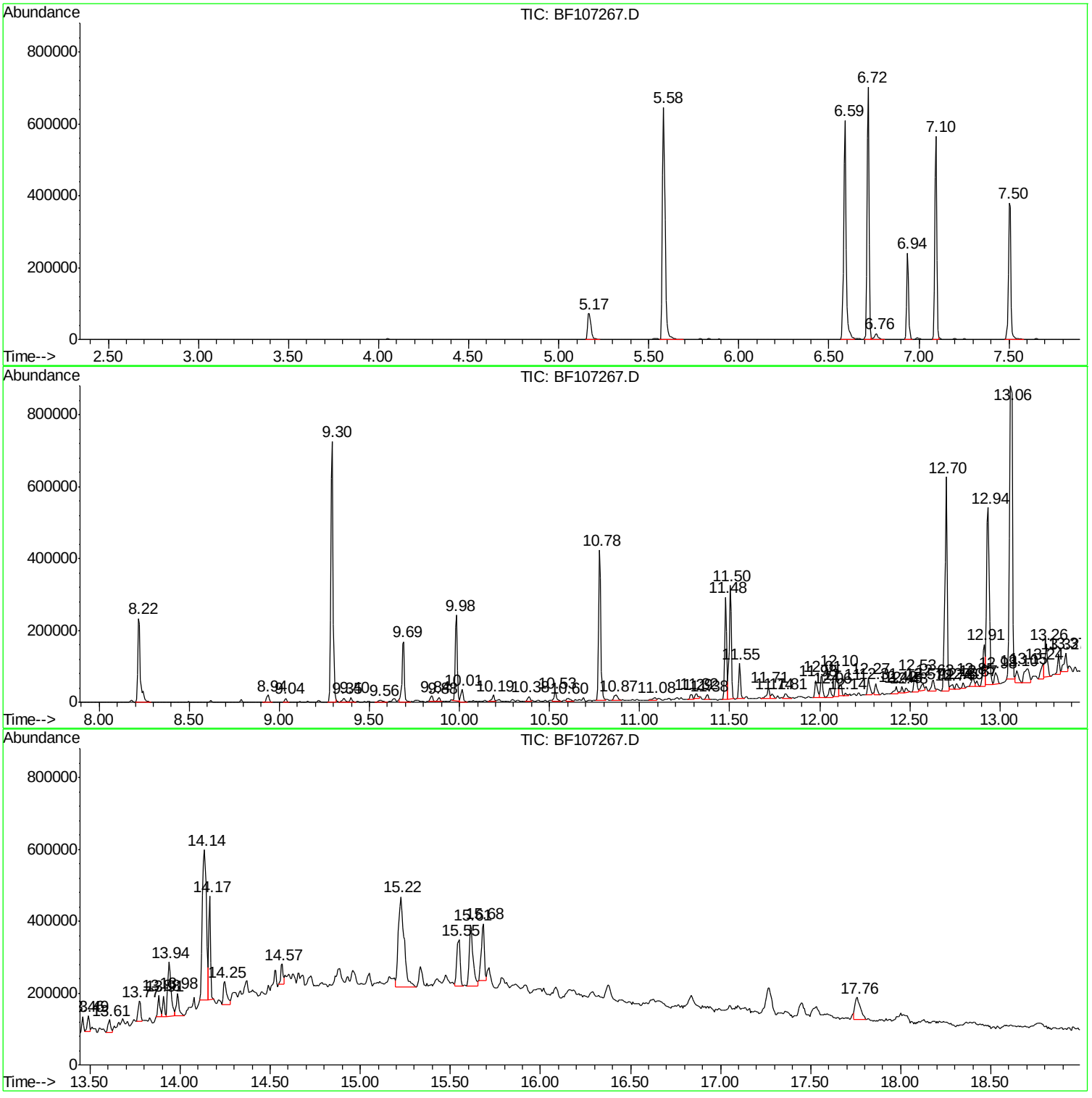
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071018\
Data File : BF107267.D
Acq On : 10 Jul 2018 12:48
Operator : JU/SJ
Sample : J3879-13RE
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SURCHARGE-SP-7RE

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071018\
Data File : BF107267.D
Acq On : 10 Jul 2018 12:48
Operator : JU/SJ
Sample : J3879-13RE
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-7RE

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

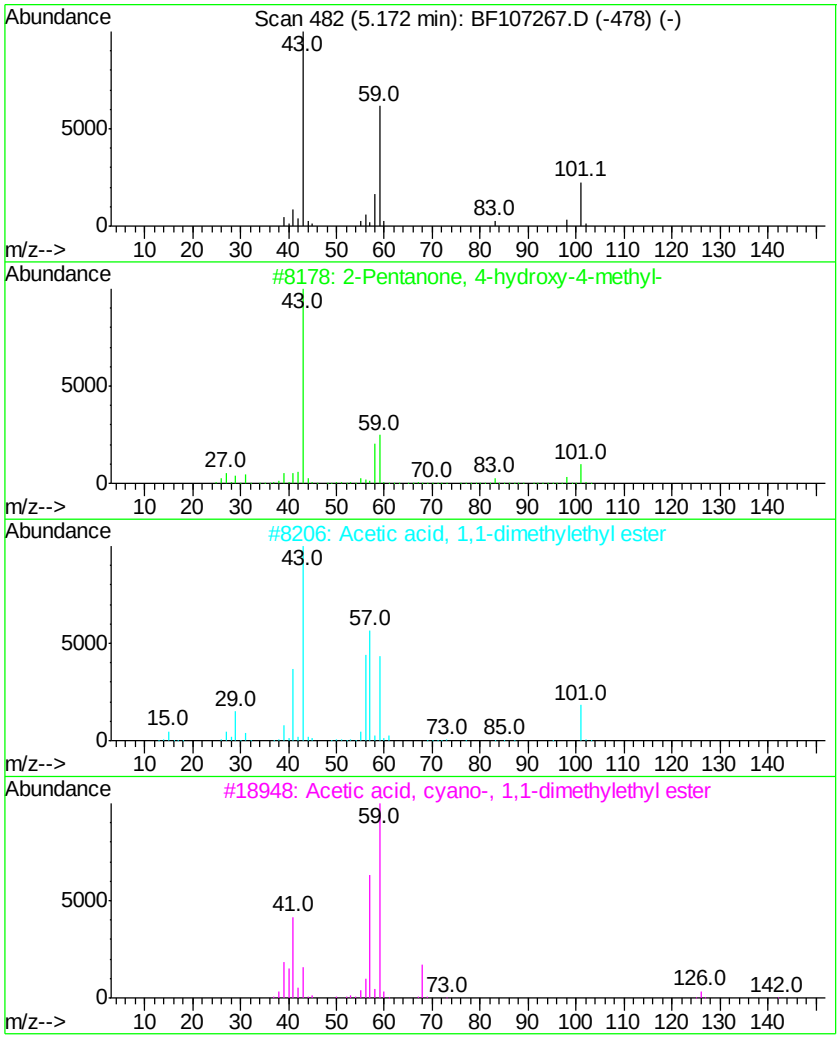
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

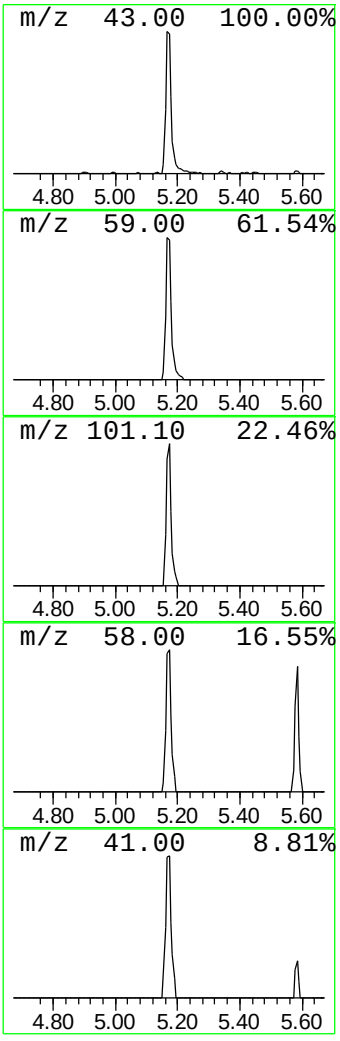
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.17	8.93 ng	88417	1,4-Dichlorobenzene-d4	6.94

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	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071018\
Data File : BF107267.D
Acq On : 10 Jul 2018 12:48
Operator : JU/SJ
Sample : J3879-13RE
Misc :
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Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-7RE

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

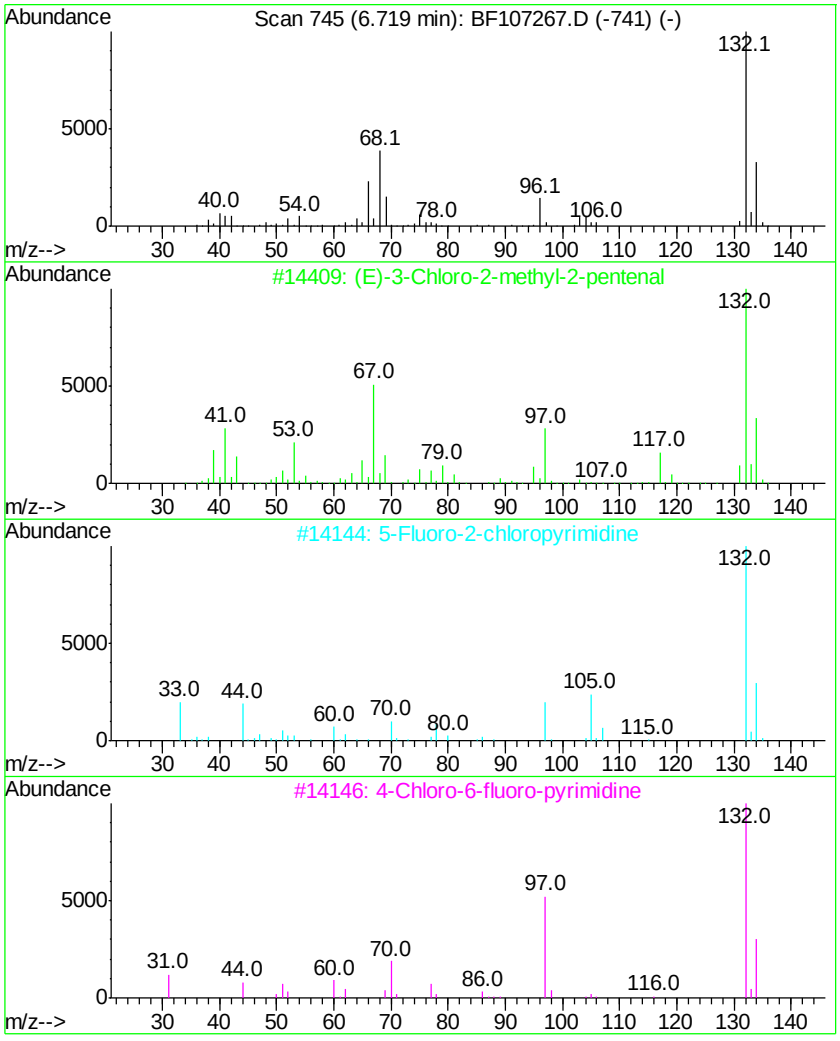
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

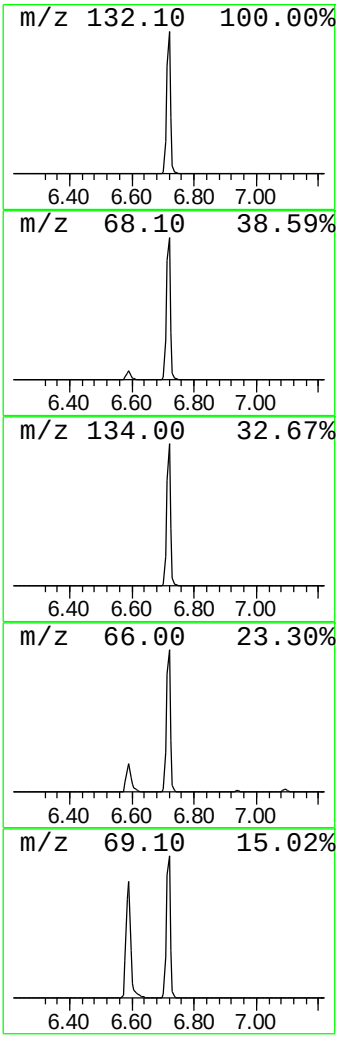
****

Peak Number 2 1H-Benzimidazole, 2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.72	62.32 ng	617177	1,4-Dichlorobenzene-d4	6.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	12
2	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	9
3	4-Chloro-6-fluoro-pyrimidine	132	C4H2ClFN2	051422-01-6	9
4	1H-Benzimidazole, 2-methyl-	132	C8H8N2	000615-15-6	9
5	1-Methylpyrrolo[1,2-a]pyrazine	132	C8H8N2	064608-59-9	9





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071018\
Data File : BF107267.D
Acq On : 10 Jul 2018 12:48
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Misc :
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Instrument : BNA_F
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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
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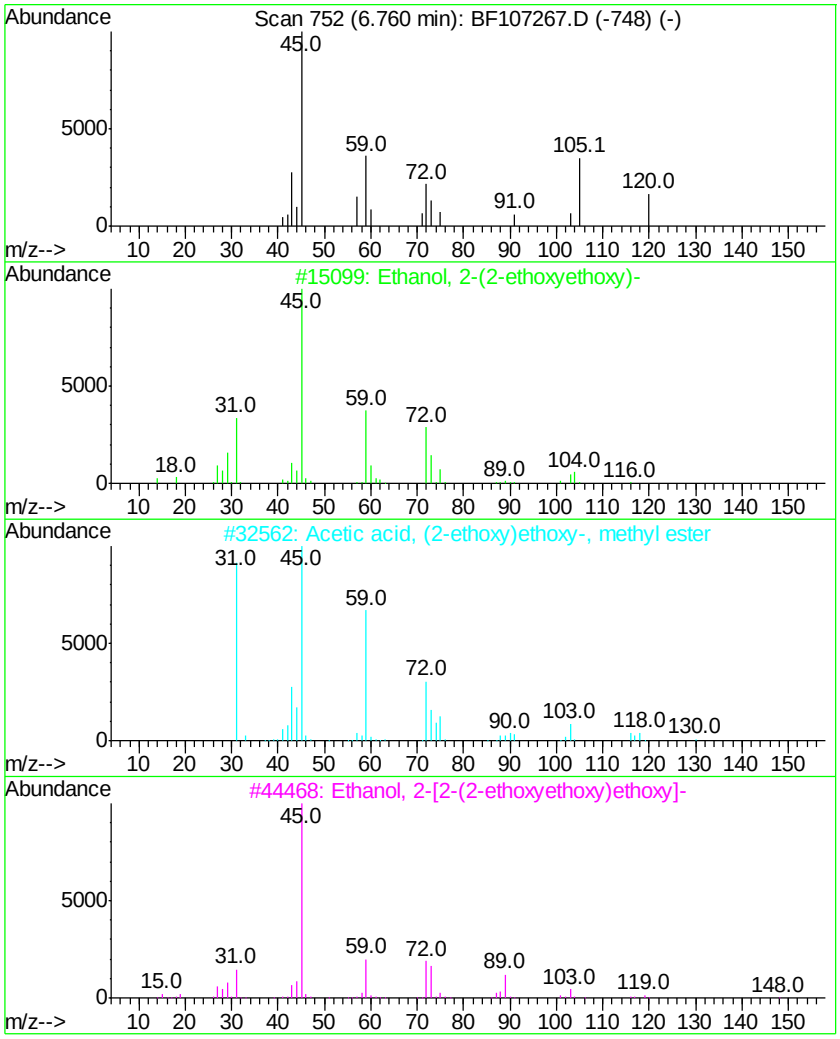
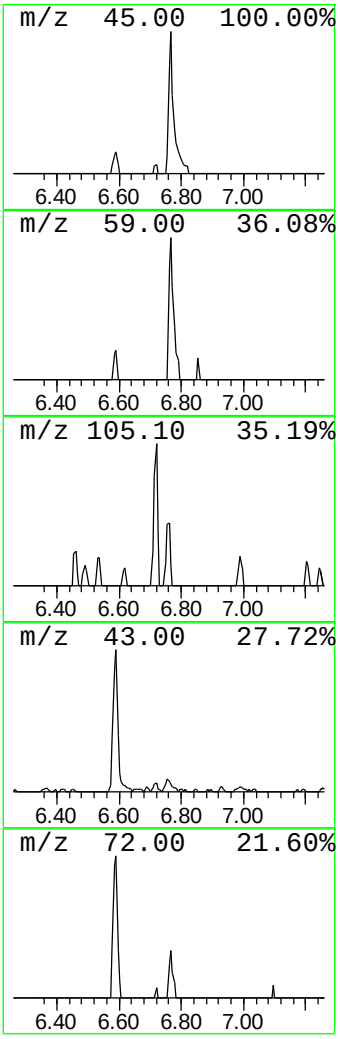
****

Peak Number 3 Ethanol, 2-(2-ethoxyethoxy)- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.76	2.25 ng	22240	1,4-Dichlorobenzene-d4	6.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanol, 2-(2-ethoxyethoxy)-	134	C6H14O3	000111-90-0	53
2	Acetic acid, (2-ethoxy)ethoxy-, ...	162	C7H14O4	016326-34-4	37
3	Ethanol, 2-[2-(2-ethoxyethoxy)et...	178	C8H18O4	000112-50-5	36
4	2-Hydroxyethyl vinyl sulfide	104	C4H8OS	003090-56-0	28
5	Ethanol, 2-(2-methoxyethoxy)-	120	C5H12O3	000111-77-3	28





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Instrument : BNA_F
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
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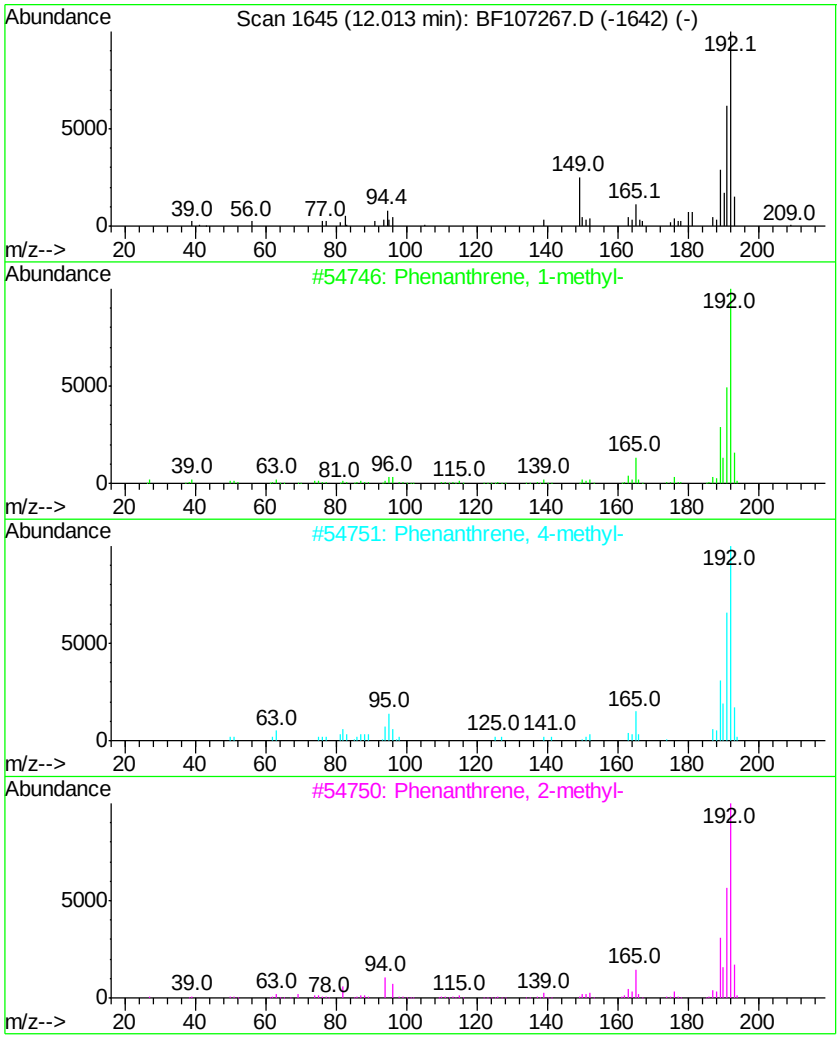
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

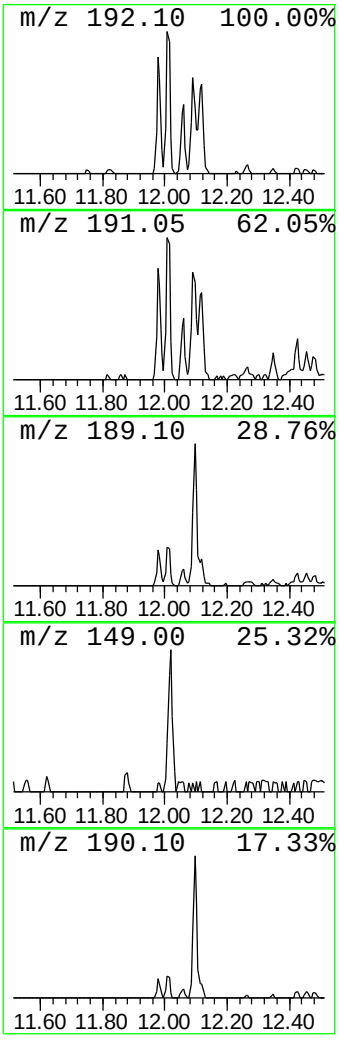
****

Peak Number 6 Phenanthrene, 1-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.01	4.71 ng	57320	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
2	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	94
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	92





Library Search Compound Report

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Data File : BF107267.D
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Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-7RE

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

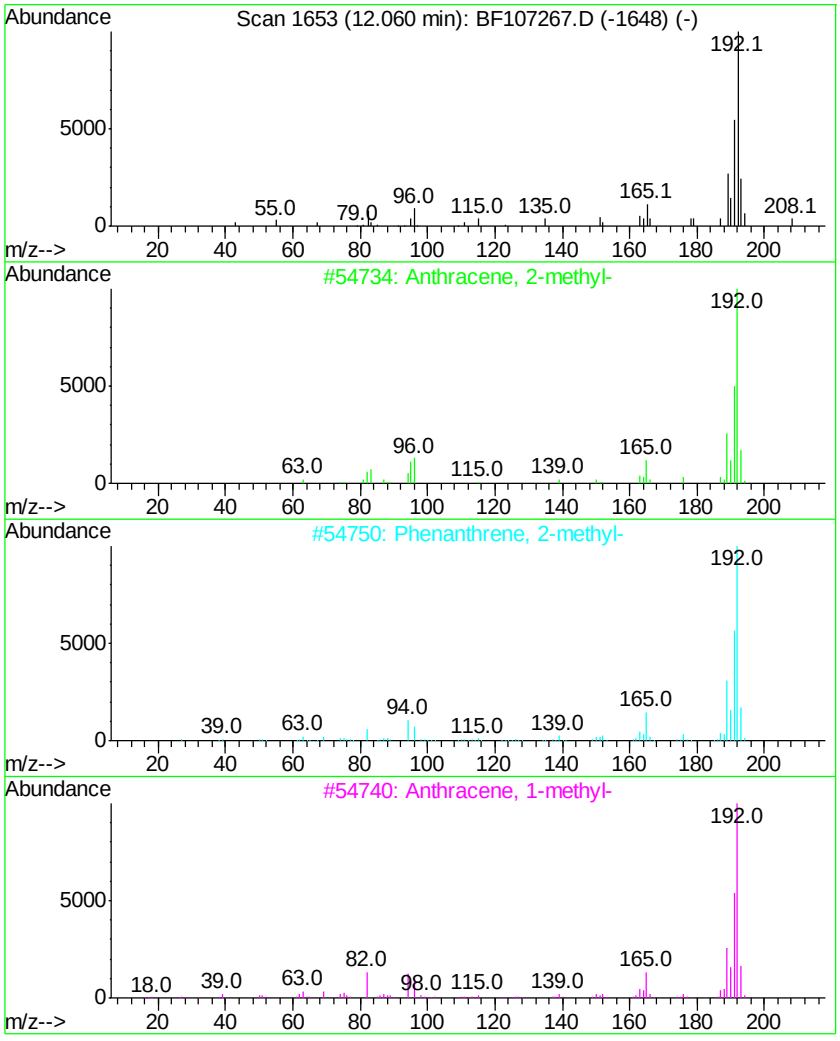
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

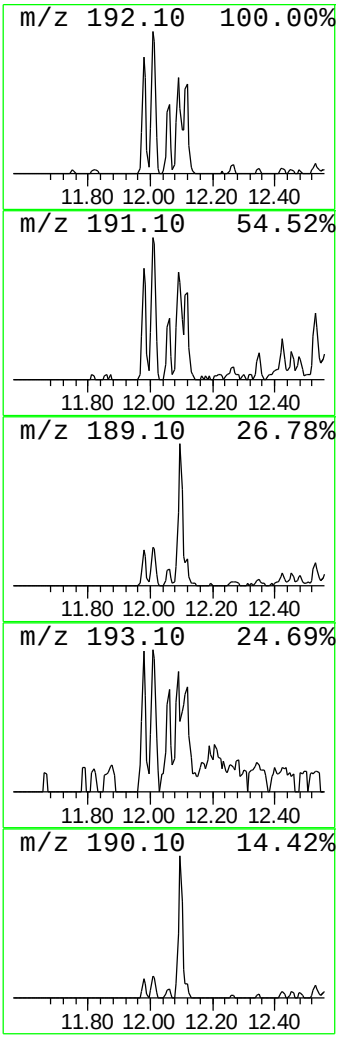
****

Peak Number 7 Anthracene, 2-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.06	2.10 ng	25529	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	83
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	81
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	81
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	74
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	74





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071018\
Data File : BF107267.D
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Sample : J3879-13RE
Misc :
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Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-7RE

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

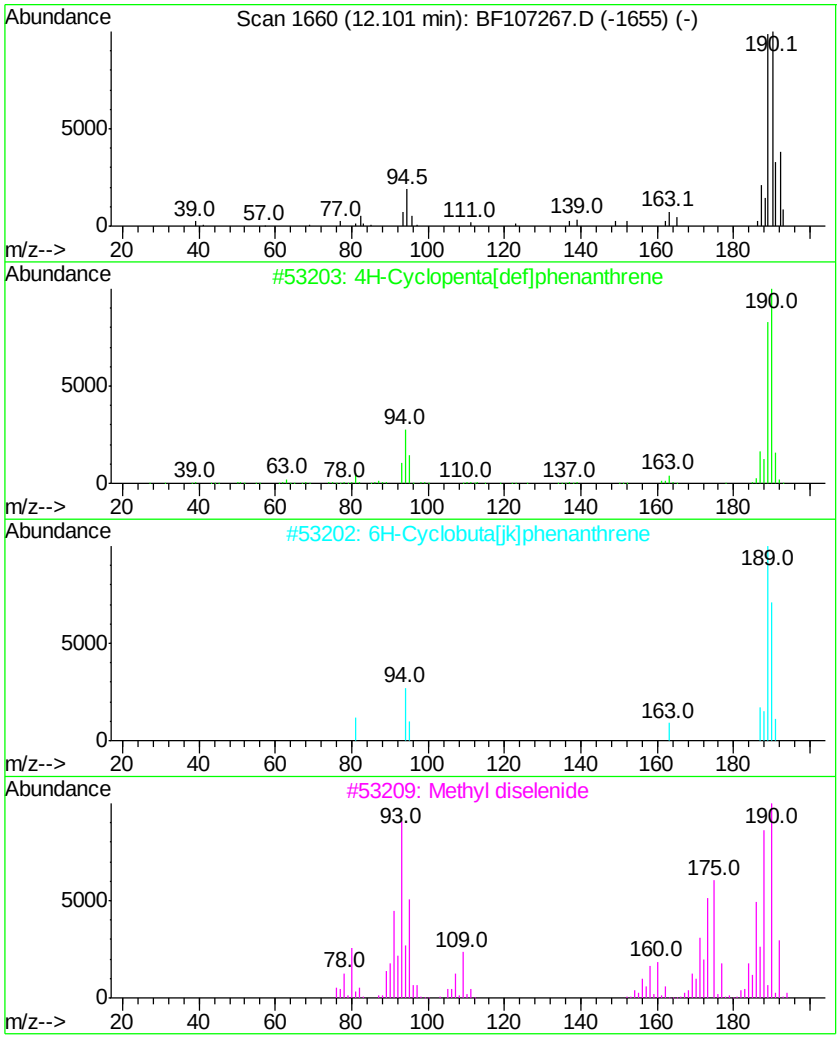
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

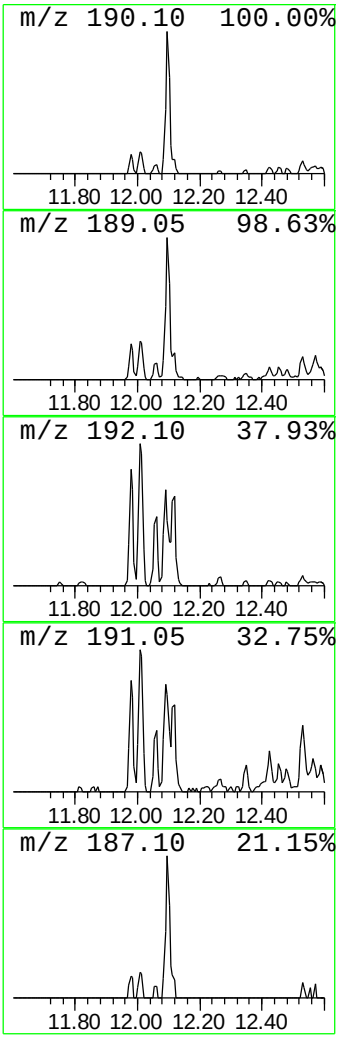
****

Peak Number 8 4H-Cyclopenta[def]phenanthrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.10	6.56 ng	79808	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	70
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	59
3	Methyl diselenide	190	C2H6Se2	007101-31-7	45
4	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	28
5	2,6-Dichlorobenzaldoxime	189	C7H5Cl2NO	025185-95-9	25





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Data File : BF107267.D
Acq On : 10 Jul 2018 12:48
Operator : JU/SJ
Sample : J3879-13RE
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-7RE

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

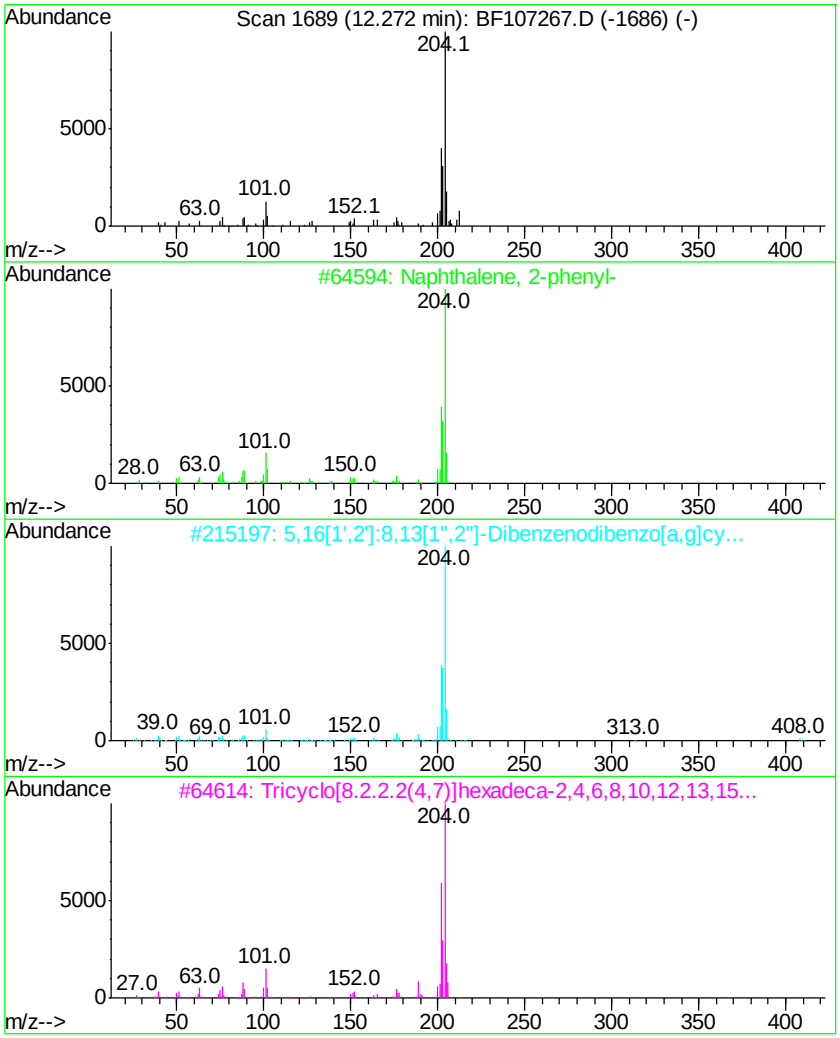
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

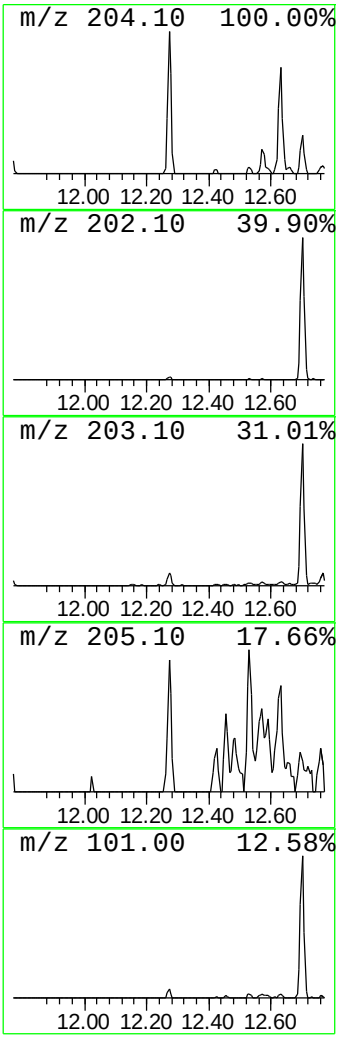
****

Peak Number 9 Naphthalene, 2-phenyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.27	3.10 ng	37667	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	93
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	78
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	70
4	5H-Dibenzo[a,d]cycloheptene, 5-m...	204	C16H12	002975-79-3	60
5	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	58





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Operator : JU/SJ
Sample : J3879-13RE
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-7RE

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

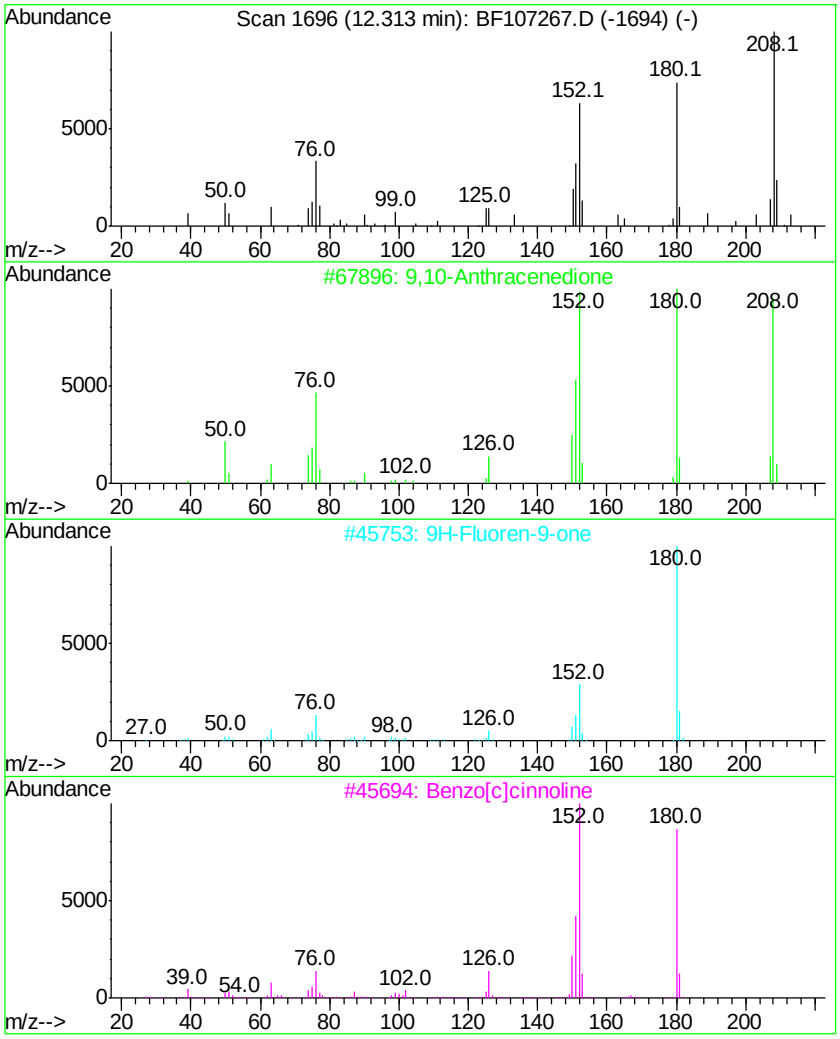
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

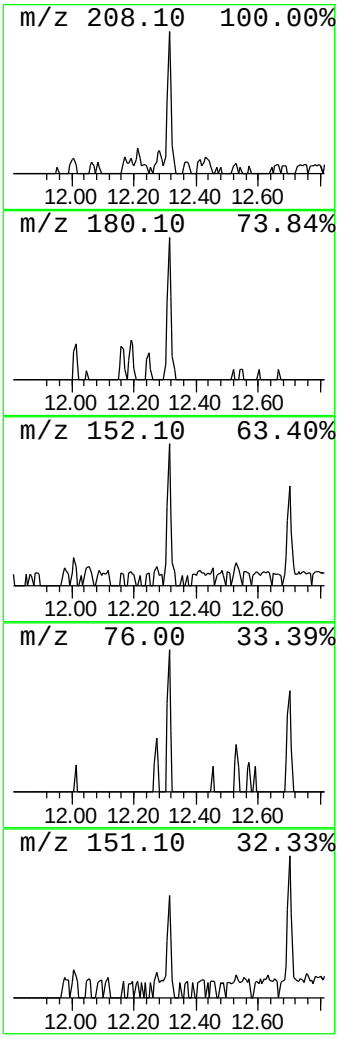
****

Peak Number 10 9,10-Anthracenedione Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.31	2.14 ng	26073	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	94
2	9H-Fluoren-9-one	180	C13H8O	000486-25-9	64
3	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	53
4	1H-Phenalen-1-one	180	C13H8O	000548-39-0	49
5	1,4-Anthracenedione	208	C14H8O2	000635-12-1	47





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Operator : JU/SJ
Sample : J3879-13RE
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-7RE

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

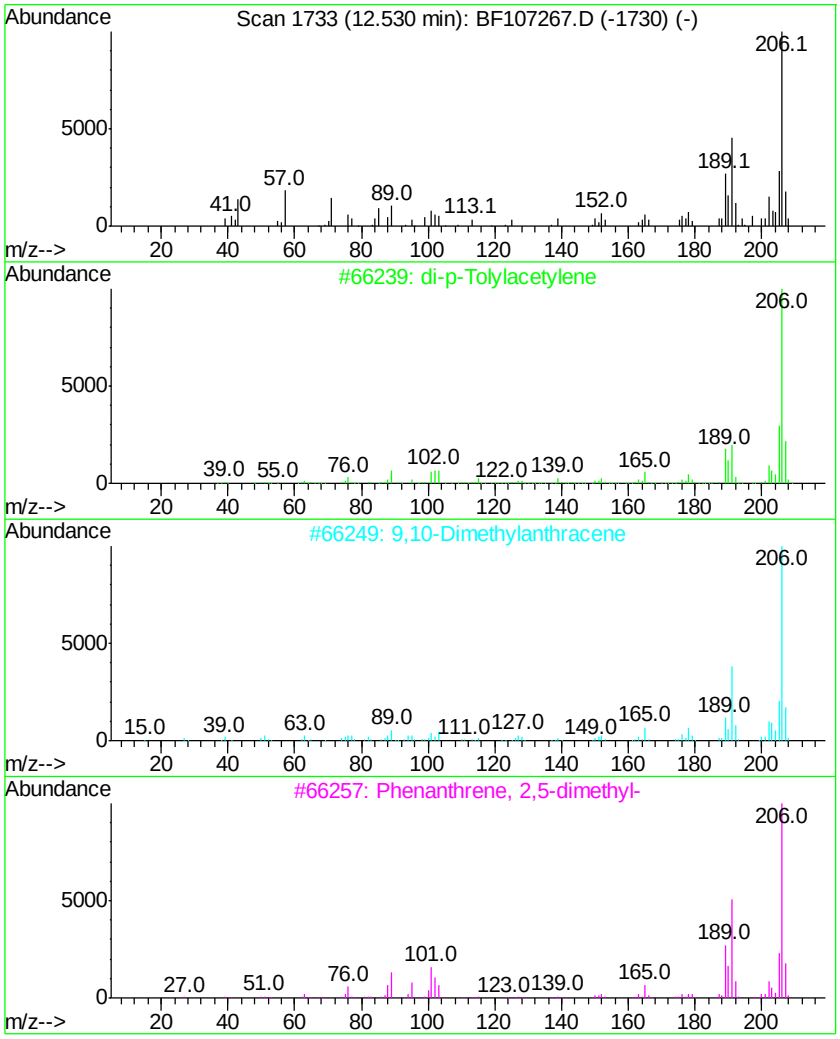
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

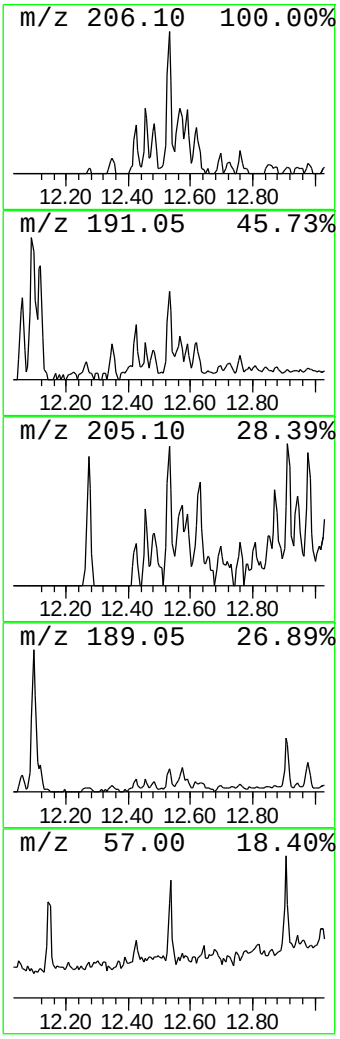
****

Peak Number 11 di-p-Tolylacetylene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.53	4.09 ng	49691	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	di-p-Tolylacetylene	206	C16H14	002789-88-0	92
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
3	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	91
4	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	89
5	Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	87





Library Search Compound Report

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Operator : JU/SJ
Sample : J3879-13RE
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-7RE

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

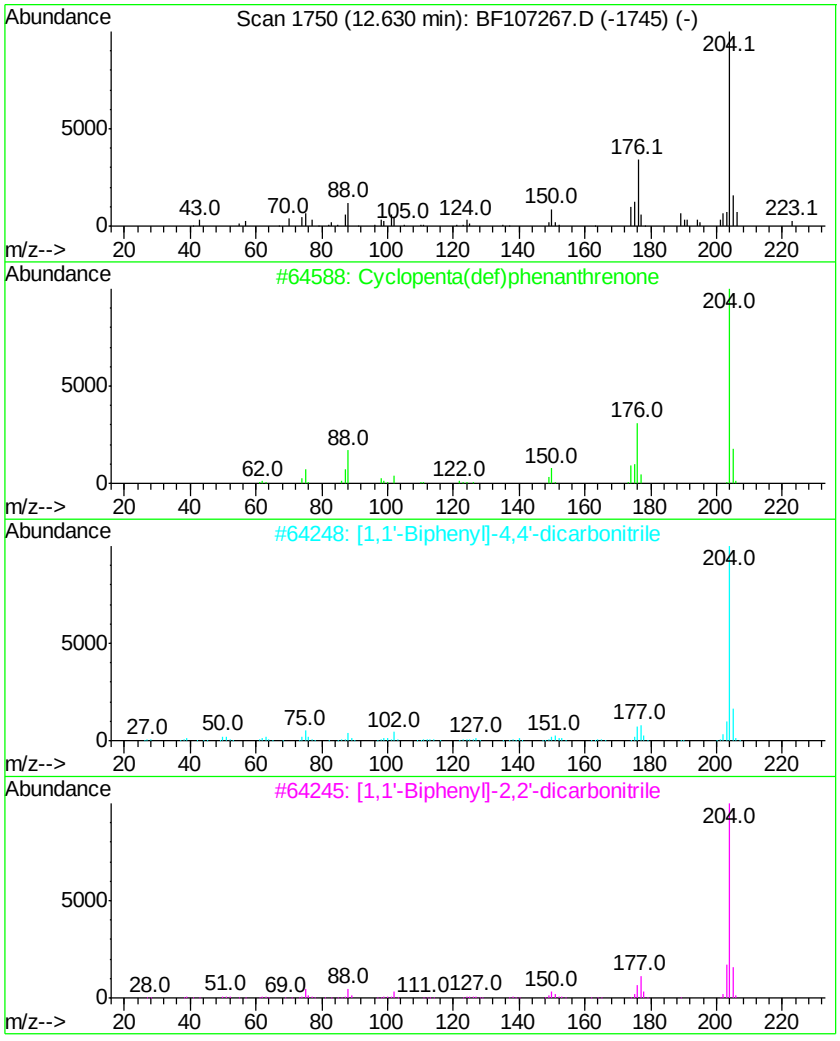
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

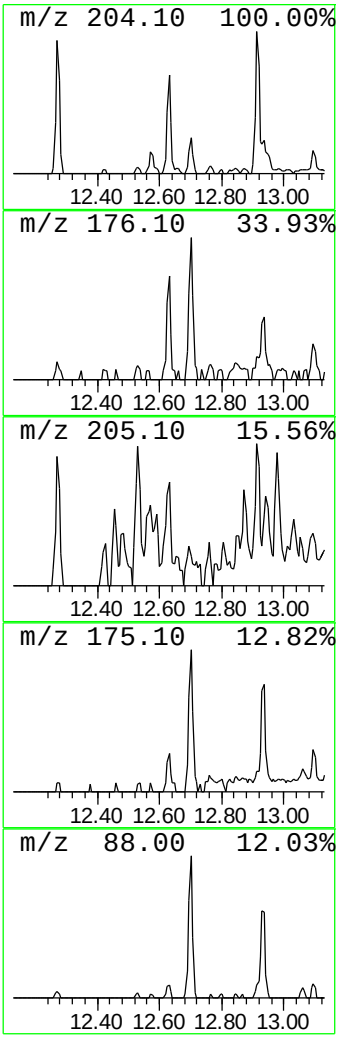
****

Peak Number 12 Cyclopenta(def)phenanthrenone Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.63	3.35 ng	40714	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	90
2	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	59
3	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	53
4	3'-Carboxybenzo[1',2',-b]-1,4-di...	204	C11H12N2O2	138023-41-3	53
5	6-Phenyl-2-thiouracil	204	C10H8N2OS	005590-94-3	53





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Operator : JU/SJ
Sample : J3879-13RE
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-7RE

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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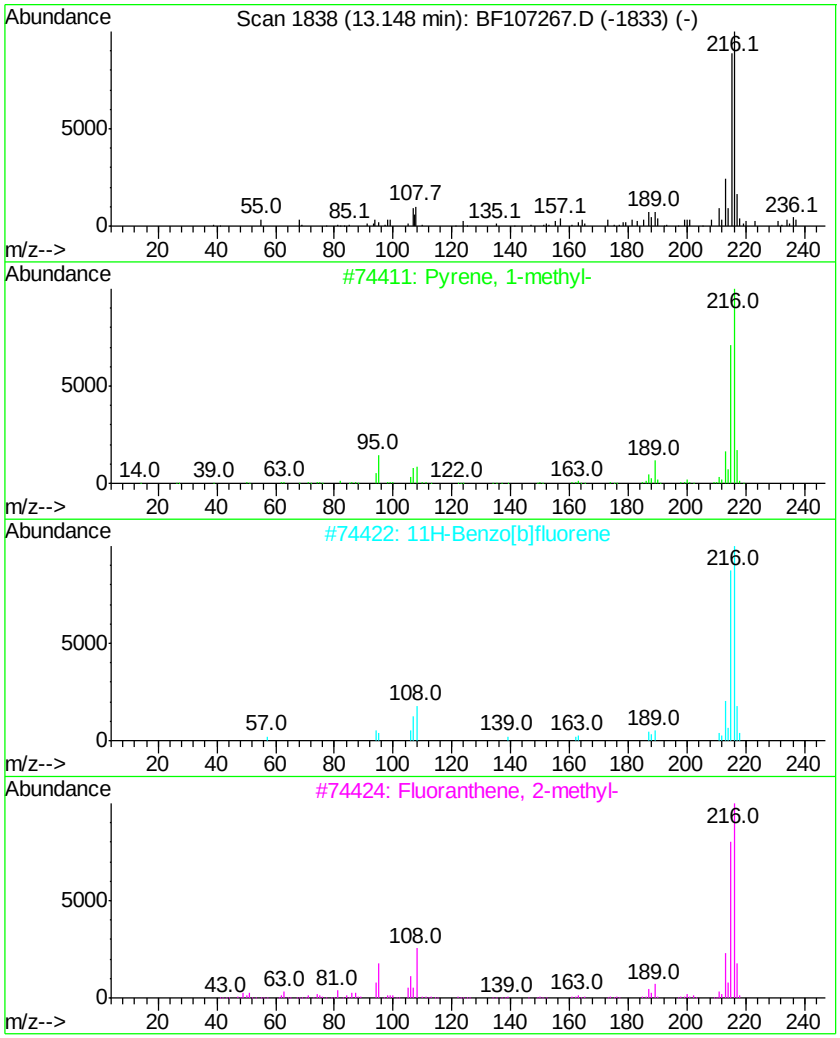
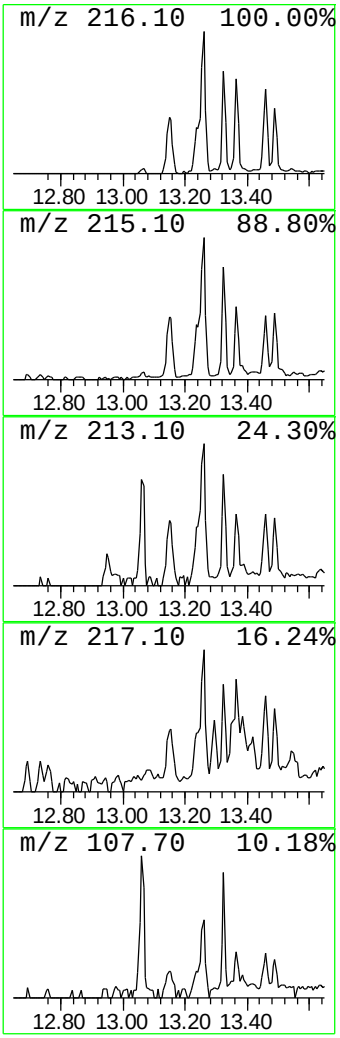
Peak Number 13 Pyrene, 1-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	2.40 ng	76584	Chrysene-d12	14.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	91
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	90
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	81
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	64





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Acq On : 10 Jul 2018 12:48
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Sample : J3879-13RE
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-7RE

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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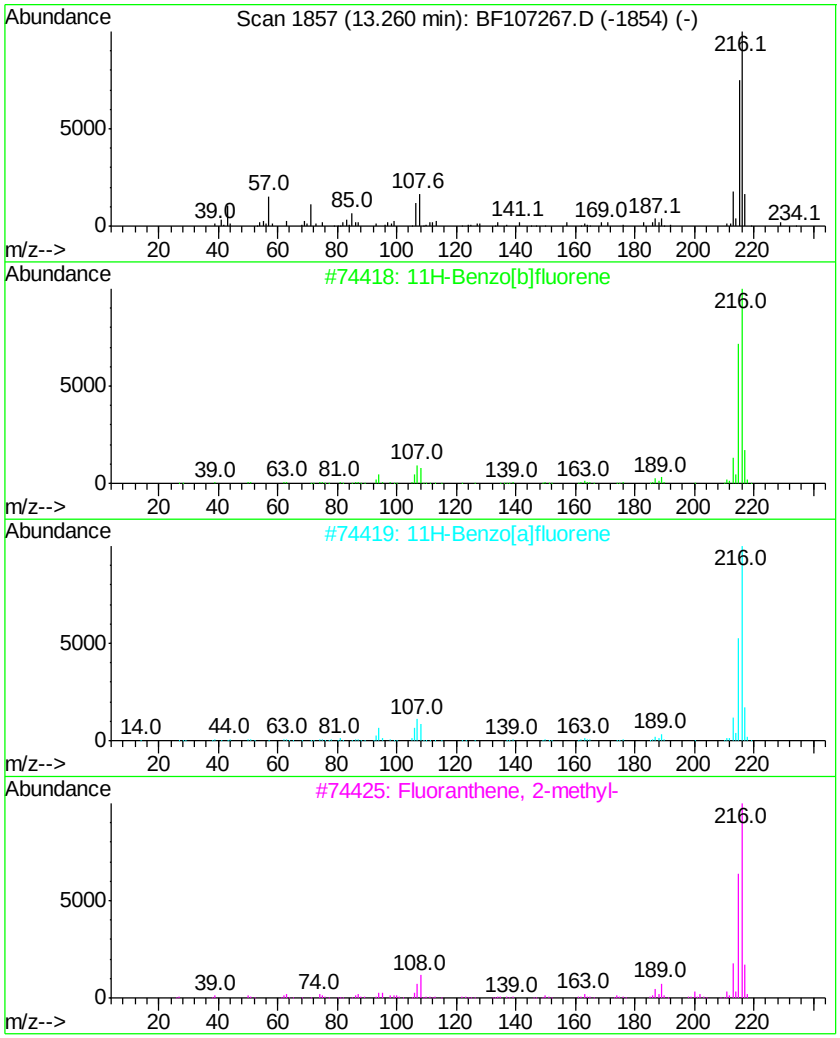
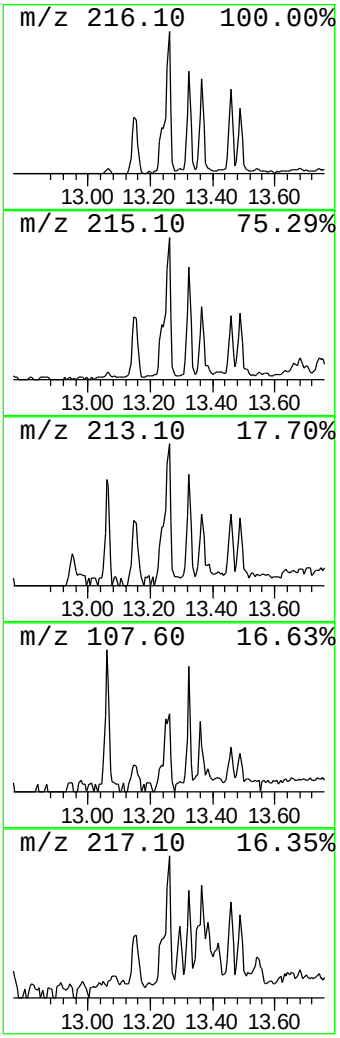
Peak Number 14 Benzoic acid, 3-(3,5-dimeth... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.26	2.84 ng	90566	Chrysene-d12	14.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	80
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	80
5	Benzoic acid, 3-(3,5-dimethyl-1-...	216	C12H12N2O2	312531-88-7	64





Library Search Compound Report

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Acq On : 10 Jul 2018 12:48
Operator : JU/SJ
Sample : J3879-13RE
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-7RE

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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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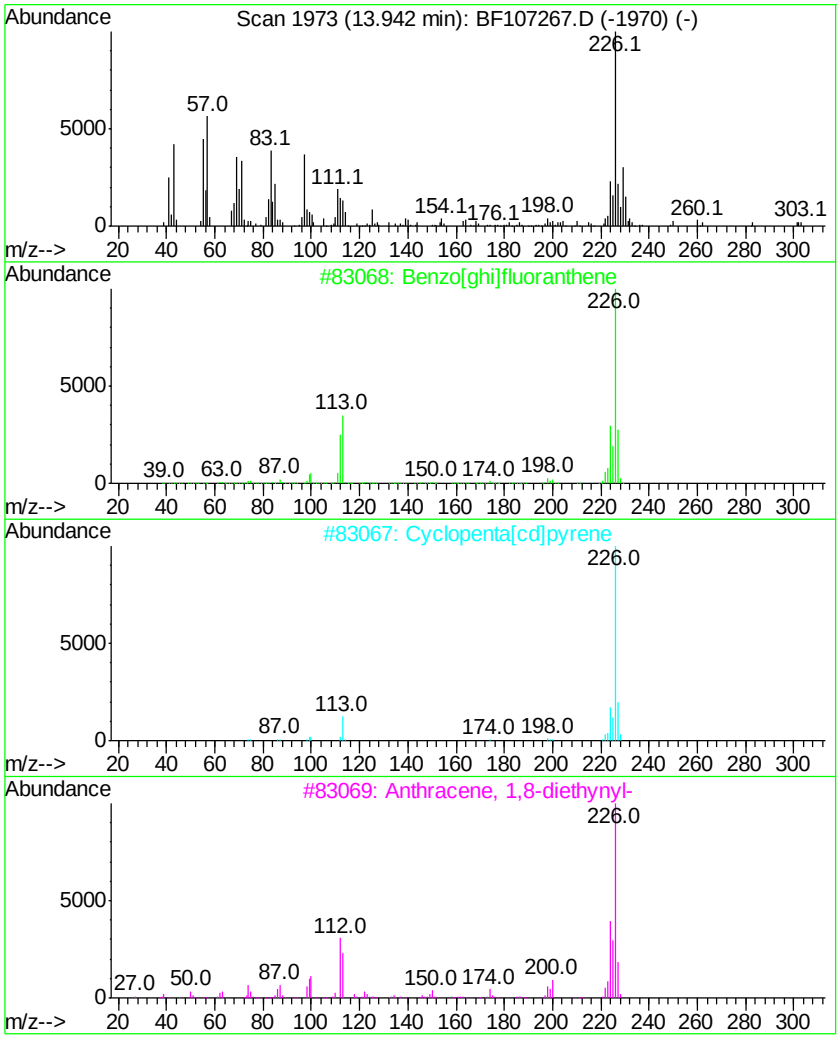
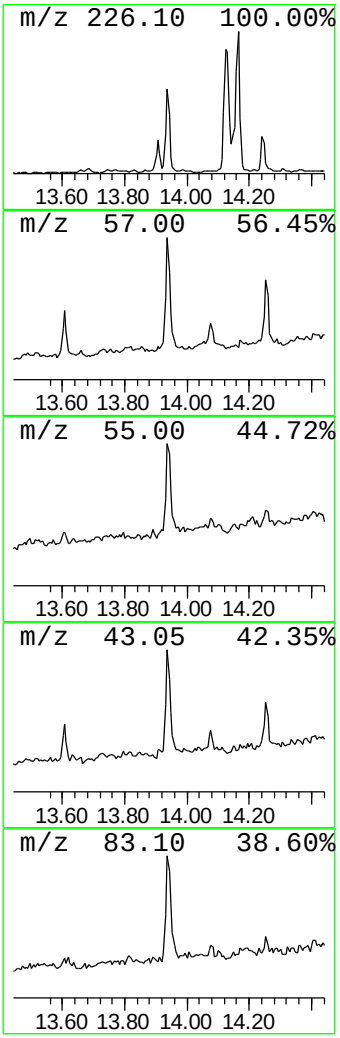
Peak Number 15 Benzo[ghi]fluoranthene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.94	5.86 ng	186799	Chrysene-d12	14.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[ghi]fluoranthene	226	C18H10	000203-12-3	64
2	Cyclopenta[cd]pyrene	226	C18H10	027208-37-3	53
3	Anthracene, 1,8-diethynyl-	226	C18H10	078053-58-4	53
4	.beta.-Carboline, 7-methoxy-1,2-...	226	C14H14N2O	006519-18-2	46
5	Benzene, [4-(3-ethynylphenyl)-1,...	226	C18H10	1000115-87-3	46





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Sample : J3879-13RE
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-7RE

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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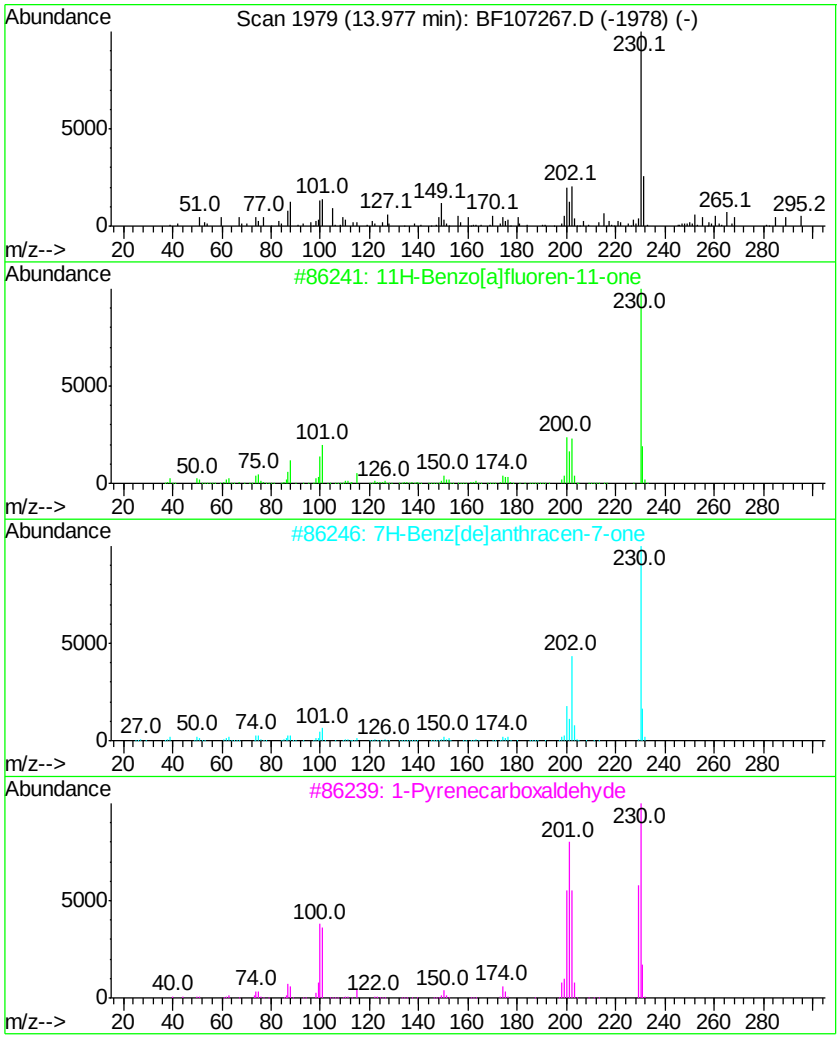
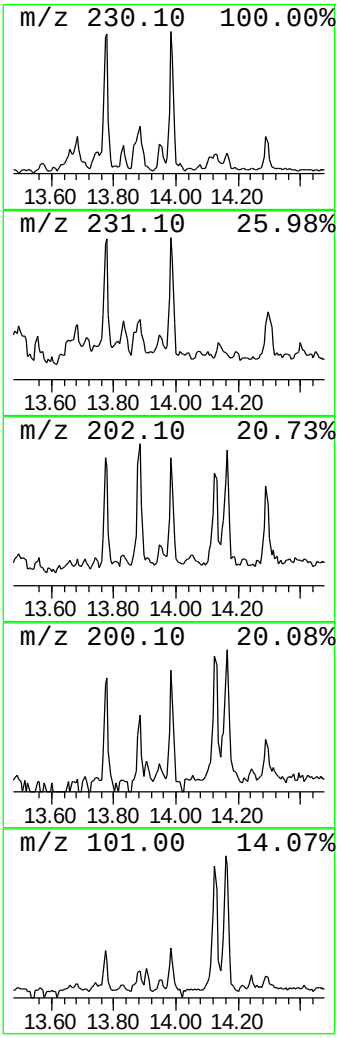
Peak Number 16 11H-Benzo[a]fluoren-11-one Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.98	2.09 ng	66613	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	90
3	1-Pyrenecarboxaldehyde	230	C17H10O	003029-19-4	72
4	p-Terphenyl	230	C18H14	000092-94-4	59
5	4-Pyrenecarbaldehyde	230	C17H10O	022245-51-8	56





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Sample : J3879-13RE
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-7RE

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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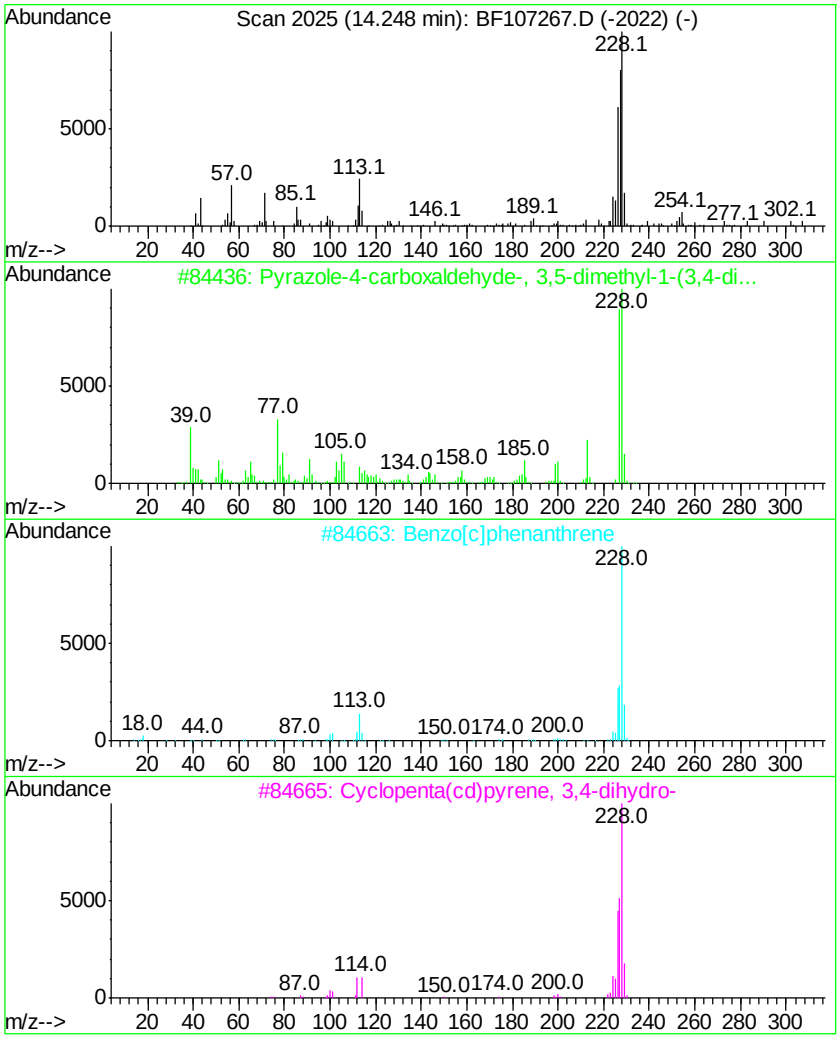
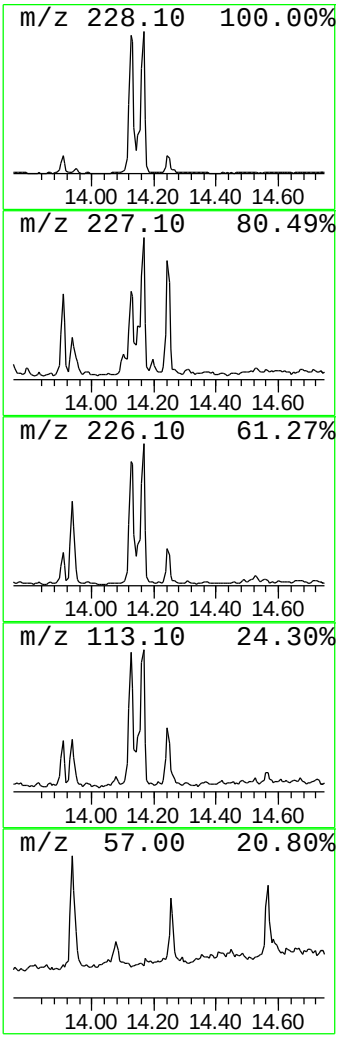
Peak Number 17 Pyrazole-4-carboxaldehyde-,... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.25	2.82 ng	89989	Chrysene-d12	14.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrazole-4-carboxaldehyde-, 3,5-...	228	C14H16N2O	1000272-54-8	52
2	Benzo[c]phenanthrene	228	C18H12	000195-19-7	47
3	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	43
4	Isothiazol-5-amine, 4-bromo-3-ch...	226	C4H4BrClN2S	1000272-59-9	38
5	Purine-6(1H)-thione, 3,7-dimethy...	228	C7H8N4Se	023663-58-3	37





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Sample : J3879-13RE
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-7RE

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

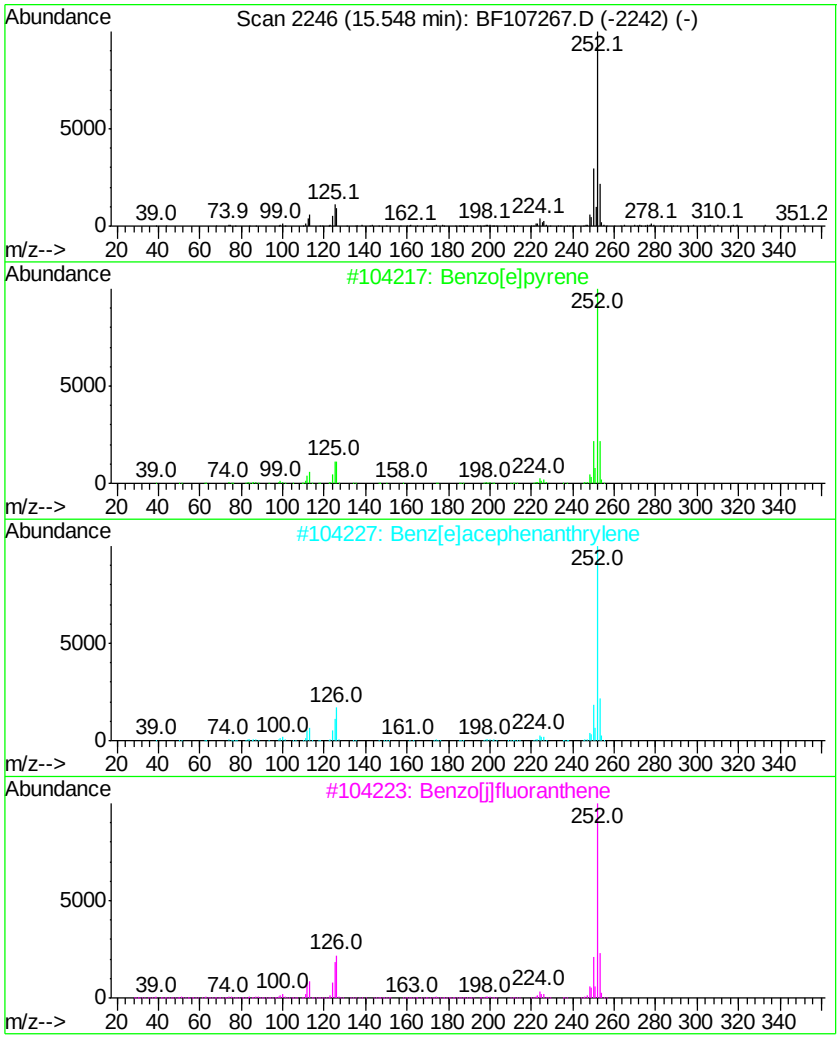
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

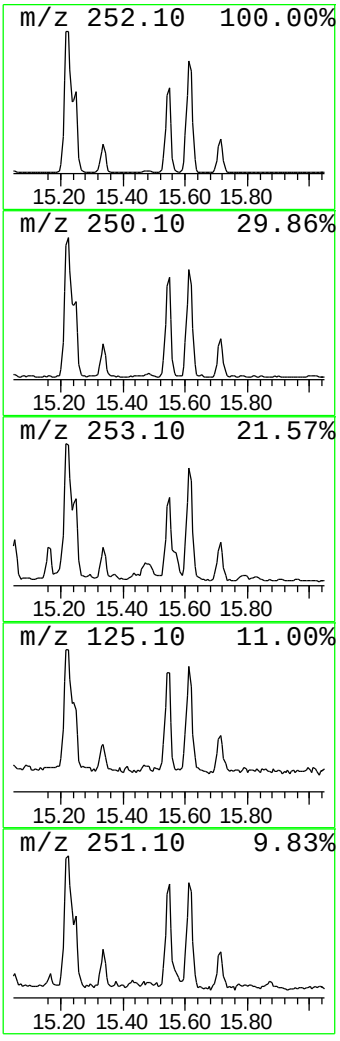
****

Peak Number 18 Benzo[e]pyrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.55	15.83 ng	150475	Perylene-d12	15.68

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	95
3	Benzo[j]fluoranthene	252	C20H12	000205-82-3	95
4	Benzo[a]pyrene	252	C20H12	000050-32-8	95
5	Perylene	252	C20H12	000198-55-0	94





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF071018\
Data File : BF107267.D
Acq On : 10 Jul 2018 12:48
Operator : JU/SJ
Sample : J3879-13RE
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-7RE

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	8.9	ng	88417	1	6.94	198079	20.0
1H-Benzimidazole,...	6.72	62.3	ng	617177	1	6.94	198079	20.0
Ethanol, 2-(2-eth...	6.76	2.3	ng	22240	1	6.94	198079	20.0
Phenanthrene, 1-m...	12.01	4.7	ng	57320	4	11.48	243191	20.0
Anthracene, 2-met...	12.06	2.1	ng	25529	4	11.48	243191	20.0
4H-Cyclopenta[def...	12.10	6.6	ng	79808	4	11.48	243191	20.0
Naphthalene, 2-ph...	12.27	3.1	ng	37667	4	11.48	243191	20.0
9,10-Anthracenedione	12.31	2.1	ng	26073	4	11.48	243191	20.0
di-p-Tolylacetylene	12.53	4.1	ng	49691	4	11.48	243191	20.0
Cyclopenta(def)ph...	12.63	3.4	ng	40714	4	11.48	243191	20.0
Pyrene, 1-methyl-	13.15	2.4	ng	76584	5	14.14	638044	20.0
Benzoic acid, 3-(...	13.26	2.8	ng	90566	5	14.14	638044	20.0
Benzo[ghi]fluoran...	13.94	5.9	ng	186799	5	14.14	638044	20.0
11H-Benzo[a]fluor...	13.98	2.1	ng	66613	5	14.14	638044	20.0
Pyrazole-4-carbox...	14.25	2.8	ng	89989	5	14.14	638044	20.0
Benzo[e]pyrene	15.55	15.8	ng	150475	6	15.68	190129	20.0