LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA P\Data\BP091019\
Data File : BP000183.D
Acq On : 10 Sep 2019 22:39
Operator : HP/JU
Sample : K4634-10
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D28

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % 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_P\METHODS\SOM-EPA-BP090519MA.M
Title : SVOA CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.181	7	16	20	rBV	11940815	21037659	100.00%	9.794%
2	6.511	748	752	759	rBV2	1586049	1762558	8.38%	0.821%
3	6.569	759	762	766	rVV	1394500	1209728	5.75%	0.563%
4	6.658	773	777	781	rBV	1980735	1579374	7.51%	0.735%
5	6.893	813	817	820	rVV	3280377	2542266	12.08%	1.184%
6	7.258	875	879	882	rBV	2334003	1760464	8.37%	0.820%
7	7.293	882	885	888	rVB	570959	429637	2.04%	0.200%
8	7.446	907	911	914	rVV	1853463	1391897	6.62%	0.648%
9	7.775	963	967	970	rBV	1343751	1112895	5.29%	0.518%
10	8.016	1004	1008	1011	rBV	2293107	1869858	8.89%	0.870%
11	8.175	1032	1035	1038	rBV	4007205	3480301	16.54%	1.620%
12	8.228	1041	1044	1055	rVB	1288746	1210187	5.75%	0.563%
13	9.628	1279	1282	1285	rVV	3078186	2647119	12.58%	1.232%
14	9.652	1285	1286	1291	rVB	900394	520728	2.48%	0.242%
15	9.787	1306	1309	1317	rVB	3963765	3313808	15.75%	1.543%
16	9.946	1332	1336	1339	rVV	4948418	4041690	19.21%	1.882%
17	9.975	1339	1341	1345	rVV	1720989	1374565	6.53%	0.640%
18	10.028	1347	1350	1358	rVV	878131	769508	3.66%	0.358%
19	10.146	1367	1370	1374	rVB2	596036	528882	2.51%	0.246%
20	10.469	1421	1425	1428	rBV	4494076	3721318	17.69%	1.732%
21	10.499	1428	1430	1432	rVV	686205	525515	2.50%	0.245%
22	10.528	1432	1435	1437	rVV	444636	384059	1.83%	0.179%
23	10.863	1486	1492	1496	rBV2	335152	339789	1.62%	0.158%
24	11.304	1562	1567	1571	rBV3	254611	339682	1.61%	0.158%
25	11.340	1571	1573	1579	rVB	423033	363540	1.73%	0.169%
26	11.451	1588	1592	1593	rVV	4207760	3965511	18.85%	1.846%
27	11.475	1593	1596	1599	rVV	7338245	6360700	30.23%	2.961%
28	11.504	1599	1601	1603	rVV	4128276	3538038	16.82%	1.647%
29	11.522	1603	1604	1607	rVV	1356544	933468	4.44%	0.435%
30	11.675	1624	1630	1634	rBV2	1016909	1013850	4.82%	0.472%
31	11.957	1675	1678	1680	rVV	846843	684903	3.26%	0.319%
32	11.987	1680	1683	1688	rVV2	1429014	1627250	7.73%	0.758%
33	12.075	1694	1698	1700	rVV	1207244	1310103	6.23%	0.610%
34	12.093	1700	1701	1705	rVB	428133	307624	1.46%	0.143%

LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA P\Data\BP091019\
Data File : BP000183.D
Acq On : 10 Sep 2019 22:39
Operator : HP/JU
Sample : K4634-10
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D28

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % 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_P\METHODS\SOM-EPA-BP090519MA.M
Title : SVOA CALIBRATION

35	12.257	1726	1729	1731	rBV	516628	484373	2.30%	0.225%
36	12.281	1731	1733	1737	rVV2	624081	520203	2.47%	0.242%
37	12.410	1750	1755	1758	rBV3	313568	351842	1.67%	0.164%
38	12.522	1770	1774	1777	rBV	413896	425997	2.02%	0.198%
39	12.604	1785	1788	1793	rVV	394840	436832	2.08%	0.203%
40	12.687	1797	1802	1806	rVB	10129634	10298135	48.95%	4.794%
41	12.745	1806	1812	1816	rVB3	189844	329928	1.57%	0.154%
42	12.834	1823	1827	1832	rVB2	357219	553816	2.63%	0.258%
43	12.904	1834	1839	1840	rVV2	5027771	6020245	28.62%	2.803%
44	12.922	1840	1842	1845	rVV	9547695	8142654	38.71%	3.791%
45	12.969	1847	1850	1855	rVB2	416985	582409	2.77%	0.271%
46	13.040	1856	1862	1864	rBV	636551	659429	3.13%	0.307%
47	13.075	1864	1868	1873	rVB	566947	676261	3.21%	0.315%
48	13.140	1873	1879	1882	rBV2	605397	1027701	4.89%	0.478%
49	13.228	1887	1894	1895	rBV5	508489	661250	3.14%	0.308%
50	13.251	1895	1898	1901	rVB	1873768	1821069	8.66%	0.848%
51	13.322	1907	1910	1913	rBV	1343860	1207730	5.74%	0.562%
52	13.357	1913	1916	1919	rVV	1558168	1503519	7.15%	0.700%
53	13.381	1919	1920	1924	rVB	497260	434393	2.06%	0.202%
54	13.451	1928	1932	1935	rBV	772214	690437	3.28%	0.321%
55	13.481	1935	1937	1941	rBV	707473	687565	3.27%	0.320%
56	13.640	1961	1964	1966	rBV3	230522	296429	1.41%	0.138%
57	13.669	1966	1969	1970	rVV2	400671	466970	2.22%	0.217%
58	13.692	1970	1973	1975	rVV	540113	668486	3.18%	0.311%
59	13.769	1979	1986	1992	rVV3	824333	1460986	6.94%	0.680%
60	13.887	2001	2006	2009	rBV2	1691051	2208011	10.50%	1.028%
61	13.916	2009	2011	2013	rVV	886875	820192	3.90%	0.382%
62	13.940	2013	2015	2016	rVV	828060	758316	3.60%	0.353%
63	13.987	2020	2023	2025	rVV	726931	775177	3.68%	0.361%
64	14.016	2025	2028	2032	rVV4	494578	632680	3.01%	0.295%
65	14.057	2032	2035	2038	rVV	391833	393661	1.87%	0.183%
66	14.145	2042	2050	2053	rVV2	7287886	12918026	61.40%	6.014%
67	14.175	2053	2055	2061	rVB	6766163	6397134	30.41%	2.978%
68	14.251	2062	2068	2071	rBV2	1126344	1533264	7.29%	0.714%
69	14.287	2071	2074	2076	rVV3	337110	449806	2.14%	0.209%
70	14.310	2076	2078	2080	rVV2	491381	551499	2.62%	0.257%
71	14.339	2080	2083	2085	rVV	769231	912713	4.34%	0.425%

LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA P\Data\BP091019\
Data File : BP000183.D
Acq On : 10 Sep 2019 22:39
Operator : HP/JU
Sample : K4634-10
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D28

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % 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_P\METHODS\SOM-EPA-BP090519MA.M
Title : SVOA CALIBRATION

72	14.369	2085	2088	2093	rVV2	945145	1359221	6.46%	0.633%
73	14.481	2102	2107	2109	rBV3	477894	745878	3.55%	0.347%
74	14.504	2109	2111	2113	rVV	375064	372846	1.77%	0.174%
75	14.545	2113	2118	2121	rVV	1840928	2422432	11.51%	1.128%
76	14.581	2121	2124	2127	rVV	1044931	1194412	5.68%	0.556%
77	14.616	2127	2130	2131	rVV2	350757	396118	1.88%	0.184%
78	14.639	2131	2134	2137	rVV2	736923	883966	4.20%	0.412%
79	14.675	2137	2140	2142	rVV	1013517	1377890	6.55%	0.641%
80	14.692	2142	2143	2147	rVB4	918366	713574	3.39%	0.332%
81	14.810	2160	2163	2168	rBV4	251120	352053	1.67%	0.164%
82	14.869	2169	2173	2176	rBV3	548983	839806	3.99%	0.391%
83	14.898	2176	2178	2185	rVB4	407498	634443	3.02%	0.295%
84	14.957	2185	2188	2191	rBV	451548	486075	2.31%	0.226%
85	14.998	2191	2195	2200	rBV2	590310	997066	4.74%	0.464%
86	15.069	2204	2207	2211	rVV3	452194	568635	2.70%	0.265%
87	15.251	2230	2238	2248	rBV	5778816	14280068	67.88%	6.648%
88	15.351	2252	2255	2258	rBV	917538	1121509	5.33%	0.522%
89	15.445	2268	2271	2273	rBV2	226777	319700	1.52%	0.149%
90	15.569	2286	2292	2295	rBV	3400247	5780229	27.48%	2.691%
91	15.598	2295	2297	2300	rVV	1863497	2646173	12.58%	1.232%
92	15.639	2300	2304	2309	rVB	5289783	7577853	36.02%	3.528%
93	15.698	2309	2314	2317	rBV	2325190	3556958	16.91%	1.656%
94	15.728	2317	2319	2326	rVV2	1640852	2397580	11.40%	1.116%
95	15.804	2327	2332	2338	rVB4	510336	1137784	5.41%	0.530%
96	16.045	2369	2373	2376	rBV3	307615	479844	2.28%	0.223%
97	17.281	2574	2583	2590	rVB2	2850882	7120425	33.85%	3.315%
98	17.457	2608	2613	2617	rBV	515247	1135924	5.40%	0.529%
99	17.751	2654	2663	2674	rVB	2093222	5760768	27.38%	2.682%
100	17.986	2698	2703	2710	rVB	663475	1387695	6.60%	0.646%

Sum of corrected areas: 214804537

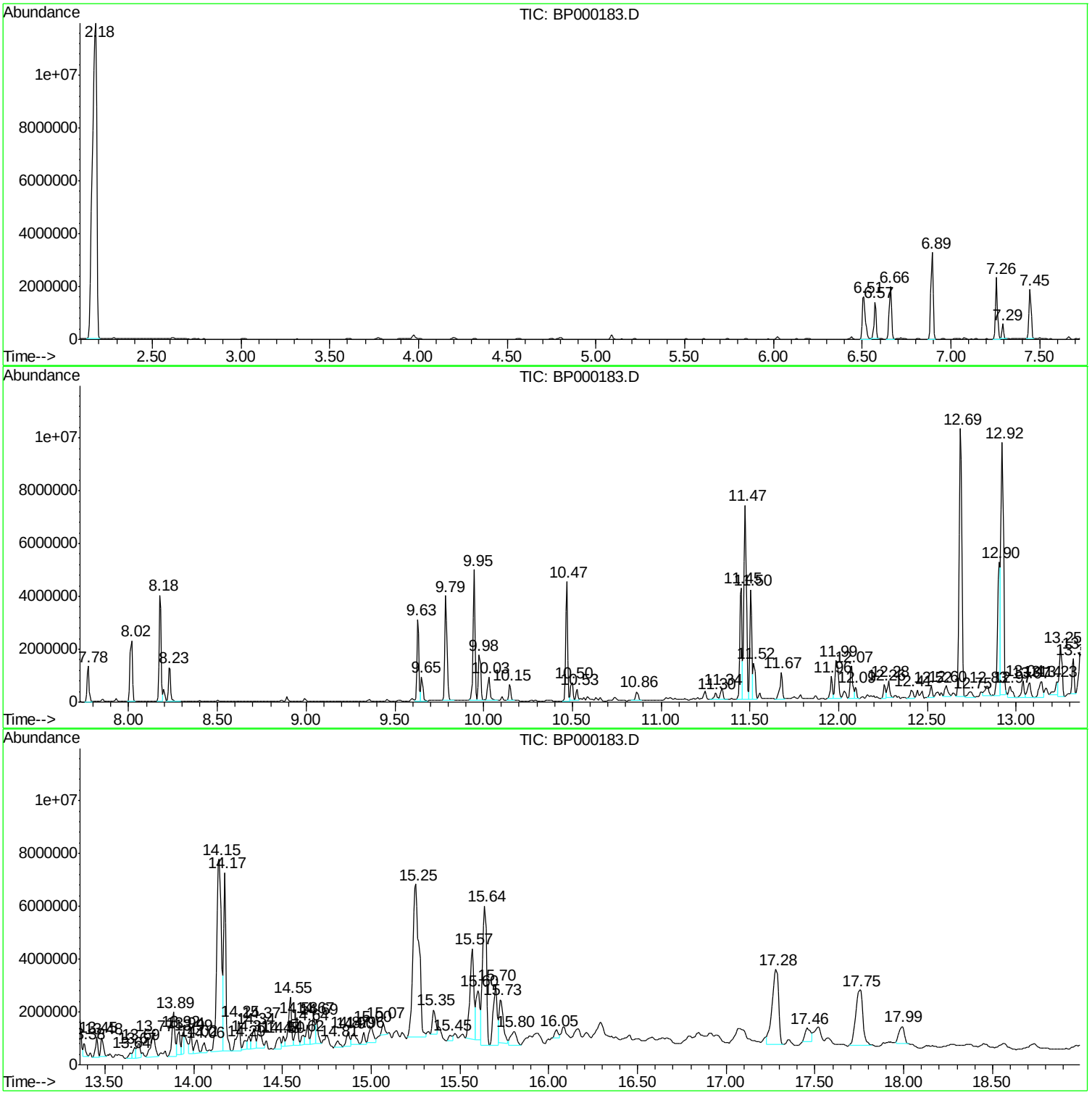
LSC Report - Integrated Chromatogram

Data Path : Z:\svoasrv\HPCHEM1\BNA P\Data\BP091019\
Data File : BP000183.D
Acq On : 10 Sep 2019 22:39
Operator : HP/JU
Sample : K4634-10
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D28

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : Z:\svoasrv\HPCHEM1\BNA P\Data\BP091019\
Data File : BP000183.D
Acq On : 10 Sep 2019 22:39
Operator : HP/JU
Sample : K4634-10
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D28

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

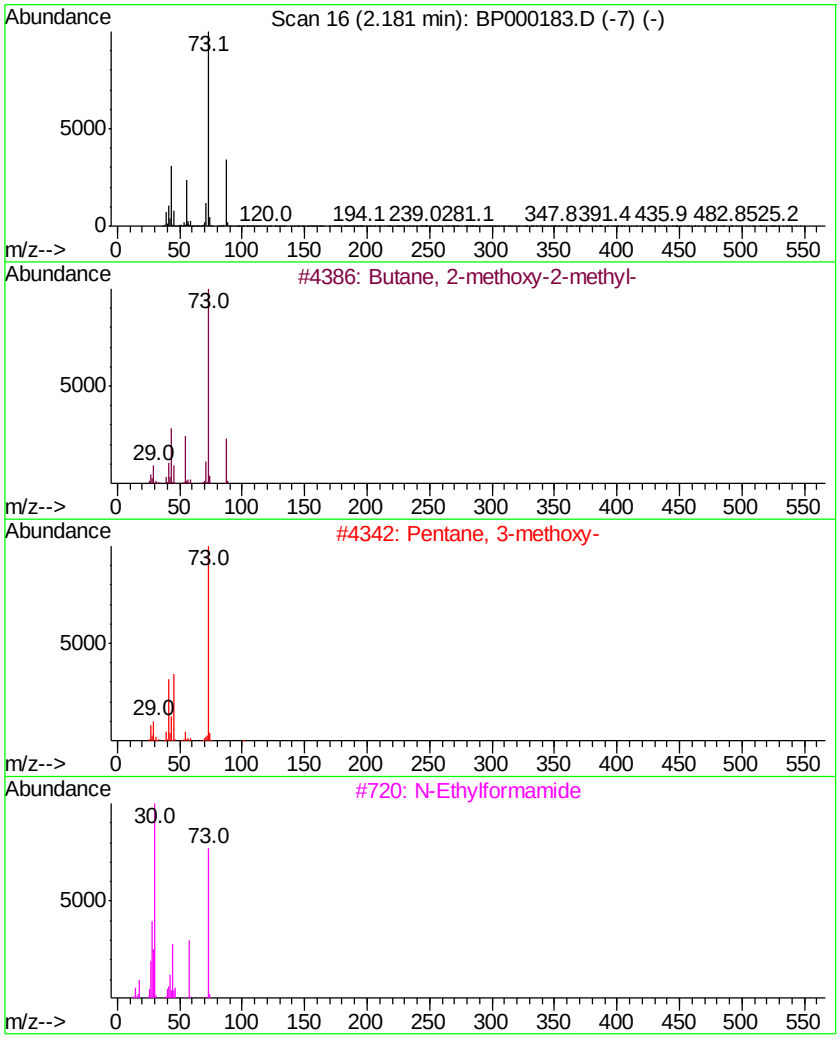
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

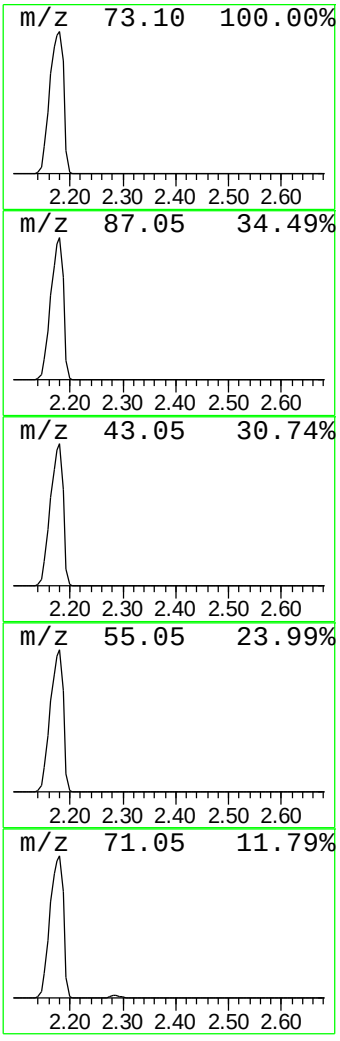
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.18	165.50 ng/ul	21037700	1,4-Dichlorobenzene-d4	6.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	78
2	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	23
3	N-Ethylformamide	73	C3H7NO	000627-45-2	9
4	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	9
5	1,4-Butanediamine	88	C4H12N2	000110-60-1	9





Library Search Compound Report

Data Path : Z:\svoasrv\HPCHEM1\BNA P\Data\BP091019\
Data File : BP000183.D
Acq On : 10 Sep 2019 22:39
Operator : HP/JU
Sample : K4634-10
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D28

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

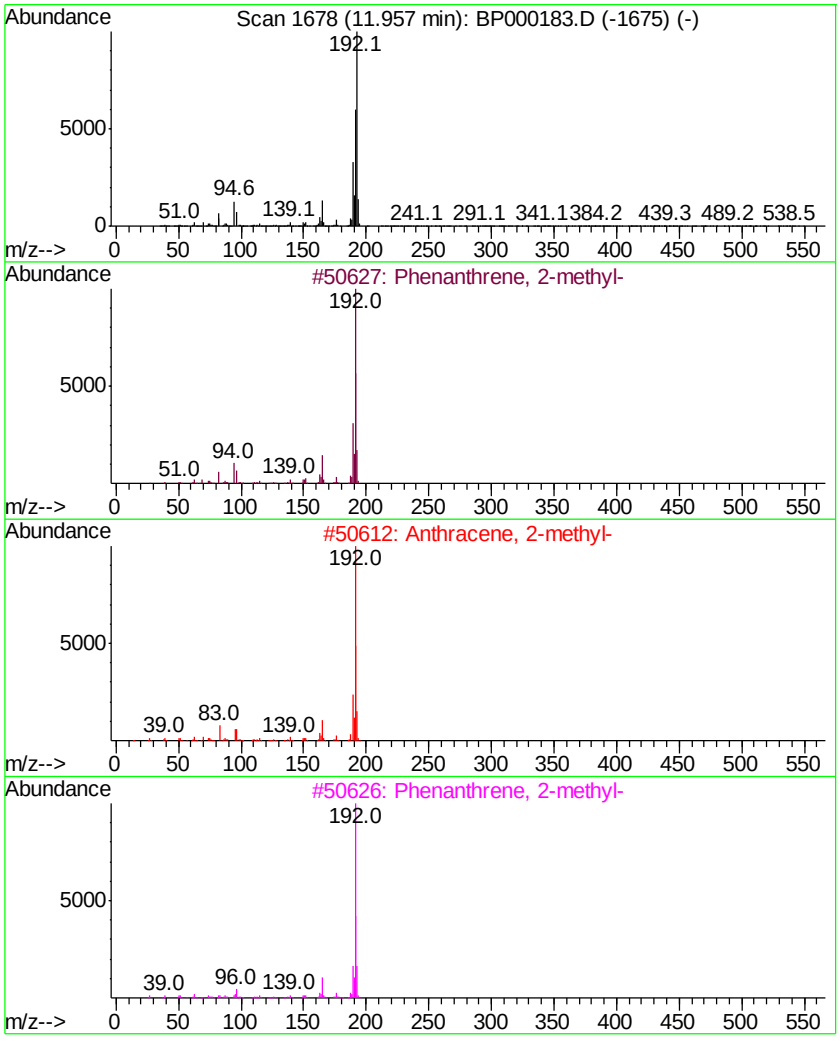
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

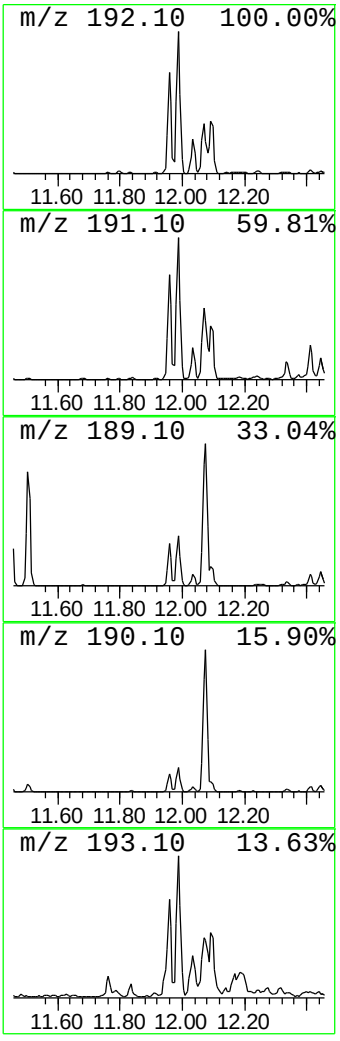
****

Peak Number 2 Phenanthrene, 2-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.96	3.45 ng/ul	684903	Phenanthrene-d10	11.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	96
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95





Data Path : Z:\svoasrv\HPCHEM1\BNA P\Data\BP091019\
Data File : BP000183.D
Acq On : 10 Sep 2019 22:39
Operator : HP/JU
Sample : K4634-10
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D28

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

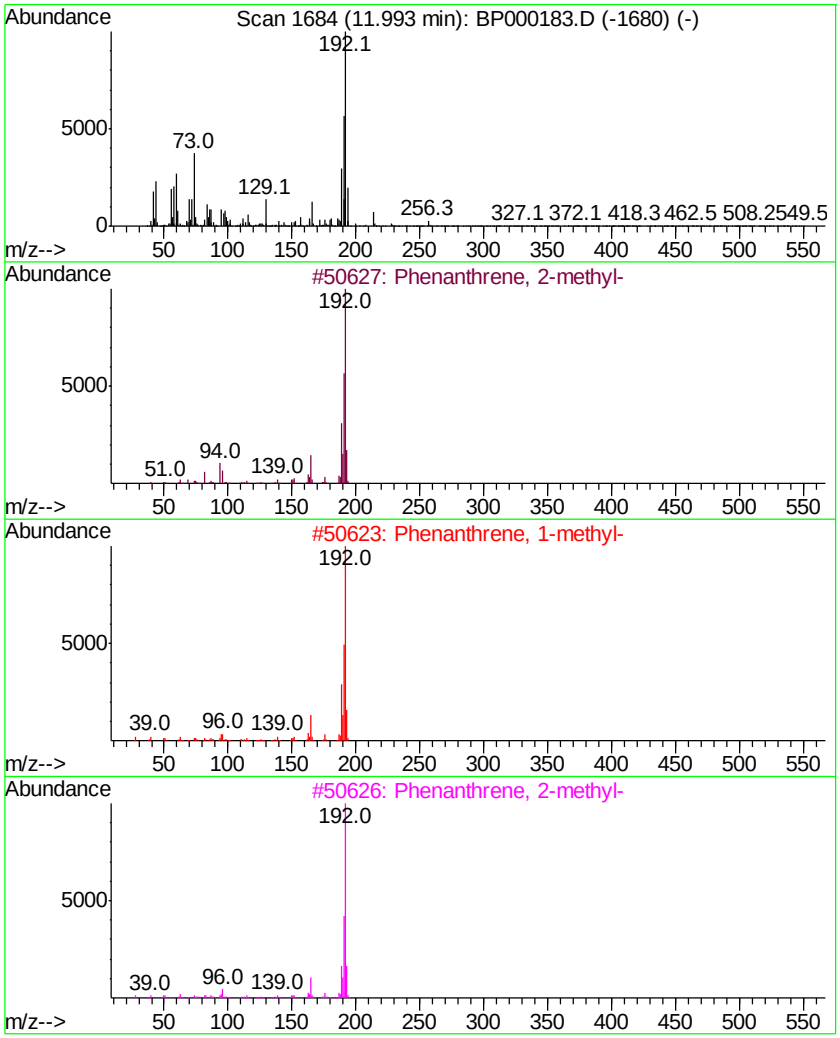
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

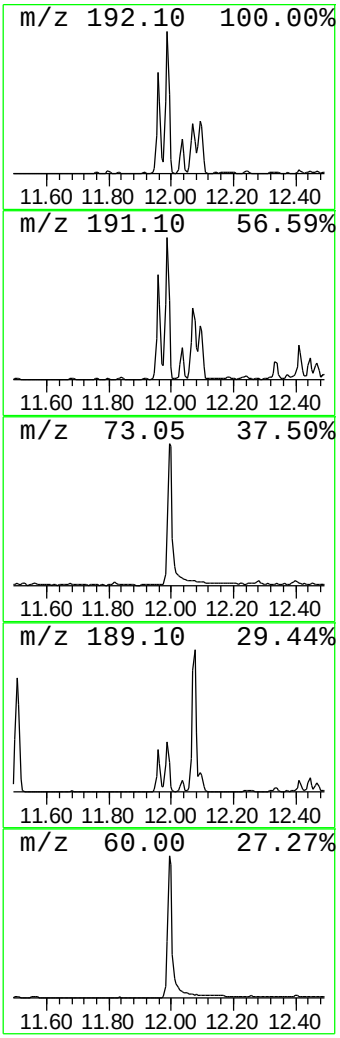
****

Peak Number 3 Phenanthrene, 1-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.99	8.21 ng/ul	1627250	Phenanthrene-d10	11.45

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	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96





Library Search Compound Report

Data Path : Z:\svoasrv\HPCHEM1\BNA P\Data\BP091019\
Data File : BP000183.D
Acq On : 10 Sep 2019 22:39
Operator : HP/JU
Sample : K4634-10
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D28

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

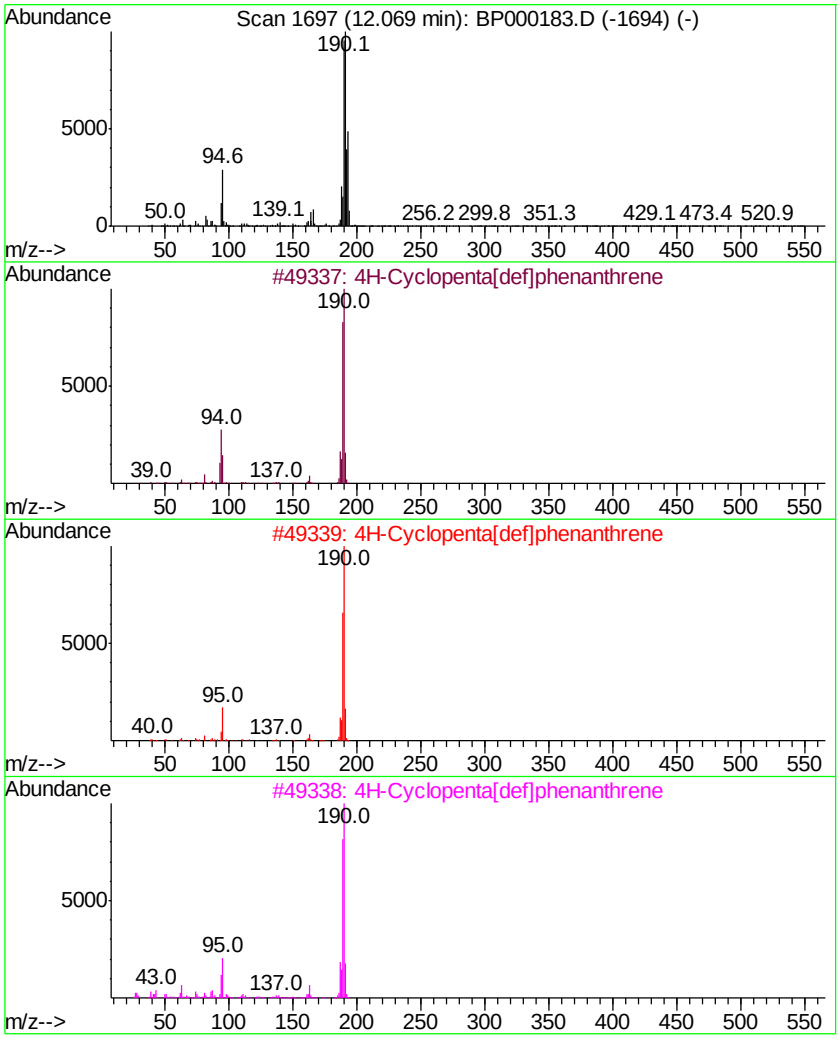
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

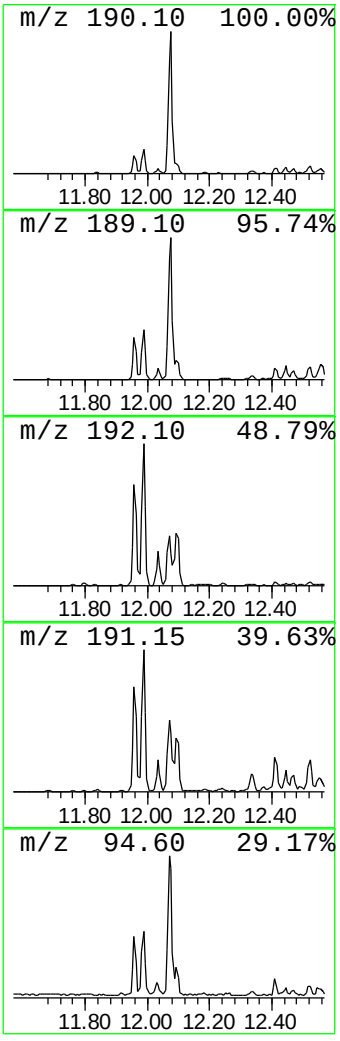
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.07	6.61 ng/ul	1310100	Phenanthrene-d10	11.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	94
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	76
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	68
4	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	45
5	6,7-Methylenedioxy-4(3H)-quinazo...	190	C9H6N2O3	028310-11-4	33





Data Path : Z:\svoasrv\HPCHEM1\BNA P\Data\BP091019\
Data File : BP000183.D
Acq On : 10 Sep 2019 22:39
Operator : HP/JU
Sample : K4634-10
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D28

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

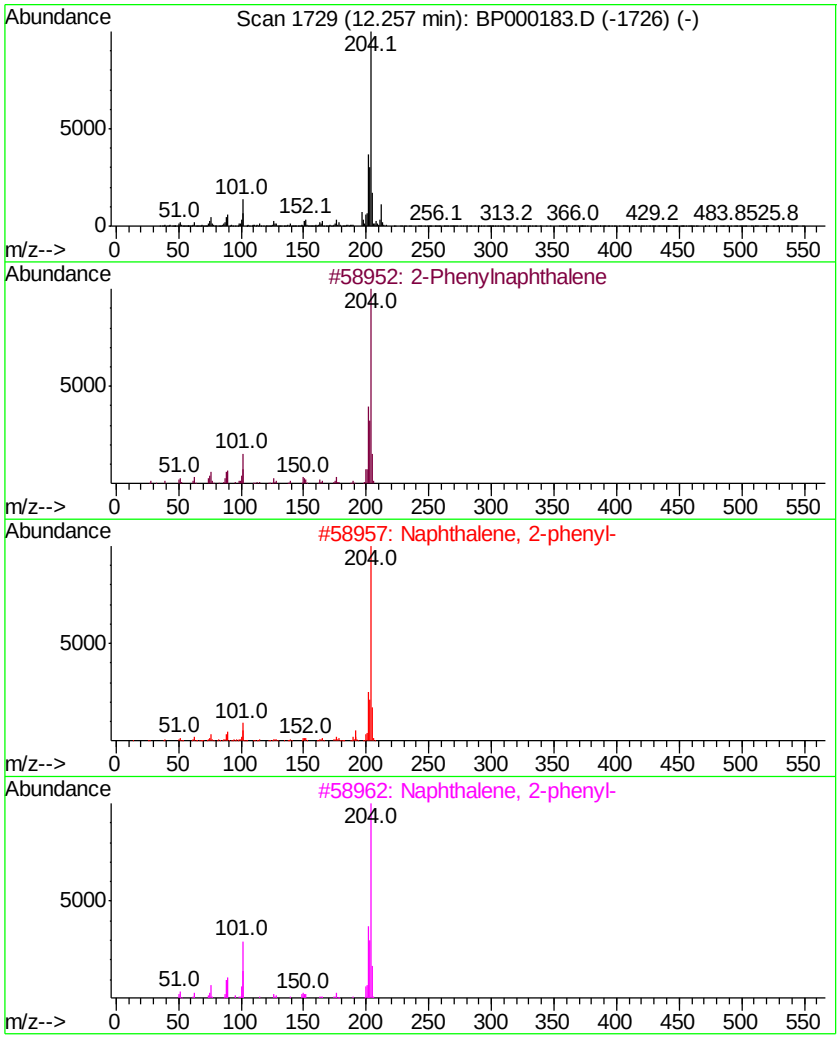
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

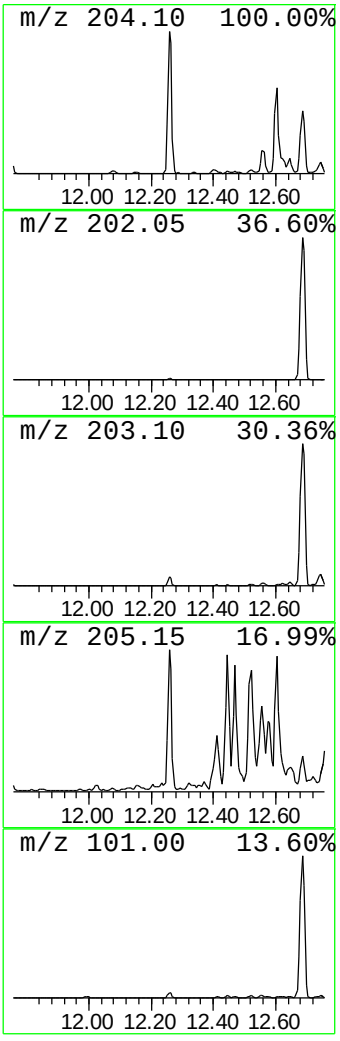
****

Peak Number 5 2-Phenylnaphthalene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.26	2.44 ng/ul	484373	Phenanthrene-d10	11.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Phenylnaphthalene	204	C16H12	035465-71-5	96
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	93
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	89
4	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	72
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	70





Library Search Compound Report

Data Path : Z:\svoasrv\HPCHEM1\BNA P\Data\BP091019\
Data File : BP000183.D
Acq On : 10 Sep 2019 22:39
Operator : HP/JU
Sample : K4634-10
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D28

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

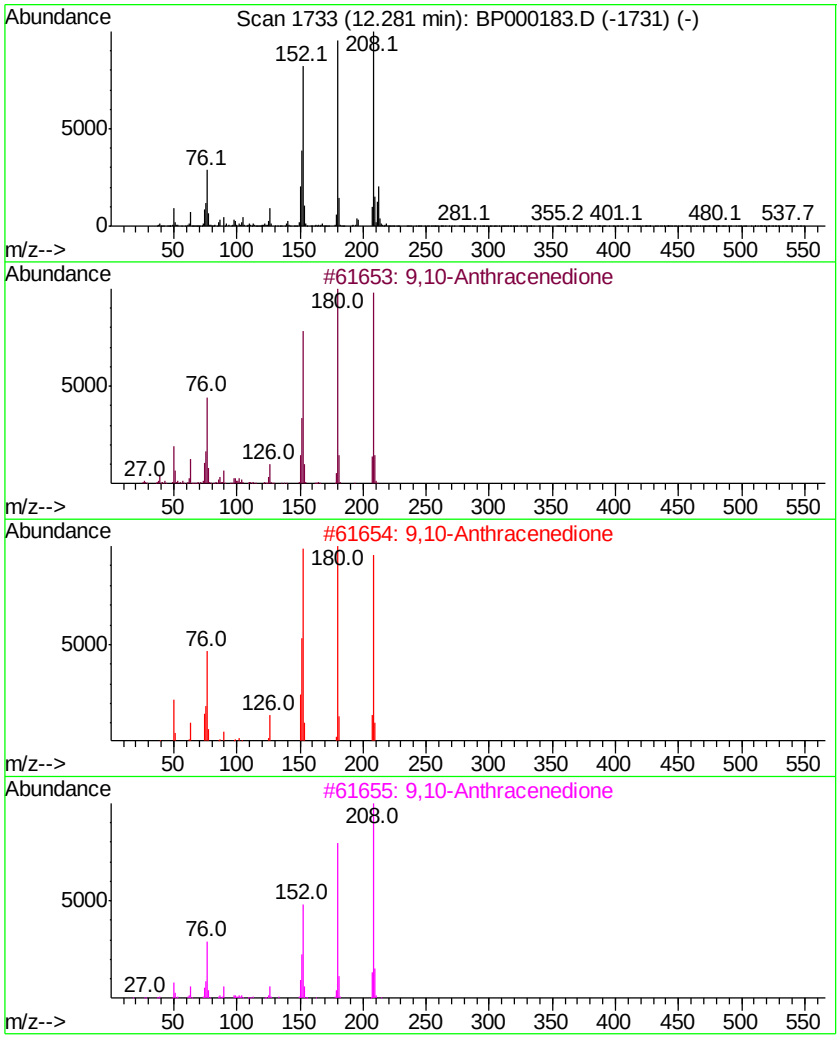
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

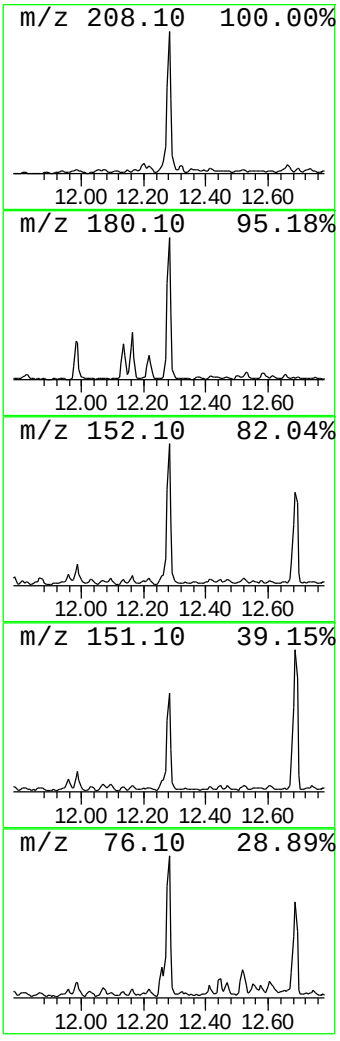
****

Peak Number 6 9,10-Anthracenedione Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.28	2.62 ng/ul	520203	Phenanthrene-d10	11.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	95
2	9,10-Anthracenedione	208	C14H8O2	000084-65-1	93
3	9,10-Anthracenedione	208	C14H8O2	000084-65-1	91
4	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	83
5	Acenaphthylene	152	C12H8	000208-96-8	60





Data Path : Z:\svoasrv\HPCHEM1\BNA P\Data\BP091019\
Data File : BP000183.D
Acq On : 10 Sep 2019 22:39
Operator : HP/JU
Sample : K4634-10
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D28

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

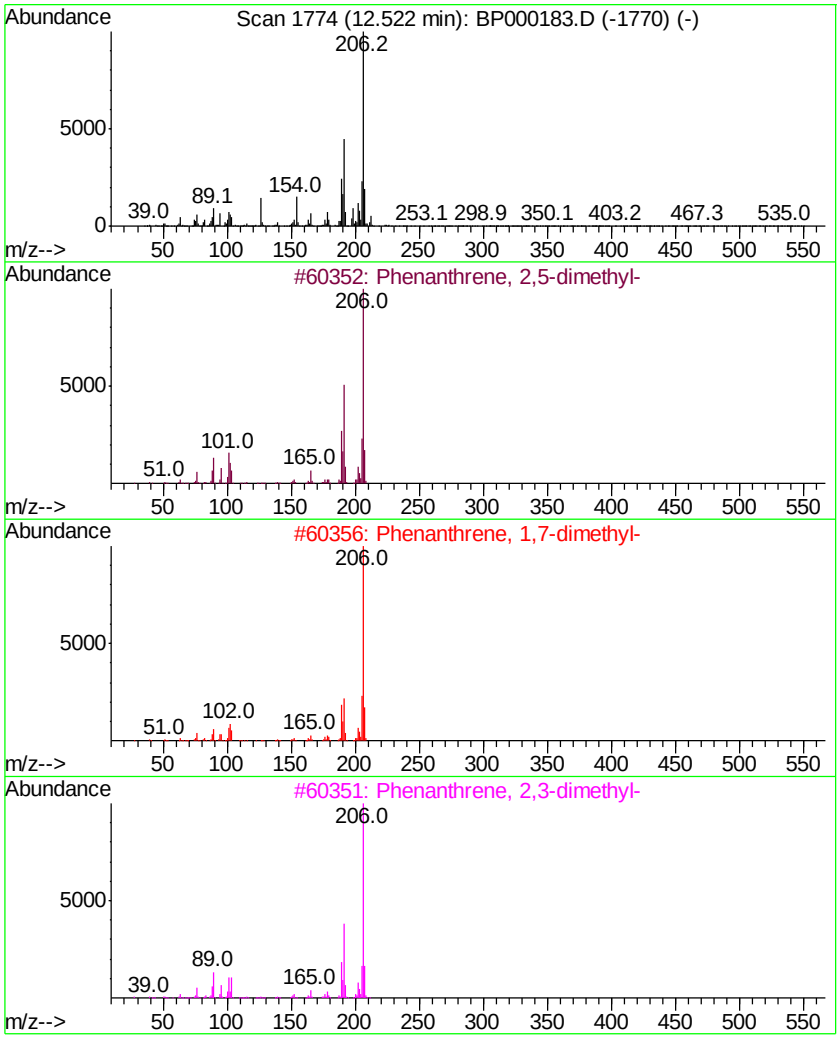
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

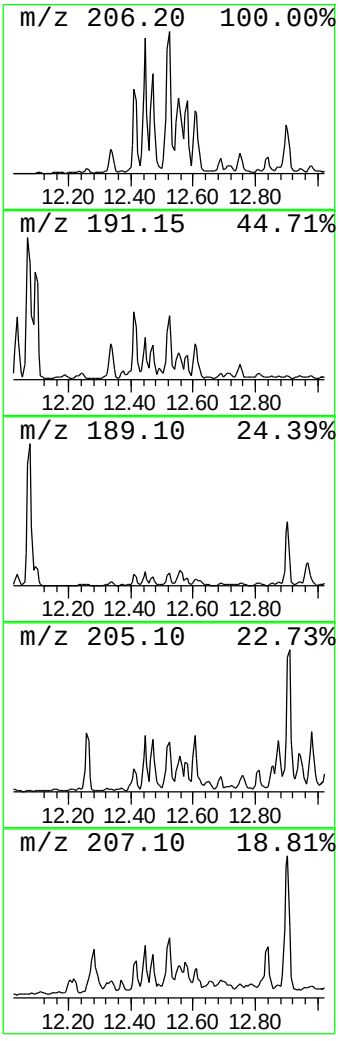
****

Peak Number 7 Phenanthrene, 2,5-dimethyl- Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.52	2.15 ng/ul	425997	Phenanthrene-d10	11.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	97
2	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	91
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	90
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	90





Library Search Compound Report

Data Path : Z:\svoasrv\HPCHEM1\BNA P\Data\BP091019\
Data File : BP000183.D
Acq On : 10 Sep 2019 22:39
Operator : HP/JU
Sample : K4634-10
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D28

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

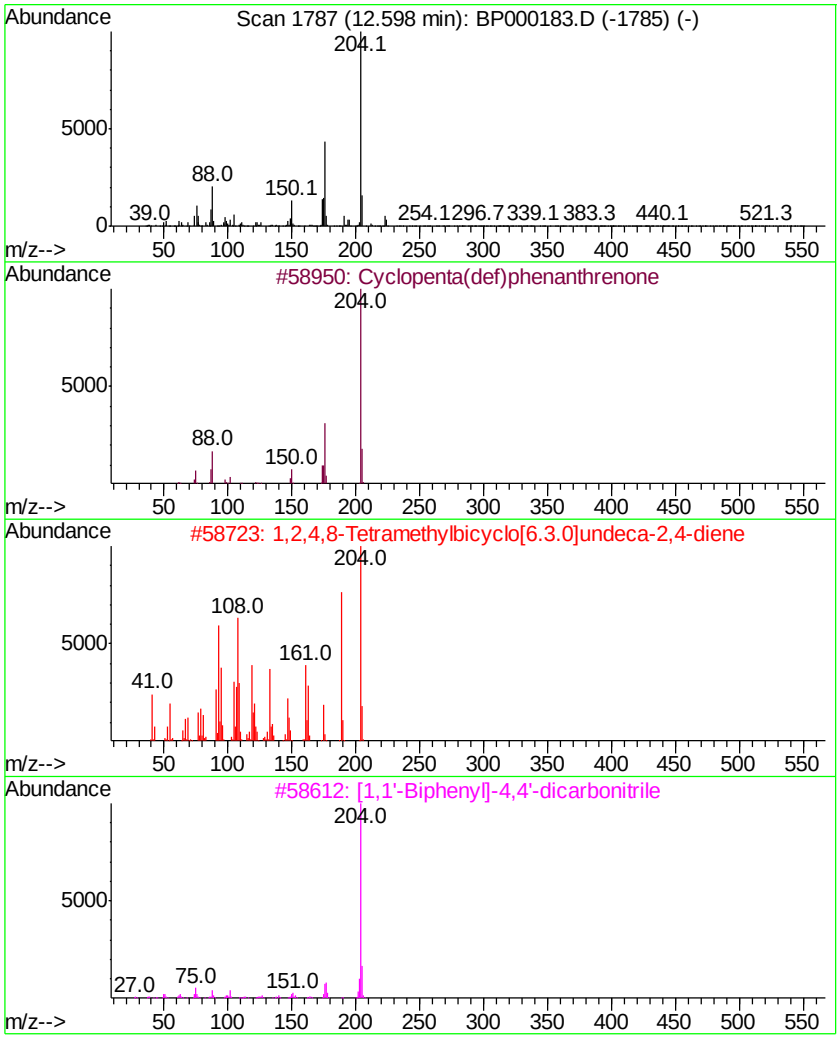
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

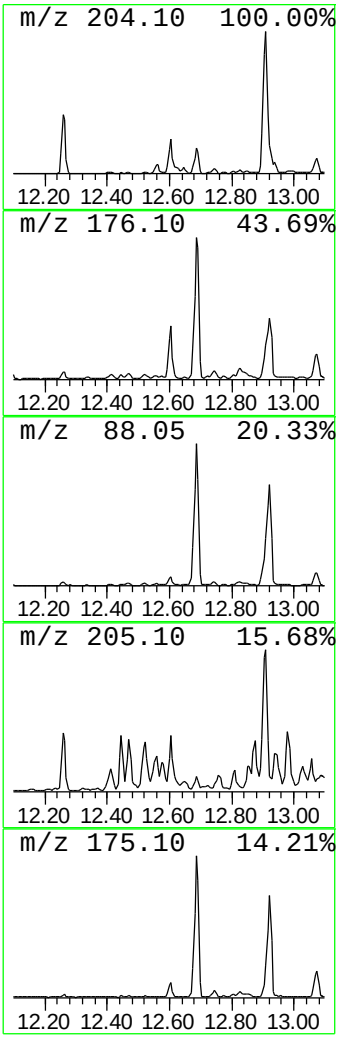
****

Peak Number 8 Cyclopenta(def)phenanthrenone Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.60	2.20 ng/ul	436832	Phenanthrene-d10	11.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	96
2	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	86
3	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	52
4	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	47
5	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	38





Data Path : Z:\svoasrv\HPCHEM1\BNA P\Data\BP091019\
Data File : BP000183.D
Acq On : 10 Sep 2019 22:39
Operator : HP/JU
Sample : K4634-10
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D28

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

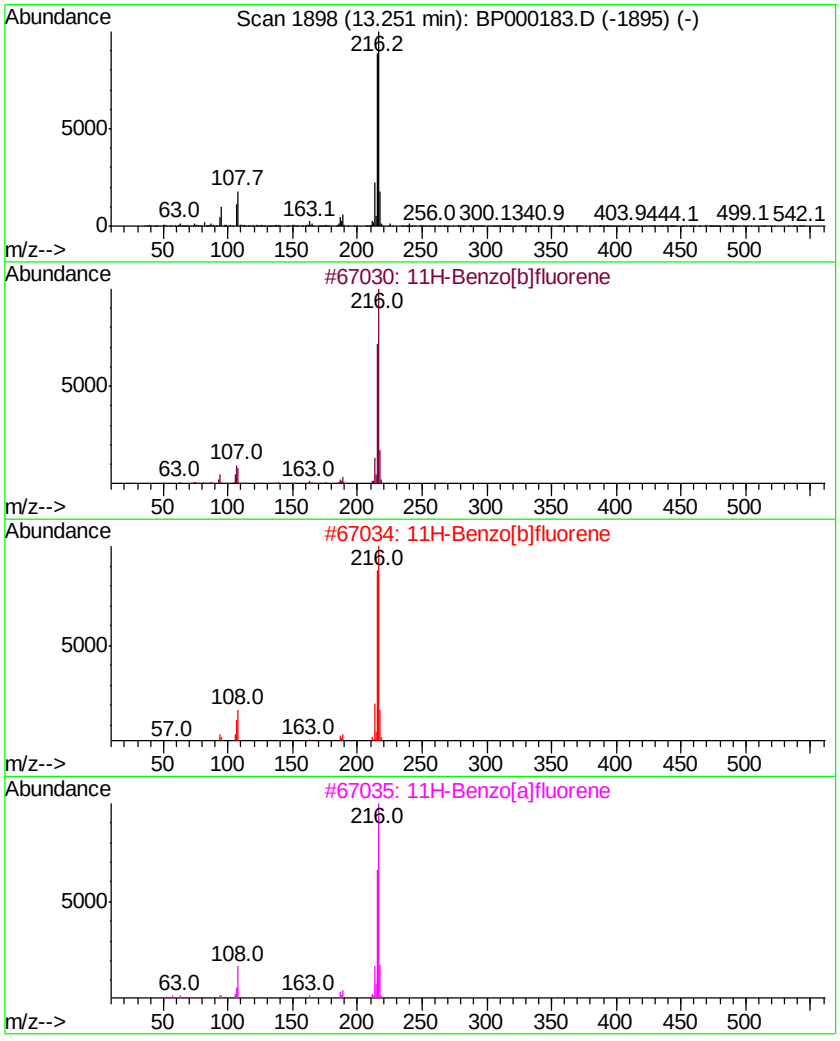
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

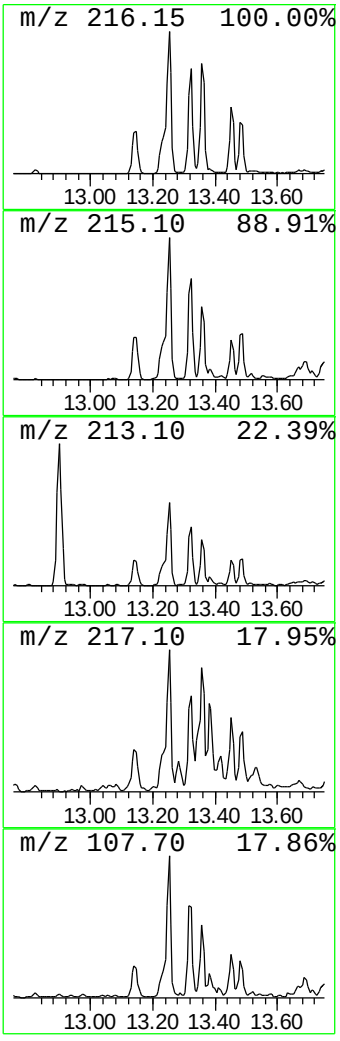
****

Peak Number 9 11H-Benzo[b]fluorene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.25	2.82 ng/ul	1821070	Chrysene-d12	14.15

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





Data Path : Z:\svoasrv\HPCHEM1\BNA P\Data\BP091019\
Data File : BP000183.D
Acq On : 10 Sep 2019 22:39
Operator : HP/JU
Sample : K4634-10
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D28

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

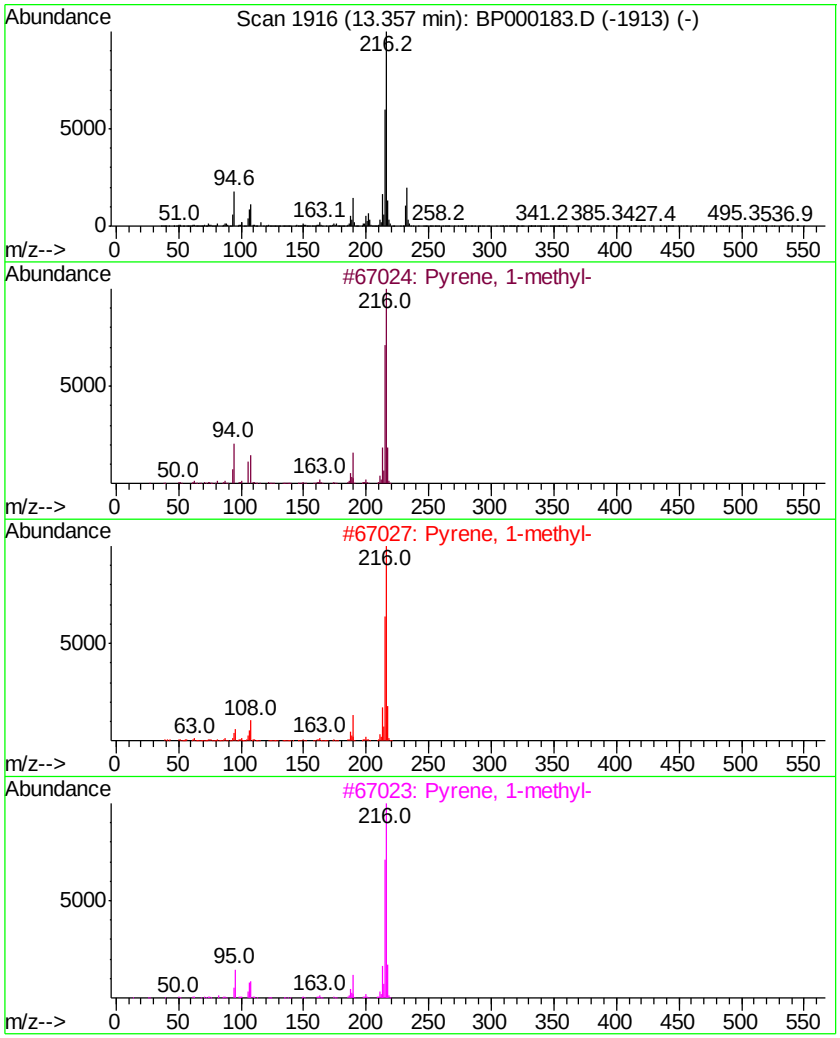
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

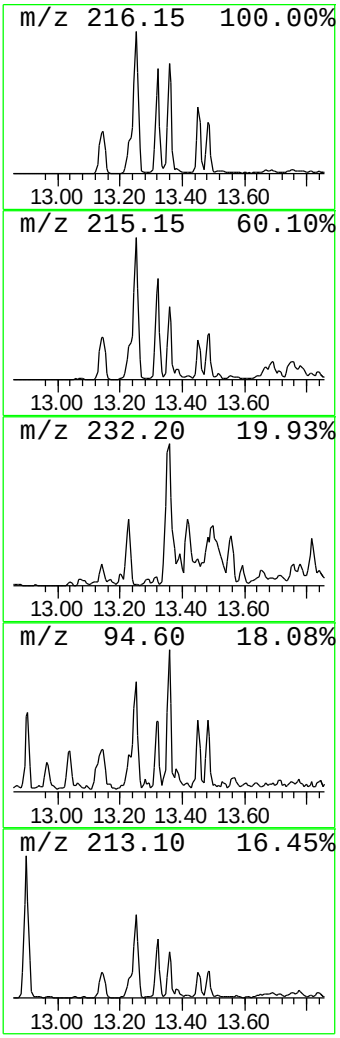
****

Peak Number 10 Pyrene, 1-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.36	2.33 ng/ul	1503520	Chrysene-d12	14.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	98
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	95
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	95
4	Pyrene, 4-methyl-	216	C17H12	003353-12-6	93
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	92





Data Path : Z:\svoasrv\HPCHEM1\BNA P\Data\BP091019\
Data File : BP000183.D
Acq On : 10 Sep 2019 22:39
Operator : HP/JU
Sample : K4634-10
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D28

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

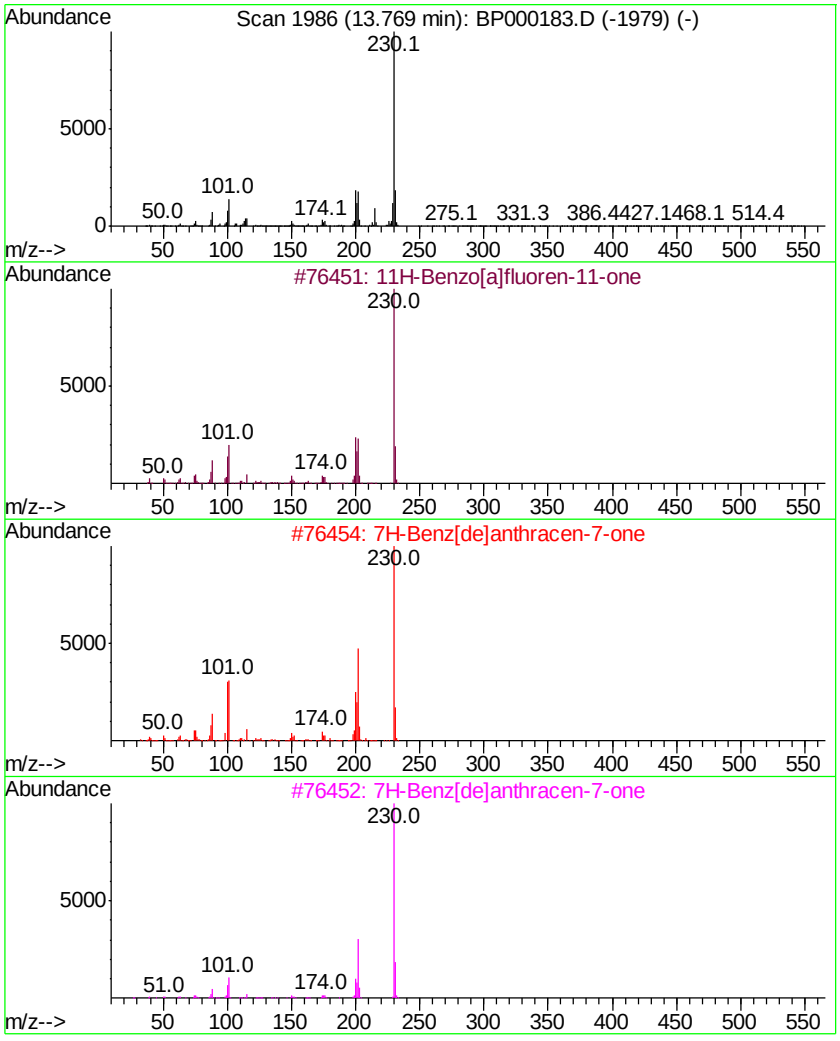
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

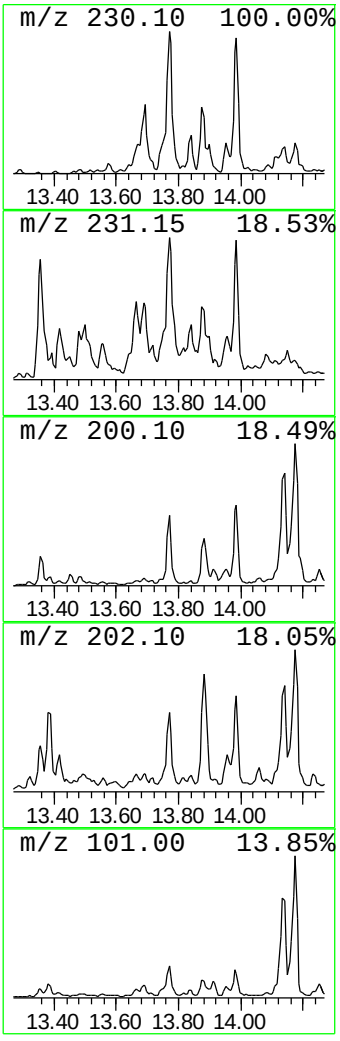
****

Peak Number 11 11H-Benzo[a]fluoren-11-one Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.77	2.26 ng/ul	1460990	Chrysene-d12	14.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	96
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	91
3	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	89
4	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	89
5	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	70





Data Path : Z:\svoasrv\HPCHEM1\BNA P\Data\BP091019\
Data File : BP000183.D
Acq On : 10 Sep 2019 22:39
Operator : HP/JU
Sample : K4634-10
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D28

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

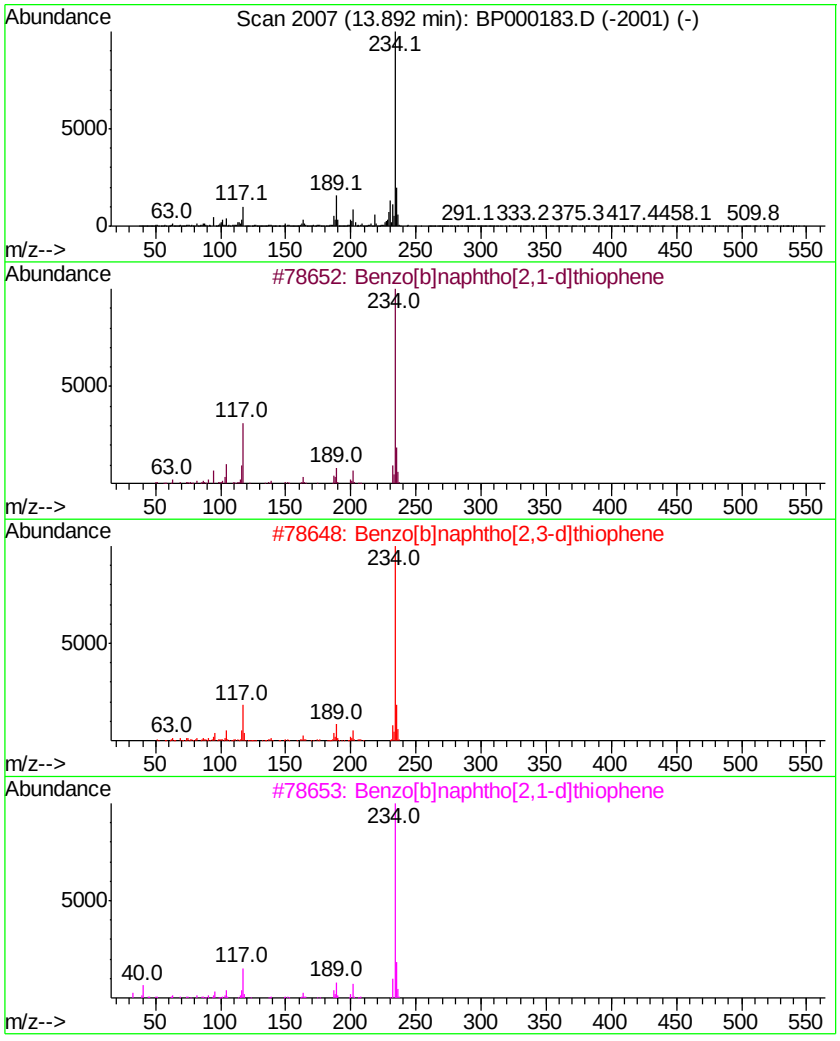
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

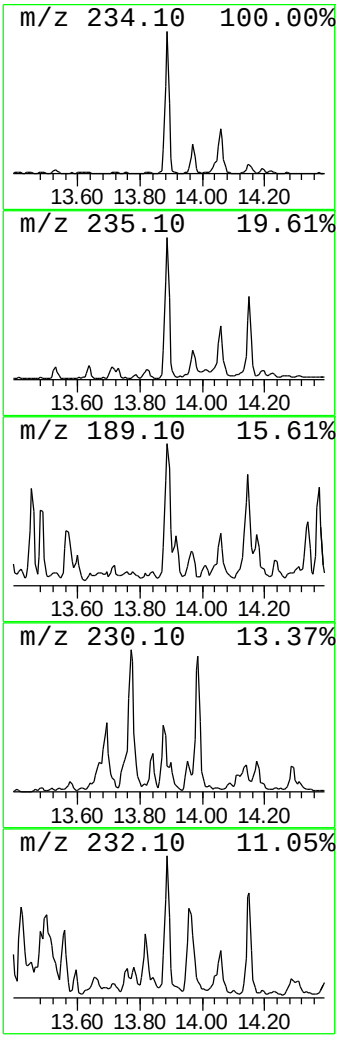
****

Peak Number 12 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.89	3.42 ng/ul	2208010	Chrysene-d12	14.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	96
2	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	95
3	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	95
4	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	94
5	Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	83





Data Path : Z:\svoasrv\HPCHEM1\BNA P\Data\BP091019\
Data File : BP000183.D
Acq On : 10 Sep 2019 22:39
Operator : HP/JU
Sample : K4634-10
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D28

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

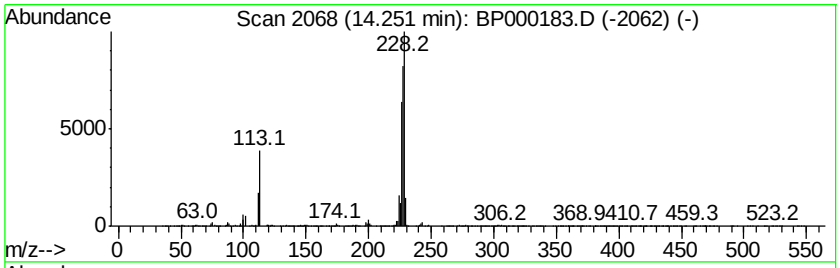
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

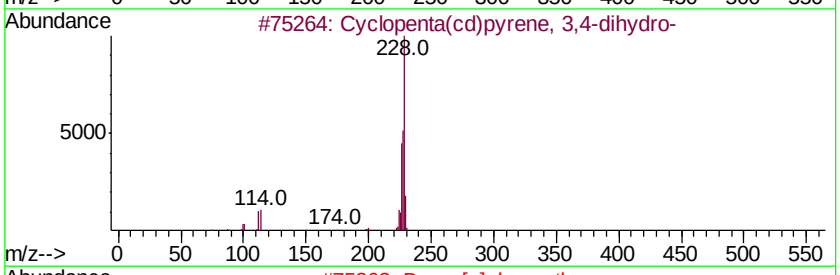
****

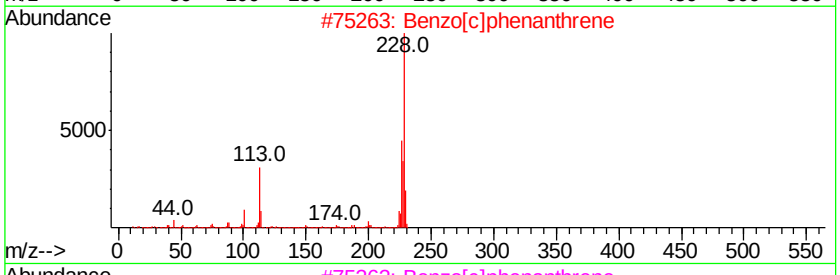
Peak Number 13 Cyclopenta(cd)pyrene, 3,4-d... Concentration Rank 18

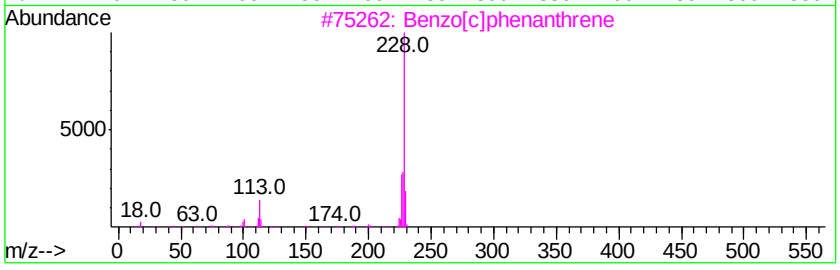
R.T.	EstConc	Area	Relative to ISTD	R.T.
14.25	2.37 ng/ul	1533260	Chrysene-d12	14.15

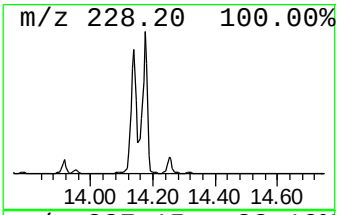
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	55
2	Benzo[c]phenanthrene	228	C18H12	000195-19-7	46
3	Benzo[c]phenanthrene	228	C18H12	000195-19-7	38
4	1,3,5-Triazine-2(1H)-thione, 4-(...	227	C9H17N5S	023613-02-7	38
5	2-Nitrophenyl selenocyanate	228	C7H4N2O2Se	051694-22-5	35

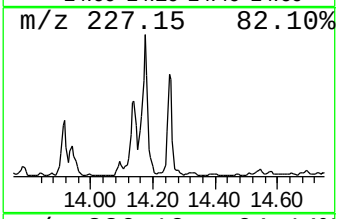


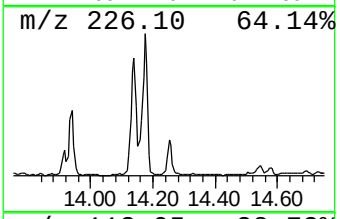


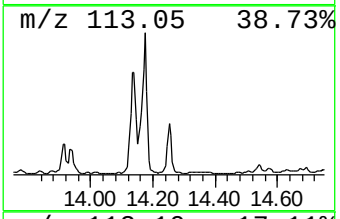


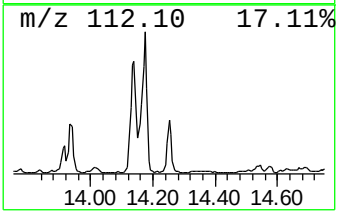












Data Path : Z:\svoasrv\HPCHEM1\BNA P\Data\BP091019\
Data File : BP000183.D
Acq On : 10 Sep 2019 22:39
Operator : HP/JU
Sample : K4634-10
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D28

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

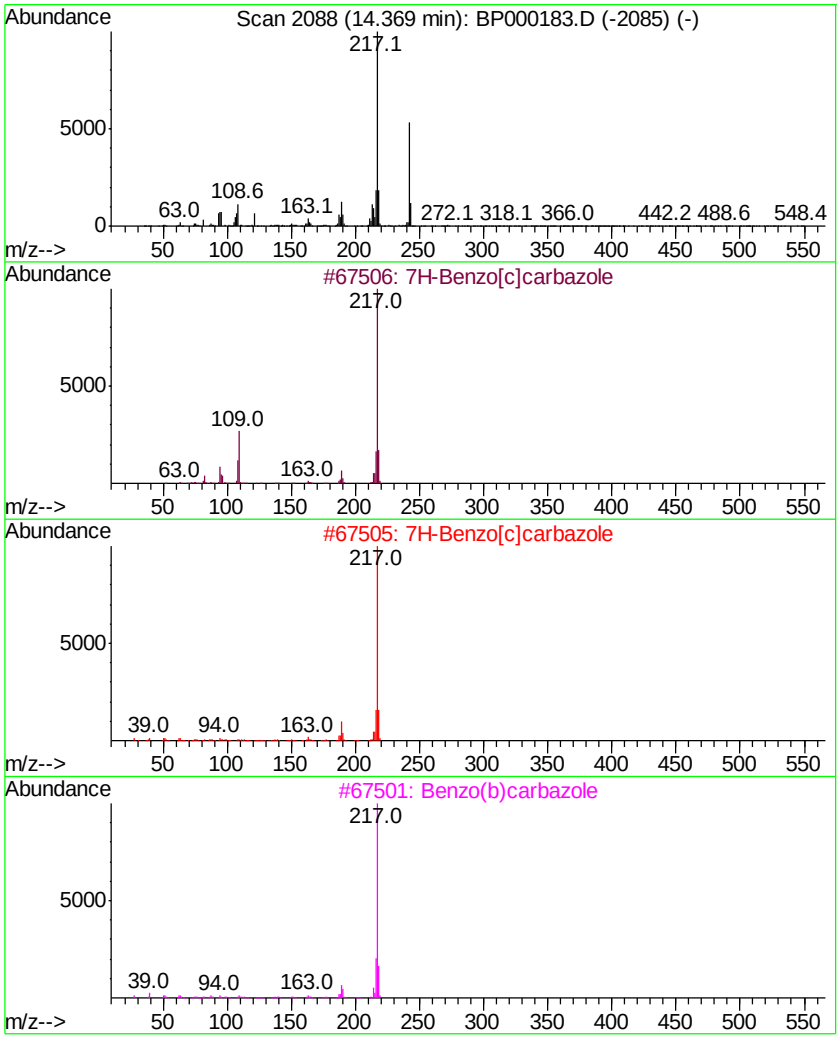
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

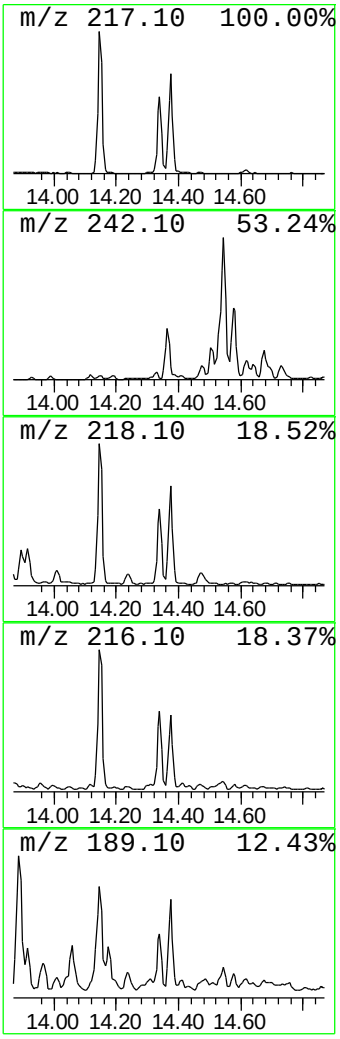
****

Peak Number 14 7H-Benzo[c]carbazole Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.37	2.10 ng/ul	1359220	Chrysene-d12	14.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7H-Benzo[c]carbazole	217	C16H11N	000205-25-4	64
2	7H-Benzo[c]carbazole	217	C16H11N	000205-25-4	64
3	Benzo(b)carbazole	217	C16H11N	000243-28-7	64
4	11H-Indeno(1,2-b)quinoline	217	C16H11N	000243-51-6	58
5	1-Aminopyrene	217	C16H11N	001606-67-3	55





Library Search Compound Report

Data Path : Z:\svoasrv\HPCHEM1\BNA P\Data\BP091019\
Data File : BP000183.D
Acq On : 10 Sep 2019 22:39
Operator : HP/JU
Sample : K4634-10
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D28

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

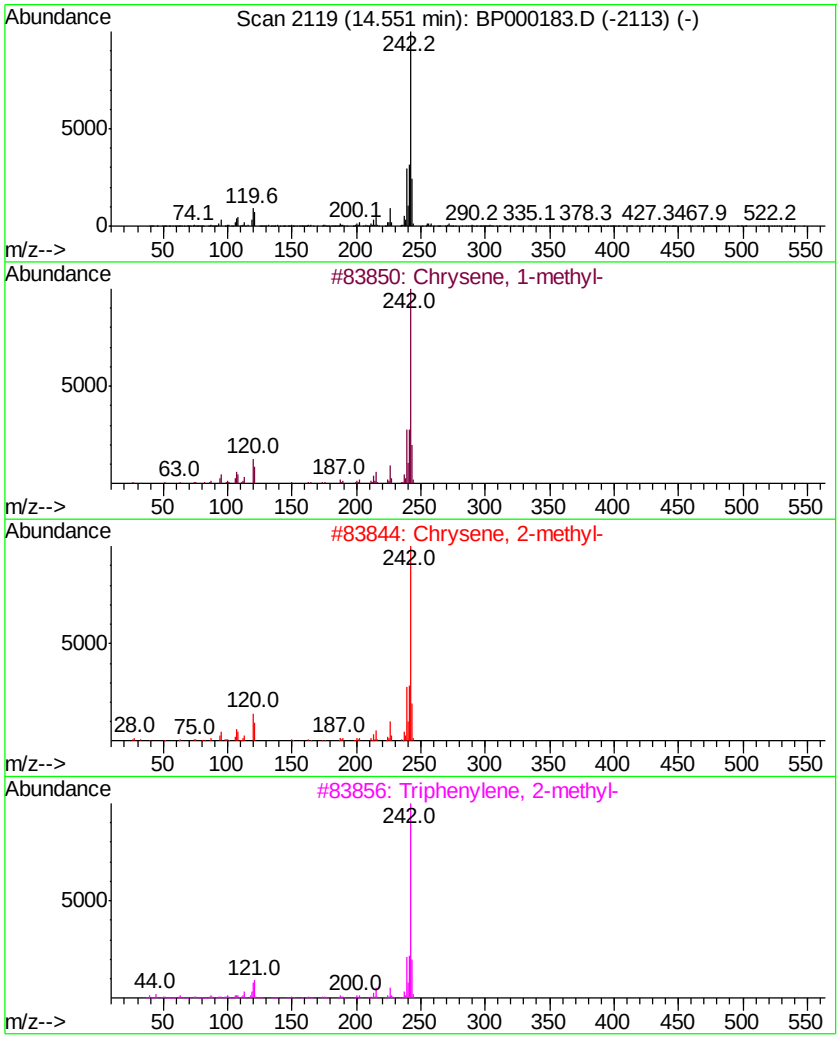
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

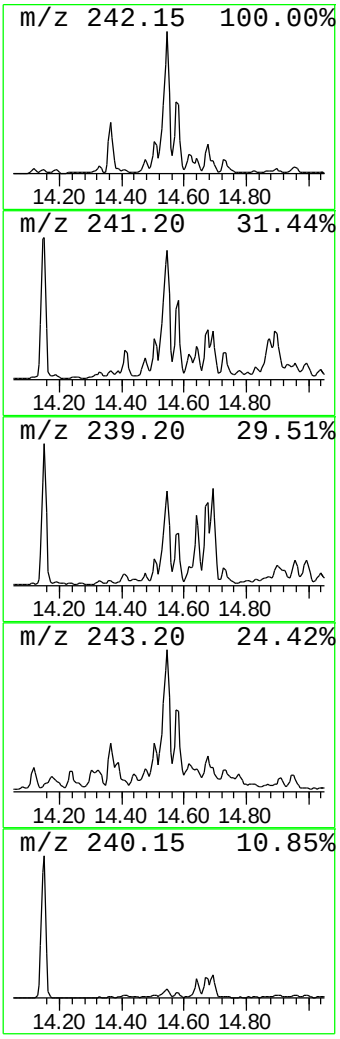
****

Peak Number 15 Chrysene, 1-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.55	3.75 ng/ul	2422430	Chrysene-d12	14.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Chrysene, 1-methyl-	242	C19H14	003351-28-8	98
2	Chrysene, 2-methyl-	242	C19H14	003351-32-4	98
3	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	97
4	Chrysene, 3-methyl-	242	C19H14	003351-31-3	95
5	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	95





Data Path : Z:\svoasrv\HPCHEM1\BNA P\Data\BP091019\
Data File : BP000183.D
Acq On : 10 Sep 2019 22:39
Operator : HP/JU
Sample : K4634-10
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D28

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

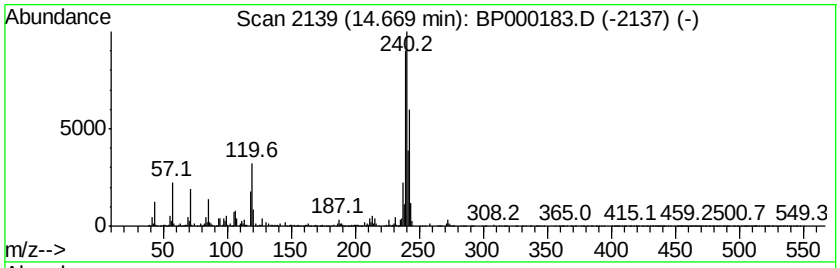
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

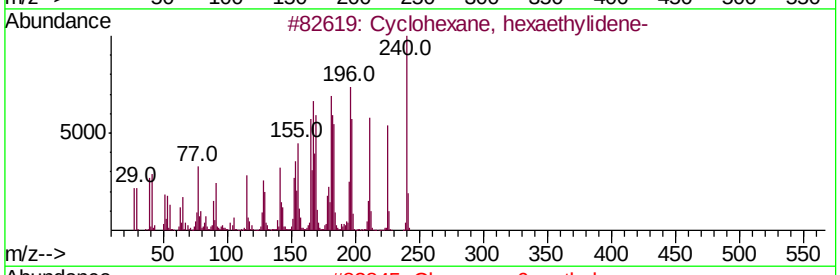
****

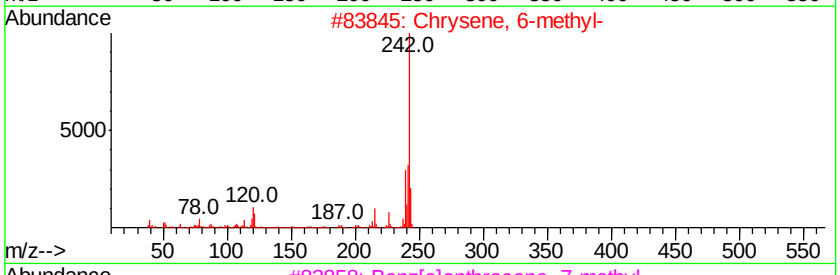
Peak Number 16 Cyclohexane, hexaethylidene- Concentration Rank 23

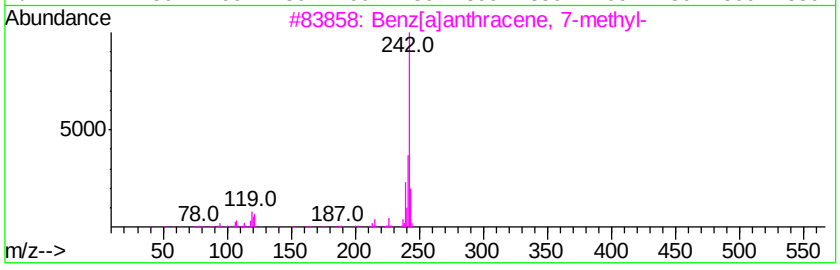
R.T.	EstConc	Area	Relative to ISTD	R.T.
14.67	2.13 ng/ul	1377890	Chrysene-d12	14.15

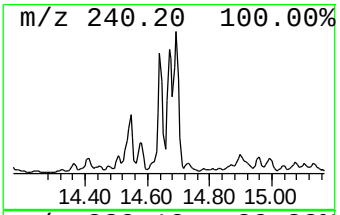
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, hexaethylidene-	240	C18H24	001482-93-5	64
2	Chrysene, 6-methyl-	242	C19H14	003697-24-3	42
3	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	41
4	Pyrrolo[2,3-f]quinolin-9-ol, 2,3...	240	C15H16N2O	199919-66-9	38
5	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	38

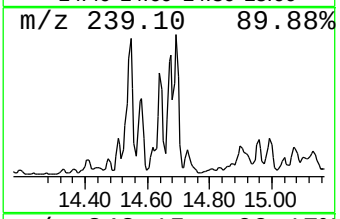


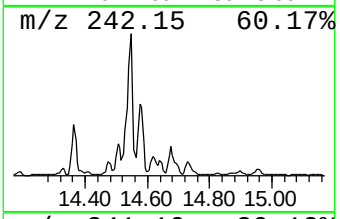


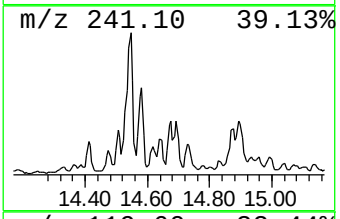


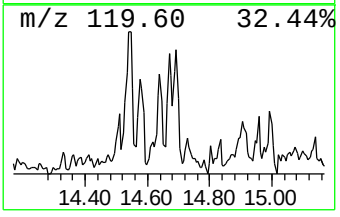












Data Path : Z:\svoasrv\HPCHEM1\BNA P\Data\BP091019\
Data File : BP000183.D
Acq On : 10 Sep 2019 22:39
Operator : HP/JU
Sample : K4634-10
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D28

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

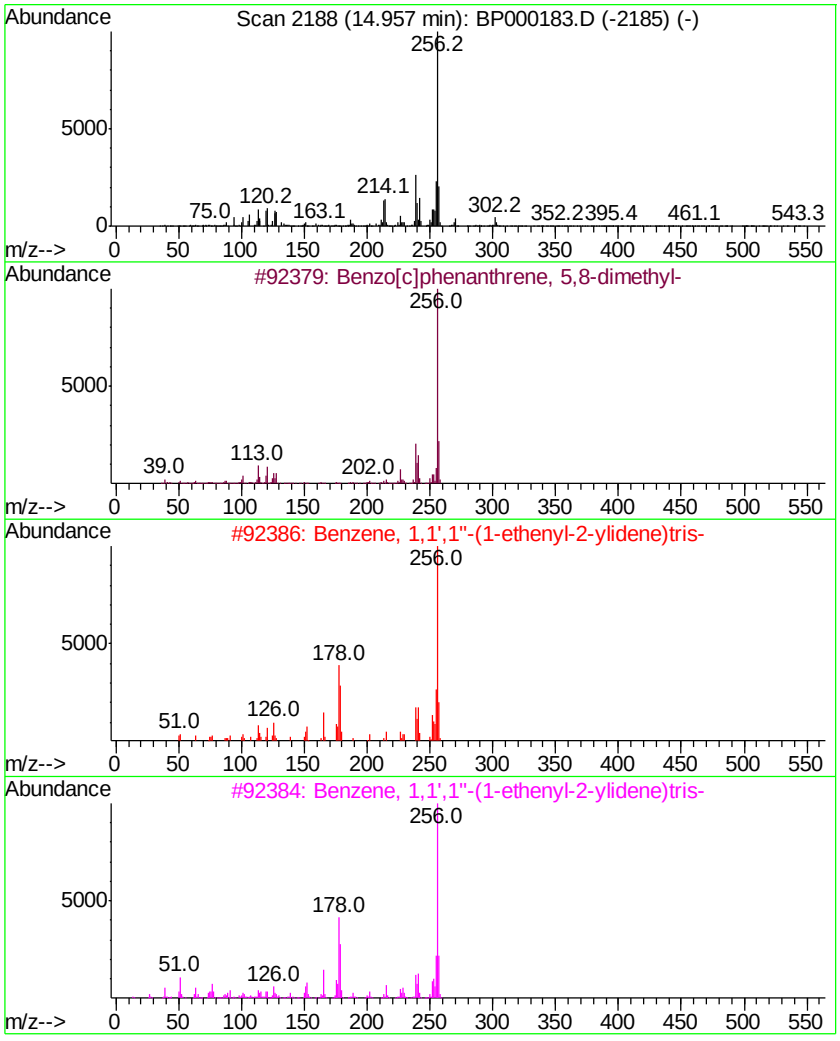
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

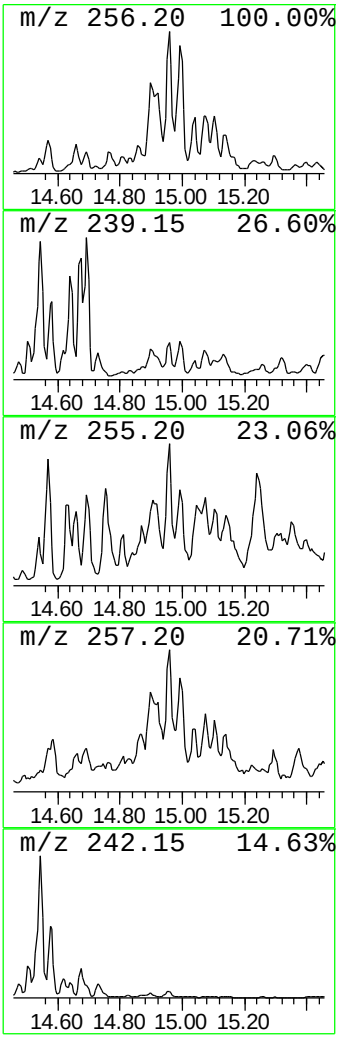
****

Peak Number 17 Benzo[c]phenanthrene, 5,8-d... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.96	2.73 ng/ul	486075	Perylene-d12	15.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[c]phenanthrene, 5,8-dimethyl-	256	C20H16	054986-63-9	93
2	Benzene, 1,1',1''-(1-ethenyl-2-y...	256	C20H16	000058-72-0	81
3	Benzene, 1,1',1''-(1-ethenyl-2-y...	256	C20H16	000058-72-0	74
4	Benz[a]anthracene, 7,12-dimethyl-	256	C20H16	000057-97-6	70
5	2,4-Diamino-5-methyl-6-phenylthi...	256	C13H12N4S	042160-11-2	68





Library Search Compound Report

Data Path : Z:\svoasrv\HPCHEM1\BNA P\Data\BP091019\
Data File : BP000183.D
Acq On : 10 Sep 2019 22:39
Operator : HP/JU
Sample : K4634-10
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D28

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

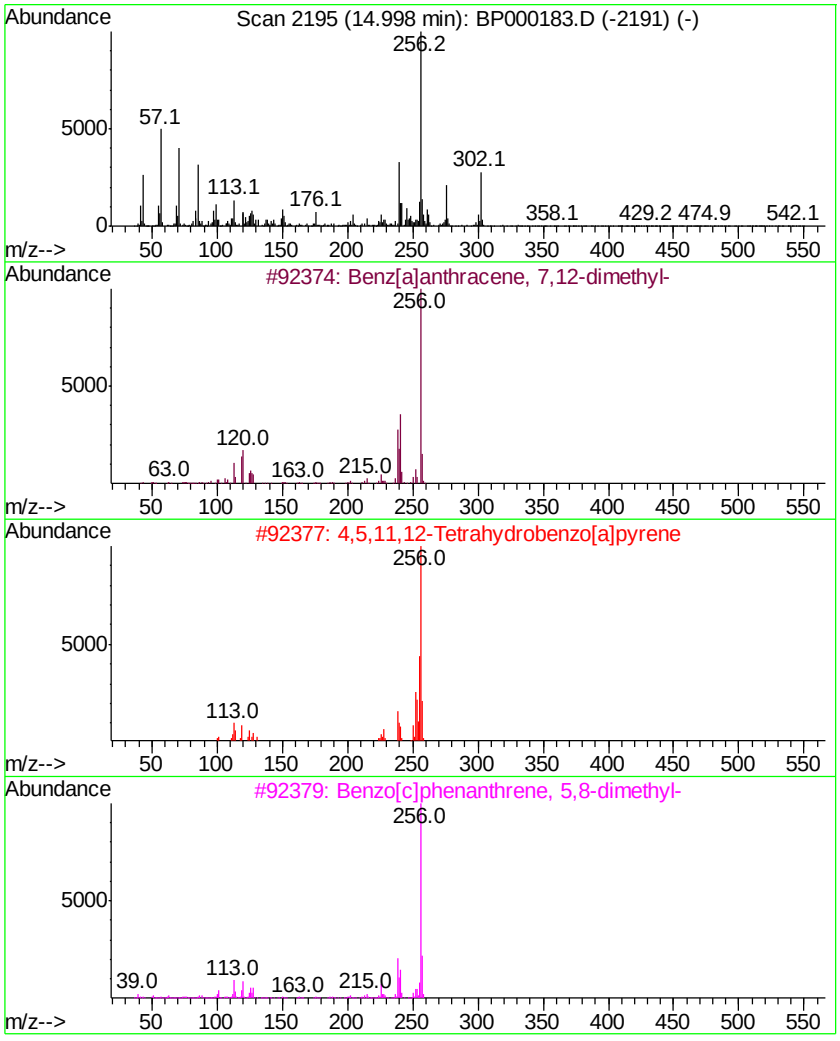
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

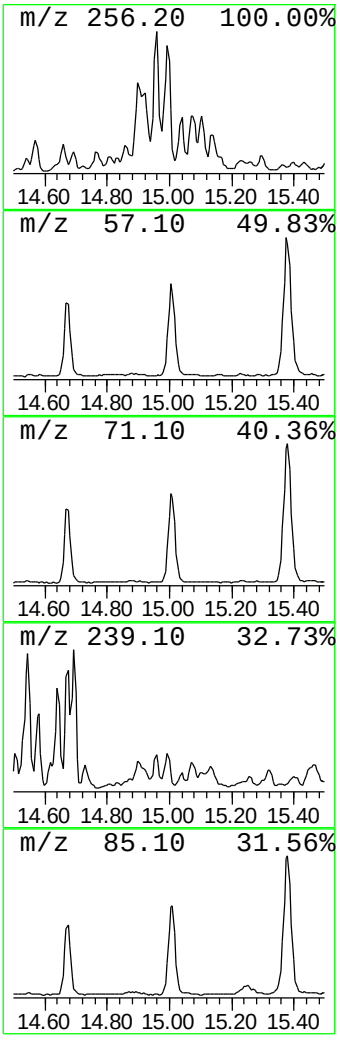
****

Peak Number 18 Benz[a]anthracene, 7,12-dim... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.00	5.61 ng/ul	997066	Perylene-d12	15.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz[a]anthracene, 7,12-dimethyl-	256	C20H16	000057-97-6	50
2	4,5,11,12-Tetrahydrobenzo[a]pyrene	256	C20H16	109292-58-2	49
3	Benzo[c]phenanthrene, 5,8-dimethyl-	256	C20H16	054986-63-9	42
4	8,9,10,11-Tetrahydrobenzo[k]fluo...	256	C20H16	033942-81-3	38
5	Methanone, bis(3-methoxyphenyl)-...	256	C15H16N2O2	067437-15-4	35





Library Search Compound Report

Data Path : Z:\svoasrv\HPCHEM1\BNA P\Data\BP091019\
Data File : BP000183.D
Acq On : 10 Sep 2019 22:39
Operator : HP/JU
Sample : K4634-10
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D28

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

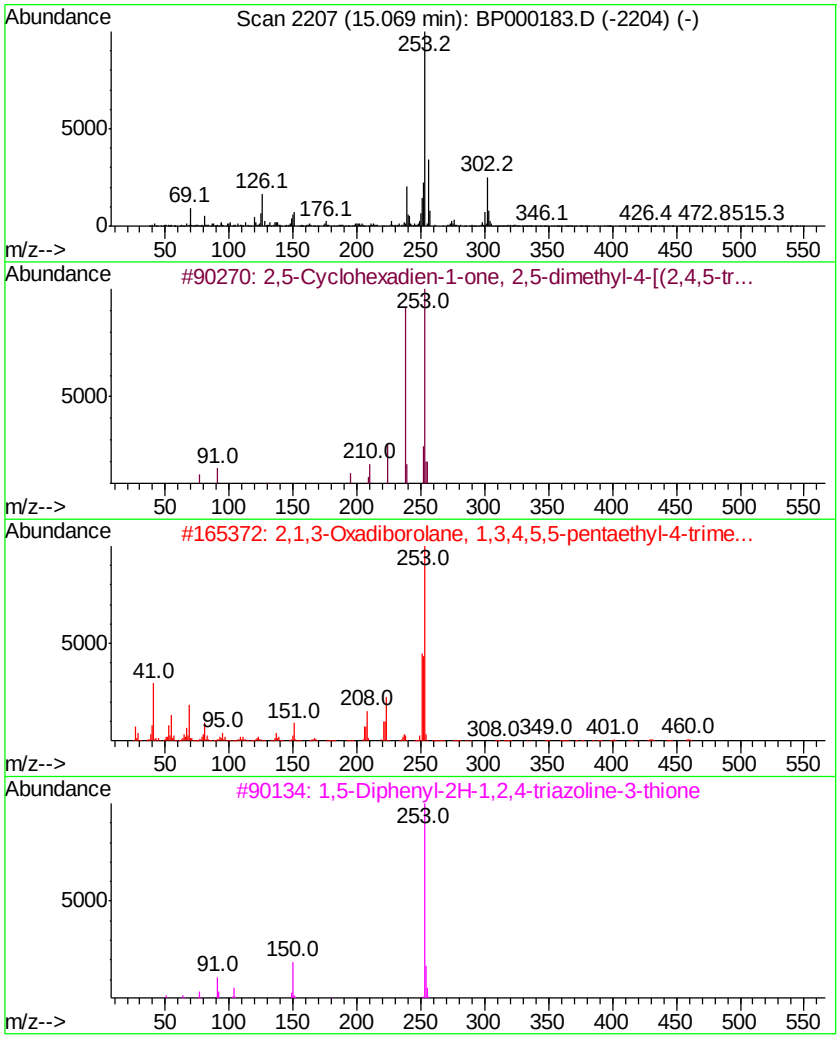
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

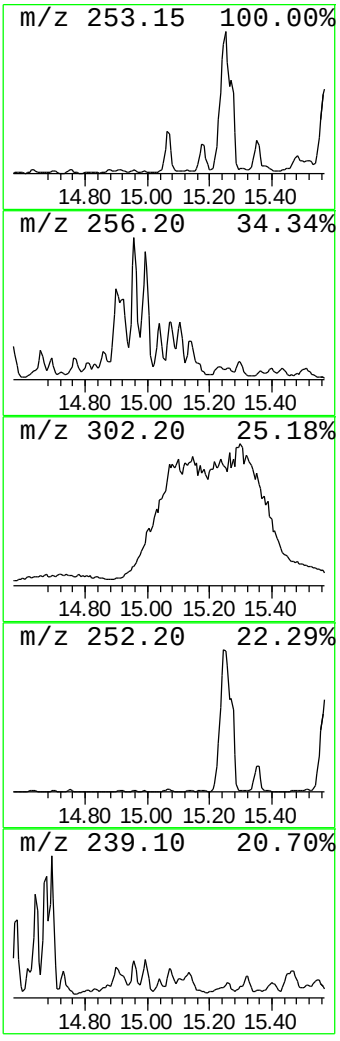
****

Peak Number 19 unknown-01 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.07	3.20 ng/ul	568635	Perylene-d12	15.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,5-Cyclohexadien-1-one, 2,5-dim...	253	C17H19NO	054245-93-1	9
2	2,1,3-Oxadiborolane, 1,3,4,5,5-p...	460	C15H34B2OPb	161423-23-0	8
3	1,5-Diphenyl-2H-1,2,4-triazoline...	253	C14H11N3S	005055-74-3	5
4	Triamterene	253	C12H11N7	000396-01-0	4
5	1,3-Diphenyl-4H-1,2,4-triazoline...	253	C14H11N3S	005055-73-2	4





Data Path : Z:\svoasrv\HPCHEM1\BNA P\Data\BP091019\
Data File : BP000183.D
Acq On : 10 Sep 2019 22:39
Operator : HP/JU
Sample : K4634-10
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D28

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

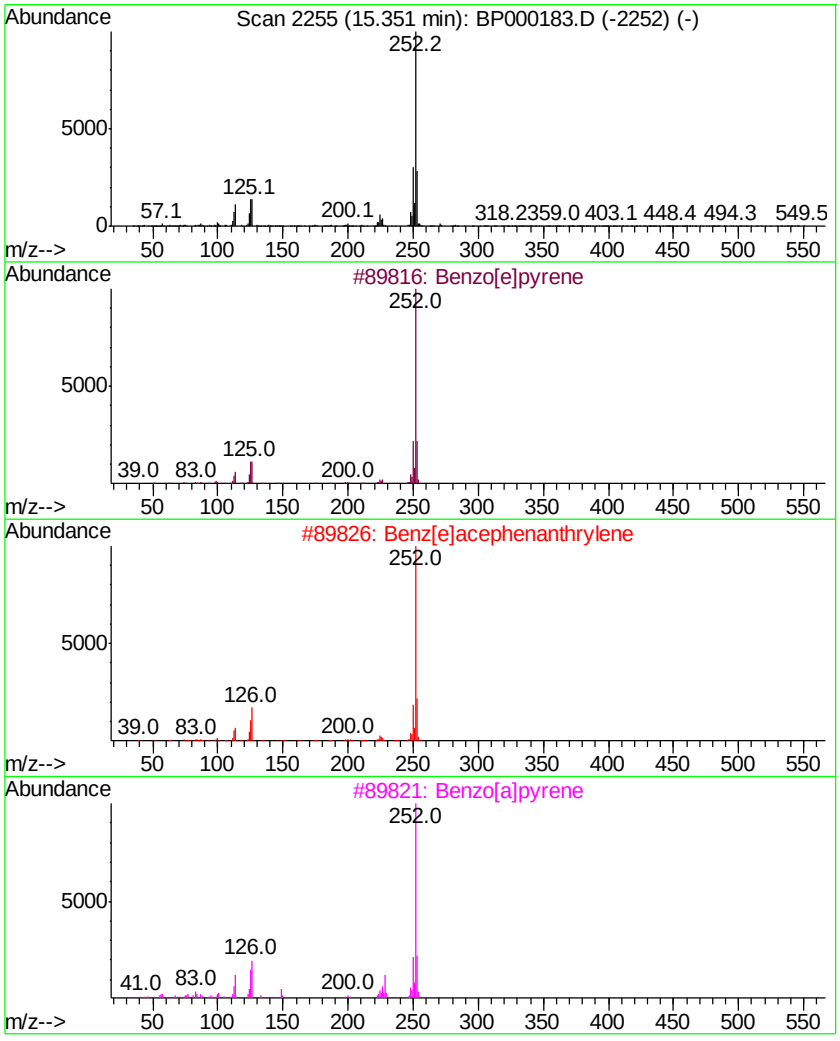
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

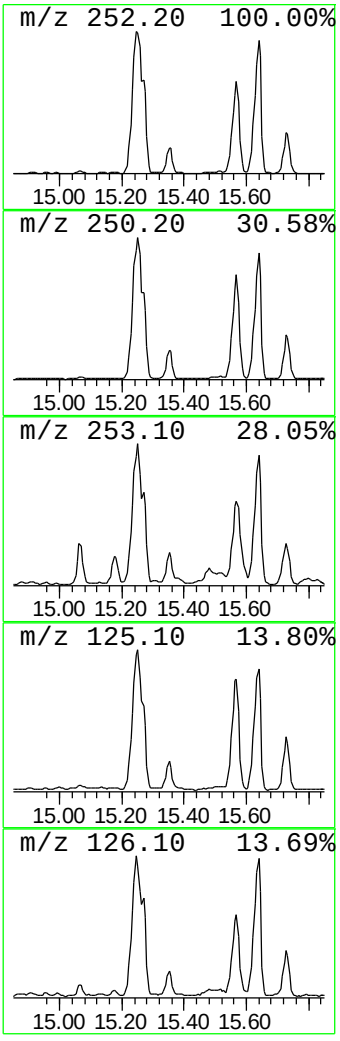
****

Peak Number 20 Benzo[e]pyrene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.35	6.31 ng/ul	1121510	Perylene-d12	15.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	93
2	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
3	Benzo[a]pyrene	252	C20H12	000050-32-8	91
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	90
5	Benzo[a]pyrene	252	C20H12	000050-32-8	87





Library Search Compound Report

Data Path : Z:\svoasrv\HPCHEM1\BNA P\Data\BP091019\
Data File : BP000183.D
Acq On : 10 Sep 2019 22:39
Operator : HP/JU
Sample : K4634-10
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D28

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

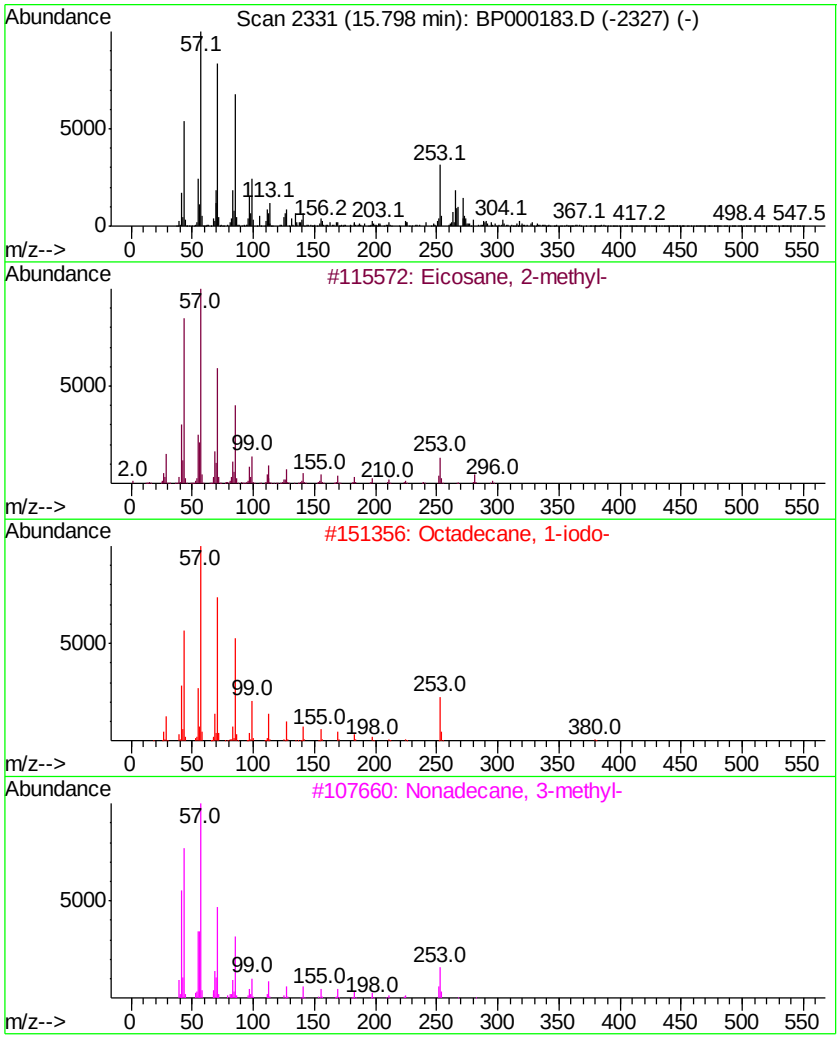
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

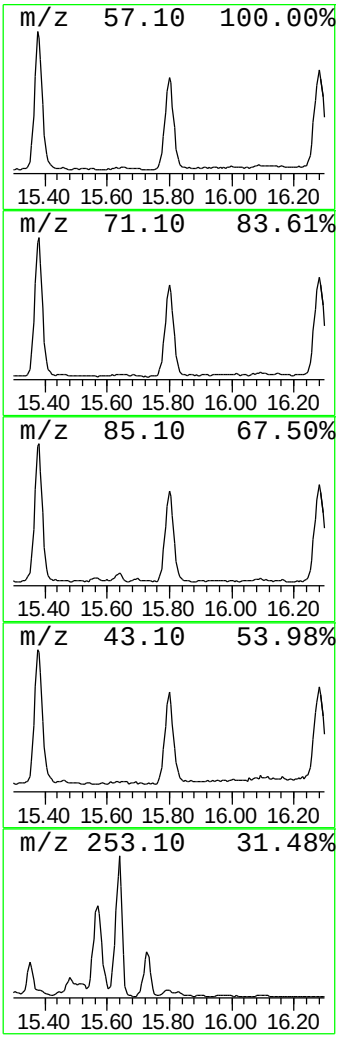
****

Peak Number 21 (DEL) Alkane: Straight-Chai... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.80	6.40 ng/ul	1137780	Perylene-d12	15.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Eicosane, 2-methyl-	296	C21H44	001560-84-5	70
2	Octadecane, 1-iodo-	380	C18H37I	000629-93-6	49
3	Nonadecane, 3-methyl-	282	C20H42	006418-45-7	35
4	Cyclohexane-1-carboxylic acid, 3...	324	C17H24O6	138972-20-0	30
5	Eicosane, 3-methyl-	296	C21H44	006418-46-8	25





Data Path : Z:\svoasrv\HPCHEM1\BNA P\Data\BP091019\
Data File : BP000183.D
Acq On : 10 Sep 2019 22:39
Operator : HP/JU
Sample : K4634-10
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D28

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

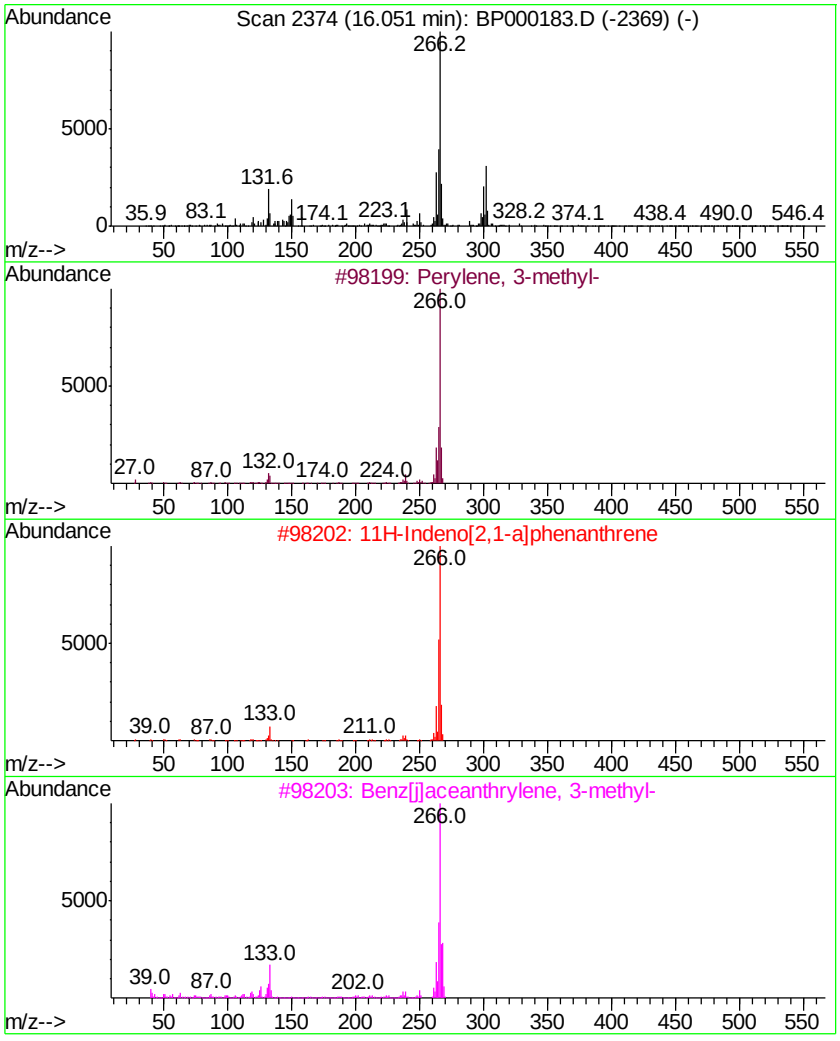
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

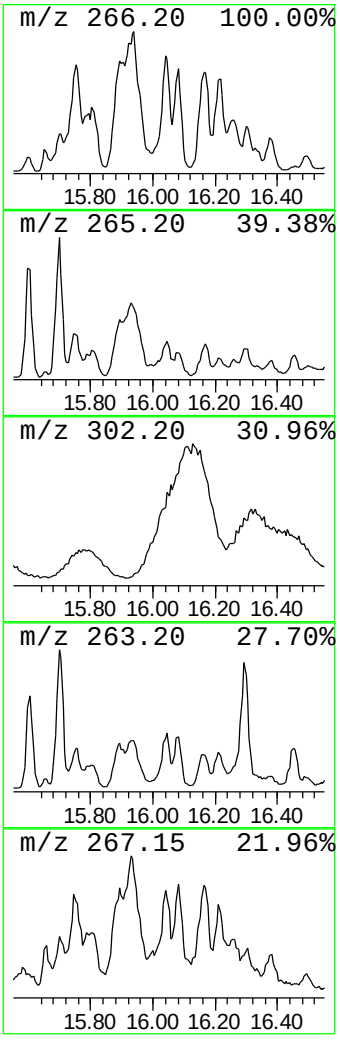
****

Peak Number 22 Perylene, 3-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.05	2.70 ng/ul	479844	Perylene-d12	15.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Perylene, 3-methyl-	266	C21H14	024471-47-4	90
2	11H-Indeno[2,1-a]phenanthrene	266	C21H14	000220-97-3	64
3	Benz[j]aceanthrylene, 3-methyl-	266	C21H14	003343-10-0	55
4	Benzo[1,2-b:4,3-b']dithiophene, ...	266	C16H10S2	016587-58-9	50
5	8H-Indeno[2,1-b]phenanthrene	266	C21H14	000241-28-1	49





Data Path : Z:\svoasrv\HPCHEM1\BNA P\Data\BP091019\
Data File : BP000183.D
Acq On : 10 Sep 2019 22:39
Operator : HP/JU
Sample : K4634-10
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D28

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

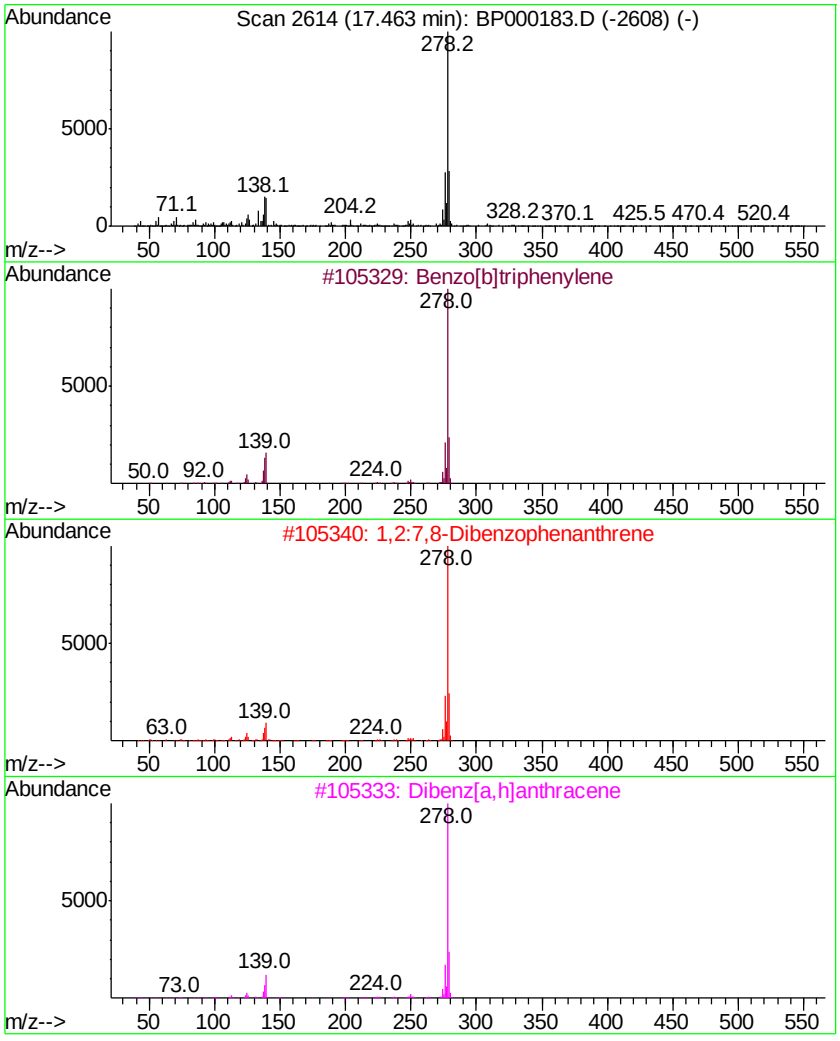
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

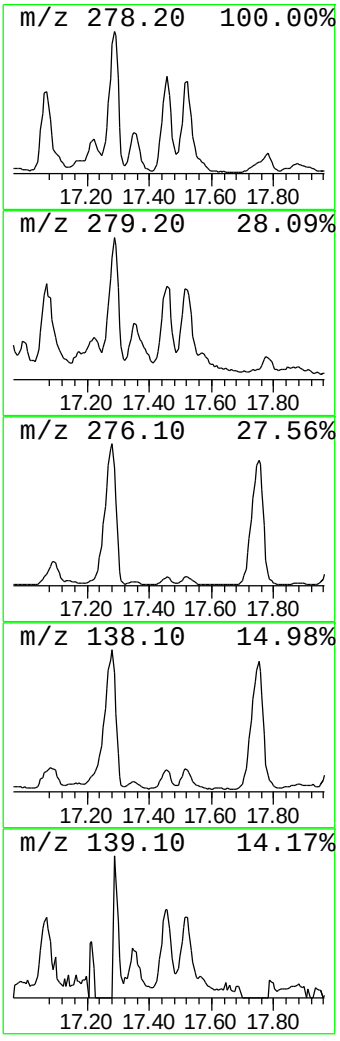
****

Peak Number 23 Benzo[b]triphenylene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.46	6.39 ng/ul	1135920	Perylene-d12	15.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]triphenylene	278	C22H14	000215-58-7	98
2	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	97
3	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	96
4	Benzo[b]chrysene	278	C22H14	000214-17-5	96
5	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	95





Tentatively Identified Compound (LSC) summary

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP091019\
Data File : BP000183.D
Acq On : 10 Sep 2019 22:39
Operator : HP/JU
Sample : K4634-10
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D28

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Butane, 2-methoxy...	2.18	165.5	ng/ul	21037700	1	6.89	2542270	20.0
Phenanthrene, 2-m...	11.96	3.5	ng/ul	684903	4	11.45	3965510	20.0
Phenanthrene, 1-m...	11.99	8.2	ng/ul	1627250	4	11.45	3965510	20.0
4H-Cyclopenta[def...	12.07	6.6	ng/ul	1310100	4	11.45	3965510	20.0
2-Phenylnaphthalene	12.26	2.4	ng/ul	484373	4	11.45	3965510	20.0
9,10-Anthracenedione	12.28	2.6	ng/ul	520203	4	11.45	3965510	20.0
Phenanthrene, 2,5...	12.52	2.1	ng/ul	425997	4	11.45	3965510	20.0
Cyclopenta(def)ph...	12.60	2.2	ng/ul	436832	4	11.45	3965510	20.0
11H-Benzo[b]fluorene	13.25	2.8	ng/ul	1821070	5	14.15	12918000	20.0
Pyrene, 1-methyl-	13.36	2.3	ng/ul	1503520	5	14.15	12918000	20.0
11H-Benzo[a]fluor...	13.77	2.3	ng/ul	1460990	5	14.15	12918000	20.0
Benzo[b]naphtho[2...	13.89	3.4	ng/ul	2208010	5	14.15	12918000	20.0
Cyclopenta(cd)pyr...	14.25	2.4	ng/ul	1533260	5	14.15	12918000	20.0
7H-Benzo[c]carbazole	14.37	2.1	ng/ul	1359220	5	14.15	12918000	20.0
Chrysene, 1-methyl-	14.55	3.8	ng/ul	2422430	5	14.15	12918000	20.0
Cyclohexane, hexa...	14.67	2.1	ng/ul	1377890	5	14.15	12918000	20.0
Benzo[c]phenanthr...	14.96	2.7	ng/ul	486075	6	15.70	3556960	20.0
Benz[a]anthracene...	15.00	5.6	ng/ul	997066	6	15.70	3556960	20.0
unknown-01	15.07	3.2	ng/ul	568635	6	15.70	3556960	20.0
Benzo[e]pyrene	15.35	6.3	ng/ul	1121510	6	15.70	3556960	20.0
(DEL) Alkane: Str...	15.80	6.4	ng/ul	1137780	6	15.70	3556960	20.0
Perylene, 3-methyl-	16.05	2.7	ng/ul	479844	6	15.70	3556960	20.0
Benzo[b]triphenylene	17.46	6.4	ng/ul	1135920	6	15.70	3556960	20.0