LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP101819\
Data File : BP000877.D
Acq On : 18 Oct 2019 15:49
Operator : JU
Sample : K5393-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : T-6-D1-D3-(0-46)

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_P\METHODS\8270-BP100119.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	5.369	554	558	577	rVB	2839396	2720399	61.57%	4.569%
2	6.393	728	732	746	rBV	2853521	2991458	67.71%	5.024%
3	6.516	749	753	760	rVB	3579377	3070327	69.49%	5.157%
4	6.740	787	791	794	rBV	1168780	935418	21.17%	1.571%
5	6.899	814	818	821	rBV	2846367	2574688	58.27%	4.324%
6	7.146	856	860	864	rBV	325494	274301	6.21%	0.461%
7	7.281	880	883	884	rBV	1185377	965621	21.86%	1.622%
8	7.299	884	886	889	rVB	2002762	1756894	39.76%	2.951%
9	7.428	905	908	917	rBV	38188	72670	1.64%	0.122%
10	8.022	1005	1009	1012	rBV	1591388	1228368	27.80%	2.063%
11	9.104	1189	1193	1196	rBV	4966262	3988567	90.28%	6.699%
12	9.193	1203	1208	1212	rBV4	36908	65972	1.49%	0.111%
13	9.375	1234	1239	1247	rBV3	30628	62999	1.43%	0.106%
14	9.446	1247	1251	1253	rVV	78123	84141	1.90%	0.141%
15	9.499	1257	1260	1267	rVV	795896	677485	15.33%	1.138%
16	9.557	1267	1270	1276	rVB2	37963	52644	1.19%	0.088%
17	9.646	1282	1285	1291	rVB	98176	83286	1.89%	0.140%
18	9.787	1303	1309	1312	rBV	1818799	1520884	34.42%	2.554%
19	9.816	1312	1314	1318	rVB	173367	142952	3.24%	0.240%
20	9.993	1340	1344	1347	rBV	104664	90595	2.05%	0.152%
21	10.198	1375	1379	1383	rBV3	51999	65548	1.48%	0.110%
22	10.334	1399	1402	1408	rBV	156734	147997	3.35%	0.249%
23	10.404	1408	1414	1416	rBV	53191	70688	1.60%	0.119%
24	10.498	1427	1430	1434	rVB2	67063	85303	1.93%	0.143%
25	10.581	1440	1444	1451	rBV	2986333	2620059	59.30%	4.400%
26	10.716	1463	1467	1473	rVB3	76273	121410	2.75%	0.204%
27	10.893	1492	1497	1499	rBV3	42777	48700	1.10%	0.082%
28	11.087	1528	1530	1534	rVB2	85970	76566	1.73%	0.129%
29	11.146	1535	1540	1543	rVV4	75615	133184	3.01%	0.224%
30	11.181	1543	1546	1553	rVB	105104	132525	3.00%	0.223%
31	11.281	1560	1563	1565	rBV	1584649	1487605	33.67%	2.498%
32	11.310	1565	1568	1571	rVV	1712602	1530496	34.64%	2.570%
33	11.357	1571	1576	1580	rVB	418819	381516	8.64%	0.641%
34	11.398	1580	1583	1586	rBV2	55467	66472	1.50%	0.112%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP101819\
Data File : BP000877.D
Acq On : 18 Oct 2019 15:49
Operator : JU
Sample : K5393-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : T-6-D1-D3-(0-46)

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_P\METHODS\8270-BP100119.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.516	1598	1603	1606	rBV2	123578	152734	3.46%	0.257%
36	11.622	1618	1621	1626	rVB3	79817	84749	1.92%	0.142%
37	11.698	1630	1634	1637	rVB2	34361	54156	1.23%	0.091%
38	11.793	1646	1650	1652	rBV	361735	311194	7.04%	0.523%
39	11.822	1652	1655	1659	rVV	532617	509454	11.53%	0.856%
40	11.869	1659	1663	1665	rVV2	172574	182400	4.13%	0.306%
41	11.904	1665	1669	1671	rVV2	517914	552636	12.51%	0.928%
42	11.928	1671	1673	1678	rVB	290079	236867	5.36%	0.398%
43	12.087	1697	1700	1703	rBV	184858	179259	4.06%	0.301%
44	12.116	1703	1705	1712	rVB2	165193	152522	3.45%	0.256%
45	12.240	1724	1726	1729	rVB	93851	81697	1.85%	0.137%
46	12.275	1729	1732	1734	rBV	87681	66103	1.50%	0.111%
47	12.298	1734	1736	1739	rVB	79836	66595	1.51%	0.112%
48	12.351	1741	1745	1747	rBV	250832	258496	5.85%	0.434%
49	12.387	1747	1751	1753	rVV3	166215	224987	5.09%	0.378%
50	12.434	1756	1759	1764	rVV3	176550	209823	4.75%	0.352%
51	12.510	1768	1772	1776	rVV	2390998	2190492	49.58%	3.679%
52	12.557	1777	1780	1782	rVV	70426	67422	1.53%	0.113%
53	12.575	1782	1783	1787	rVB2	68190	56731	1.28%	0.095%
54	12.745	1806	1812	1814	rBV	2232973	2288140	51.79%	3.843%
55	12.769	1814	1816	1818	rVV2	110497	91226	2.06%	0.153%
56	12.792	1818	1820	1826	rVB2	169608	203334	4.60%	0.341%
57	12.892	1829	1837	1844	rVB	4460071	4418196	100.00%	7.420%
58	12.969	1845	1850	1853	rBV3	190130	287953	6.52%	0.484%
59	13.022	1857	1859	1861	rBV2	50703	52695	1.19%	0.089%
60	13.051	1861	1864	1866	rBV3	156433	186023	4.21%	0.312%
61	13.075	1866	1868	1871	rVB	395906	350529	7.93%	0.589%
62	13.145	1871	1880	1882	rBV2	229383	344459	7.80%	0.579%
63	13.181	1882	1886	1889	rBV	325697	325691	7.37%	0.547%
64	13.275	1899	1902	1905	rBV	213724	174858	3.96%	0.294%
65	13.304	1905	1907	1911	rBV	218156	194709	4.41%	0.327%
66	13.375	1916	1919	1921	rBV3	57156	68809	1.56%	0.116%
67	13.481	1931	1937	1939	rBV4	170272	269415	6.10%	0.452%
68	13.592	1953	1956	1961	rVB	229080	222572	5.04%	0.374%
69	13.704	1971	1975	1977	rBV2	247826	270515	6.12%	0.454%
70	13.728	1977	1979	1982	rVB	189235	154910	3.51%	0.260%
71	13.757	1982	1984	1985	rBV	109966	88910	2.01%	0.149%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP101819\
Data File : BP000877.D
Acq On : 18 Oct 2019 15:49
Operator : JU
Sample : K5393-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : T-6-D1-D3-(0-46)

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_P\METHODS\8270-BP100119.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.810	1990	1993	2001	rVB2	453361	611470	13.84%	1.027%
73	13.957	2010	2018	2021	rBV3	2162914	3373771	76.36%	5.666%
74	13.987	2021	2023	2026	rVB	1066917	838067	18.97%	1.408%
75	14.063	2034	2036	2039	rVB	133412	100269	2.27%	0.168%
76	14.134	2045	2048	2050	rBV3	196405	182004	4.12%	0.306%
77	14.316	2076	2079	2081	rBV	71542	65826	1.49%	0.111%
78	14.351	2082	2085	2088	rVB	299506	253922	5.75%	0.426%
79	14.387	2088	2091	2094	rVB	145670	125328	2.84%	0.210%
80	14.445	2095	2101	2104	rBV4	235907	327002	7.40%	0.549%
81	14.481	2104	2107	2109	rBV	140613	153357	3.47%	0.258%
82	14.751	2150	2153	2156	rBV2	201508	198617	4.50%	0.334%
83	15.010	2192	2197	2200	rBV	1020642	1562203	35.36%	2.624%
84	15.086	2207	2210	2213	rBV	172376	181630	4.11%	0.305%
85	15.116	2213	2215	2218	rVB	164531	146997	3.33%	0.247%
86	15.310	2244	2248	2254	rVB	598656	780348	17.66%	1.311%
87	15.369	2254	2258	2264	rBV	823364	1010146	22.86%	1.697%
88	15.434	2264	2269	2272	rBV	1278048	1516999	34.34%	2.548%
89	15.463	2272	2274	2282	rVB3	327081	444078	10.05%	0.746%
90	15.910	2346	2350	2354	rBV2	81197	116975	2.65%	0.196%
91	16.304	2413	2417	2418	rBV2	70067	97782	2.21%	0.164%
92	16.898	2513	2518	2528	rVB2	394833	777846	17.61%	1.306%
93	17.075	2545	2548	2553	rVB	67014	95395	2.16%	0.160%
94	17.339	2587	2593	2602	rVB	306929	623295	14.11%	1.047%

Sum of corrected areas: 59542326

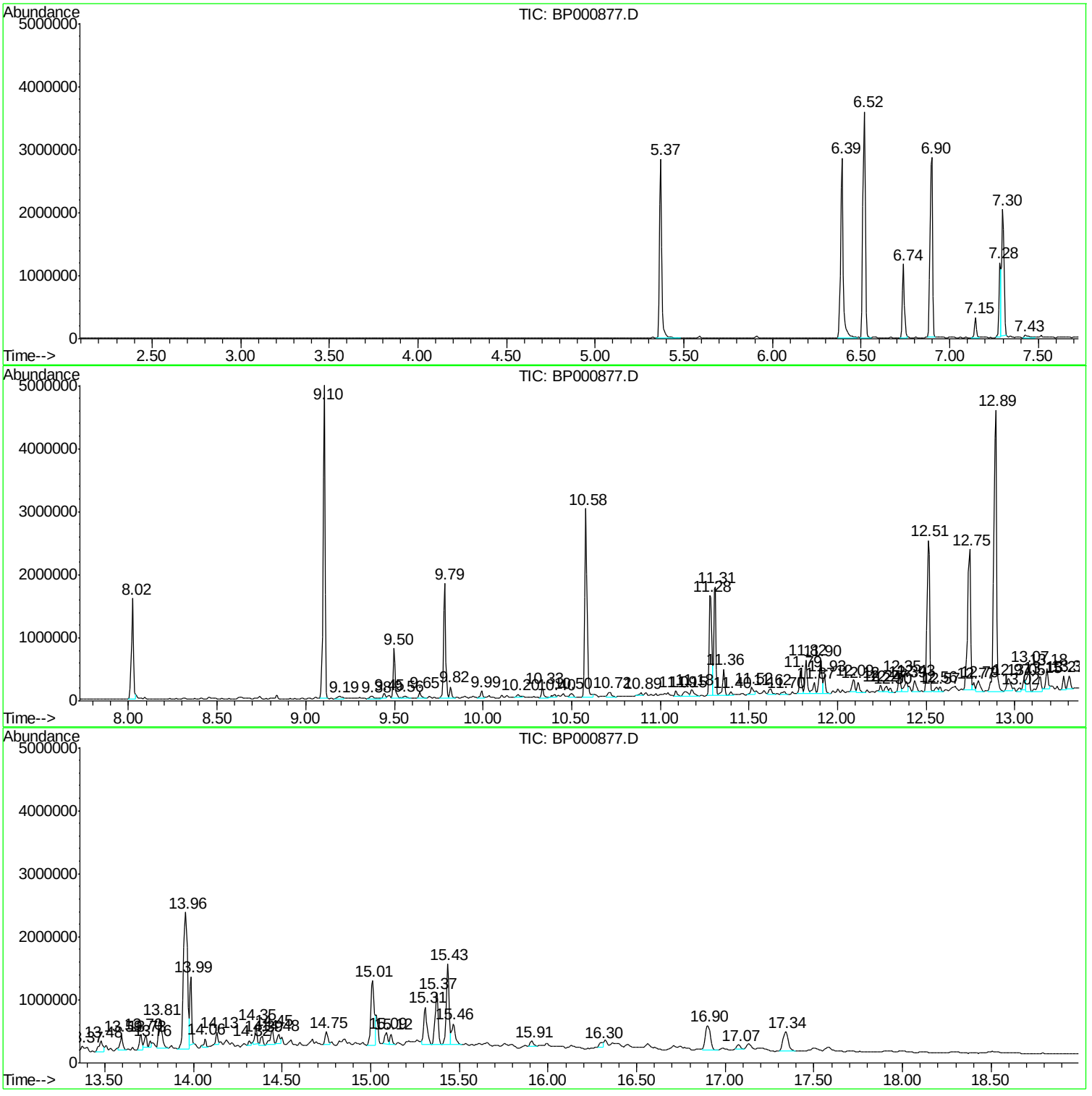
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP101819\
Data File : BP000877.D
Acq On : 18 Oct 2019 15:49
Operator : JU
Sample : K5393-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : T-6-D1-D3-(0-46)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP100119.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 P\DATA\BP101819\
Data File : BP000877.D
Acq On : 18 Oct 2019 15:49
Operator : JU
Sample : K5393-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : T-6-D1-D3-(0-46)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP100119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

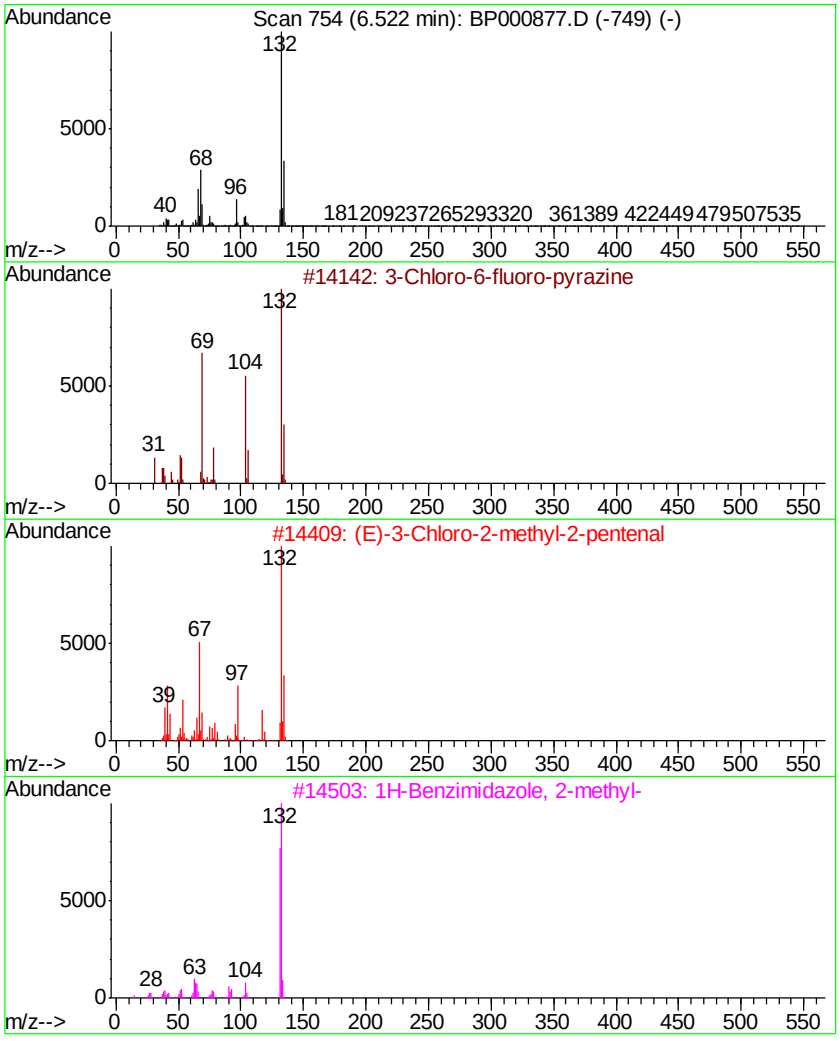
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

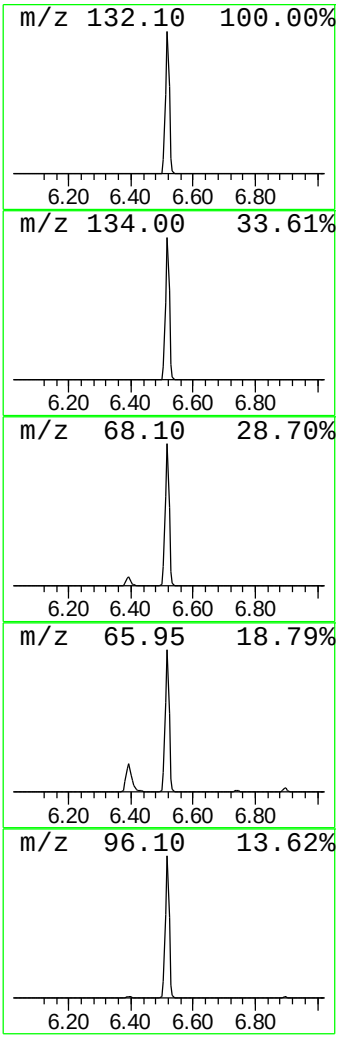
****

Peak Number 1 unknown6.52 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.52	65.65 ng	3070330	1,4-Dichlorobenzene-d4	6.74

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	38
2	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	25
3	1H-Benzimidazole, 2-methyl-	132	C8H8N2	000615-15-6	12
4	(5-Methyl-2-pyridyl)acetonitrile	132	C8H8N2	1000241-93-9	9
5	1-Methylpyrrolo[1,2-a]pyrazine	132	C8H8N2	064608-59-9	9





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP101819\
Data File : BP000877.D
Acq On : 18 Oct 2019 15:49
Operator : JU
Sample : K5393-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : T-6-D1-D3-(0-46)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP100119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

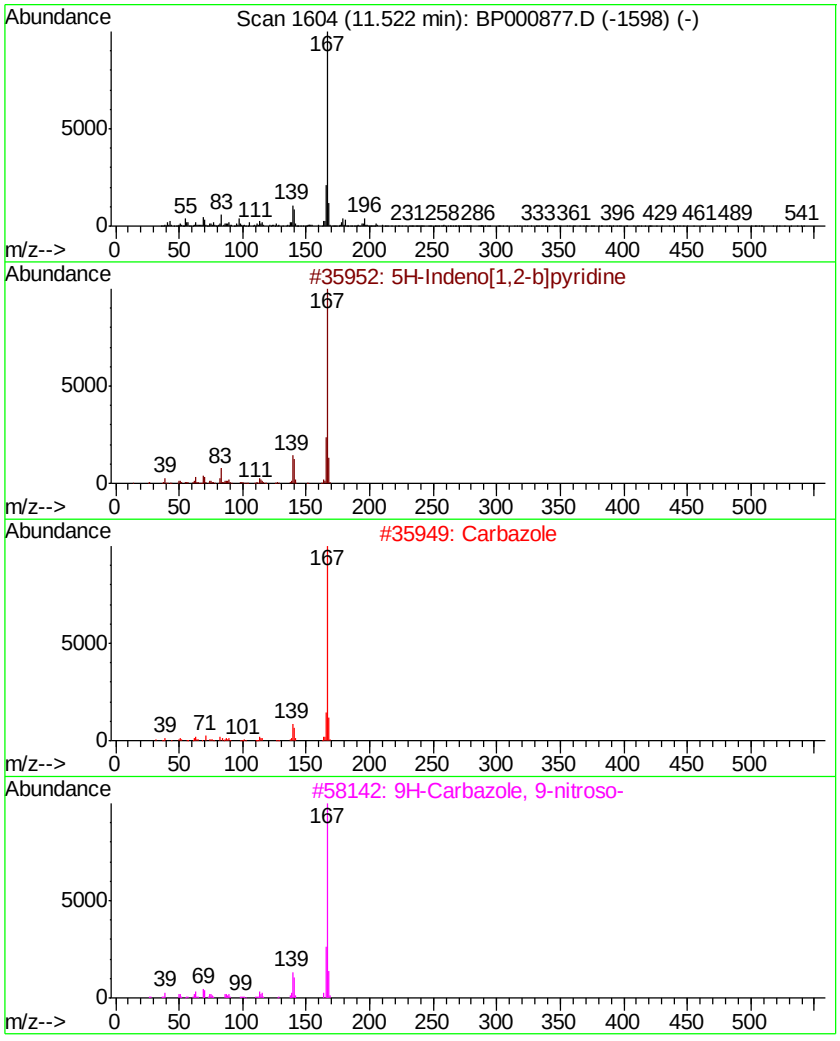
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

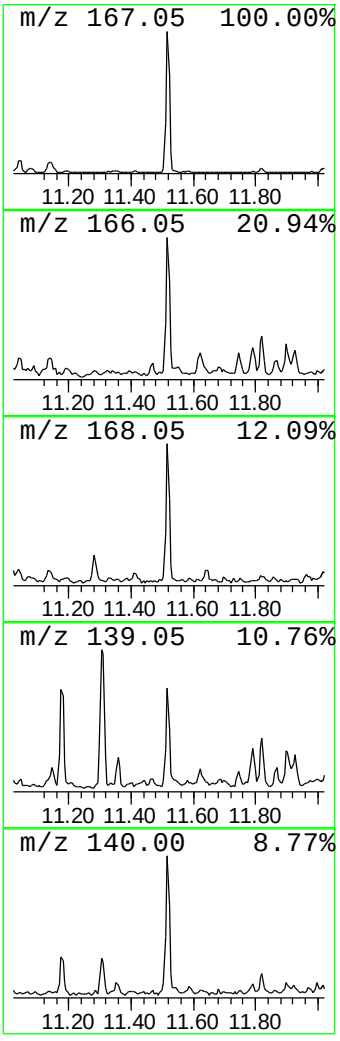
****

Peak Number 3 5H-Indeno[1,2-b]pyridine Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.52	2.05 ng	152734	Phenanthrene-d10	11.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5H-Indeno[1,2-b]pyridine	167	C12H9N	000244-99-5	95
2	Carbazole	167	C12H9N	000086-74-8	93
3	9H-Carbazole, 9-nitroso-	196	C12H8N2O	002788-23-0	83
4	D-Galactitol, 2-(acetylmethylami...	363	C16H29NO8	074410-42-7	83
5	1H-Benzotriazole, 1-phenyl-	195	C12H9N3	000883-39-6	72





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP101819\
Data File : BP000877.D
Acq On : 18 Oct 2019 15:49
Operator : JU
Sample : K5393-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : T-6-D1-D3-(0-46)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP100119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

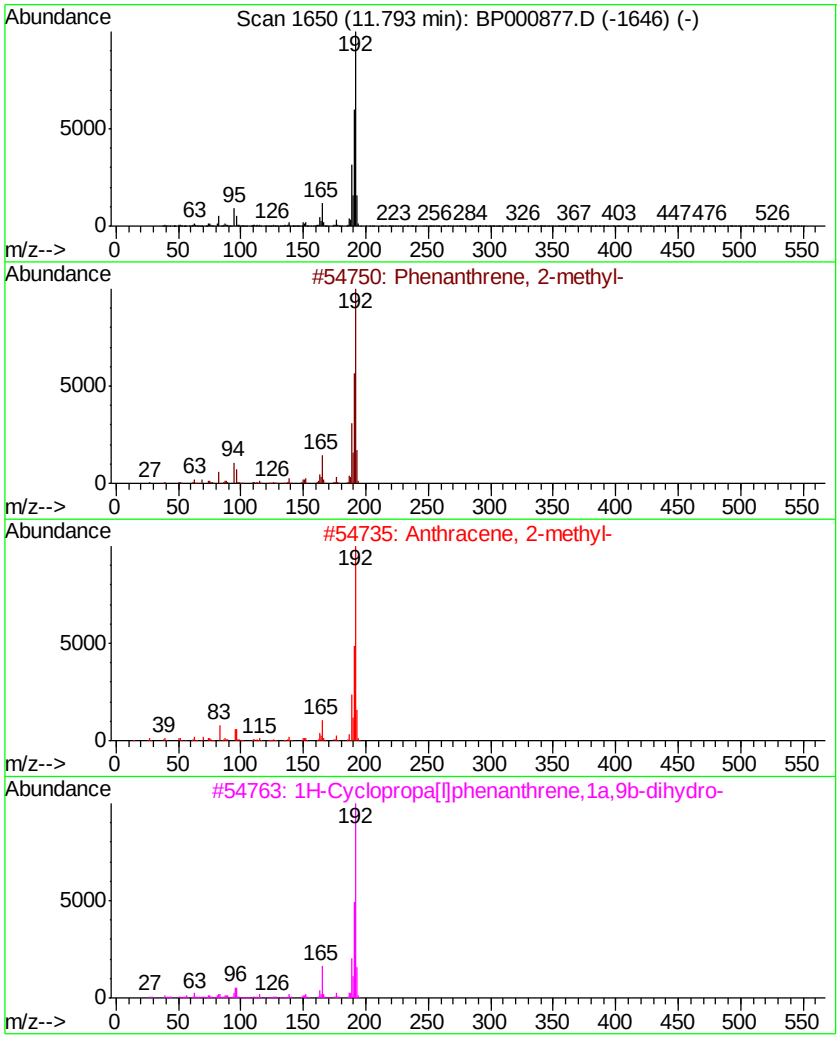
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

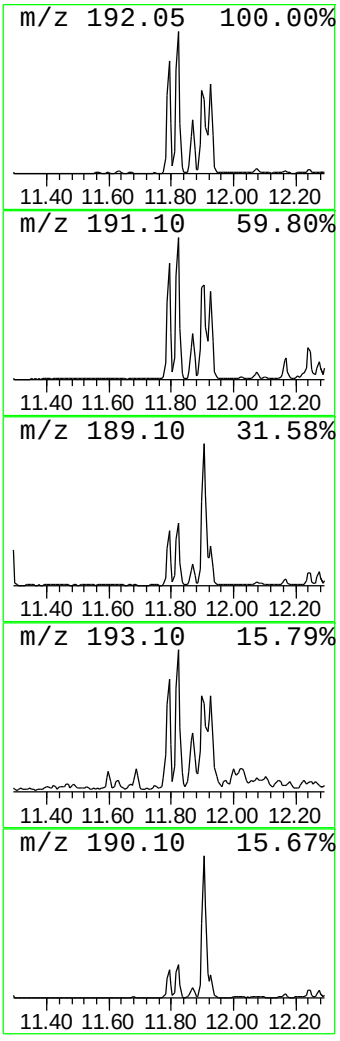
****

Peak Number 4 Phenanthrene, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.79	4.18 ng	311194	Phenanthrene-d10	11.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
5	1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	94





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP101819\
Data File : BP000877.D
Acq On : 18 Oct 2019 15:49
Operator : JU
Sample : K5393-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : T-6-D1-D3-(0-46)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP100119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

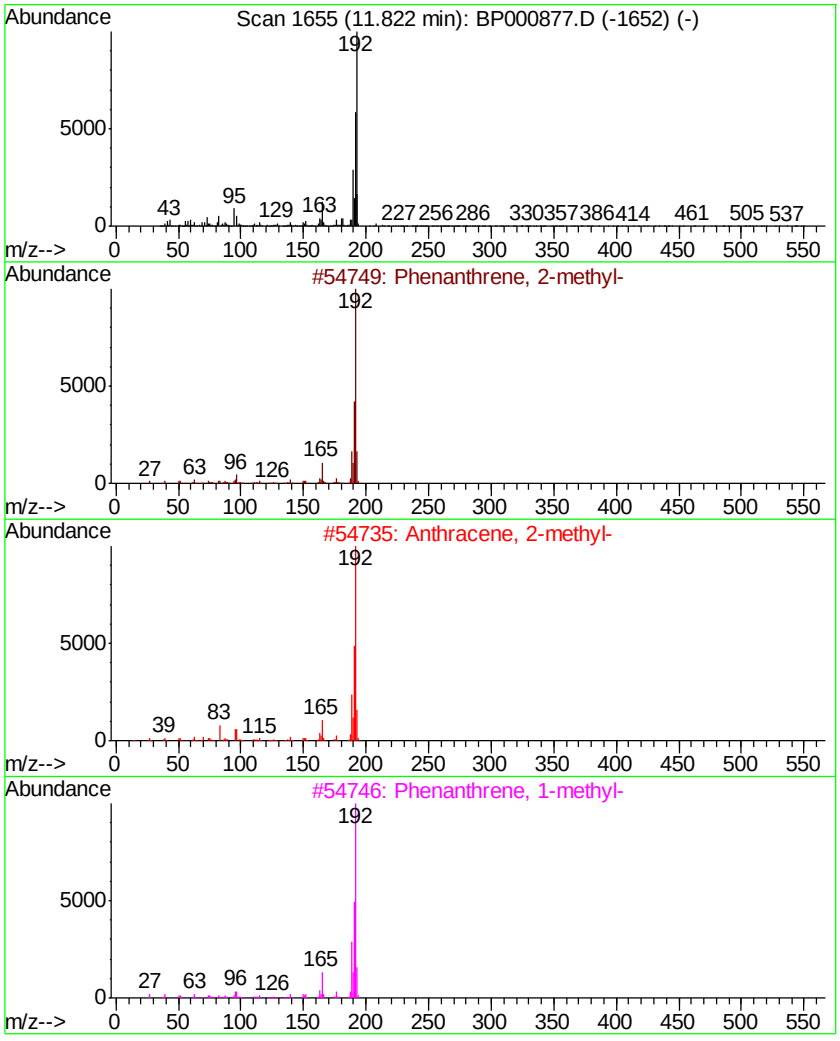
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

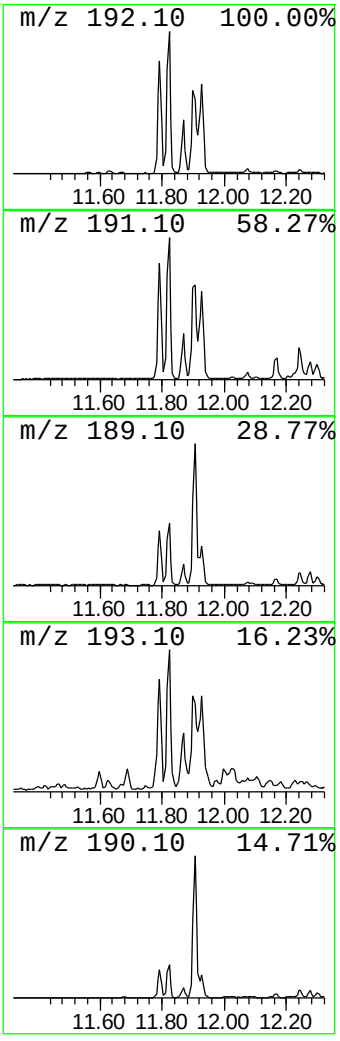
****

Peak Number 5 Anthracene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.82	6.85 ng	509454	Phenanthrene-d10	11.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	97
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
4	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	95
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP101819\
Data File : BP000877.D
Acq On : 18 Oct 2019 15:49
Operator : JU
Sample : K5393-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : T-6-D1-D3-(0-46)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP100119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

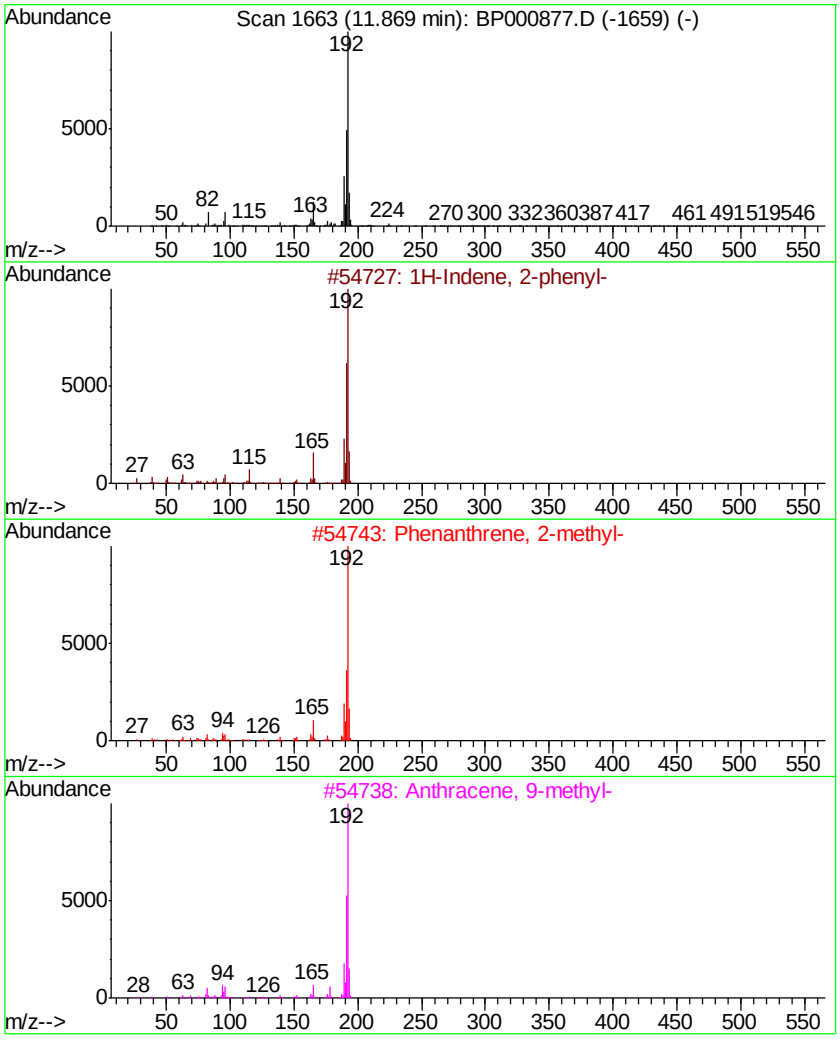
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

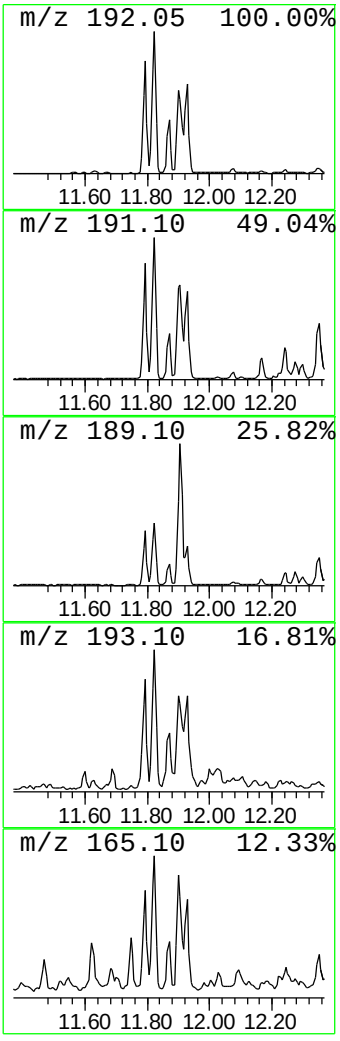
****

Peak Number 6 1H-Indene, 2-phenyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.87	2.45 ng	182400	Phenanthrene-d10	11.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	94
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	91





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP101819\
Data File : BP000877.D
Acq On : 18 Oct 2019 15:49
Operator : JU
Sample : K5393-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : T-6-D1-D3-(0-46)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP100119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

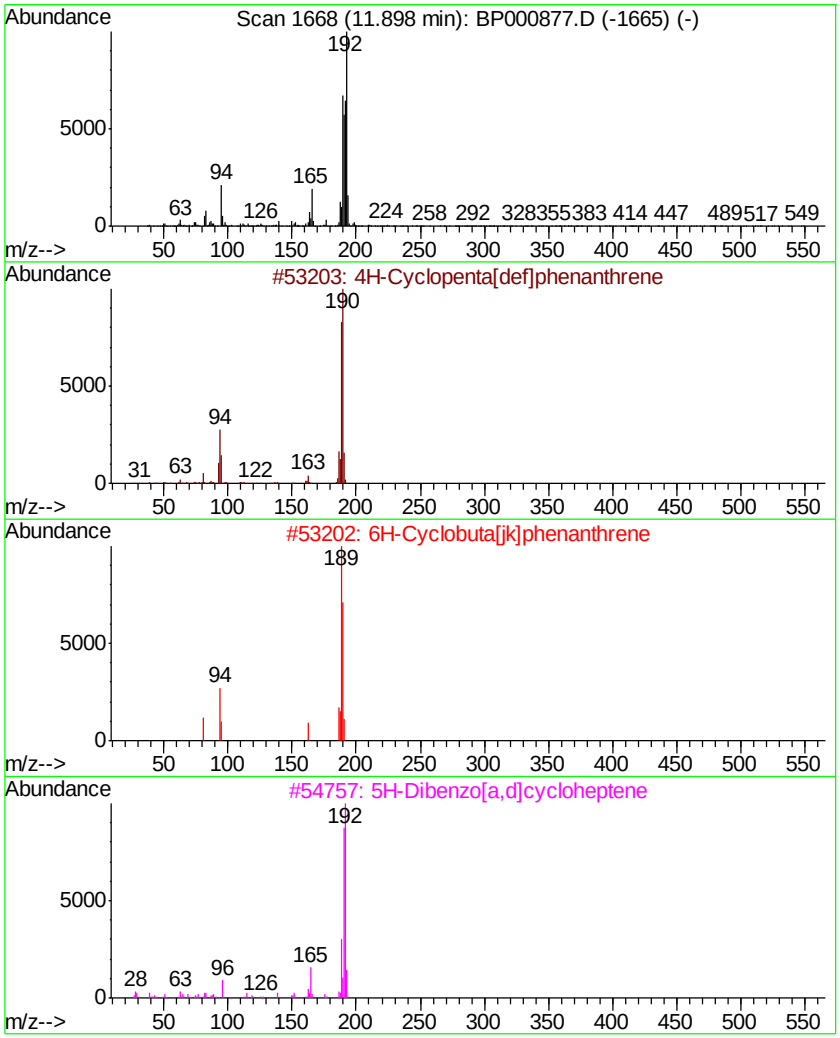
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

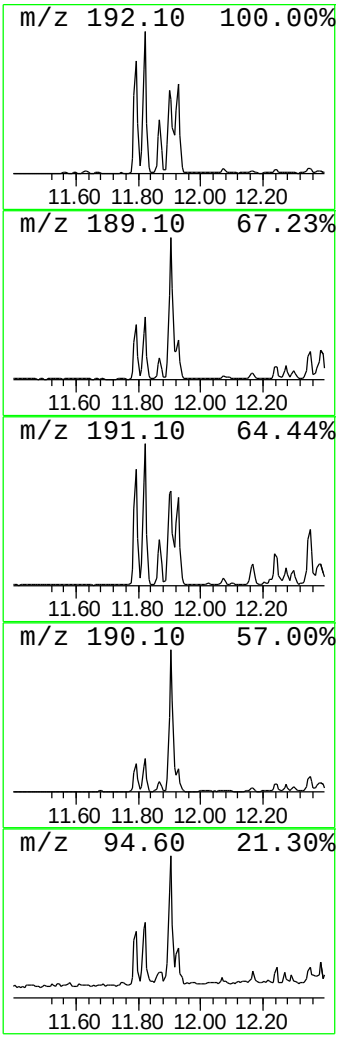
****

Peak Number 7 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.90	7.43 ng	552636	Phenanthrene-d10	11.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	90
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	49
3	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	42
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	38
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	38





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP101819\
Data File : BP000877.D
Acq On : 18 Oct 2019 15:49
Operator : JU
Sample : K5393-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : T-6-D1-D3-(0-46)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP100119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

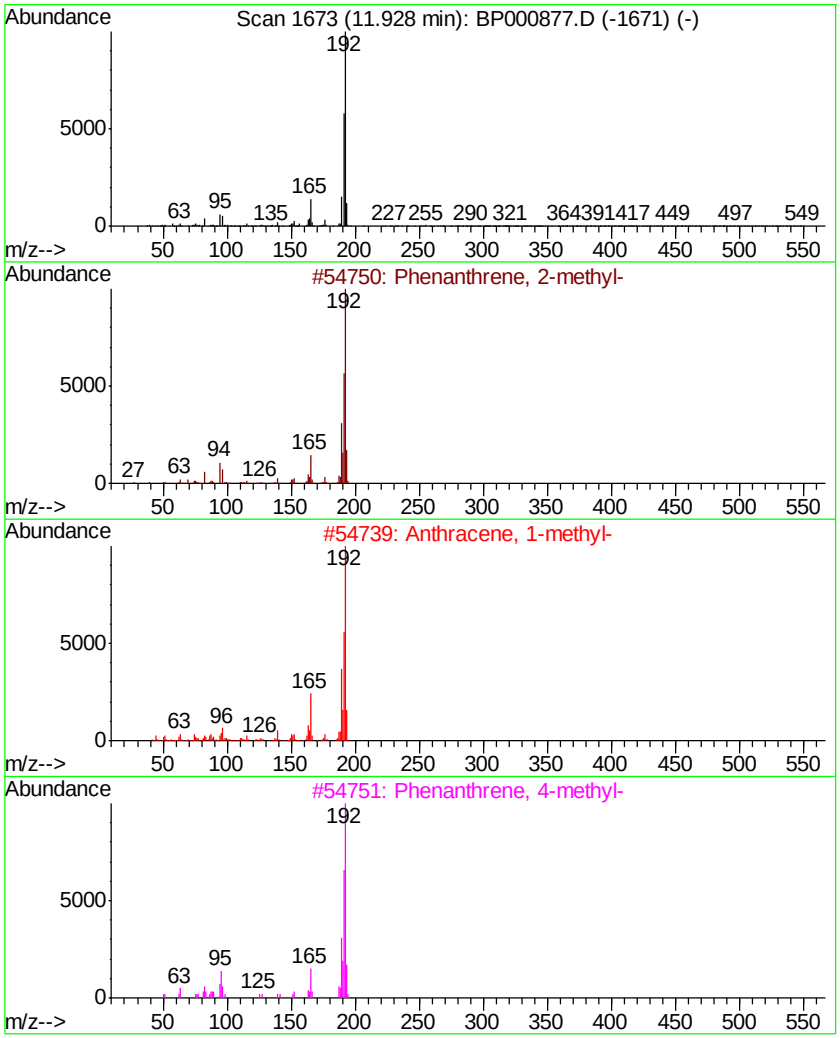
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

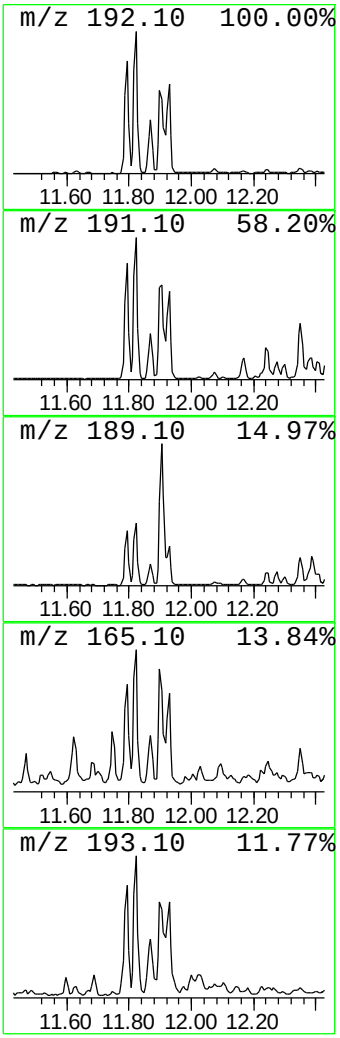
****

Peak Number 8 Anthracene, 1-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.93	3.18 ng	236867	Phenanthrene-d10	11.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	87
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	87
3	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	87
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	86
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	83





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP101819\
Data File : BP000877.D
Acq On : 18 Oct 2019 15:49
Operator : JU
Sample : K5393-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : T-6-D1-D3-(0-46)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP100119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

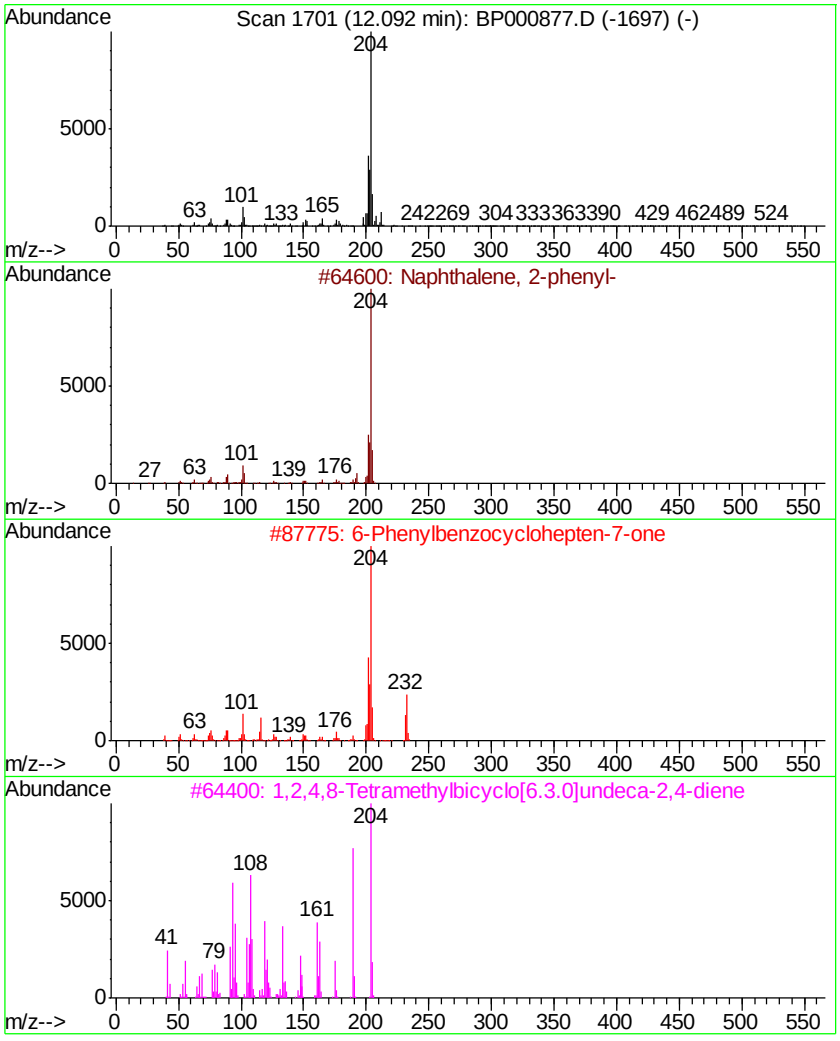
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

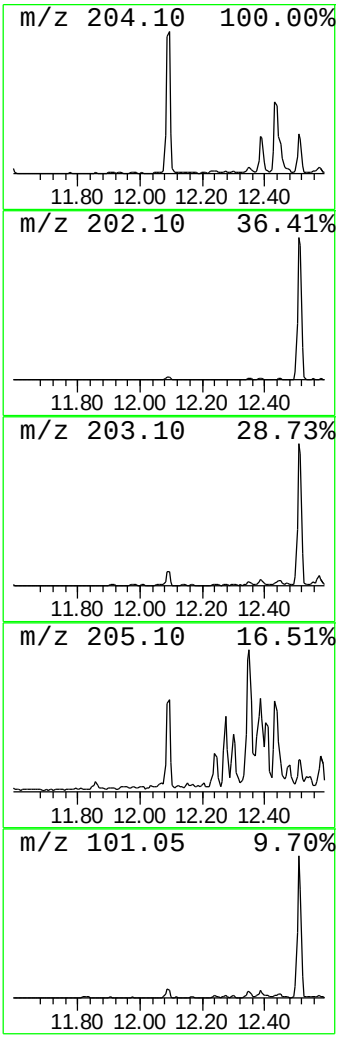
****

Peak Number 9 Naphthalene, 2-phenyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.09	2.41 ng	179259	Phenanthrene-d10	11.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	89
2	6-Phenylbenzocyclohepten-7-one	232	C17H12O	093327-56-1	86
3	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	83
4	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	80
5	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	64





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP101819\
Data File : BP000877.D
Acq On : 18 Oct 2019 15:49
Operator : JU
Sample : K5393-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : T-6-D1-D3-(0-46)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP100119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

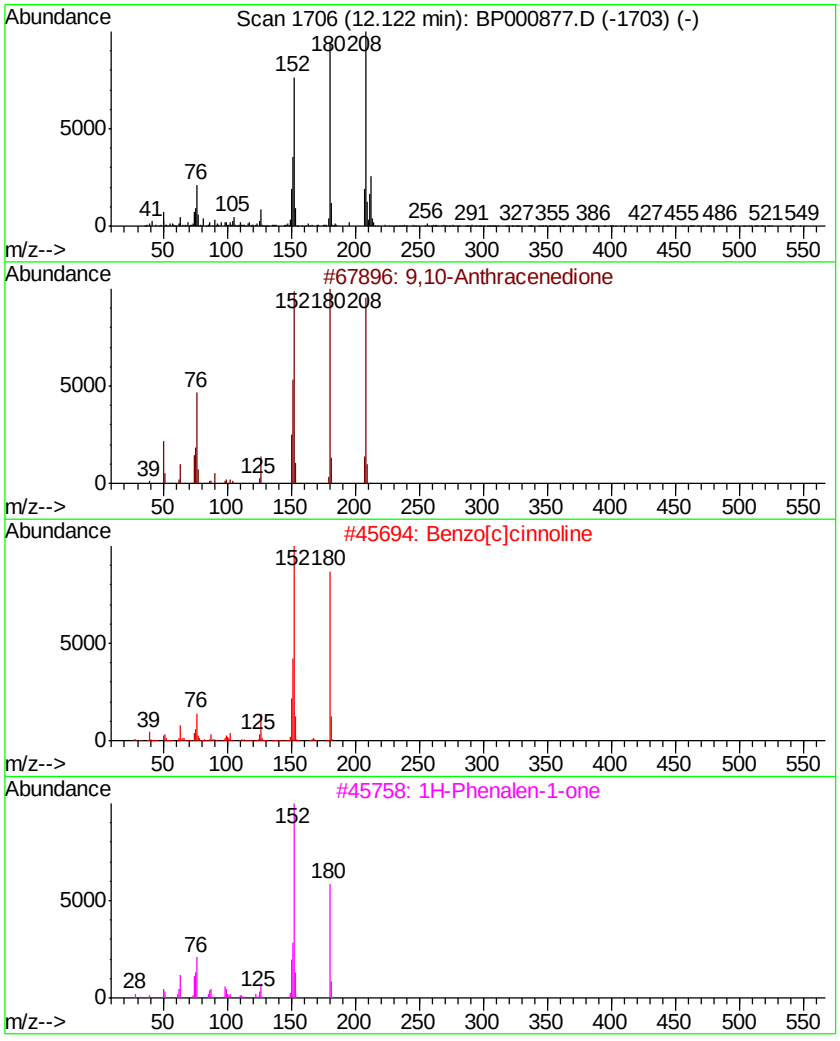
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

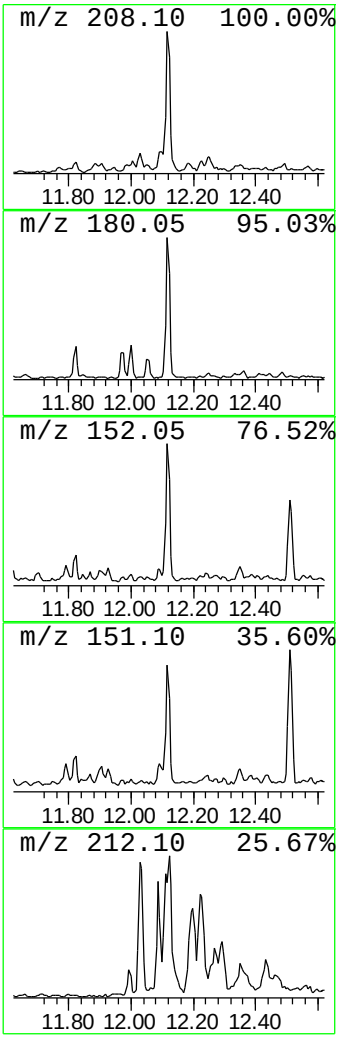
****

Peak Number 10 9,10-Anthracenedione Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.12	2.05 ng	152522	Phenanthrene-d10	11.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	98
2	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	64
3	1H-Phenalen-1-one	180	C13H8O	000548-39-0	60
4	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	58
5	1,4-Anthracenedione	208	C14H8O2	000635-12-1	52





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP101819\
Data File : BP000877.D
Acq On : 18 Oct 2019 15:49
Operator : JU
Sample : K5393-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : T-6-D1-D3-(0-46)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP100119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

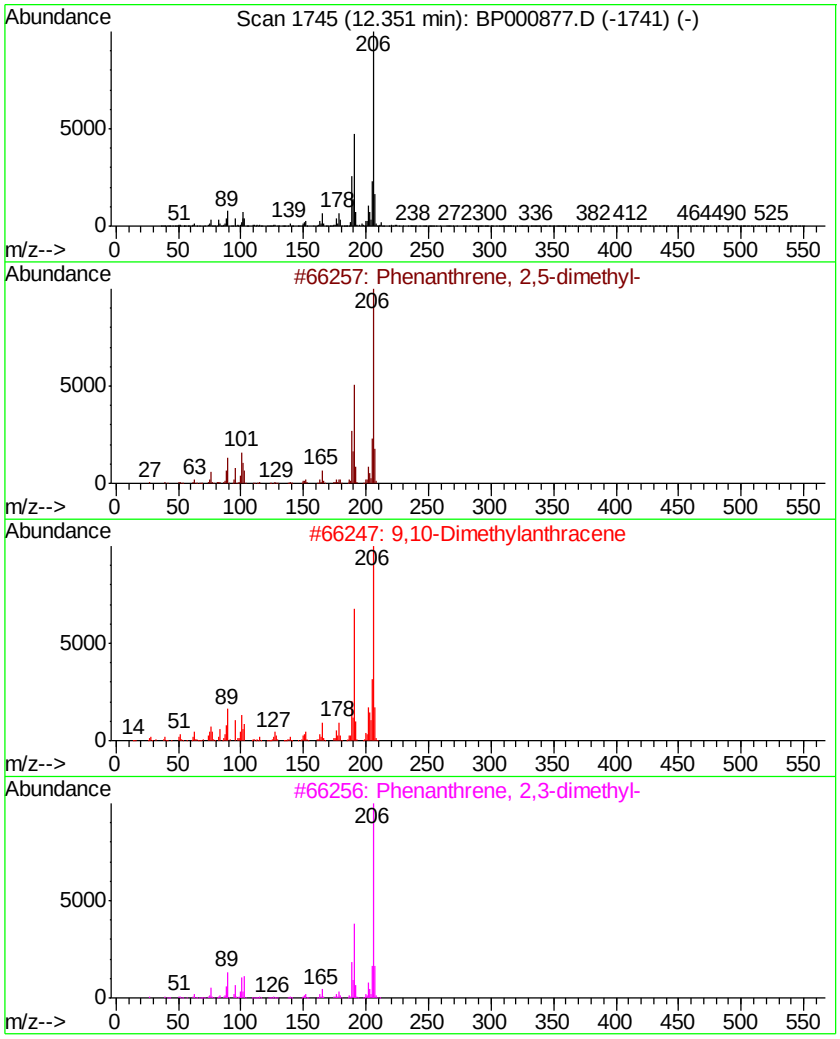
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

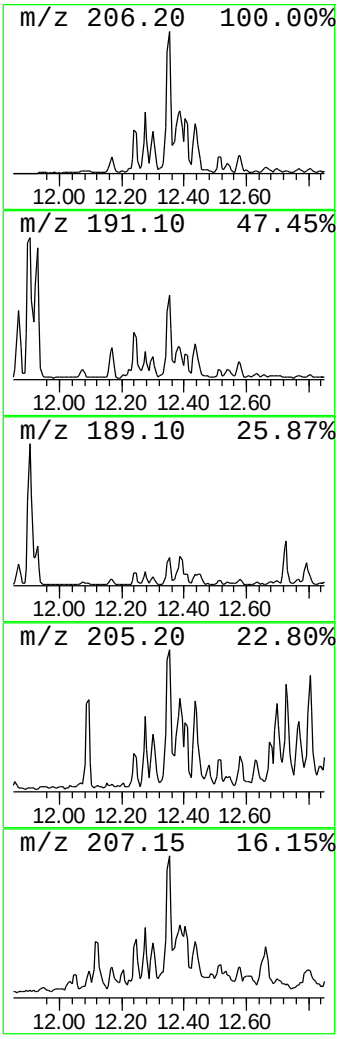
****

Peak Number 11 Phenanthrene, 2,5-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.35	3.48 ng	258496	Phenanthrene-d10	11.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	97
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	91
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	90
5	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	86





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP101819\
Data File : BP000877.D
Acq On : 18 Oct 2019 15:49
Operator : JU
Sample : K5393-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : T-6-D1-D3-(0-46)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP100119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

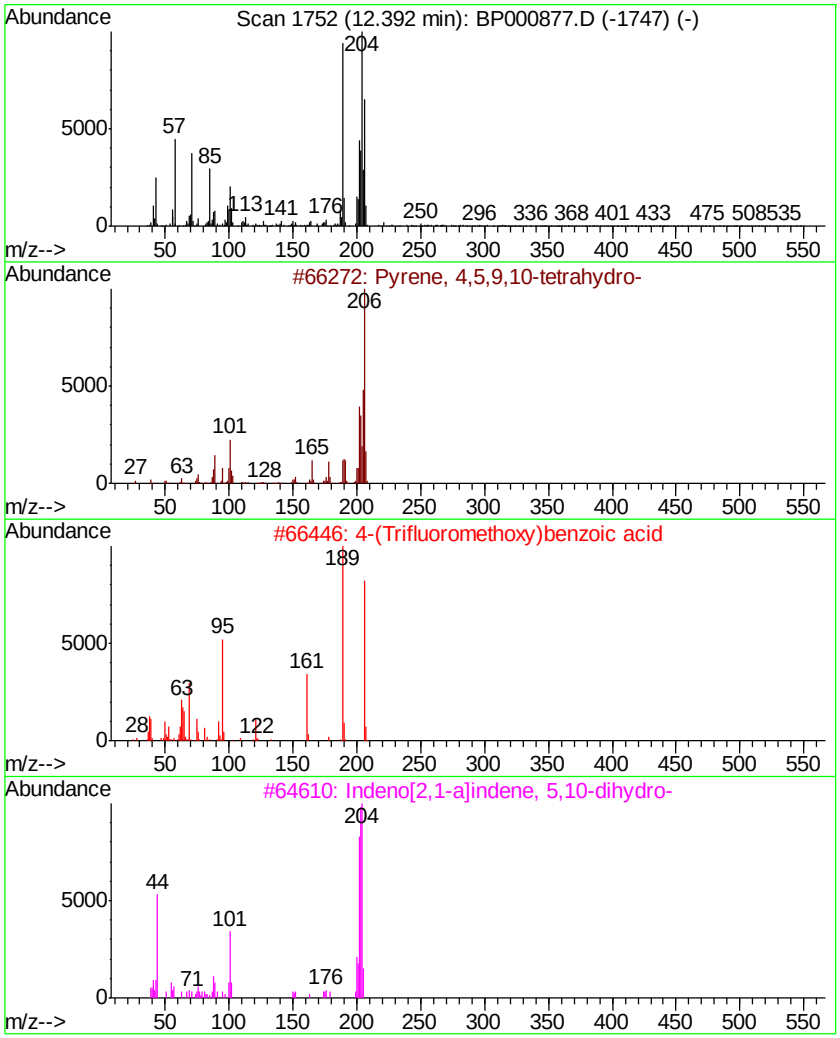
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

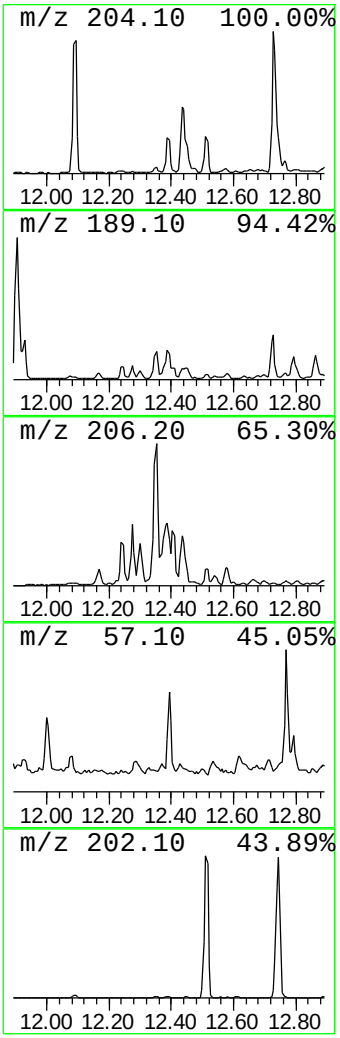
****

Peak Number 12 unknown12.39 Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	3.02 ng	224987	Phenanthrene-d10	11.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	38
2	4-(Trifluoromethoxy)benzoic acid	206	C8H5F3O3	000330-12-1	35
3	Indeno[2,1-a]indene, 5,10-dihydro-	204	C16H12	006543-29-9	25
4	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	25
5	Tetramisole	204	C11H12N2S	005036-02-2	22





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP101819\
Data File : BP000877.D
Acq On : 18 Oct 2019 15:49
Operator : JU
Sample : K5393-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : T-6-D1-D3-(0-46)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP100119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

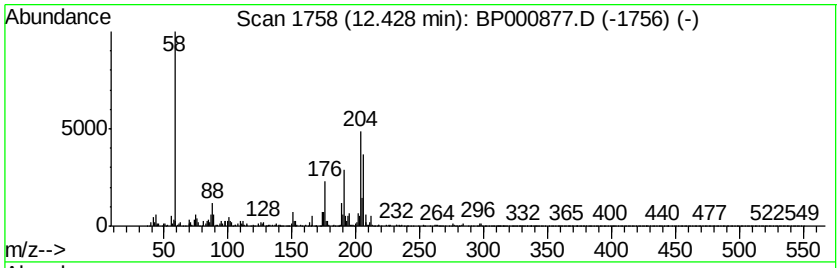
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

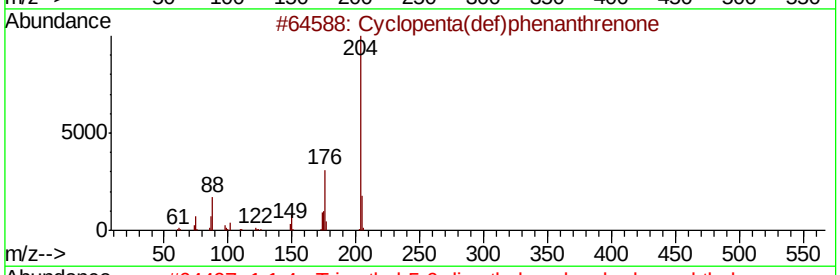
****

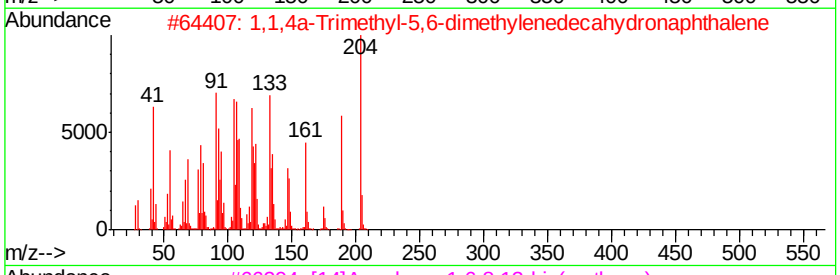
Peak Number 13 Cyclopenta(def)phenanthrenone Concentration Rank 11

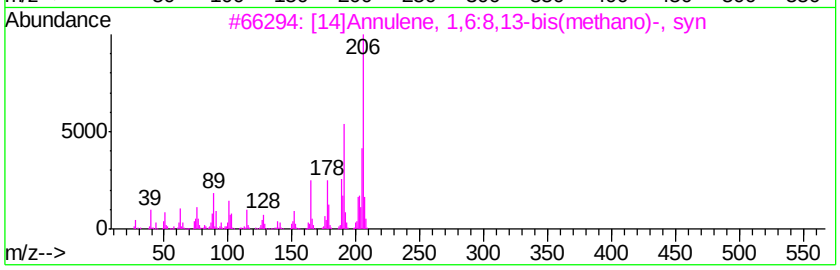
R.T.	EstConc	Area	Relative to ISTD	R.T.
12.43	2.82 ng	209823	Phenanthrene-d10	11.28

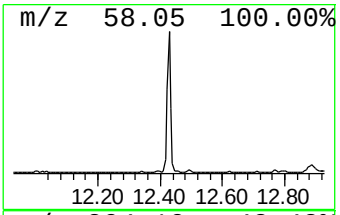
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	95
2	1,1,4a-Trimethyl-5,6-dimethylene...	204	C15H24	1000193-60-8	64
3	[14]Annulene, 1,6:8,13-bis(metha...	206	C16H14	085385-68-8	46
4	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	42
5	1H-Indene, 2-methyl-3-phenyl-	206	C16H14	035099-60-6	42

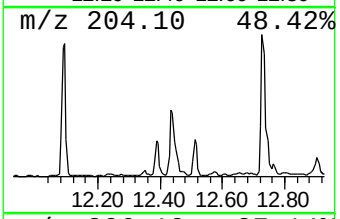


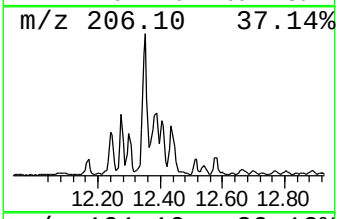


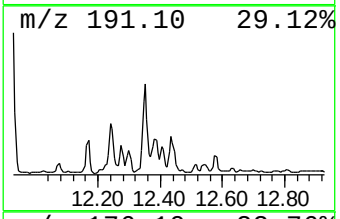


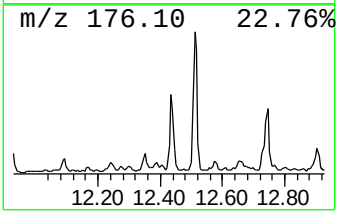












Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP101819\
Data File : BP000877.D
Acq On : 18 Oct 2019 15:49
Operator : JU
Sample : K5393-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : T-6-D1-D3-(0-46)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP100119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

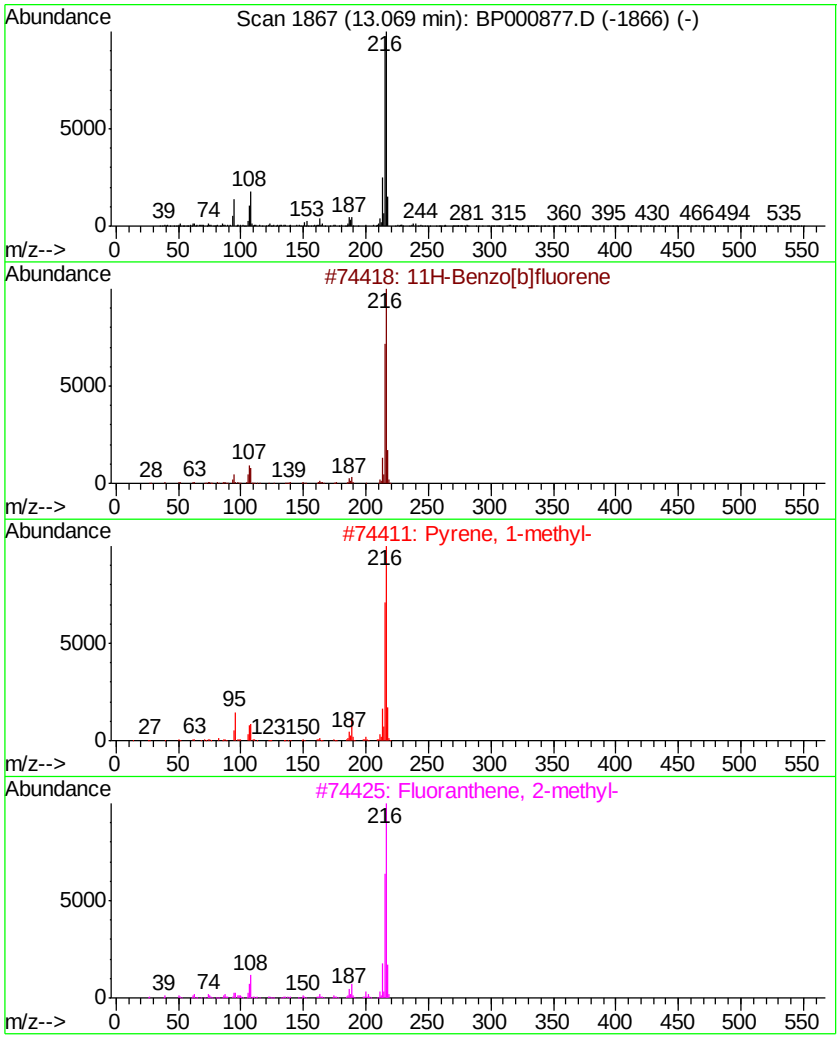
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

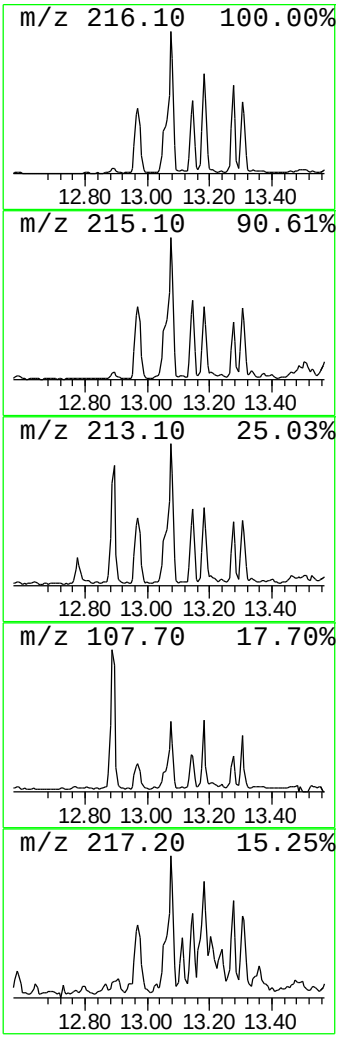
****

Peak Number 14 11H-Benzo[b]fluorene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.07	2.08 ng	350529	Chrysene-d12	13.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	95
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	72





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP101819\
Data File : BP000877.D
Acq On : 18 Oct 2019 15:49
Operator : JU
Sample : K5393-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : T-6-D1-D3-(0-46)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP100119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

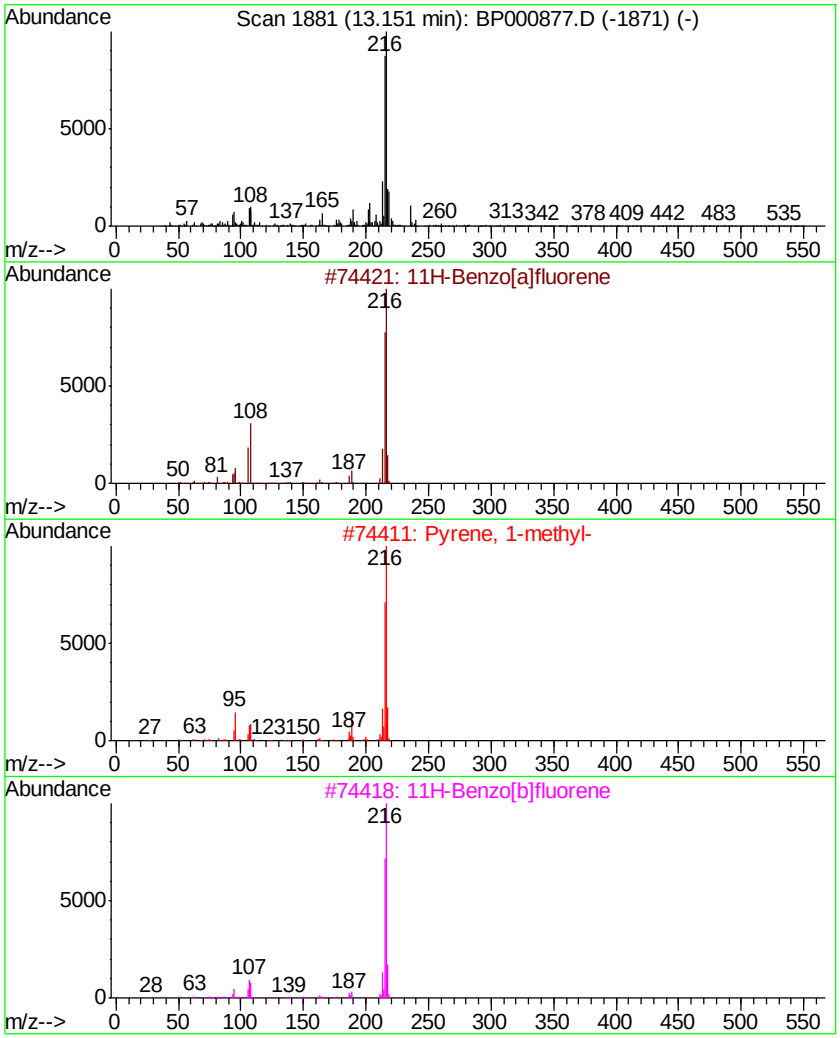
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

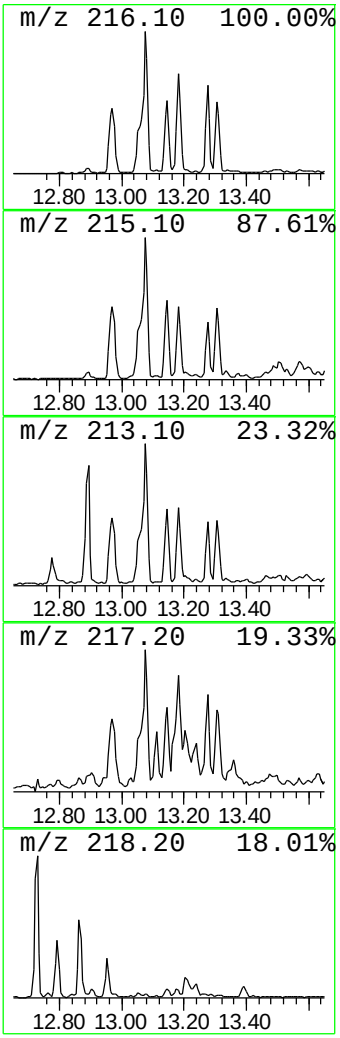
****

Peak Number 15 11H-Benzo[a]fluorene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	2.04 ng	344459	Chrysene-d12	13.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	87
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	83
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	81
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	74





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP101819\
Data File : BP000877.D
Acq On : 18 Oct 2019 15:49
Operator : JU
Sample : K5393-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : T-6-D1-D3-(0-46)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP100119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

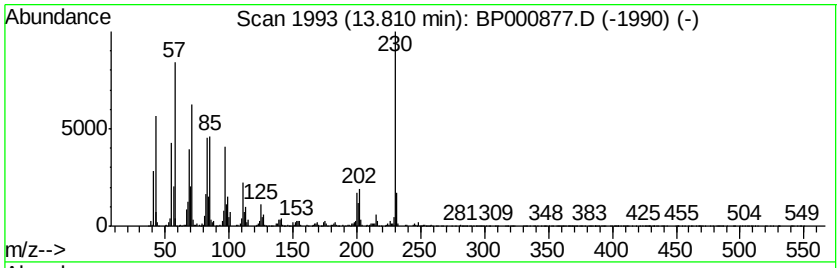
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

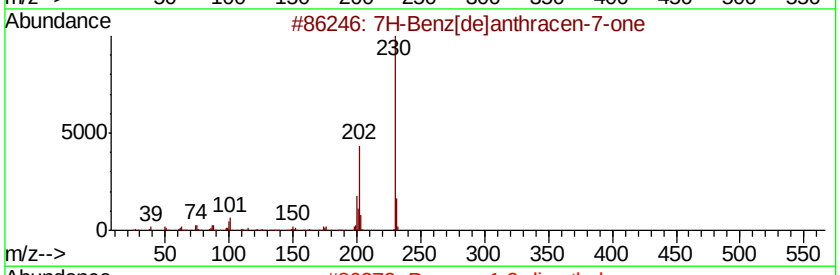
****

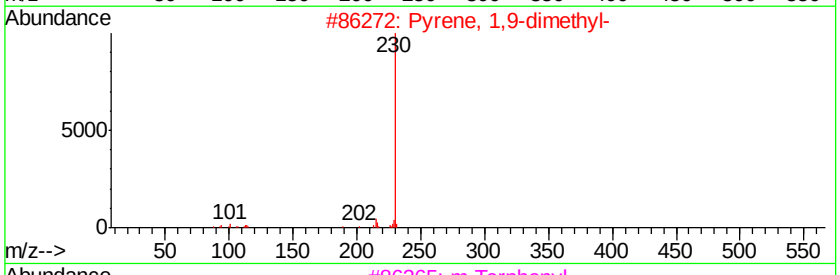
Peak Number 16 unknown13.81 Concentration Rank 7

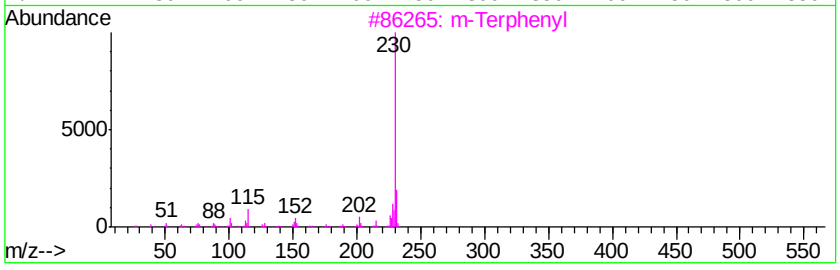
R.T.	EstConc	Area	Relative to ISTD	R.T.
13.81	3.62 ng	611470	Chrysene-d12	13.96

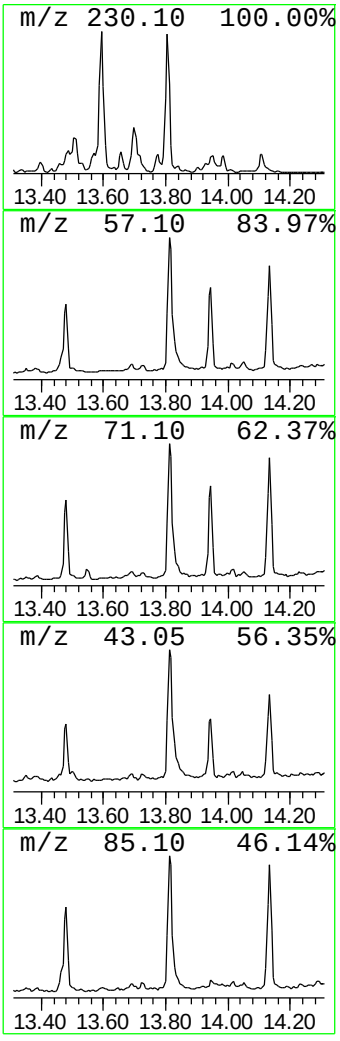
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7H-Benz[delanthracen-7-one	230	C17H10O	000082-05-3	49
2	Pyrene, 1,9-dimethyl-	230	C18H14	074298-70-7	38
3	m-Terphenyl	230	C18H14	000092-06-8	18
4	Ethyl 5-(p-tolyl)pyrazole-3-carb...	230	C13H14N2O2	1000211-61-7	14
5	p-Terphenyl	230	C18H14	000092-94-4	14











Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP101819\
Data File : BP000877.D
Acq On : 18 Oct 2019 15:49
Operator : JU
Sample : K5393-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : T-6-D1-D3-(0-46)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP100119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

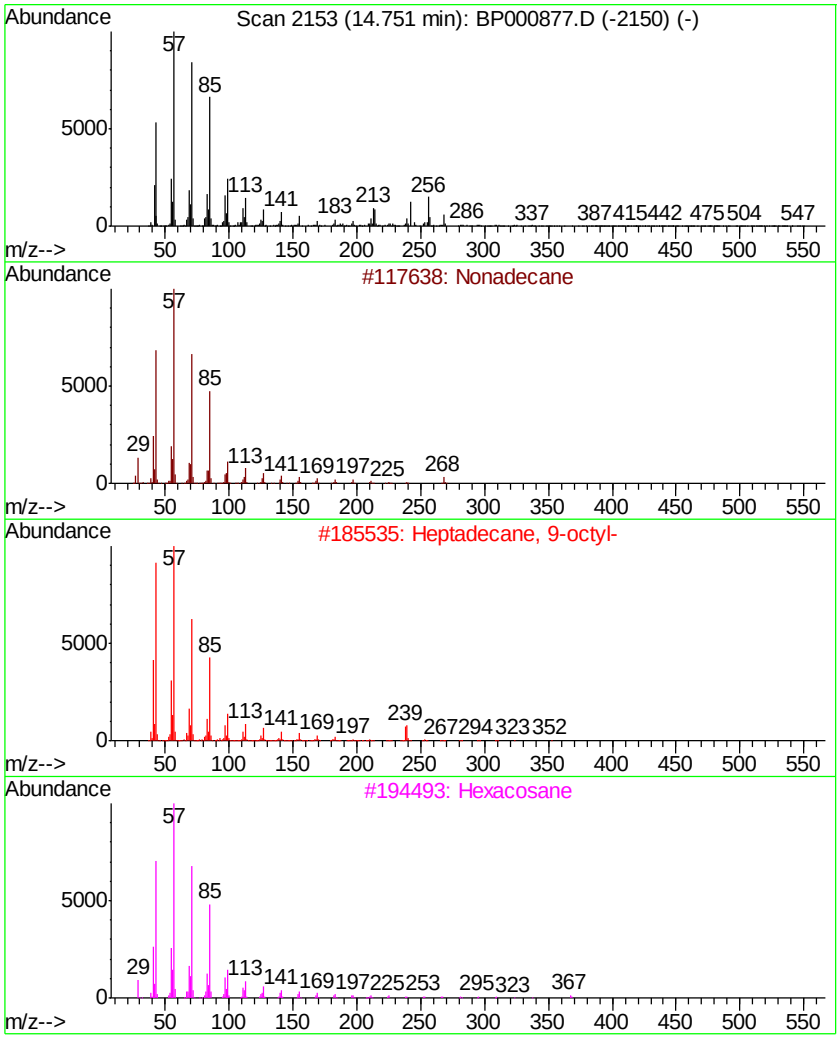
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

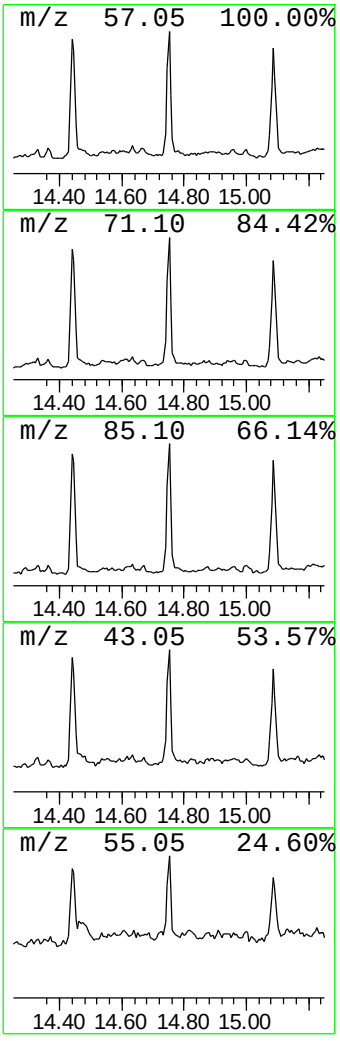
****

Peak Number 17 Nonadecane Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.75	2.62 ng	198617	Perylene-d12	15.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonadecane	268	C19H40	000629-92-5	95
2	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	86
3	Hexacosane	366	C26H54	000630-01-3	76
4	Octacosane	394	C28H58	000630-02-4	74
5	Hentriacontane	437	C31H64	000630-04-6	72





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP101819\
Data File : BP000877.D
Acq On : 18 Oct 2019 15:49
Operator : JU
Sample : K5393-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : T-6-D1-D3-(0-46)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP100119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

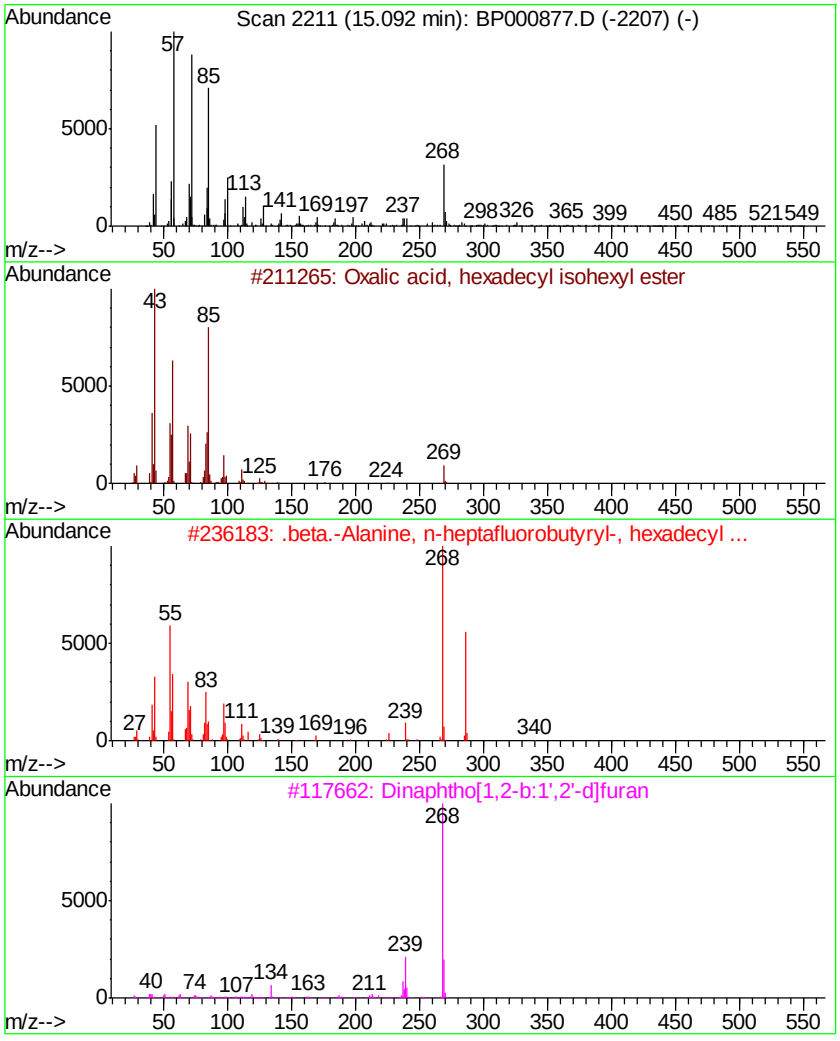
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

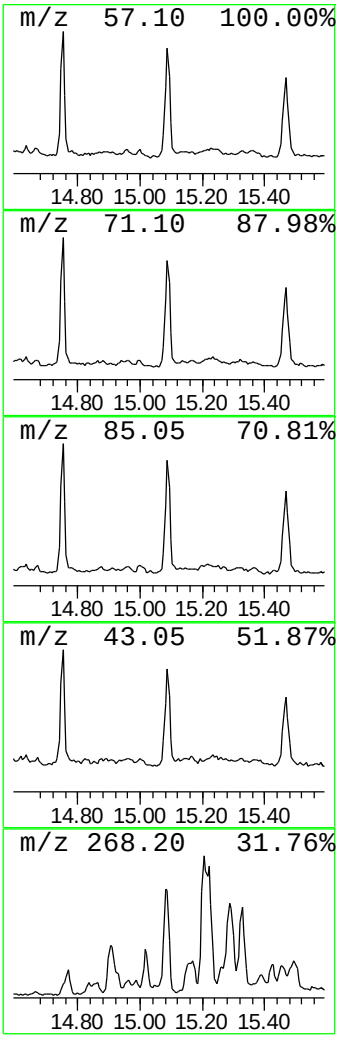
****

Peak Number 18 unknown15.09 Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.09	2.39 ng	181630	Perylene-d12	15.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxalic acid, hexadecyl isohexyl ...	398	C24H46O4	1000309-33-7	22
2	.beta.-Alanine, n-heptafluorobut...	509	C23H38F7NO3	1000320-98-7	22
3	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	20
4	Benzo(a)pyren-7-ol	268	C20H12O	037994-82-4	15
5	Benzo(a)pyrene 4,5-oxide	268	C20H12O	037574-47-3	11





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP101819\
Data File : BP000877.D
Acq On : 18 Oct 2019 15:49
Operator : JU
Sample : K5393-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : T-6-D1-D3-(0-46)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP100119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

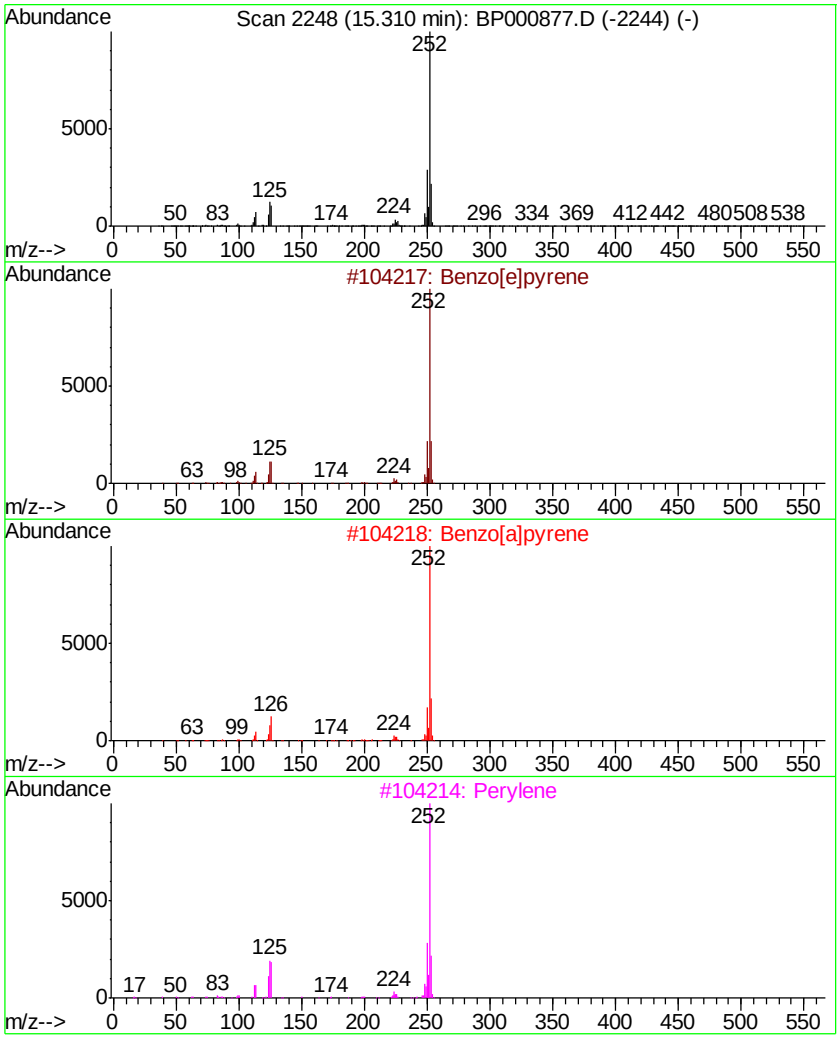
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

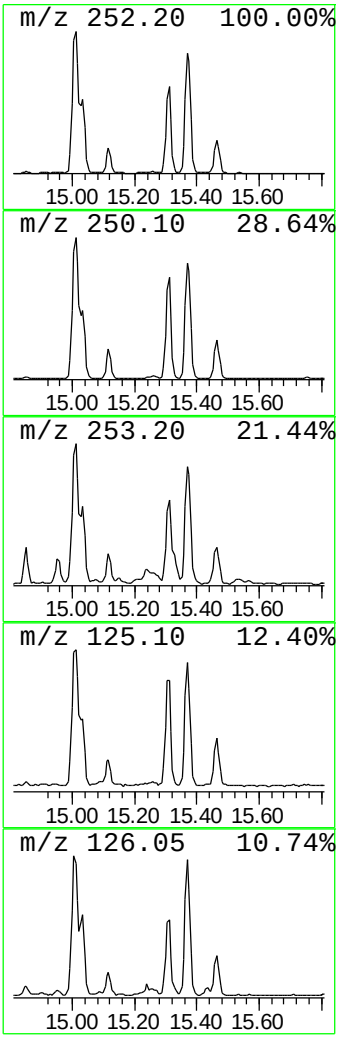
****

Peak Number 19 Benzo[e]pyrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.31	10.29 ng	780348	Perylene-d12	15.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	99
2	Benzo[a]pyrene	252	C20H12	000050-32-8	98
3	Perylene	252	C20H12	000198-55-0	96
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	94
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	91





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_P\DATA\BP101819\
Data File : BP000877.D
Acq On : 18 Oct 2019 15:49
Operator : JU
Sample : K5393-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : T-6-D1-D3-(0-46)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP100119.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
unknown6.52	6.52	65.7	ng	3070330	1	6.74	935418	20.0
5H-Indeno[1,2-b]p...	11.52	2.0	ng	152734	4	11.28	1487610	20.0
Phenanthrene, 2-m...	11.79	4.2	ng	311194	4	11.28	1487610	20.0
Anthracene, 2-met...	11.82	6.8	ng	509454	4	11.28	1487610	20.0
1H-Indene, 2-phenyl-	11.87	2.5	ng	182400	4	11.28	1487610	20.0
4H-Cyclopenta[def...	11.90	7.4	ng	552636	4	11.28	1487610	20.0
Anthracene, 1-met...	11.93	3.2	ng	236867	4	11.28	1487610	20.0
Naphthalene, 2-ph...	12.09	2.4	ng	179259	4	11.28	1487610	20.0
9,10-Anthracenedione	12.12	2.0	ng	152522	4	11.28	1487610	20.0
Phenanthrene, 2,5...	12.35	3.5	ng	258496	4	11.28	1487610	20.0
unknown12.39	12.39	3.0	ng	224987	4	11.28	1487610	20.0
Cyclopenta(def)ph...	12.43	2.8	ng	209823	4	11.28	1487610	20.0
11H-Benzo[b]fluorene	13.07	2.1	ng	350529	5	13.96	3373770	20.0
11H-Benzo[a]fluorene	13.15	2.0	ng	344459	5	13.96	3373770	20.0
unknown13.81	13.81	3.6	ng	611470	5	13.96	3373770	20.0
Nonadecane	14.75	2.6	ng	198617	6	15.43	1517000	20.0
unknown15.09	15.09	2.4	ng	181630	6	15.43	1517000	20.0
Benzo[e]pyrene	15.31	10.3	ng	780348	6	15.43	1517000	20.0