LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM092519\
Data File : BM022775.D
Acq On : 25 Sep 2019 17:16
Operator : JU
Sample : K4997-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : WC-08-091919

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_M\METHODS\8270-BM092019.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	3.017	3	5	25	rVB	1829264	2051220	19.93%	1.190%
2	5.399	404	410	419	rBV	2622923	3782629	36.76%	2.195%
3	6.987	671	680	689	rBV	2620395	4207639	40.89%	2.442%
4	7.352	733	742	757	rBV	2772135	4373357	42.50%	2.538%
5	7.816	813	821	830	rBV	799079	1264453	12.29%	0.734%
6	8.140	868	876	884	rBV	2221206	3501634	34.03%	2.032%
7	8.969	1003	1017	1028	rBV	1552313	2568502	24.96%	1.491%
8	10.610	1289	1296	1302	rBV	972107	1670526	16.23%	0.969%
9	12.492	1610	1616	1623	rBV	146340	223226	2.17%	0.130%
10	13.075	1708	1715	1722	rBV	4191004	6018934	58.49%	3.493%
11	13.775	1828	1834	1839	rBV	299930	540273	5.25%	0.314%
12	13.904	1849	1856	1862	rBV	608110	939697	9.13%	0.545%
13	14.010	1867	1874	1877	rVV	160593	243988	2.37%	0.142%
14	14.175	1895	1902	1918	rBV	1035573	1699004	16.51%	0.986%
15	14.451	1939	1949	1955	rBV	1474826	2232221	21.69%	1.295%
16	14.851	2007	2017	2024	rVV	217449	415550	4.04%	0.241%
17	14.928	2024	2030	2035	rVB	221053	314254	3.05%	0.182%
18	15.069	2046	2054	2059	rBV4	216815	507206	4.93%	0.294%
19	15.245	2075	2084	2087	rBV2	152050	373045	3.63%	0.216%
20	15.322	2092	2097	2103	rVB2	214225	318263	3.09%	0.185%
21	15.498	2122	2127	2130	rBV2	224746	377178	3.67%	0.219%
22	15.710	2158	2163	2171	rVB5	119633	235288	2.29%	0.137%
23	15.933	2193	2201	2210	rVV	3098108	4564078	44.35%	2.649%
24	16.175	2236	2242	2252	rVB2	300419	529918	5.15%	0.308%
25	16.498	2290	2297	2302	rVV3	208973	498334	4.84%	0.289%
26	16.551	2302	2306	2311	rVB	195238	297595	2.89%	0.173%
27	16.845	2352	2356	2363	rVV5	247655	486461	4.73%	0.282%
28	17.010	2380	2384	2394	rVB	251674	429481	4.17%	0.249%
29	17.192	2409	2415	2418	rBV2	1656599	2358297	22.92%	1.369%
30	17.233	2418	2422	2429	rVV	3524061	4894128	47.56%	2.840%
31	17.322	2432	2437	2442	rVV	909449	1261894	12.26%	0.732%
32	17.380	2442	2447	2453	rVV3	195493	398726	3.87%	0.231%
33	17.504	2465	2468	2472	rVB	204239	262316	2.55%	0.152%
34	17.592	2473	2483	2487	rBV2	121685	345296	3.36%	0.200%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM092519\
Data File : BM022775.D
Acq On : 25 Sep 2019 17:16
Operator : JU
Sample : K4997-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : WC-08-091919

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_M\METHODS\8270-BM092019.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	17.710	2499	2503	2507	rVB2	177345	255420	2.48%	0.148%
36	17.769	2509	2513	2522	rVB	450577	649776	6.31%	0.377%
37	17.916	2533	2538	2544	rVB	210459	386020	3.75%	0.224%
38	17.986	2545	2550	2553	rBV2	187246	270729	2.63%	0.157%
39	18.063	2558	2563	2567	rBV	1537282	2440376	23.71%	1.416%
40	18.116	2567	2572	2579	rVB	1930785	3096376	30.09%	1.797%
41	18.192	2580	2585	2590	rBV	505132	758118	7.37%	0.440%
42	18.257	2590	2596	2600	rBV2	1746886	3280219	31.88%	1.904%
43	18.298	2600	2603	2609	rVB	1440091	1900113	18.46%	1.103%
44	18.386	2613	2618	2622	rBV3	181981	361959	3.52%	0.210%
45	18.463	2627	2631	2635	rVB2	250066	346917	3.37%	0.201%
46	18.563	2644	2648	2652	rBV2	691410	927941	9.02%	0.539%
47	18.604	2652	2655	2666	rVB2	595499	1100530	10.69%	0.639%
48	18.786	2682	2686	2687	rBV2	227737	282085	2.74%	0.164%
49	18.816	2687	2691	2695	rVV2	502987	776532	7.55%	0.451%
50	18.863	2695	2699	2702	rVV	641205	816584	7.94%	0.474%
51	18.904	2702	2706	2710	rVB2	481831	660247	6.42%	0.383%
52	18.986	2710	2720	2724	rBV	1864935	3180188	30.90%	1.846%
53	19.045	2724	2730	2733	rVV2	784822	1694912	16.47%	0.984%
54	19.074	2733	2735	2739	rVB	622247	728911	7.08%	0.423%
55	19.121	2739	2743	2751	rBV2	853350	1725908	16.77%	1.002%
56	19.251	2760	2765	2770	rVB	5457344	7116122	69.15%	4.130%
57	19.310	2771	2775	2778	rBV2	357686	514262	5.00%	0.298%
58	19.345	2778	2781	2786	rVV2	354551	497487	4.83%	0.289%
59	19.398	2786	2790	2794	rVB	500407	630288	6.12%	0.366%
60	19.445	2794	2798	2802	rVB2	397656	512955	4.98%	0.298%
61	19.492	2802	2806	2809	rBV2	355007	528795	5.14%	0.307%
62	19.610	2817	2826	2834	rBV	6530613	10290735	100.00%	5.972%
63	19.692	2835	2840	2845	rVB3	670531	1140209	11.08%	0.662%
64	19.745	2845	2849	2850	rBV4	170599	223388	2.17%	0.130%
65	19.816	2856	2861	2865	rVV	6620171	7613173	73.98%	4.418%
66	19.933	2876	2881	2892	rBV6	944952	2526445	24.55%	1.466%
67	20.021	2892	2896	2899	rVV2	278033	403779	3.92%	0.234%
68	20.074	2900	2905	2906	rVV3	820214	1215843	11.81%	0.706%
69	20.104	2907	2910	2914	rVB	1340346	1789182	17.39%	1.038%
70	20.204	2924	2927	2931	rVV	576197	778418	7.56%	0.452%
71	20.263	2933	2937	2942	rVB	1394059	1880084	18.27%	1.091%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM092519\
Data File : BM022775.D
Acq On : 25 Sep 2019 17:16
Operator : JU
Sample : K4997-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : WC-08-091919

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_M\METHODS\8270-BM092019.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	20.357	2949	2953	2957	rBV2	326511	509714	4.95%	0.296%
73	20.404	2957	2961	2965	rVV	1385941	1788790	17.38%	1.038%
74	20.451	2965	2969	2973	rVB	1204839	1566226	15.22%	0.909%
75	20.568	2985	2989	2993	rVB2	300246	418151	4.06%	0.243%
76	20.698	3008	3011	3014	rVV3	230303	338211	3.29%	0.196%
77	20.851	3033	3037	3044	rVB	1074750	1714870	16.66%	0.995%
78	20.945	3050	3053	3057	rVB	401729	458241	4.45%	0.266%
79	20.998	3058	3062	3063	rBV2	623004	764425	7.43%	0.444%
80	21.057	3069	3072	3074	rBV	534200	503330	4.89%	0.292%
81	21.086	3074	3077	3083	rVV4	1055143	1567123	15.23%	0.909%
82	21.145	3083	3087	3094	rVB2	706171	1190113	11.56%	0.691%
83	21.357	3118	3123	3128	rBV2	4208158	8268507	80.35%	4.799%
84	21.404	3128	3131	3141	rVB	3567886	5357005	52.06%	3.109%
85	21.486	3142	3145	3149	rVB2	412786	485296	4.72%	0.282%
86	21.533	3149	3153	3157	rBV3	408695	777675	7.56%	0.451%
87	21.574	3157	3160	3163	rBV2	342681	561814	5.46%	0.326%
88	21.727	3184	3186	3190	rVB2	302587	341925	3.32%	0.198%
89	21.868	3207	3210	3213	rBV	369111	453690	4.41%	0.263%
90	21.927	3213	3220	3224	rVV	1392176	2426611	23.58%	1.408%
91	21.980	3225	3229	3234	rVB	1254814	1785331	17.35%	1.036%
92	22.121	3250	3253	3257	rBV	782179	1095631	10.65%	0.636%
93	22.962	3390	3396	3400	rBV2	2259812	4920133	47.81%	2.855%
94	23.133	3422	3425	3431	rVB	535066	809333	7.86%	0.470%
95	23.451	3473	3479	3488	rVB	1588132	3025930	29.40%	1.756%
96	23.545	3489	3495	3503	rVB	2280173	4180234	40.62%	2.426%
97	23.645	3506	3512	3517	rBV	1380201	2666418	25.91%	1.547%
98	24.203	3603	3607	3615	rVB3	639610	1195325	11.62%	0.694%
99	25.950	3897	3904	3917	rVB	1053909	2916938	28.35%	1.693%
100	26.656	4018	4024	4040	rVB	925158	2741589	26.64%	1.591%

Sum of corrected areas: 172314216

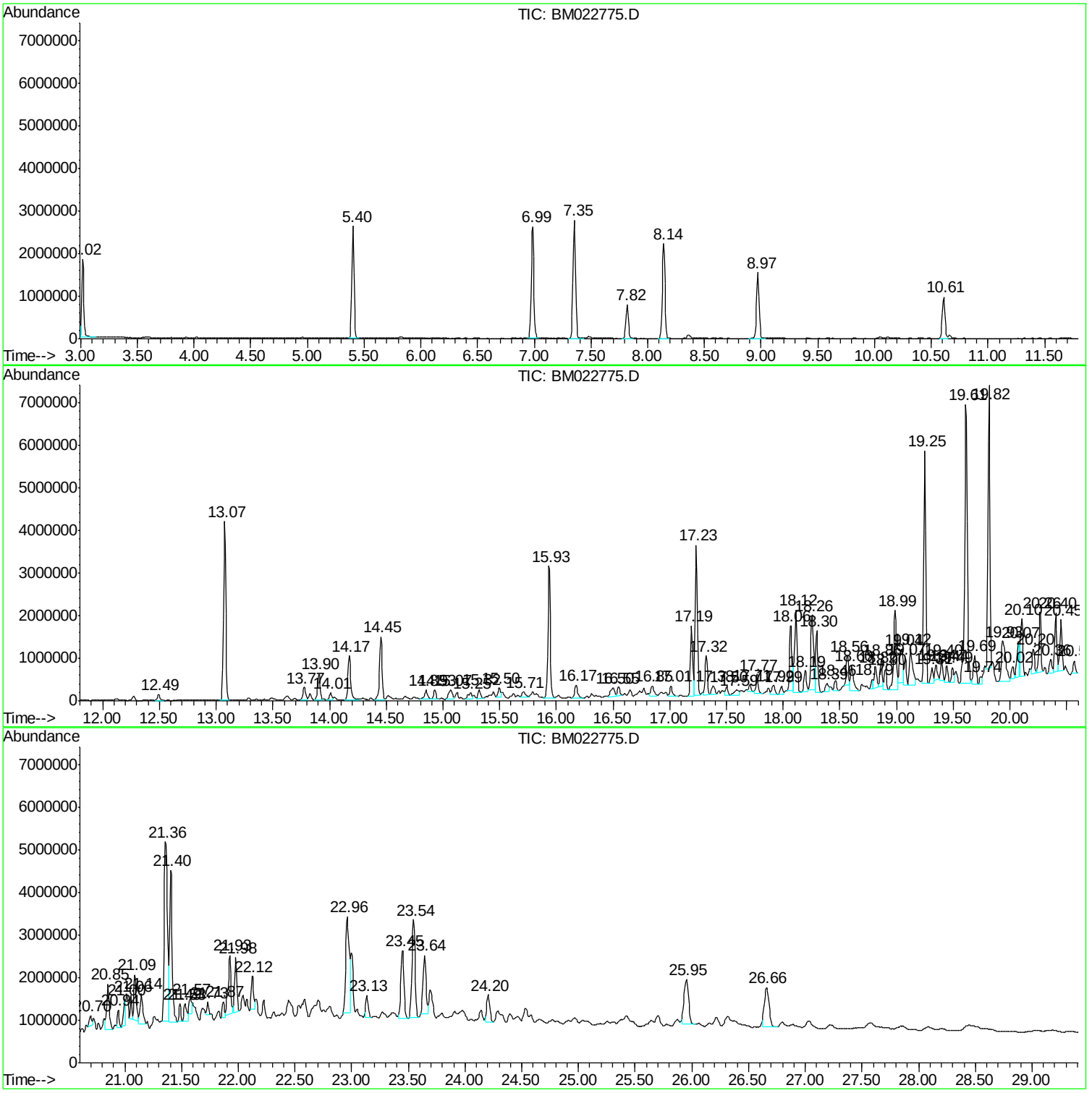
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM092519\
Data File : BM022775.D
Acq On : 25 Sep 2019 17:16
Operator : JU
Sample : K4997-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : WC-08-091919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM092019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM092519\
Data File : BM022775.D
Acq On : 25 Sep 2019 17:16
Operator : JU
Sample : K4997-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : WC-08-091919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM092019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

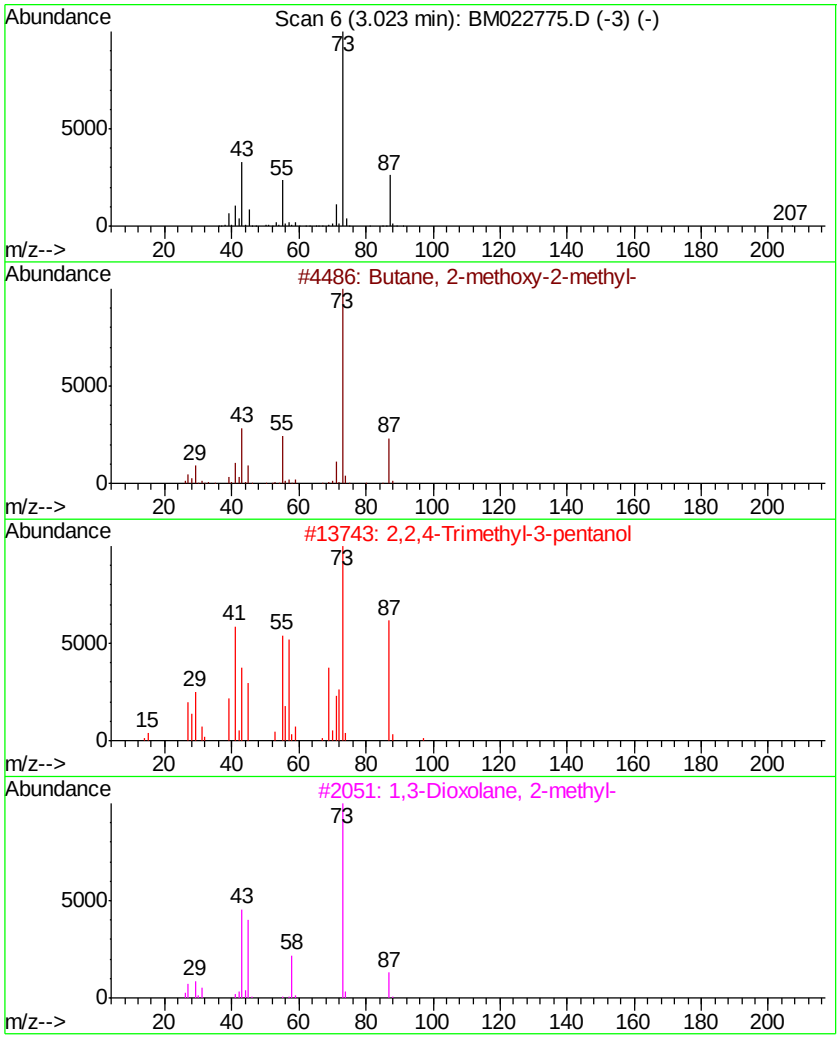
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

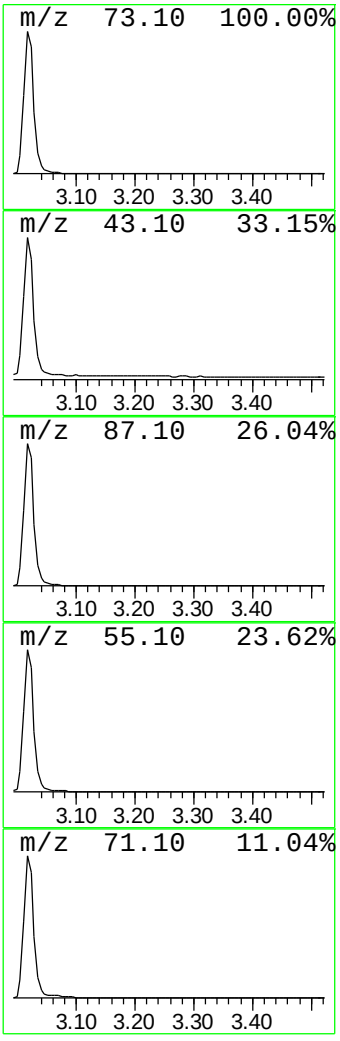
****

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.02	32.44 ng	2051220	1,4-Dichlorobenzene-d4	7.82

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	78
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	56
3	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	25
4	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	23
5	Silane, tetramethyl-	88	C4H12Si	000075-76-3	17





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM092519\
Data File : BM022775.D
Acq On : 25 Sep 2019 17:16
Operator : JU
Sample : K4997-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : WC-08-091919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM092019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

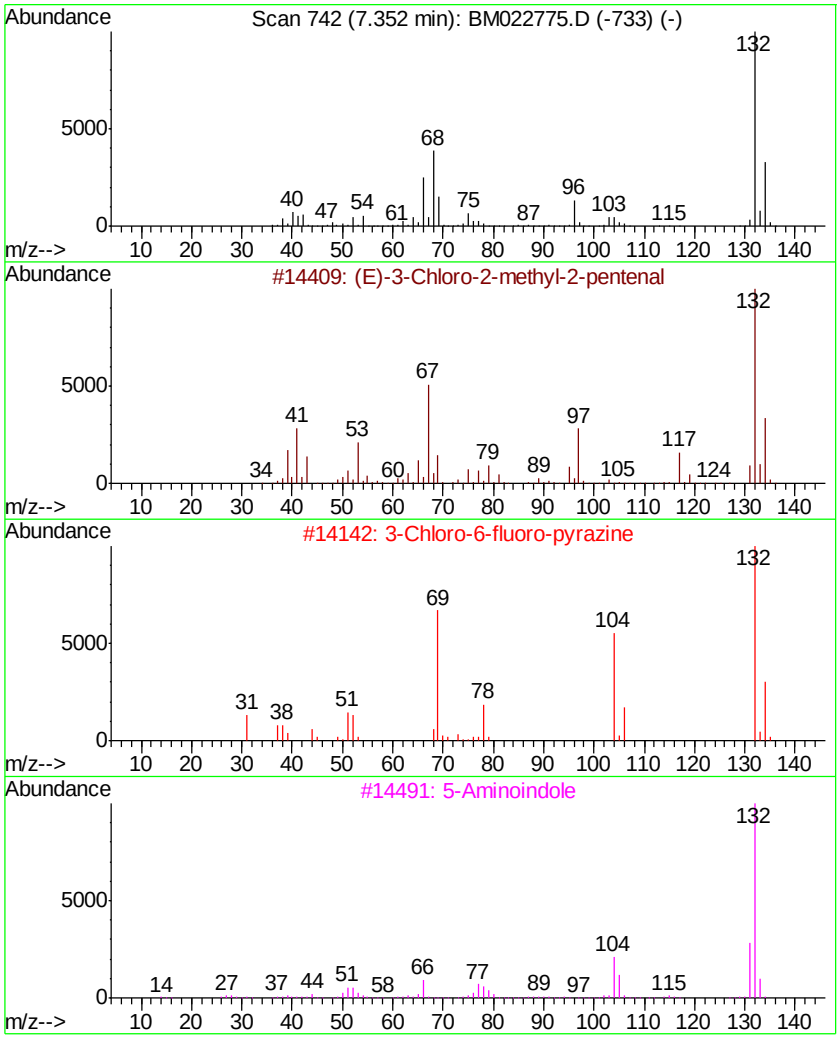
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

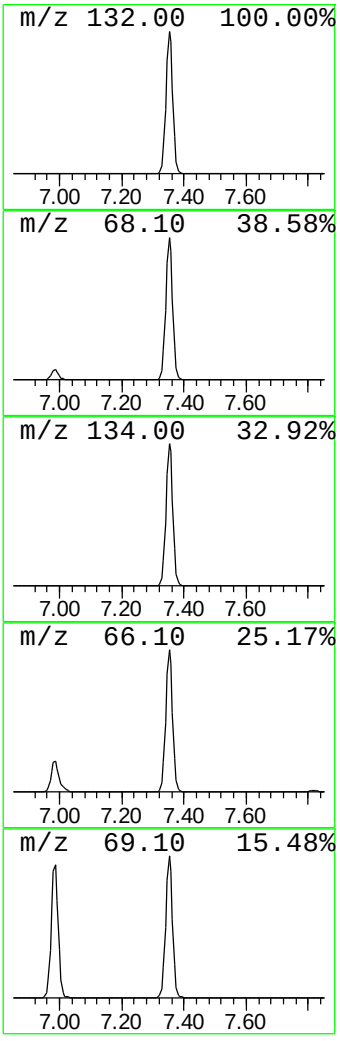
****

Peak Number 2 unknown7.35 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.35	69.17 ng	4373360	1,4-Dichlorobenzene-d4	7.82

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	17
2	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	16
3	5-Aminoindole	132	C8H8N2	005192-03-0	12
4	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10
5	Amphetaminil	250	C17H18N2	017590-01-1	10





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM092519\
Data File : BM022775.D
Acq On : 25 Sep 2019 17:16
Operator : JU
Sample : K4997-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : WC-08-091919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM092019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

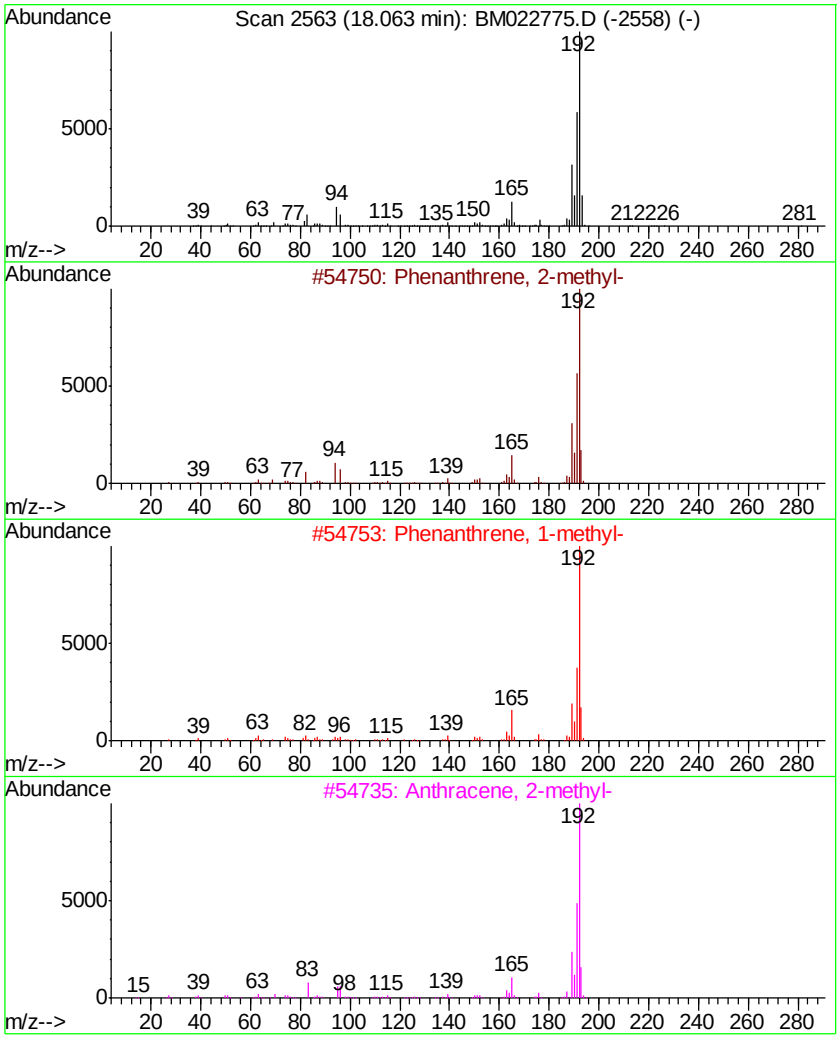
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

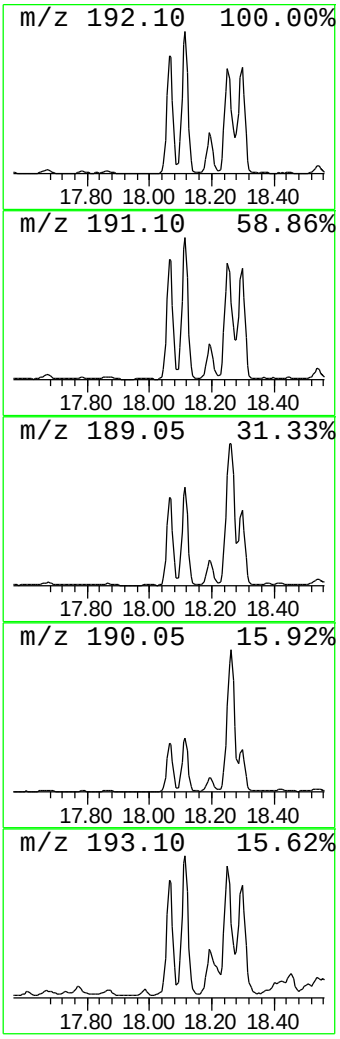
****

Peak Number 4 Phenanthrene, 2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.06	20.70 ng	2440380	Phenanthrene-d10	17.19

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	95
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	94
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM092519\
Data File : BM022775.D
Acq On : 25 Sep 2019 17:16
Operator : JU
Sample : K4997-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : WC-08-091919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM092019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

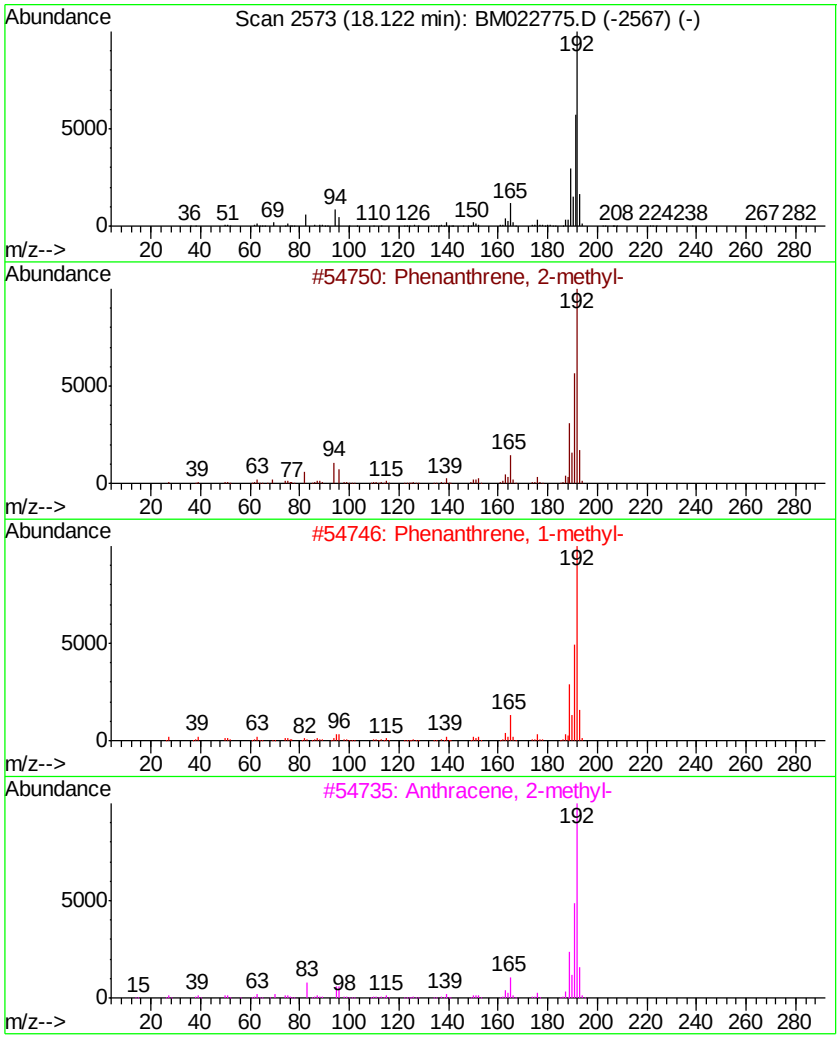
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

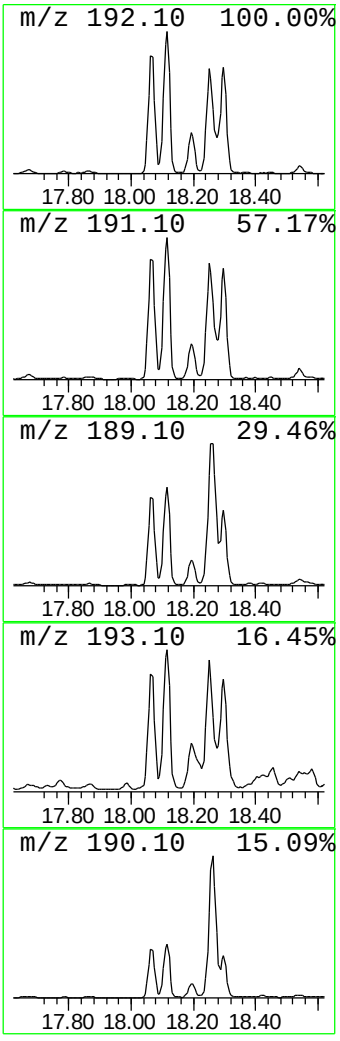
****

Peak Number 5 Phenanthrene, 1-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.12	26.26 ng	3096380	Phenanthrene-d10	17.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM092519\
Data File : BM022775.D
Acq On : 25 Sep 2019 17:16
Operator : JU
Sample : K4997-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : WC-08-091919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM092019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

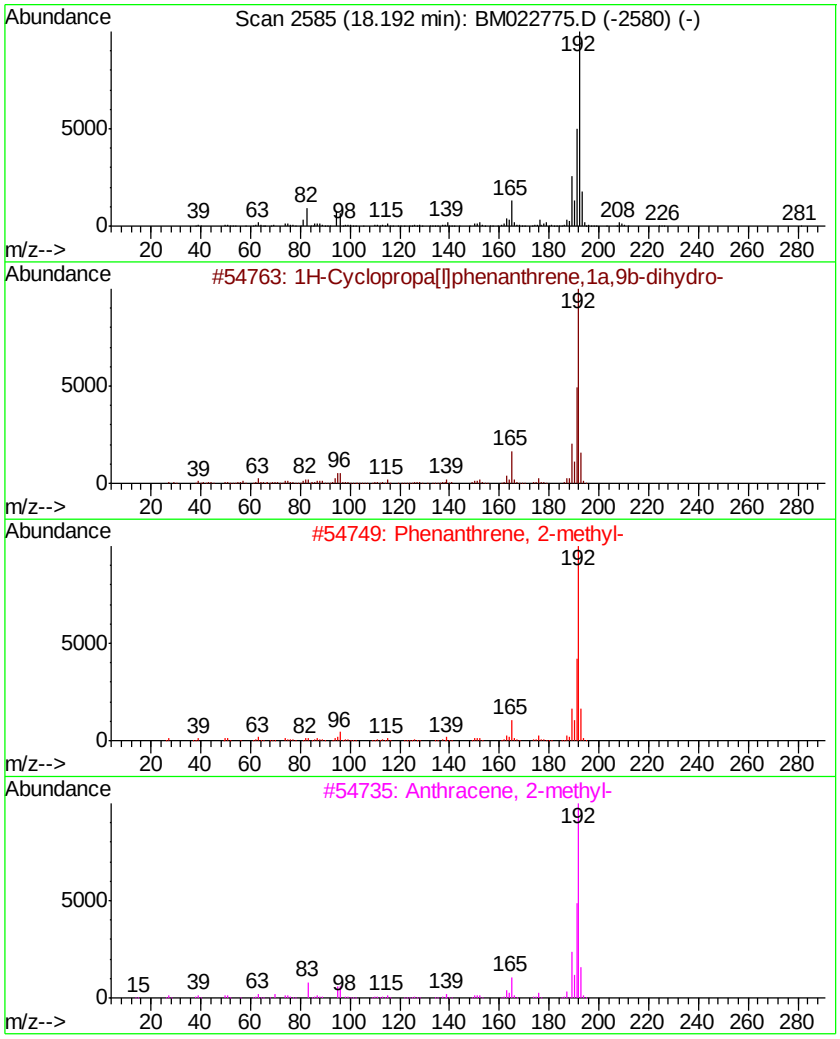
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

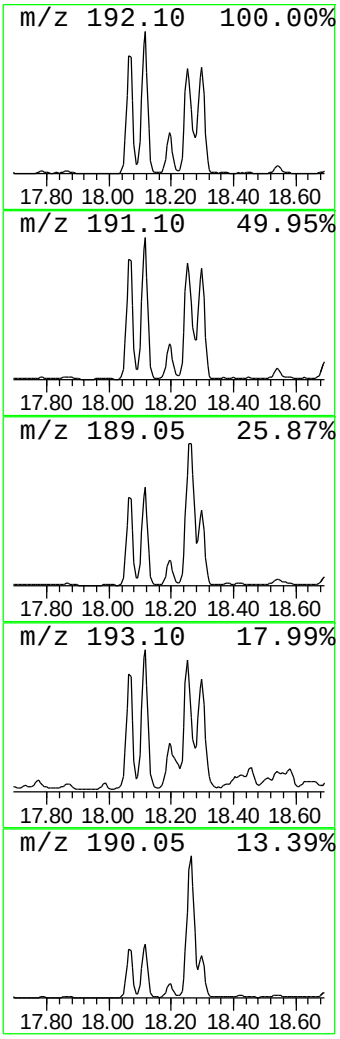
****

Peak Number 6 1H-Cyclopropa[l]phenanthren... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.19	6.43 ng	758118	Phenanthrene-d10	17.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	97
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	97
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
5	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	96





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM092519\
Data File : BM022775.D
Acq On : 25 Sep 2019 17:16
Operator : JU
Sample : K4997-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : WC-08-091919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM092019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

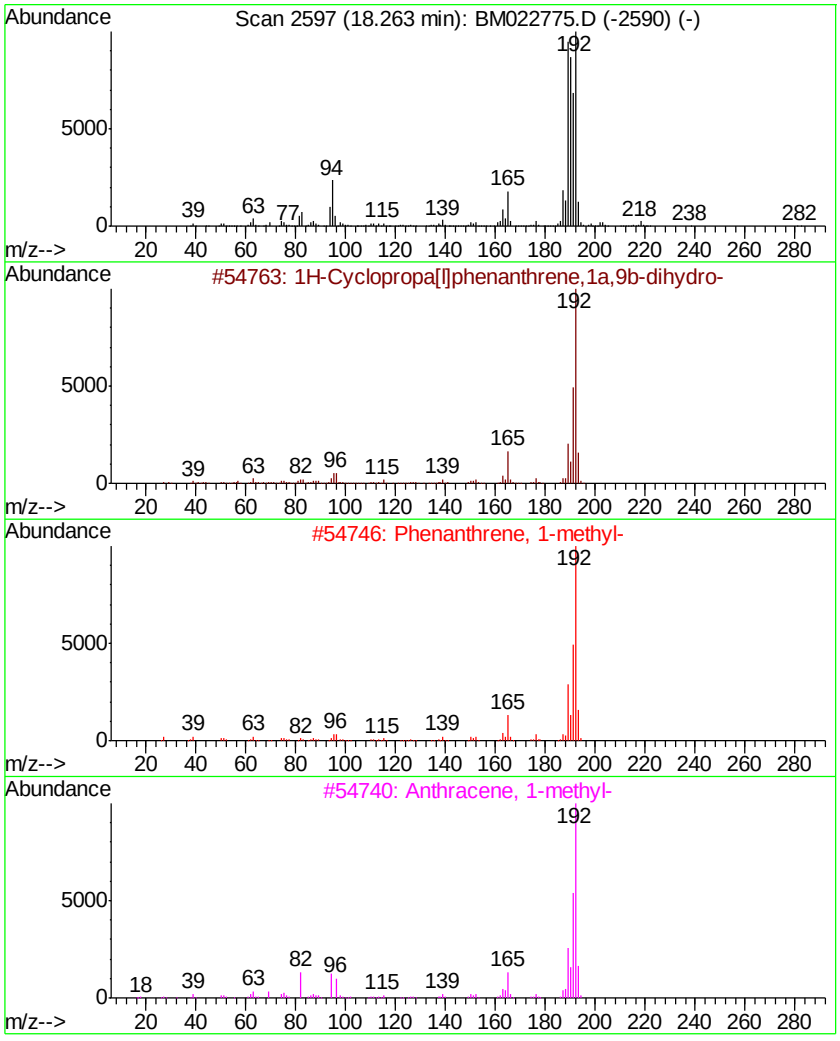
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

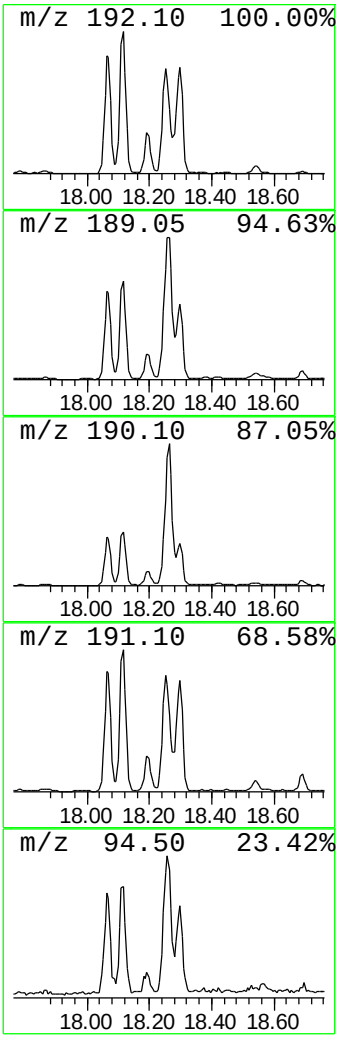
****

Peak Number 7 1H-Indene, 2-phenyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.26	27.82 ng	3280220	Phenanthrene-d10	17.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	92
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	90
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	78
4	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	64
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	64





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM092519\
Data File : BM022775.D
Acq On : 25 Sep 2019 17:16
Operator : JU
Sample : K4997-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : WC-08-091919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM092019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

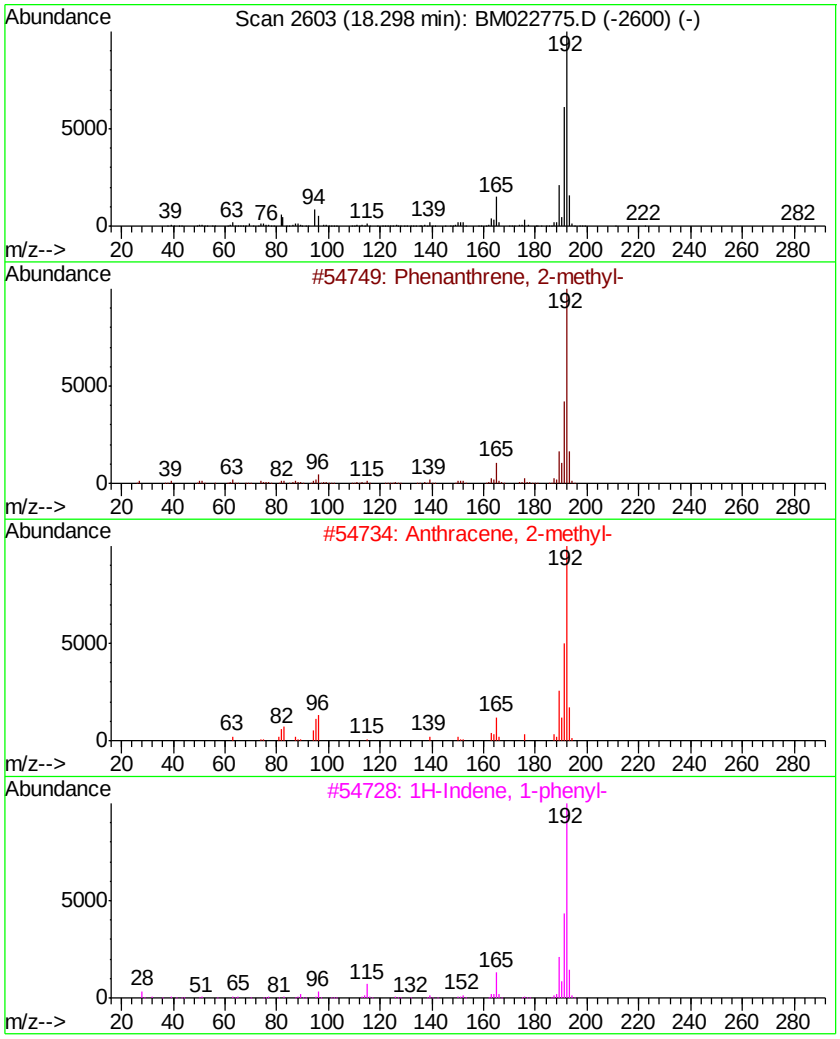
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

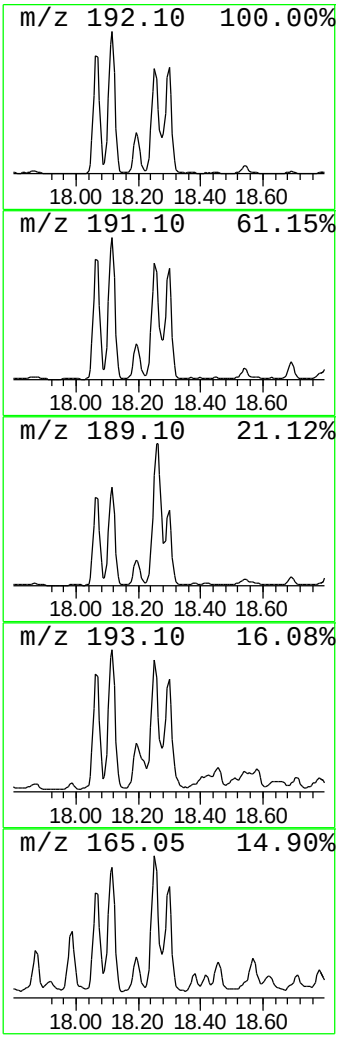
****

Peak Number 8 Anthracene, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.30	16.11 ng	1900110	Phenanthrene-d10	17.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
3	1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	91
4	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	91
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	89





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM092519\
Data File : BM022775.D
Acq On : 25 Sep 2019 17:16
Operator : JU
Sample : K4997-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : WC-08-091919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM092019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

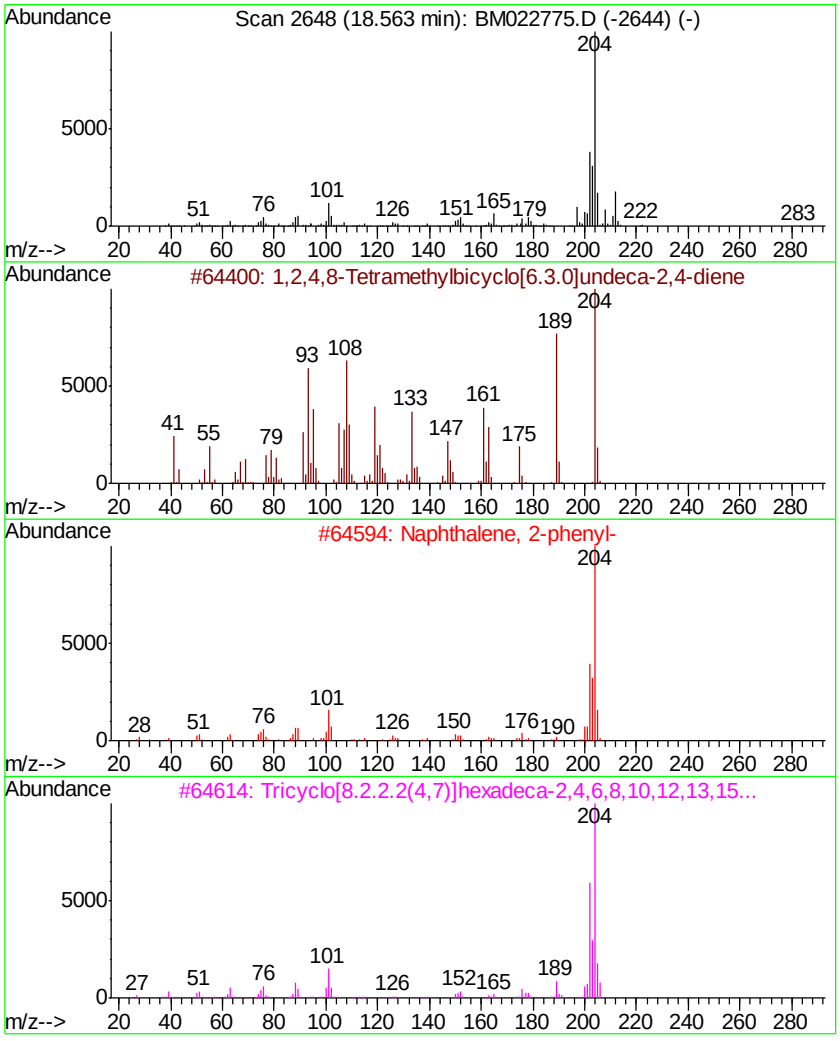
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

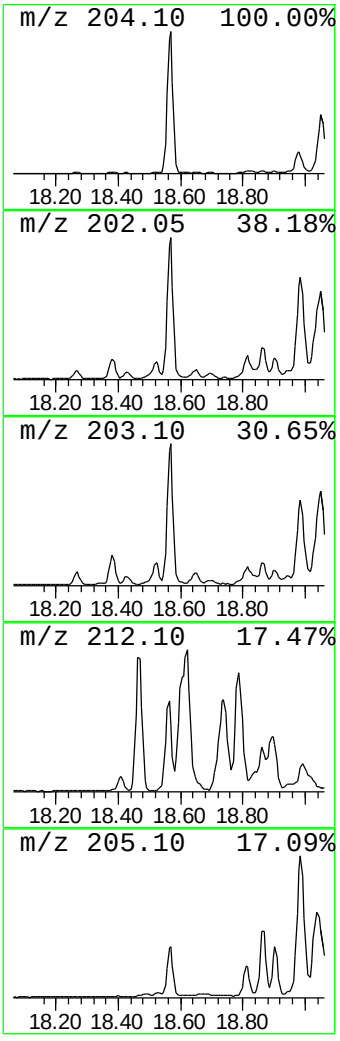
****

Peak Number 9 1,2,4,8-Tetramethylbicyclo[... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.56	7.87 ng	927941	Phenanthrene-d10	17.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	80
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	64
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	58
4	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	58
5	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	53





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM092519\
Data File : BM022775.D
Acq On : 25 Sep 2019 17:16
Operator : JU
Sample : K4997-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : WC-08-091919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM092019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

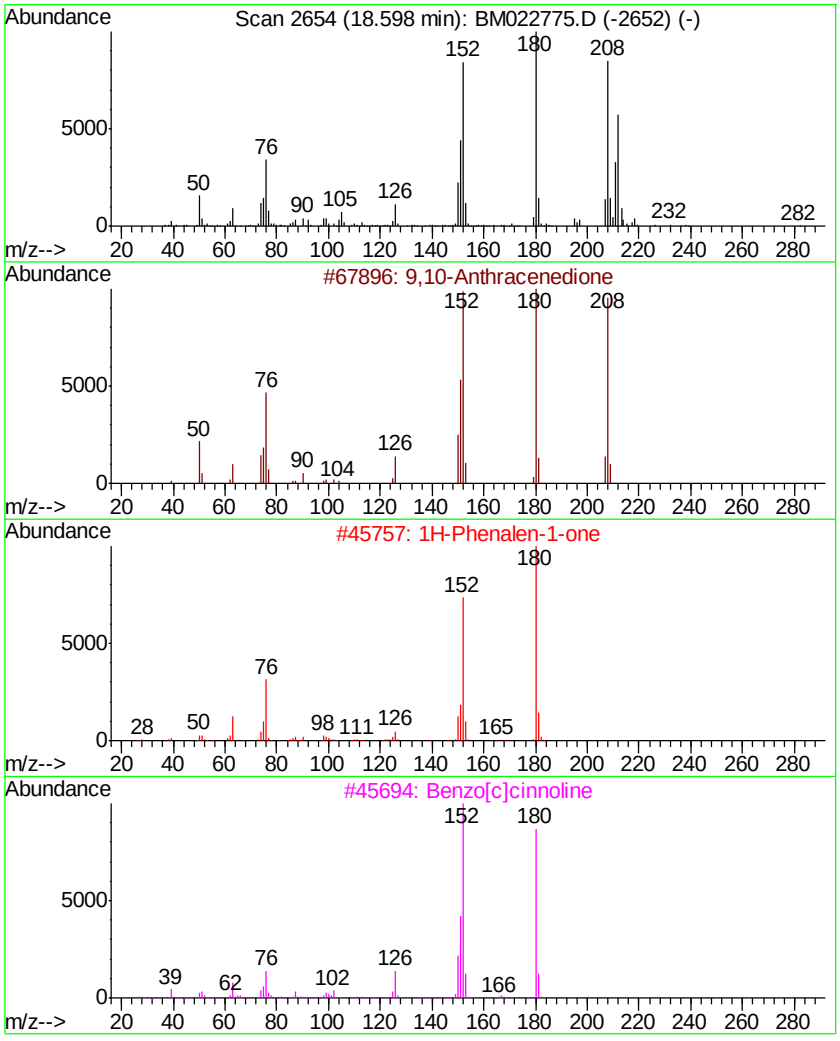
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

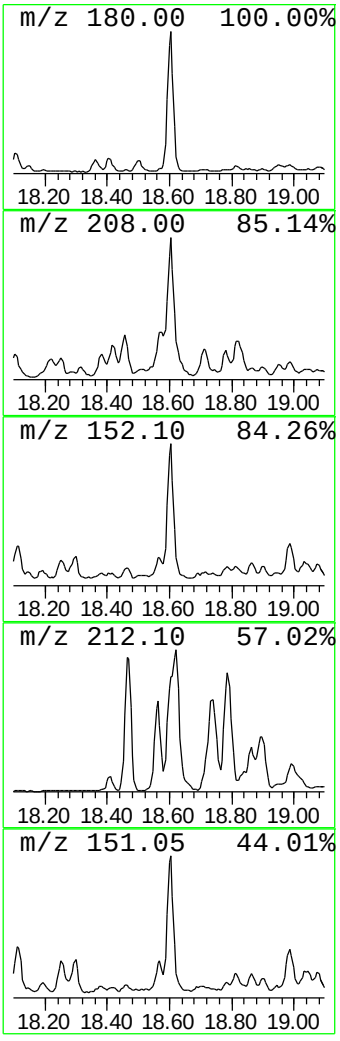
****

Peak Number 10 9,10-Anthracenedione Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.60	9.33 ng	1100530	Phenanthrene-d10	17.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	98
2	1H-Phenalen-1-one	180	C13H8O	000548-39-0	70
3	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	55
4	9H-Fluoren-9-one	180	C13H8O	000486-25-9	53
5	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	50





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM092519\
Data File : BM022775.D
Acq On : 25 Sep 2019 17:16
Operator : JU
Sample : K4997-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : WC-08-091919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM092019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

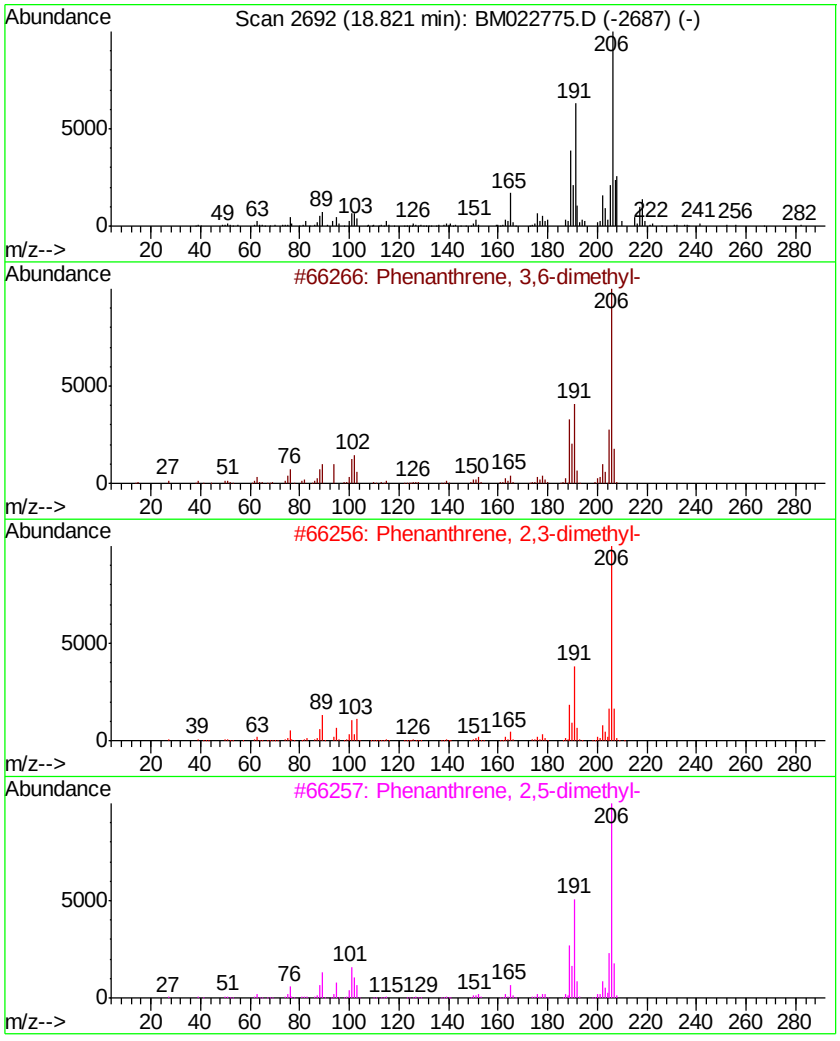
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

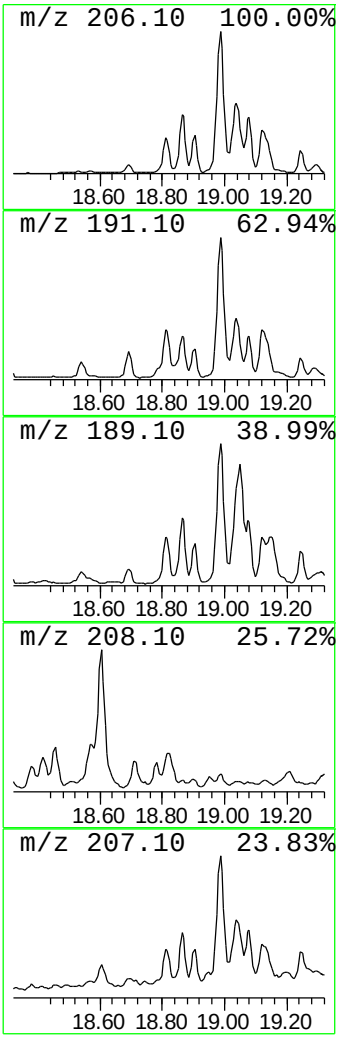
****

Peak Number 11 Phenanthrene, 3,6-dimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.82	6.59 ng	776532	Phenanthrene-d10	17.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
2	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
3	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	83
5	1H-Indene, 2-methyl-3-phenyl-	206	C16H14	035099-60-6	81





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM092519\
Data File : BM022775.D
Acq On : 25 Sep 2019 17:16
Operator : JU
Sample : K4997-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : WC-08-091919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM092019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

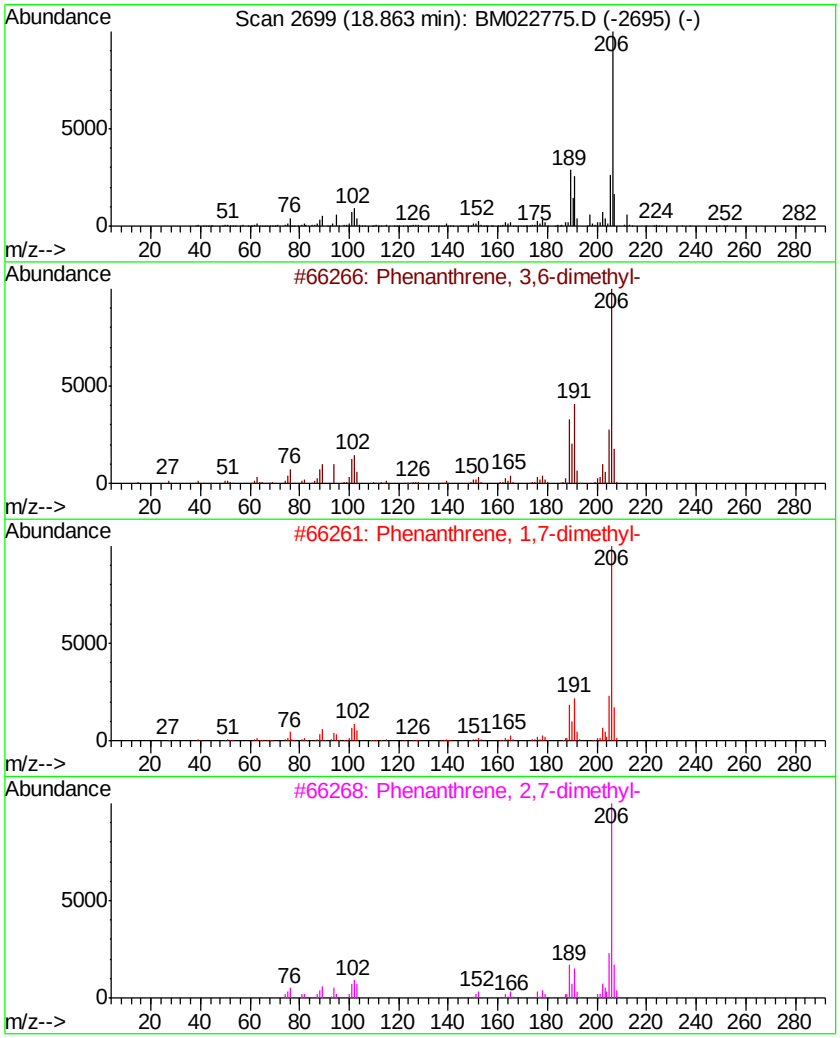
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

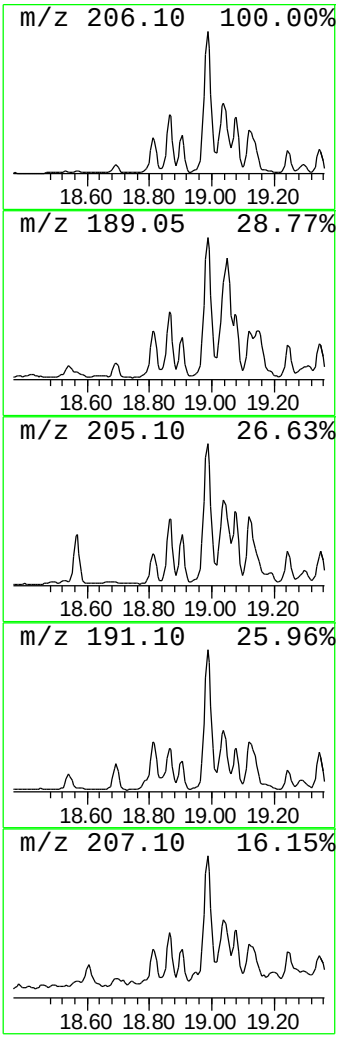
****

Peak Number 12 Phenanthrene, 1,7-dimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.86	6.93 ng	816584	Phenanthrene-d10	17.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	94
2	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
3	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	91
4	di-p-Tolylacetylene	206	C16H14	002789-88-0	91
5	1,3-Butadiene, 1,4-diphenyl-, (E...	206	C16H14	000538-81-8	64





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM092519\
Data File : BM022775.D
Acq On : 25 Sep 2019 17:16
Operator : JU
Sample : K4997-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : WC-08-091919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM092019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

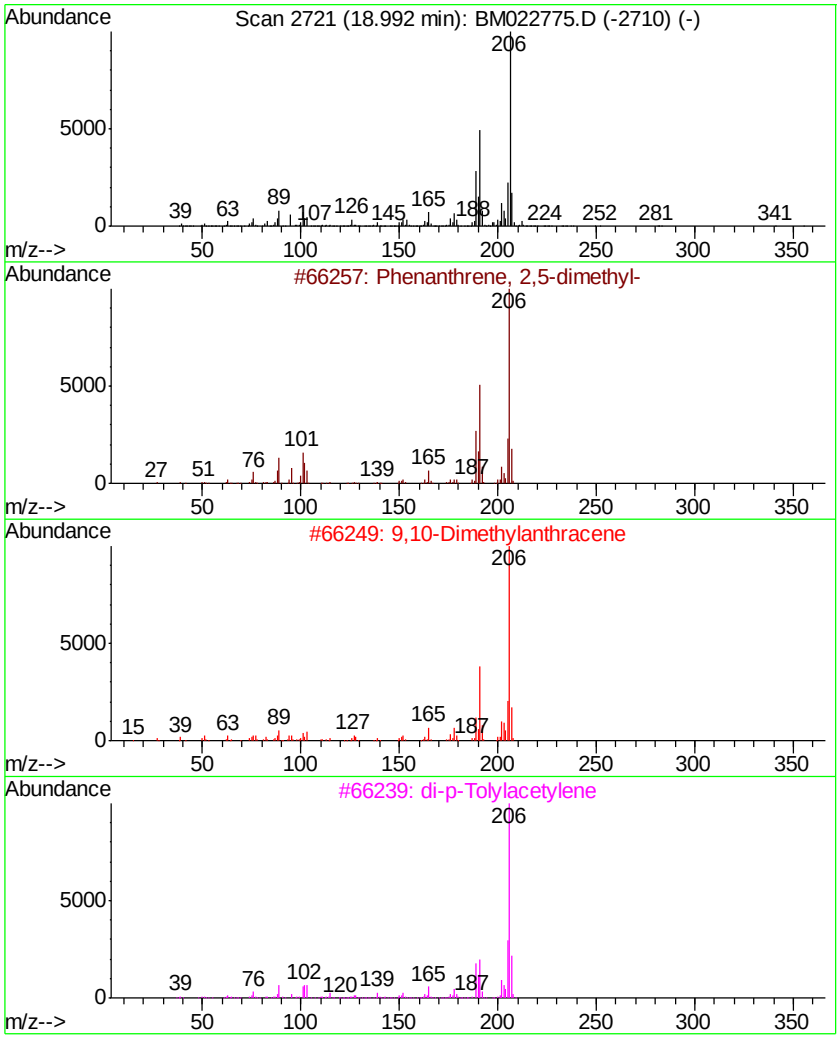
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

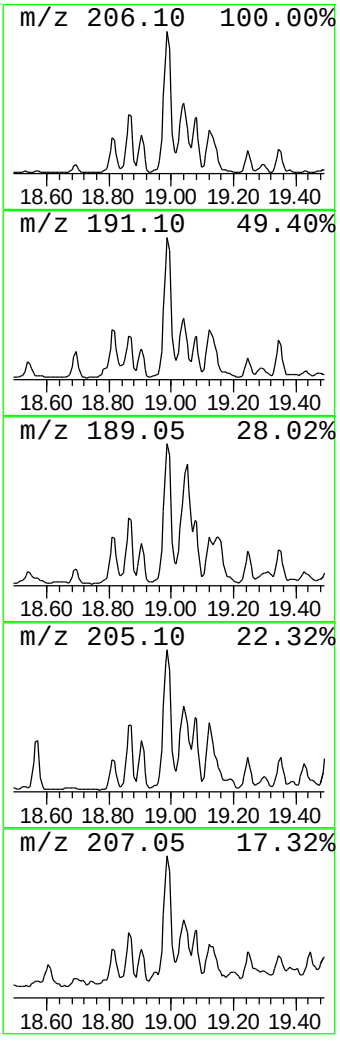
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.99	26.97 ng	3180190	Phenanthrene-d10	17.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	98
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	96
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	93
4	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	93
5	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM092519\
Data File : BM022775.D
Acq On : 25 Sep 2019 17:16
Operator : JU
Sample : K4997-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : WC-08-091919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM092019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

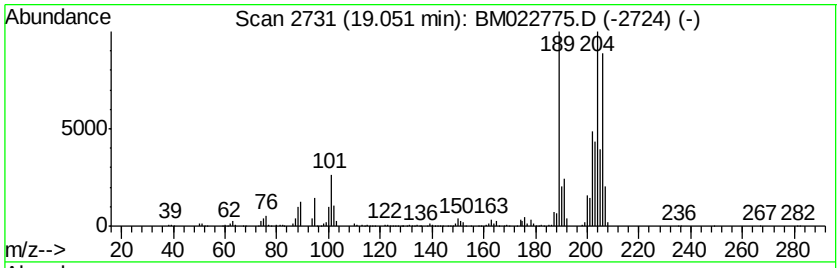
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

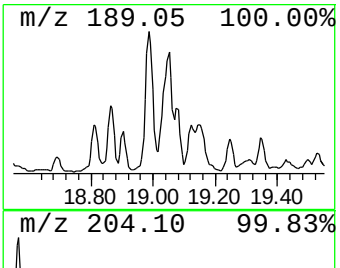
****

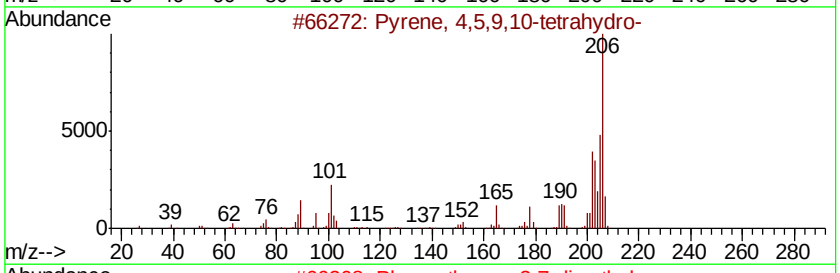
Peak Number 14 Pyrene, 4,5,9,10-tetrahydro- Concentration Rank 11

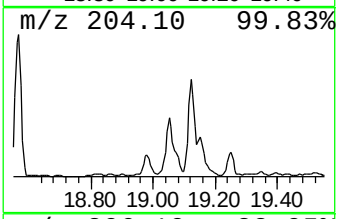
R.T.	EstConc	Area	Relative to ISTD	R.T.
19.05	14.37 ng	1694910	Phenanthrene-d10	17.19

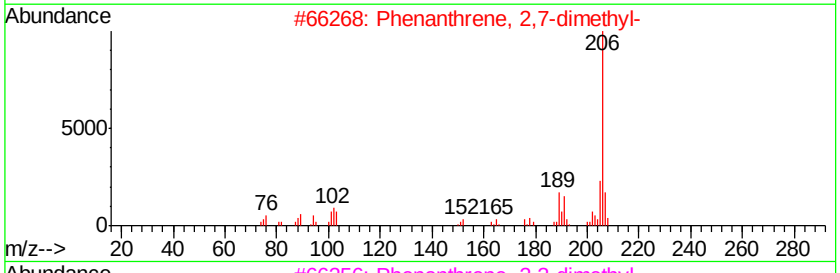
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	60
2	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	50
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	50
4	di-p-Tolylacetylene	206	C16H14	002789-88-0	49
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	49

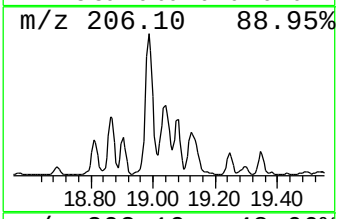


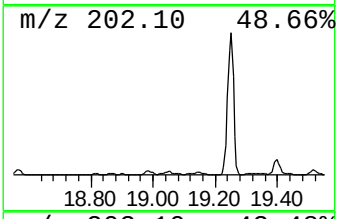


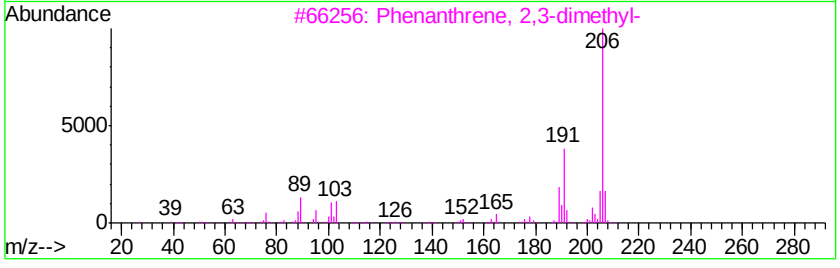


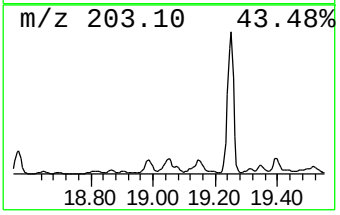












Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM092519\
Data File : BM022775.D
Acq On : 25 Sep 2019 17:16
Operator : JU
Sample : K4997-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : WC-08-091919

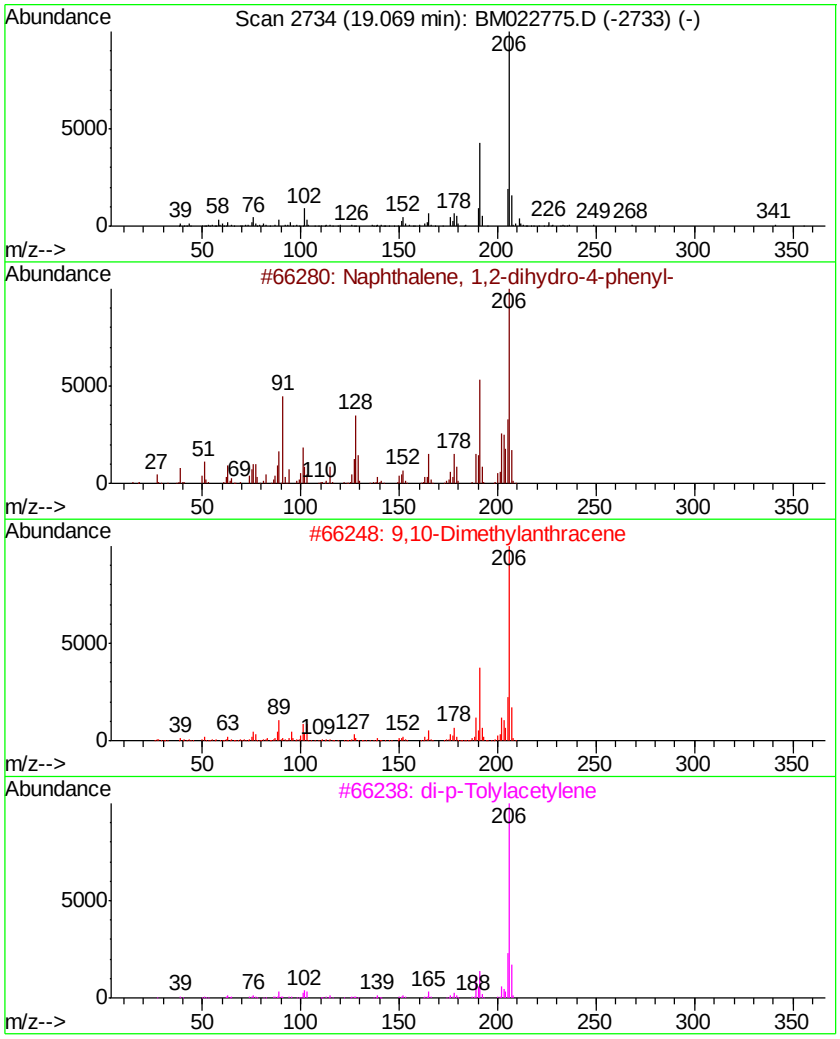
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM092019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

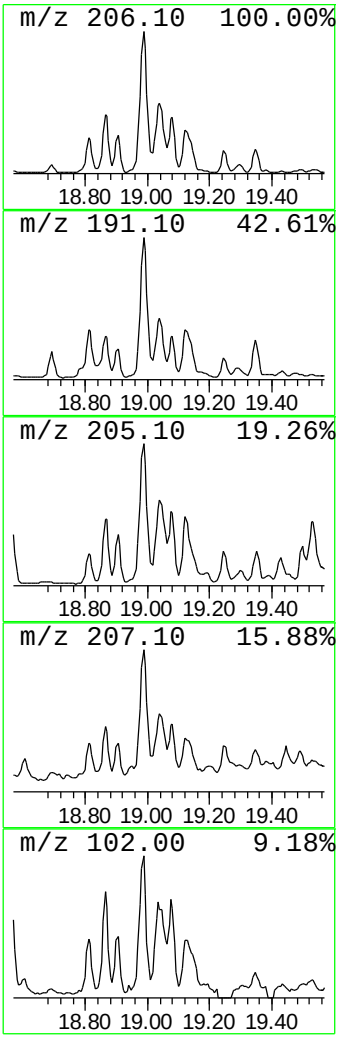
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 15 Naphthalene, 1,2-dihydro-4-... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.07	6.18 ng	728911	Phenanthrene-d10	17.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	91
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	86
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	83
4	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	83
5	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	83





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM092519\
Data File : BM022775.D
Acq On : 25 Sep 2019 17:16
Operator : JU
Sample : K4997-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : WC-08-091919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM092019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

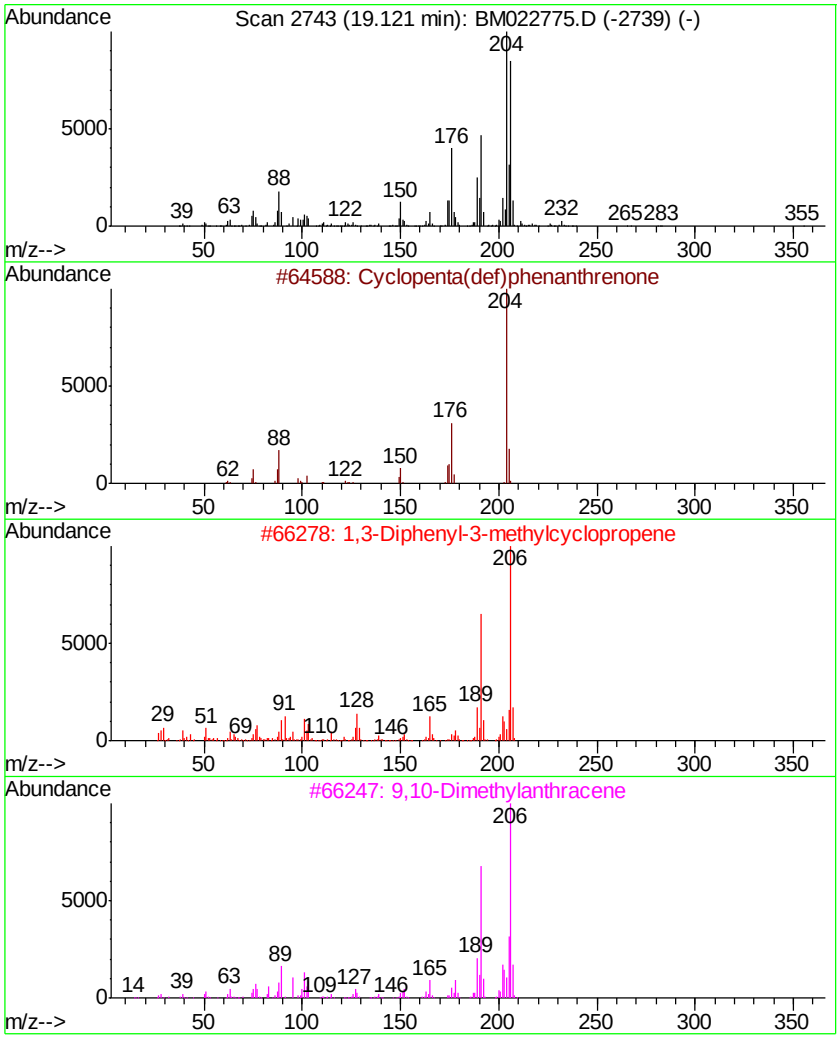
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

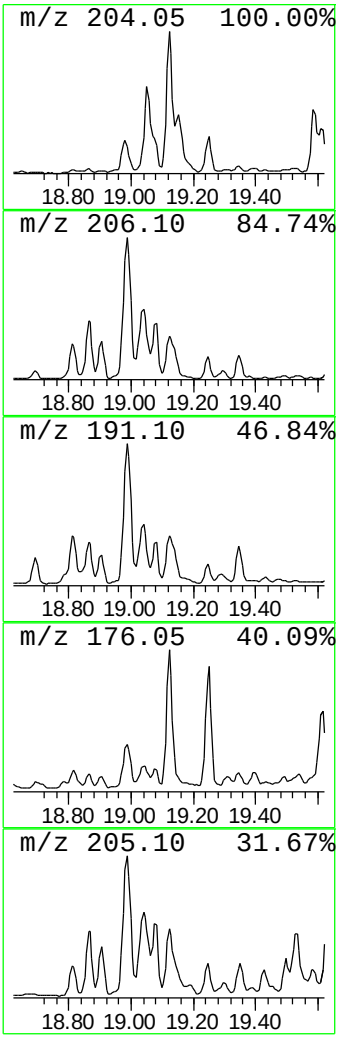
****

Peak Number 16 Cyclopenta(def)phenanthrenone Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.12	14.64 ng	1725910	Phenanthrene-d10	17.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	93
2	1,3-Diphenyl-3-methylcyclopropene	206	C16H14	086544-79-8	89
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	89
4	1H-Indene, 2-methyl-3-phenyl-	206	C16H14	035099-60-6	64
5	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	55





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM092519\
Data File : BM022775.D
Acq On : 25 Sep 2019 17:16
Operator : JU
Sample : K4997-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : WC-08-091919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM092019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

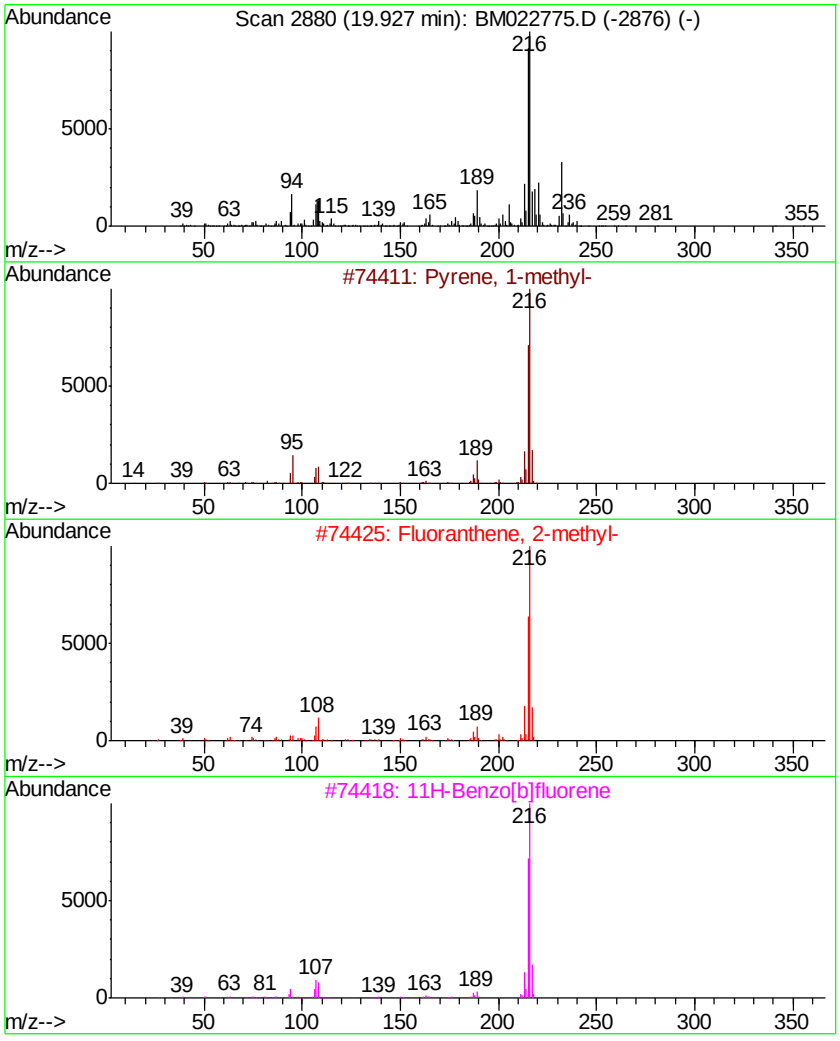
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

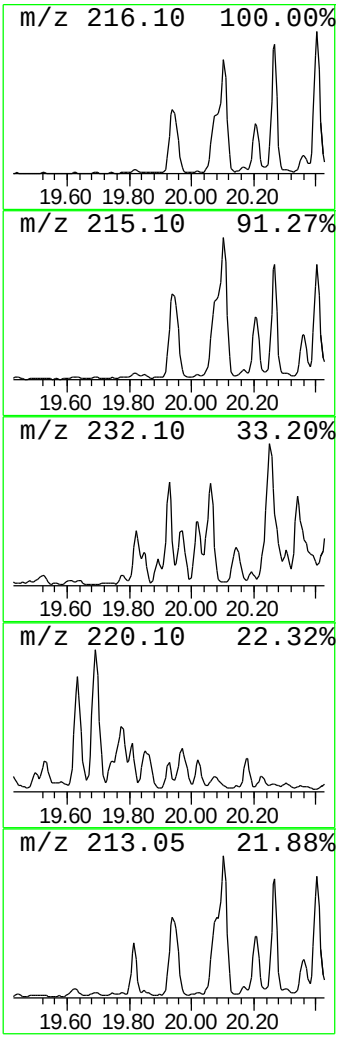
****

Peak Number 17 Pyrene, 1-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.93	6.11 ng	2526450	Chrysene-d12	21.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	96
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
4	Pyrene, 4-methyl-	216	C17H12	003353-12-6	87
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	74





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM092519\
Data File : BM022775.D
Acq On : 25 Sep 2019 17:16
Operator : JU
Sample : K4997-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : WC-08-091919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM092019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

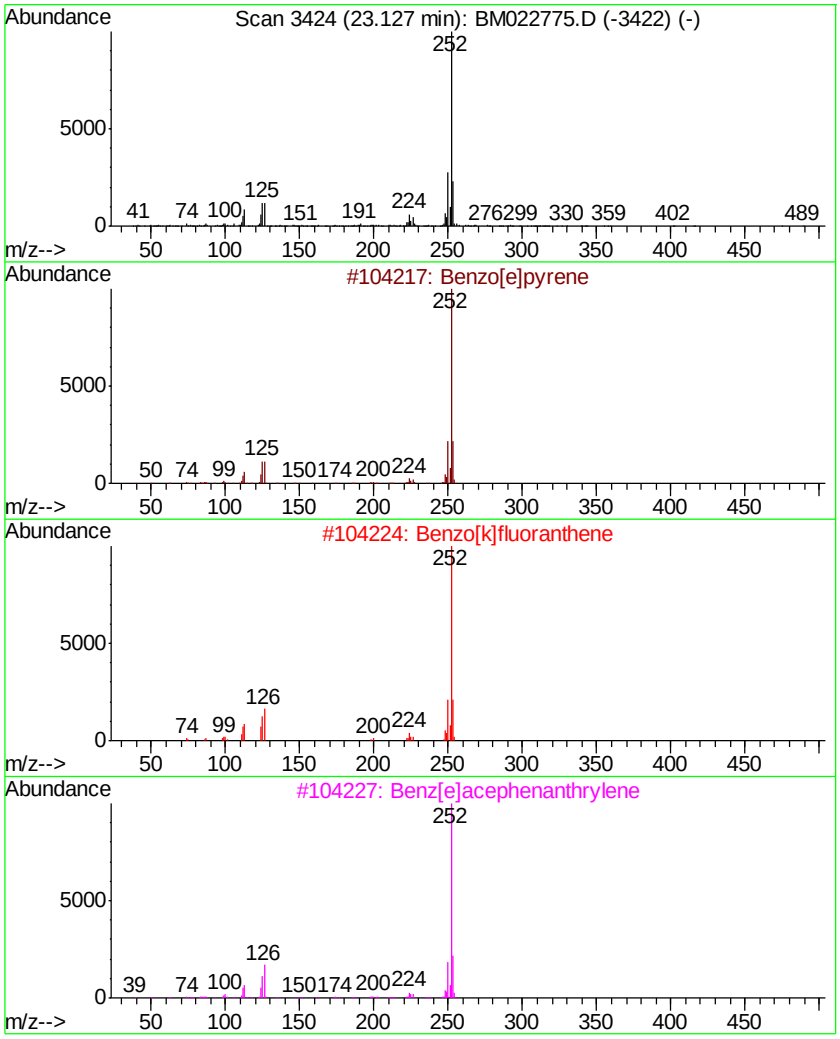
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

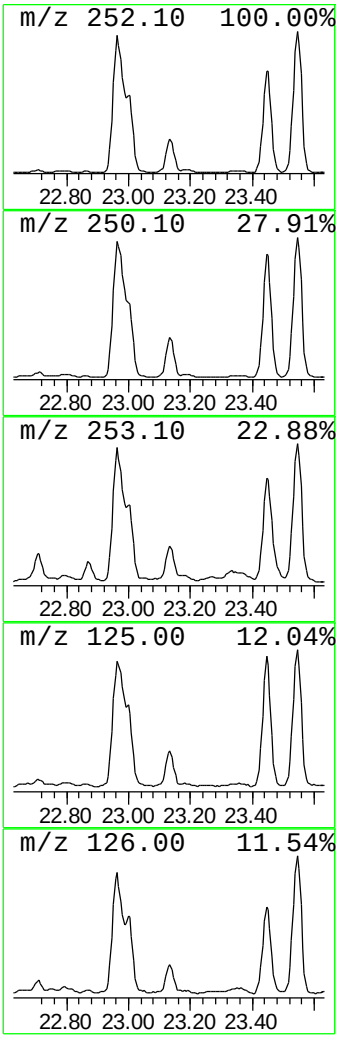
****

Peak Number 18 Benzo[e]pyrene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.13	6.07 ng	809333	Perylene-d12	23.64

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	95
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	94
4	Benzo[j]fluoranthene	252	C20H12	000205-82-3	90
5	Benzo[a]pyrene	252	C20H12	000050-32-8	90





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM092519\
Data File : BM022775.D
Acq On : 25 Sep 2019 17:16
Operator : JU
Sample : K4997-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : WC-08-091919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM092019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

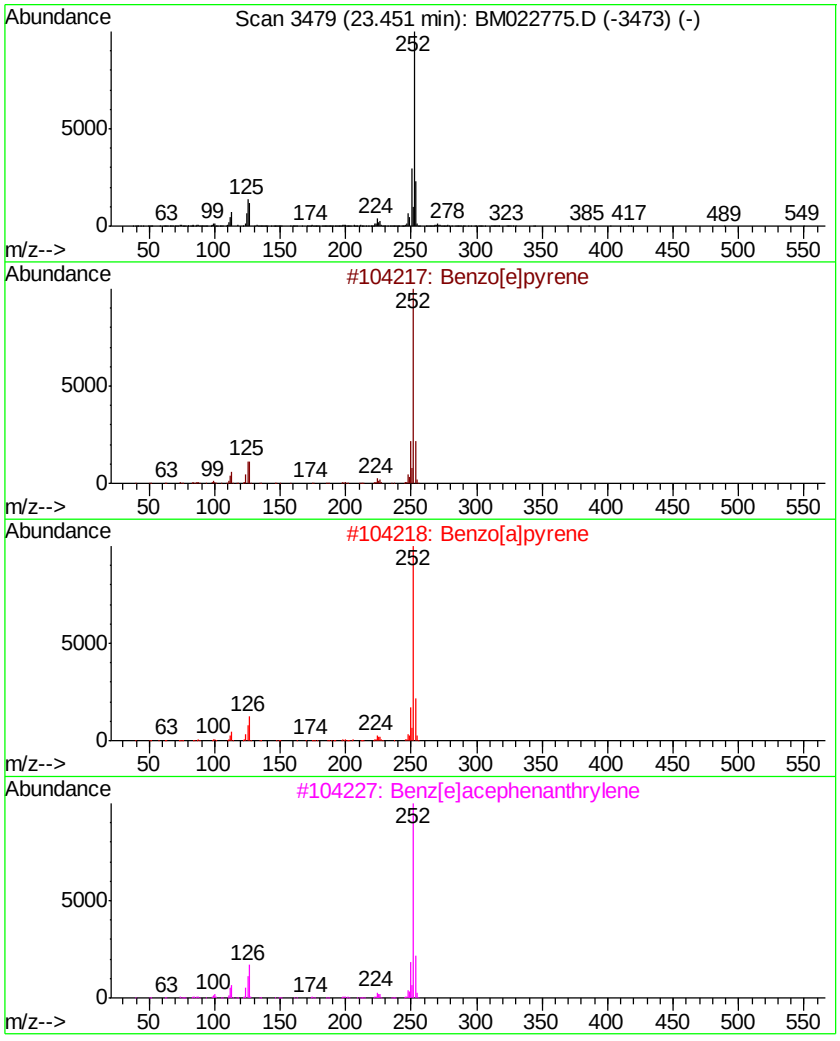
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

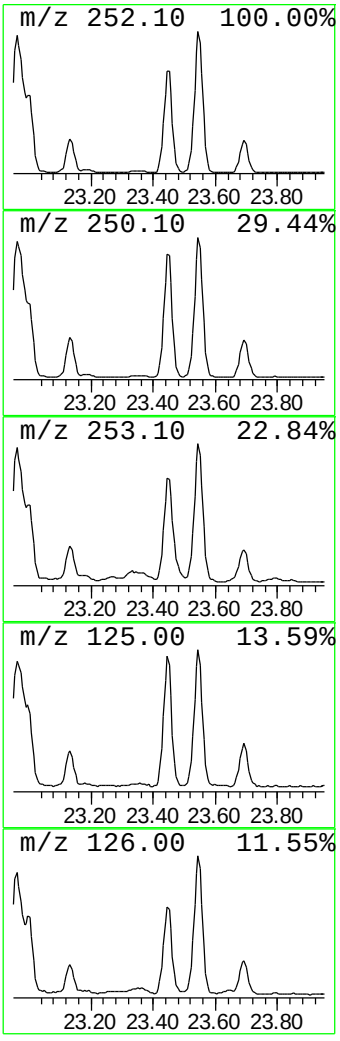
****

Peak Number 19 Benzo[j]fluoranthene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.45	22.70 ng	3025930	Perylene-d12	23.64

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	94
2	Benzo[a]pyrene	252	C20H12	000050-32-8	93
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90
4	Benzo[j]fluoranthene	252	C20H12	000205-82-3	90
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	89





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM092519\
Data File : BM022775.D
Acq On : 25 Sep 2019 17:16
Operator : JU
Sample : K4997-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : WC-08-091919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM092019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

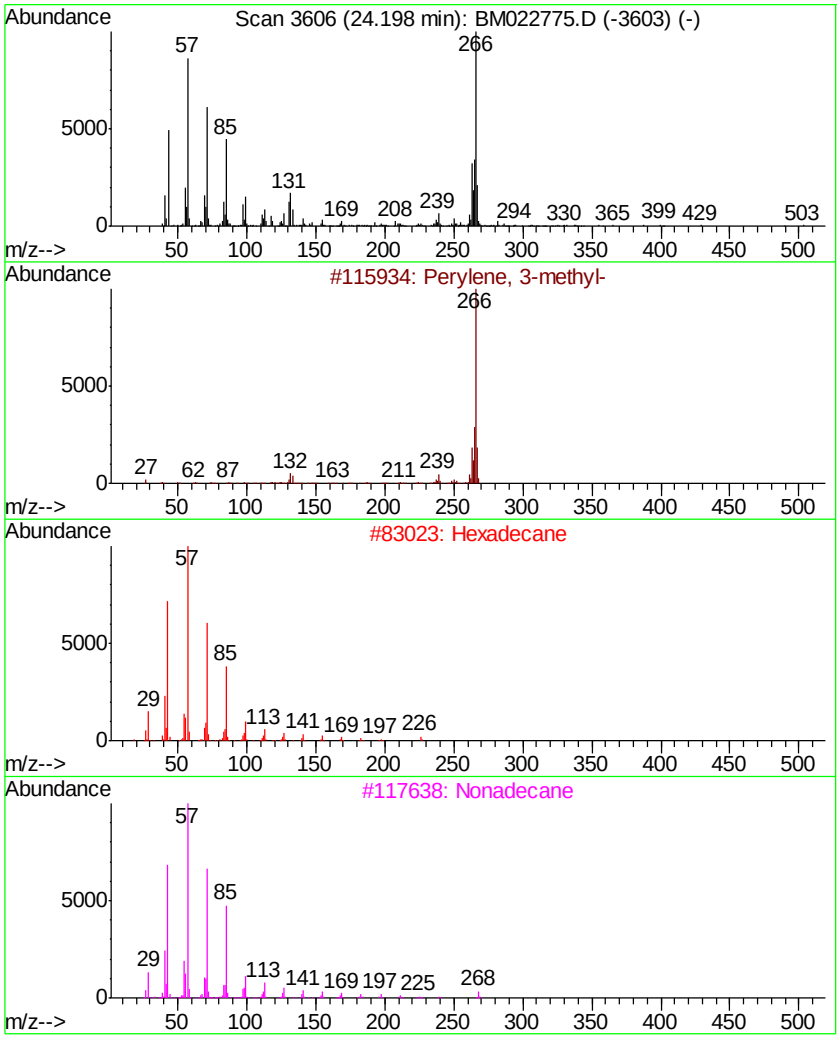
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

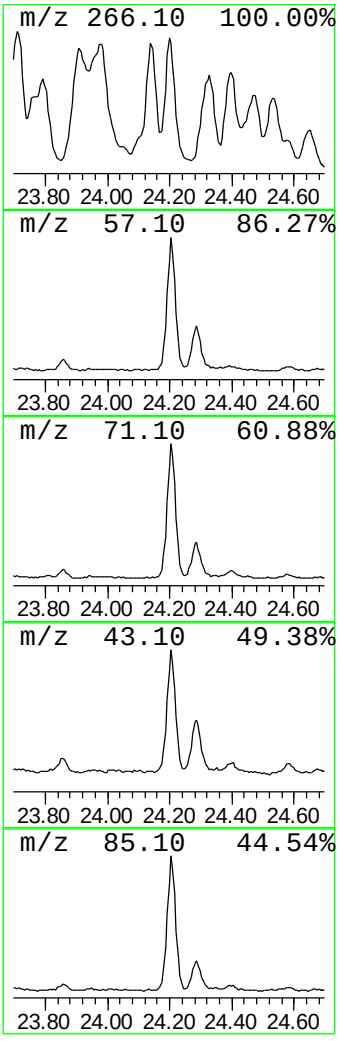
****

Peak Number 20 Hexadecane Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.20	8.97 ng	1195330	Perylene-d12	23.64

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Perylene, 3-methyl-	266	C21H14	024471-47-4	95
2	Hexadecane	226	C16H34	000544-76-3	91
3	Nonadecane	268	C19H40	000629-92-5	91
4	Heptadecane	240	C17H36	000629-78-7	68
5	11H-Indeno[2,1-a]phenanthrene	266	C21H14	000220-97-3	56





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM092519\
Data File : BM022775.D
Acq On : 25 Sep 2019 17:16
Operator : JU
Sample : K4997-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : WC-08-091919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM092019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Butane, 2-methoxy...	3.02	32.4	ng	2051220	1	7.82	1264450	20.0
unknown7.35	7.35	69.2	ng	4373360	1	7.82	1264450	20.0
Phenanthrene, 2-m...	18.06	20.7	ng	2440380	4	17.19	2358300	20.0
Phenanthrene, 1-m...	18.12	26.3	ng	3096380	4	17.19	2358300	20.0
1H-Cyclopropa[l]p...	18.19	6.4	ng	758118	4	17.19	2358300	20.0
1H-Indene, 2-phenyl-	18.26	27.8	ng	3280220	4	17.19	2358300	20.0
Anthracene, 2-met...	18.30	16.1	ng	1900110	4	17.19	2358300	20.0
1,2,4,8-Tetrameth...	18.56	7.9	ng	927941	4	17.19	2358300	20.0
9,10-Anthracenedione	18.60	9.3	ng	1100530	4	17.19	2358300	20.0
Phenanthrene, 3,6...	18.82	6.6	ng	776532	4	17.19	2358300	20.0
Phenanthrene, 1,7...	18.86	6.9	ng	816584	4	17.19	2358300	20.0
Phenanthrene, 2,5...	18.99	27.0	ng	3180190	4	17.19	2358300	20.0
Pyrene, 4,5,9,10-...	19.05	14.4	ng	1694910	4	17.19	2358300	20.0
Naphthalene, 1,2-...	19.07	6.2	ng	728911	4	17.19	2358300	20.0
Cyclopenta(def)ph...	19.12	14.6	ng	1725910	4	17.19	2358300	20.0
Pyrene, 1-methyl-	19.93	6.1	ng	2526450	5	21.37	8268510	20.0
Benzo[e]pyrene	23.13	6.1	ng	809333	6	23.64	2666420	20.0
Benzo[j]fluoranthene	23.45	22.7	ng	3025930	6	23.64	2666420	20.0
Hexadecane	24.20	9.0	ng	1195330	6	23.64	2666420	20.0