LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP022824\
Data File : BP019921.D
Acq On : 28 Feb 2024 17:45
Operator : MA/JU
Sample : P1602-10
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : WC-4

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\8270E-BP022624.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BP019921.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.464	397	404	412	rBV	1194331	1769006	19.32%	1.478%
2	7.064	668	676	685	rBV	1126159	1885468	20.59%	1.576%
3	7.887	809	816	825	rBV	395950	639468	6.98%	0.534%
4	8.428	901	908	920	rBV	60285	146827	1.60%	0.123%
5	9.063	1008	1016	1026	rBV	724131	1239659	13.54%	1.036%
6	10.693	1285	1293	1298	rBV	463906	808098	8.82%	0.675%
7	12.575	1607	1613	1622	rVB	119357	202701	2.21%	0.169%
8	13.157	1706	1712	1723	rVB	1683945	2508440	27.39%	2.096%
9	13.710	1799	1806	1813	rVB3	60615	148259	1.62%	0.124%
10	13.857	1824	1831	1836	rBV	182195	316980	3.46%	0.265%
11	13.993	1848	1854	1864	rVB	169106	276463	3.02%	0.231%
12	14.093	1866	1871	1874	rBV	93234	136162	1.49%	0.114%
13	14.257	1892	1899	1912	rBV	784662	1343246	14.67%	1.122%
14	14.534	1936	1946	1952	rBV	655883	1017643	11.11%	0.850%
15	14.598	1952	1957	1965	rVB	120139	207106	2.26%	0.173%
16	14.751	1976	1983	1991	rBV5	71227	174025	1.90%	0.145%
17	14.934	2006	2014	2022	rBV2	138210	264845	2.89%	0.221%
18	15.010	2023	2027	2033	rVB	139300	200561	2.19%	0.168%
19	15.151	2044	2051	2056	rBV3	167912	364763	3.98%	0.305%
20	15.322	2073	2080	2084	rBV4	88483	220961	2.41%	0.185%
21	15.410	2090	2095	2101	rVB	143577	229221	2.50%	0.192%
22	15.534	2112	2116	2120	rVV	114847	184497	2.01%	0.154%
23	15.587	2120	2125	2138	rVB2	252808	569038	6.21%	0.476%
24	15.798	2156	2161	2170	rBV3	92592	196086	2.14%	0.164%
25	15.881	2170	2175	2181	rBV	94695	195285	2.13%	0.163%
26	16.034	2192	2201	2209	rVV	1417277	2122297	23.18%	1.773%
27	16.269	2235	2241	2250	rBV3	192333	362327	3.96%	0.303%
28	16.598	2289	2297	2302	rBV5	138690	339877	3.71%	0.284%
29	16.645	2302	2305	2311	rVB	109999	162994	1.78%	0.136%
30	16.869	2339	2343	2350	rVB2	93887	136346	1.49%	0.114%
31	16.957	2353	2358	2364	rVB2	210608	339073	3.70%	0.283%
32	17.116	2380	2385	2393	rVB	267413	439306	4.80%	0.367%
33	17.298	2411	2416	2419	rBV	660418	991458	10.83%	0.828%
34	17.345	2419	2424	2432	rVV	2966864	4237017	46.27%	3.541%
35	17.434	2434	2439	2444	rVV	999035	1400970	15.30%	1.171%
36	17.492	2444	2449	2454	rVB2	130948	246777	2.69%	0.206%

LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP022824\
Data File : BP019921.D
Acq On : 28 Feb 2024 17:45
Operator : MA/JU
Sample : P1602-10
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
WC-4

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\8270E-BP022624.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

37	17.710	2482	2486	2493	rBV	169981	266254	2.91%	0.222%
38	17.822	2501	2505	2510	rVV	134606	180209	1.97%	0.151%
39	17.881	2510	2515	2522	rVB2	349925	569391	6.22%	0.476%
40	18.022	2535	2539	2546	rVB	196744	364268	3.98%	0.304%
41	18.092	2547	2551	2555	rBV2	113642	177216	1.94%	0.148%
42	18.169	2559	2564	2567	rVV	992456	1457148	15.91%	1.218%
43	18.216	2567	2572	2578	rVB	1272832	2088089	22.80%	1.745%
44	18.298	2578	2586	2590	rBV	417094	650604	7.10%	0.544%
45	18.357	2590	2596	2600	rVV2	1248767	2336698	25.52%	1.953%
46	18.392	2600	2602	2609	rVB	824118	983467	10.74%	0.822%
47	18.481	2612	2617	2620	rBV4	120725	198855	2.17%	0.166%
48	18.551	2626	2629	2634	rVB2	219345	282040	3.08%	0.236%
49	18.657	2642	2647	2651	rBV2	434895	653512	7.14%	0.546%
50	18.704	2651	2655	2664	rVB	700300	1003635	10.96%	0.839%
51	18.863	2679	2682	2684	rBV	175945	220543	2.41%	0.184%
52	18.892	2684	2687	2691	rVV	260039	383096	4.18%	0.320%
53	18.939	2692	2695	2699	rVV	388862	500538	5.47%	0.418%
54	18.981	2699	2702	2706	rVB2	323538	423976	4.63%	0.354%
55	19.057	2710	2715	2720	rBV	1029558	1691604	18.47%	1.414%
56	19.116	2720	2725	2729	rVV2	464219	934864	10.21%	0.781%
57	19.151	2729	2731	2734	rVB	373369	353231	3.86%	0.295%
58	19.204	2734	2740	2745	rBV4	592182	1123163	12.26%	0.939%
59	19.322	2753	2760	2765	rBV	5436672	7274672	79.44%	6.079%
60	19.381	2766	2770	2773	rVV2	266061	418382	4.57%	0.350%
61	19.416	2773	2776	2780	rVV4	241536	432930	4.73%	0.362%
62	19.463	2780	2784	2788	rVV	571692	797688	8.71%	0.667%
63	19.516	2789	2793	2796	rVV2	237871	396076	4.33%	0.331%
64	19.551	2796	2799	2802	rVV	360460	528430	5.77%	0.442%
65	19.581	2802	2804	2809	rVV2	249642	320642	3.50%	0.268%
66	19.675	2810	2820	2827	rVV	5948057	9157508	100.00%	7.652%
67	19.745	2827	2832	2837	rVB2	498798	758648	8.28%	0.634%
68	19.875	2849	2854	2857	rBV	2022995	2463950	26.91%	2.059%
69	19.986	2868	2873	2881	rBV2	673973	1646238	17.98%	1.376%
70	20.075	2885	2888	2891	rVV3	218544	276188	3.02%	0.231%
71	20.122	2891	2896	2898	rVV3	633858	1064592	11.63%	0.890%
72	20.157	2899	2902	2909	rVB	1094191	1460504	15.95%	1.220%
73	20.222	2910	2913	2915	rBV3	164830	193131	2.11%	0.161%
74	20.251	2915	2918	2922	rVV	599578	780540	8.52%	0.652%
75	20.310	2924	2928	2933	rVB2	1007459	1330721	14.53%	1.112%
76	20.445	2948	2951	2955	rBV	735669	899693	9.82%	0.752%

LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP022824\
Data File : BP019921.D
Acq On : 28 Feb 2024 17:45
Operator : MA/JU
Sample : P1602-10
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : WC-4

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\8270E-BP022624.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

77	20.492	2955	2959	2963	rVB	781236	900069	9.83%	0.752%
78	20.892	3023	3027	3033	rVB	806716	1185159	12.94%	0.990%
79	21.057	3047	3055	3058	rBV3	900235	1705242	18.62%	1.425%
80	21.092	3058	3061	3064	rVV	635329	777018	8.49%	0.649%
81	21.127	3064	3067	3072	rVV3	805545	1218186	13.30%	1.018%
82	21.186	3074	3077	3082	rVB	621373	889415	9.71%	0.743%
83	21.398	3107	3113	3118	rBV2	3464614	6723299	73.42%	5.618%
84	21.445	3118	3121	3130	rVB	3169136	4440064	48.49%	3.710%
85	21.527	3132	3135	3138	rVB2	214700	241950	2.64%	0.202%
86	21.569	3139	3142	3144	rBV	192439	265104	2.89%	0.222%
87	21.627	3148	3152	3160	rVV4	412191	797227	8.71%	0.666%
88	21.786	3176	3179	3183	rVB2	283019	380713	4.16%	0.318%
89	21.927	3200	3203	3206	rBV2	248217	320444	3.50%	0.268%
90	21.992	3206	3214	3219	rVV3	1318800	2712536	29.62%	2.267%
91	22.045	3219	3223	3229	rVV2	635829	1171634	12.79%	0.979%
92	22.198	3246	3249	3252	rBV2	467239	603349	6.59%	0.504%
93	23.104	3396	3403	3408	rBV2	2118014	5396425	58.93%	4.509%
94	23.286	3429	3434	3446	rVB	516757	1021194	11.15%	0.853%
95	23.627	3485	3492	3501	rVB	1443668	3077125	33.60%	2.571%
96	23.739	3503	3511	3518	rVB	2133224	4327237	47.25%	3.616%
97	23.839	3523	3528	3533	rVV	608277	1323549	14.45%	1.106%
98	23.892	3533	3537	3546	rVB3	505596	1209440	13.21%	1.011%
99	26.386	3954	3961	3975	rVB2	1002117	3194174	34.88%	2.669%
100	27.174	4086	4095	4110	rVB	771582	2723861	29.74%	2.276%

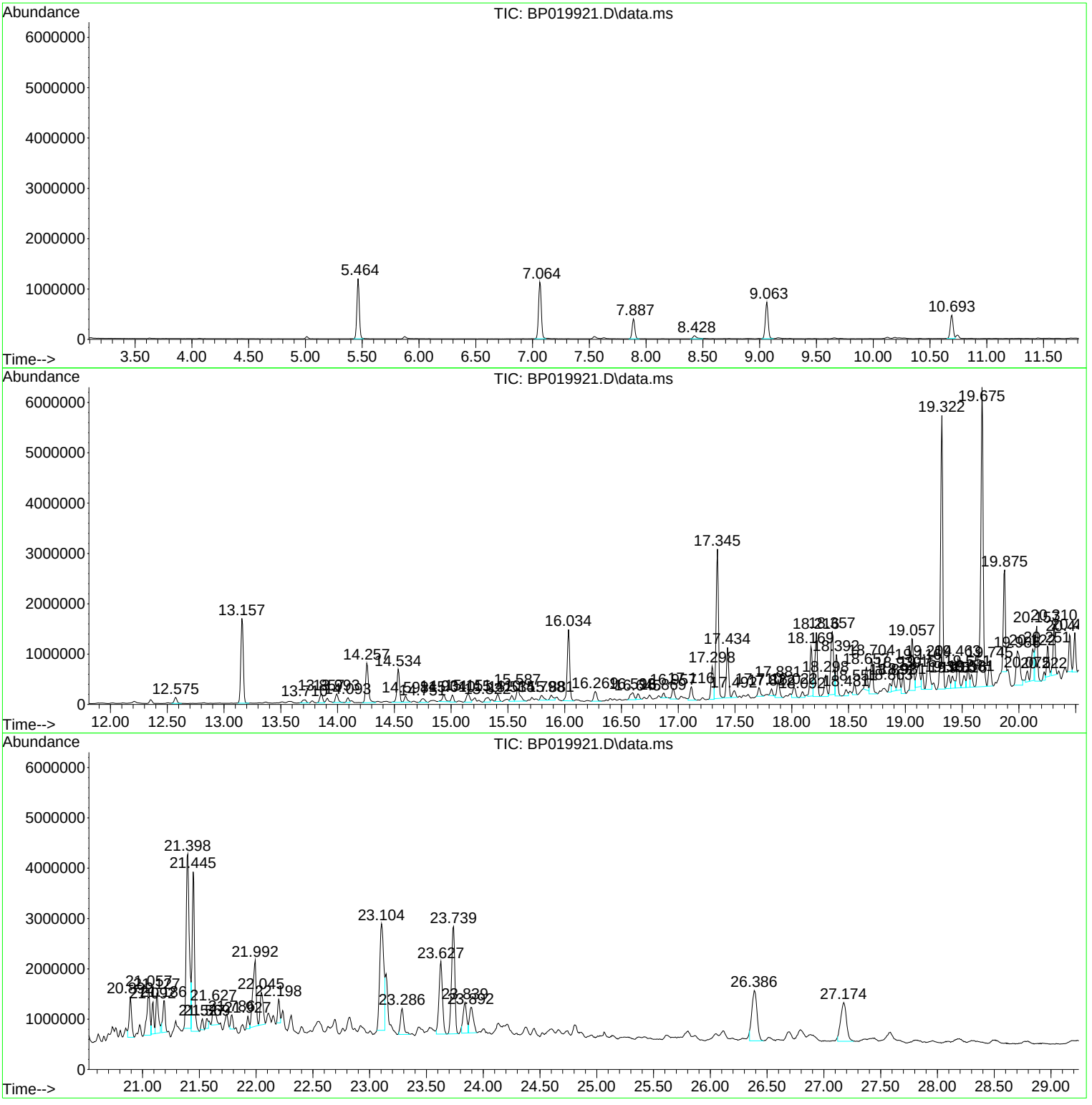
Sum of corrected areas: 119670598

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP022824\
Data File : BP019921.D
Acq On : 28 Feb 2024 17:45
Operator : MA/JU
Sample : P1602-10
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
WC-4

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP022624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP022824\
Data File : BP019921.D
Acq On : 28 Feb 2024 17:45
Operator : MA/JU
Sample : P1602-10
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
WC-4

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP022624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

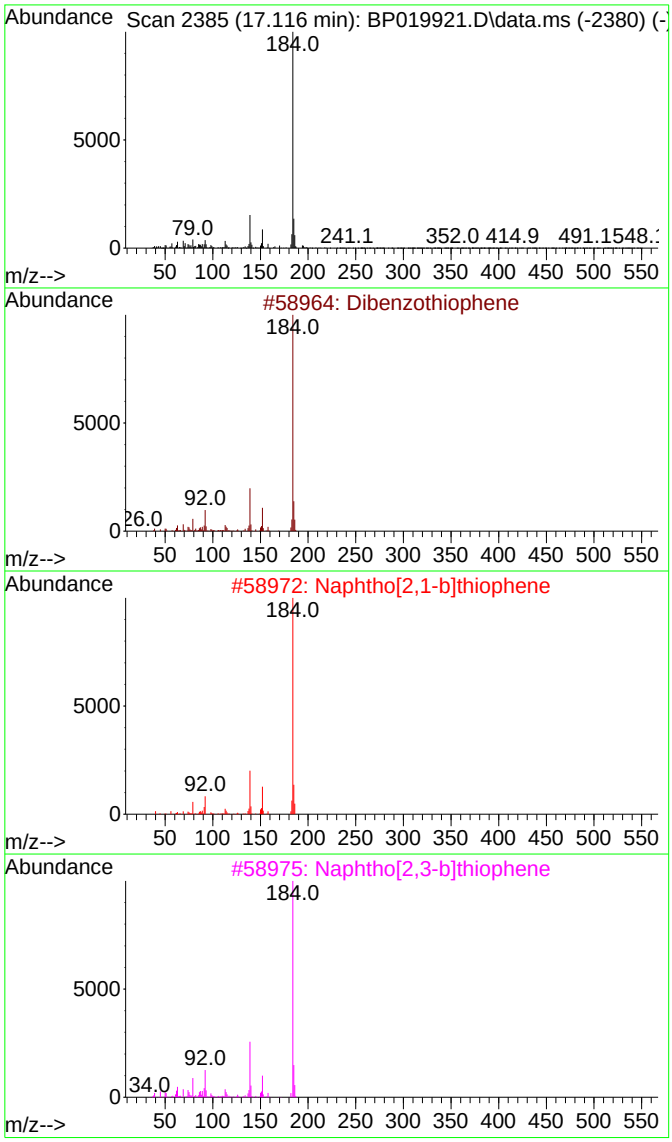
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

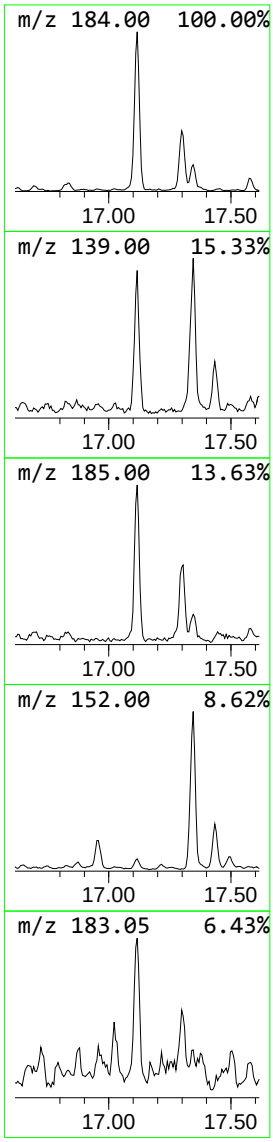
****

Peak Number 1 Dibenzothiophene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.116	8.86 ng	439306	Phenanthrene-d10	17.298

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	95
2	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	94
3	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	93
4	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	93
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	90





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP022824\
Data File : BP019921.D
Acq On : 28 Feb 2024 17:45
Operator : MA/JU
Sample : P1602-10
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
WC-4

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP022624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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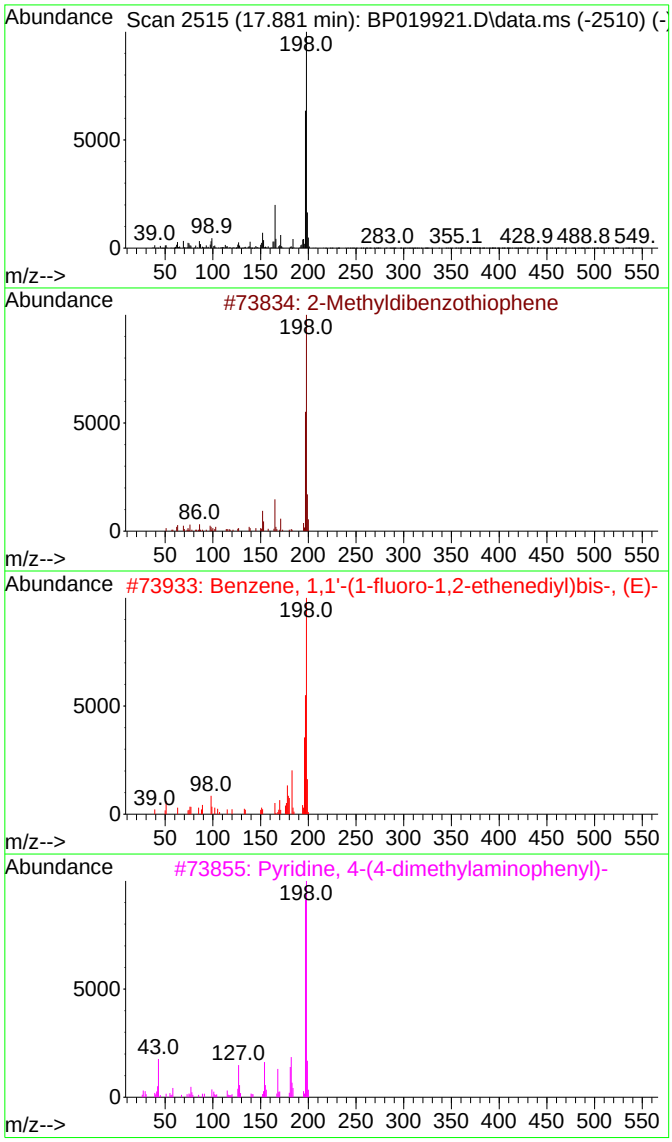
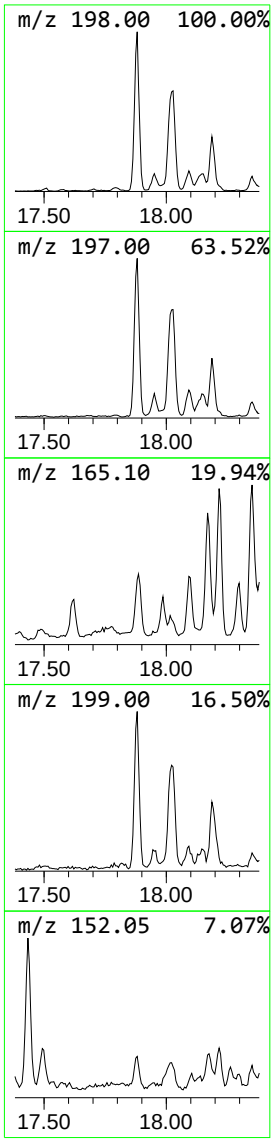
Peak Number 2 2-Methyldibenzothiophene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.881	11.49 ng	569391	Phenanthrene-d10	17.298

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Methyldibenzothiophene	198	C13H10S	1000383-55-1	87
2	Benzene, 1,1'-(1-fluoro-1,2-ethe...	198	C14H11F	000671-19-2	80
3	Pyridine, 4-(4-dimethylaminophen...	198	C13H14N2	001137-80-0	72
4	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	68
5	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	68





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP022824\
Data File : BP019921.D
Acq On : 28 Feb 2024 17:45
Operator : MA/JU
Sample : P1602-10
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
WC-4

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP022624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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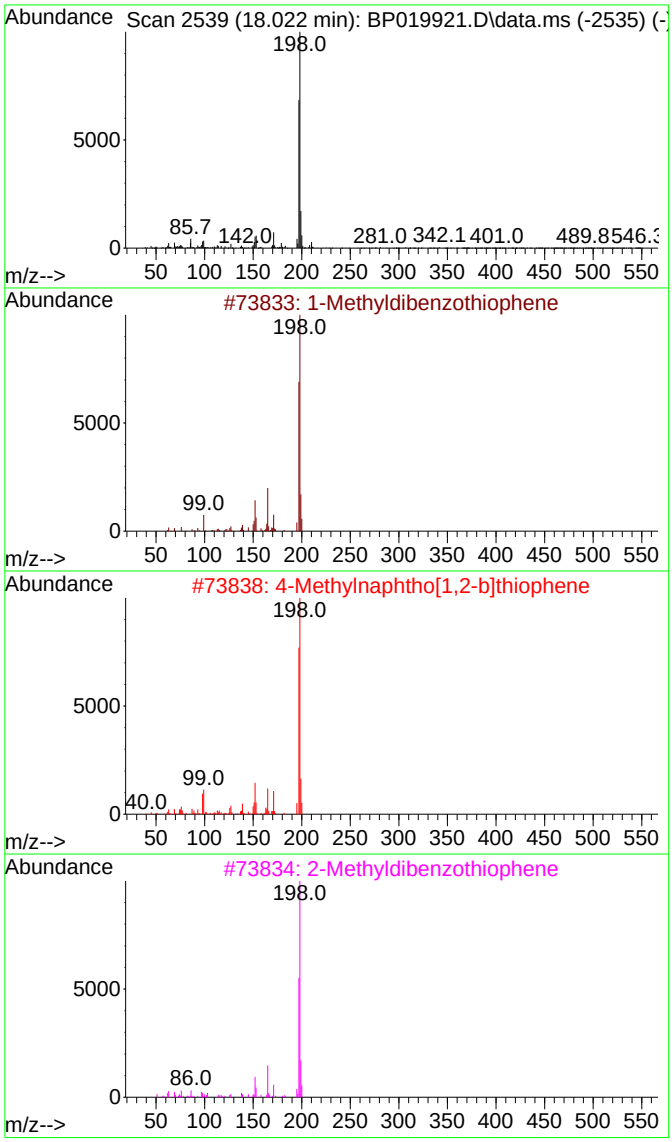
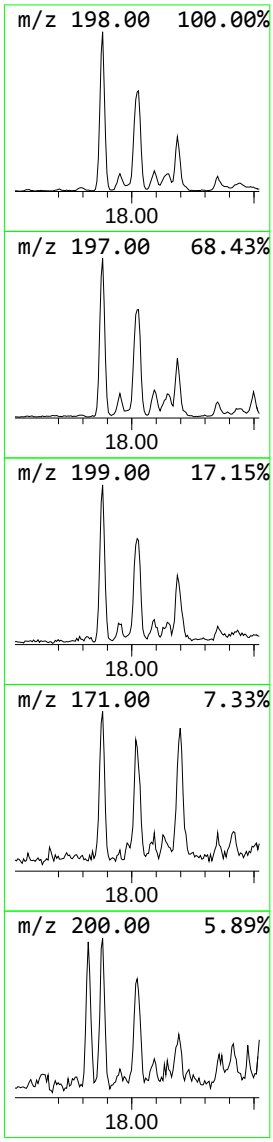
Peak Number 3 1-Methyldibenzothiophene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.022	7.35 ng	364268	Phenanthrene-d10	17.298

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Methyldibenzothiophene	198	C13H10S	031317-07-4	91
2	4-Methylnaphtho[1,2-b]thiophene	198	C13H10S	067388-11-8	91
3	2-Methyldibenzothiophene	198	C13H10S	1000383-55-1	91
4	3-quinolinecarbonitrile, 2-ethyl...	198	C12H10N2O	1000396-02-7	72
5	Benzeneacetonitrile, 4-(1,2,3,6-...	198	C13H14N2	1000115-51-2	72





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP022824\
Data File : BP019921.D
Acq On : 28 Feb 2024 17:45
Operator : MA/JU
Sample : P1602-10
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
WC-4

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP022624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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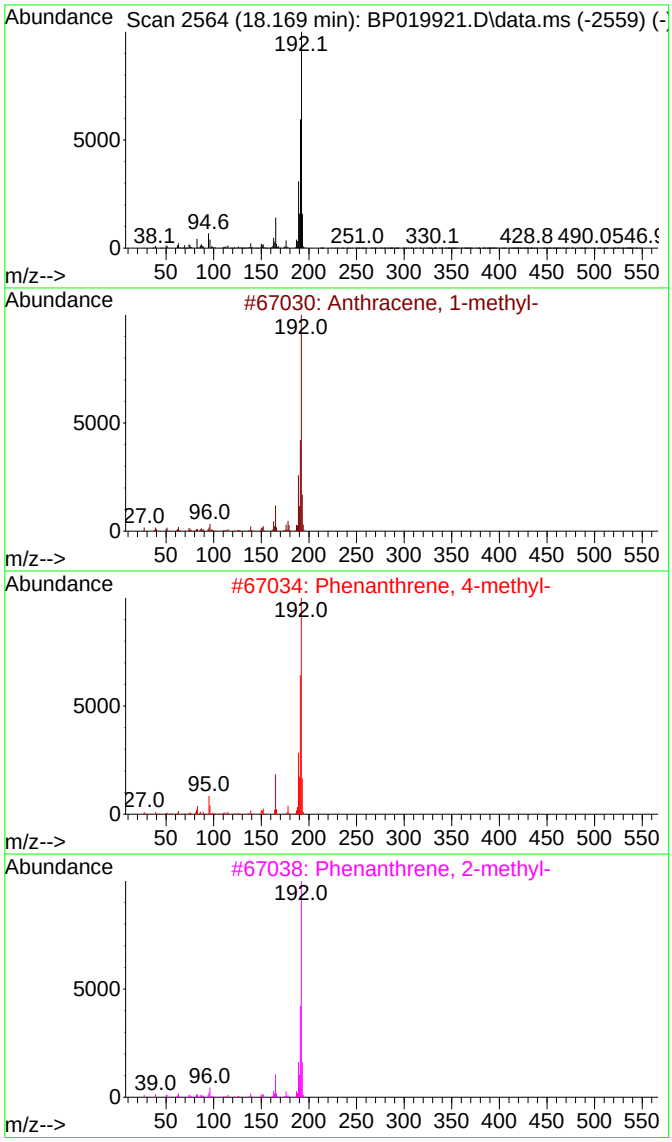
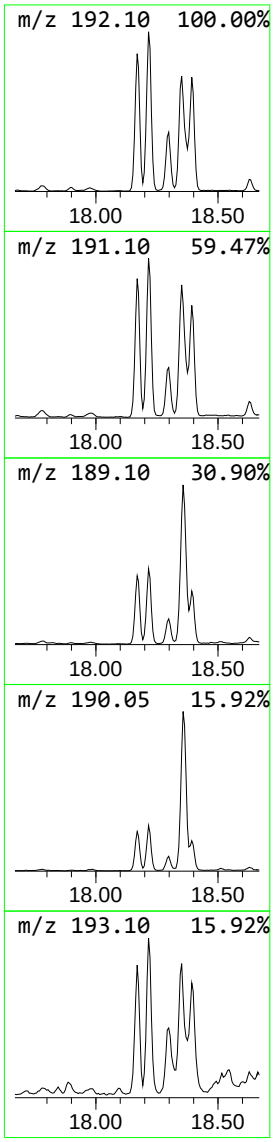
Peak Number 4 Anthracene, 1-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.169	29.39 ng	1457150	Phenanthrene-d10	17.298

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95
2	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	95
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	93





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP022824\
Data File : BP019921.D
Acq On : 28 Feb 2024 17:45
Operator : MA/JU
Sample : P1602-10
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
WC-4

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP022624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

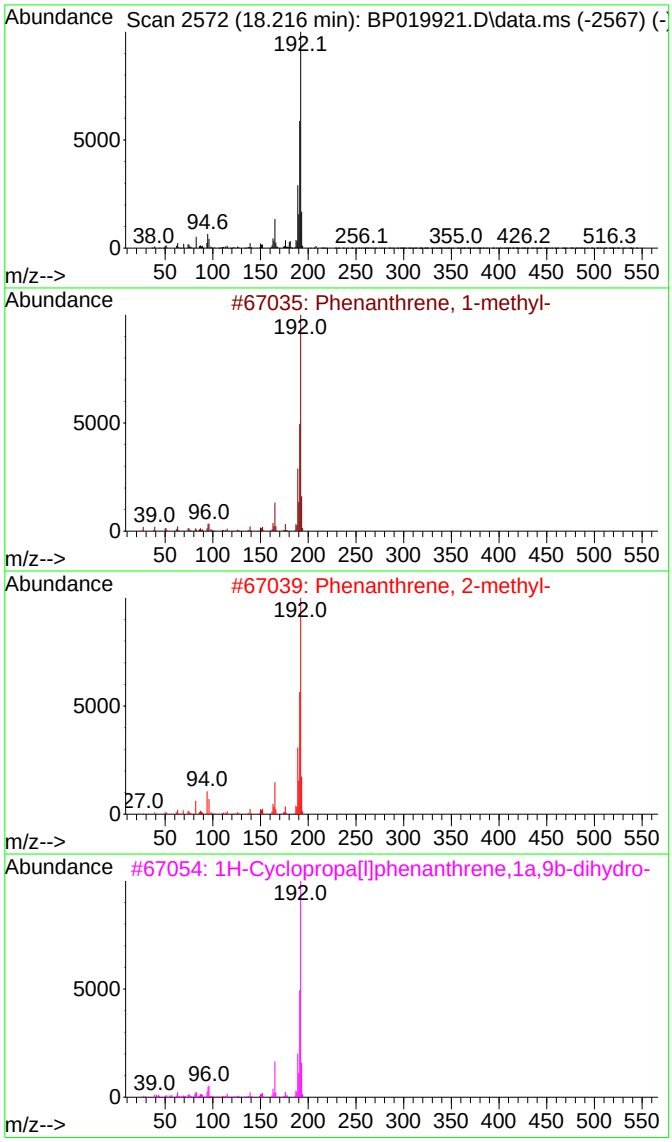
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

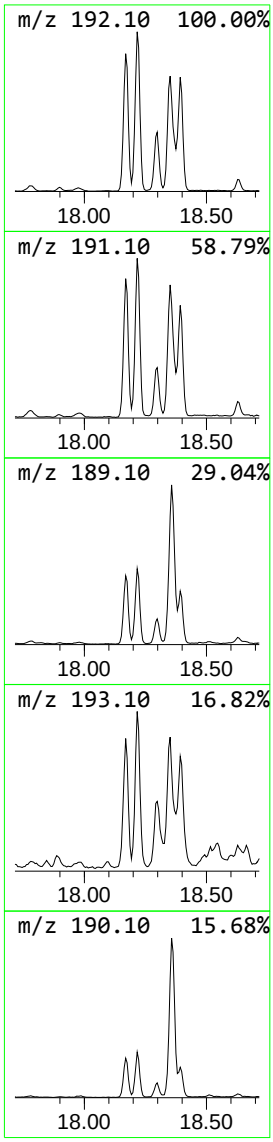
****

Peak Number 5 Phenanthrene, 1-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.216	42.12 ng	2088090	Phenanthrene-d10	17.298

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94





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Acq On : 28 Feb 2024 17:45
Operator : MA/JU
Sample : P1602-10
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
WC-4

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP022624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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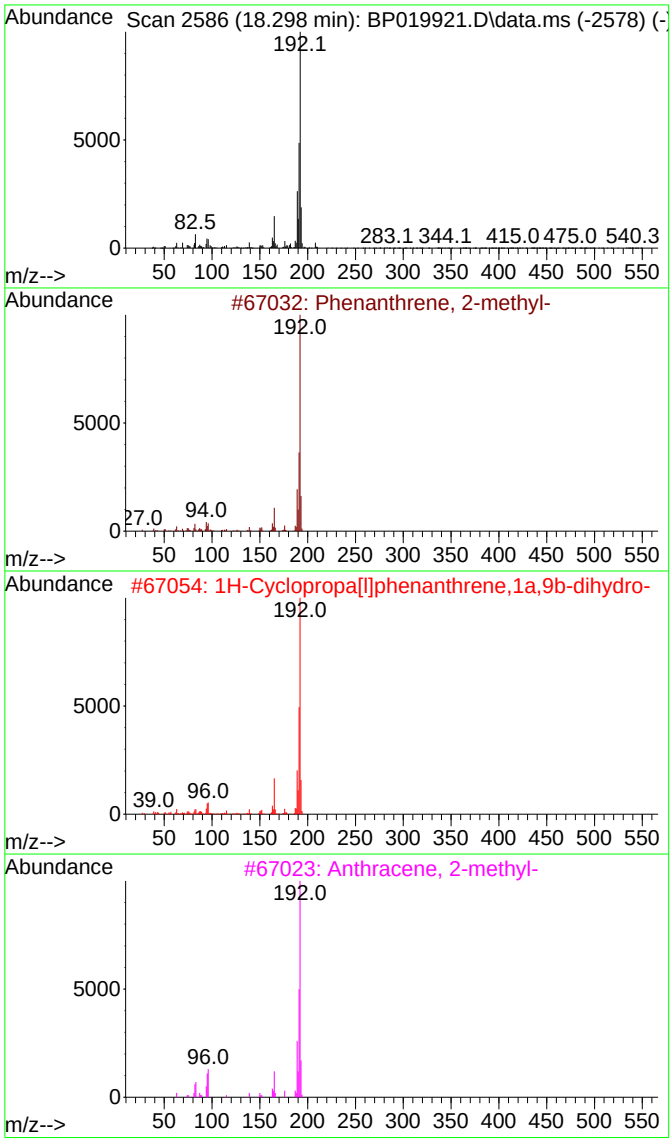
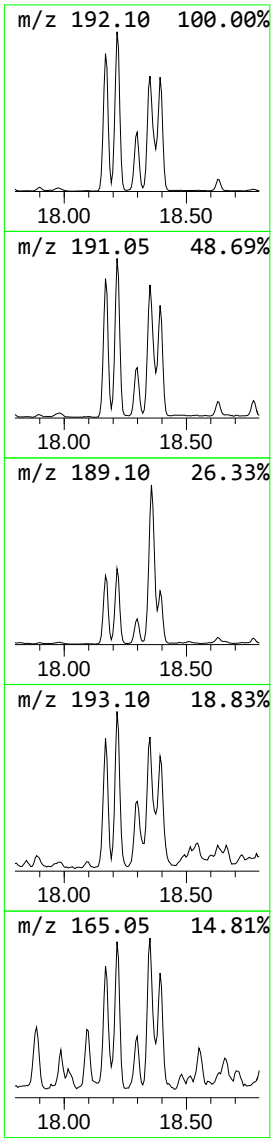
Peak Number 6 Phenanthrene, 2-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.298	13.12 ng	650604	Phenanthrene-d10	17.298

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	91





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Sample : P1602-10
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
WC-4

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP022624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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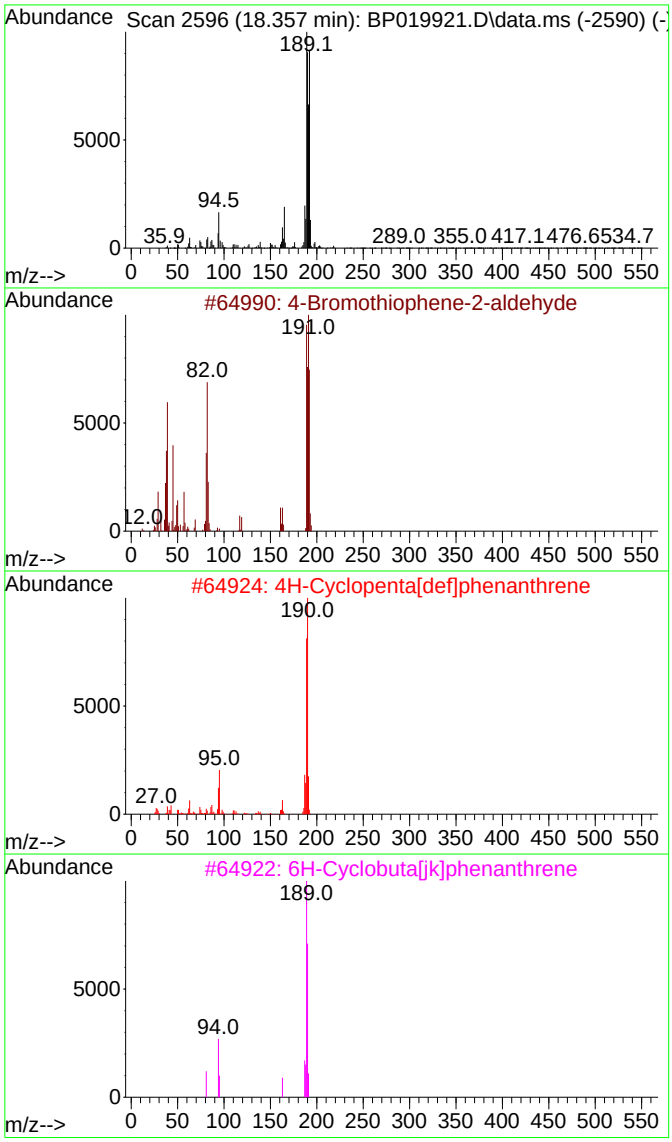
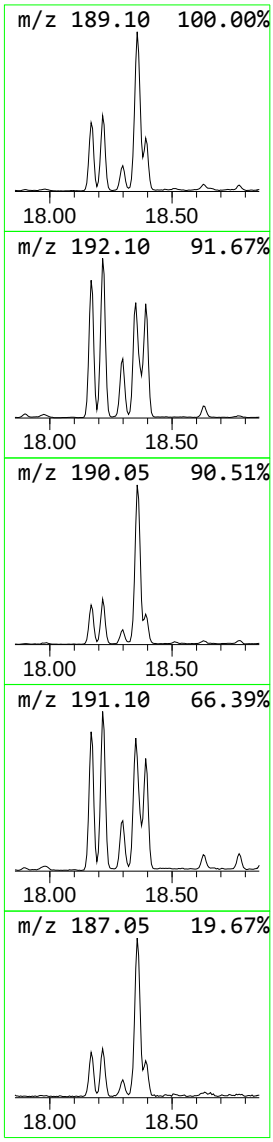
Peak Number 7 4-Bromothiophene-2-aldehyde Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.357	47.14 ng	2336700	Phenanthrene-d10	17.298

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Bromothiophene-2-aldehyde	190	C5H3BrOS	018791-75-8	58
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	55
3	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	49
4	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	46
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	46





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Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

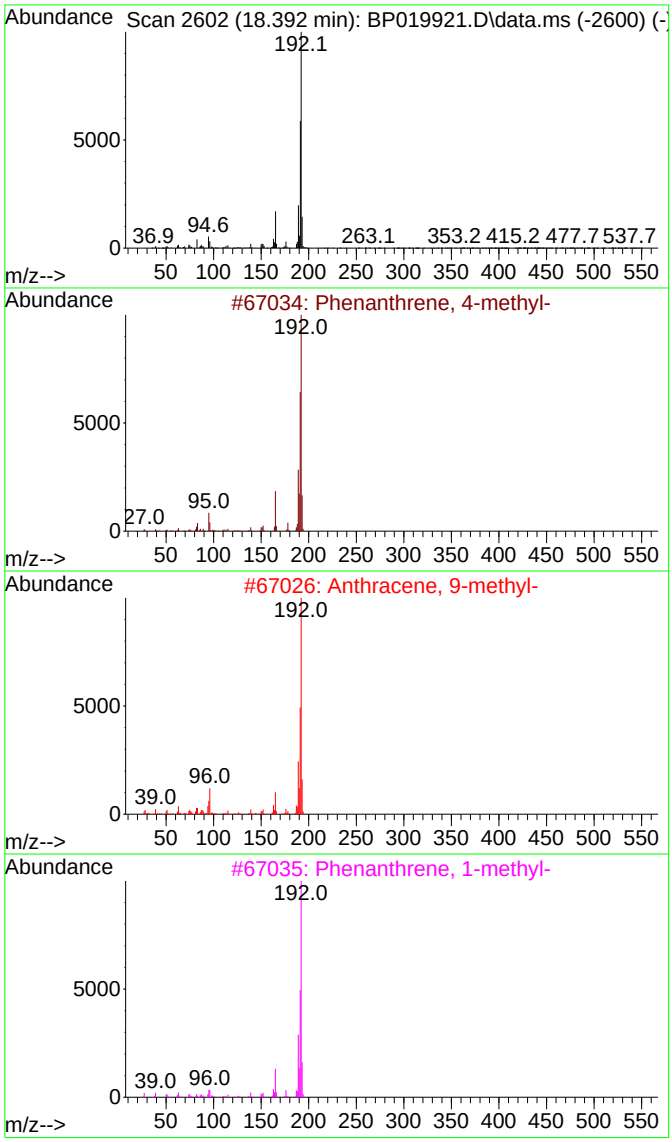
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

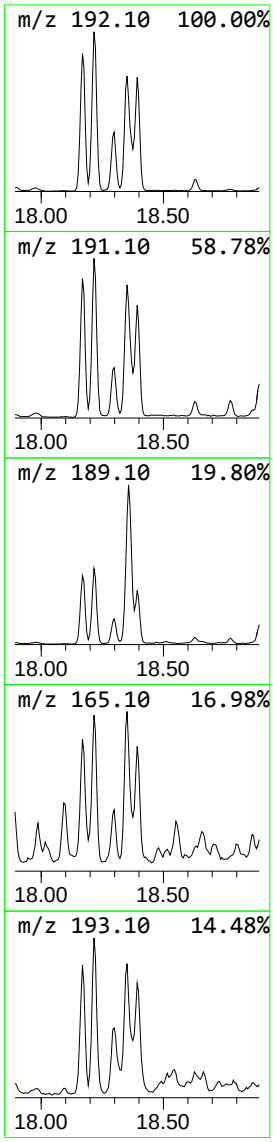
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.392	19.84 ng	983467	Phenanthrene-d10	17.298

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	96
2	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	90
4	Propyne, 1,3-diphenyl-	192	C15H12	004980-70-5	87
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	87





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Acq On : 28 Feb 2024 17:45
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Sample : P1602-10
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
WC-4

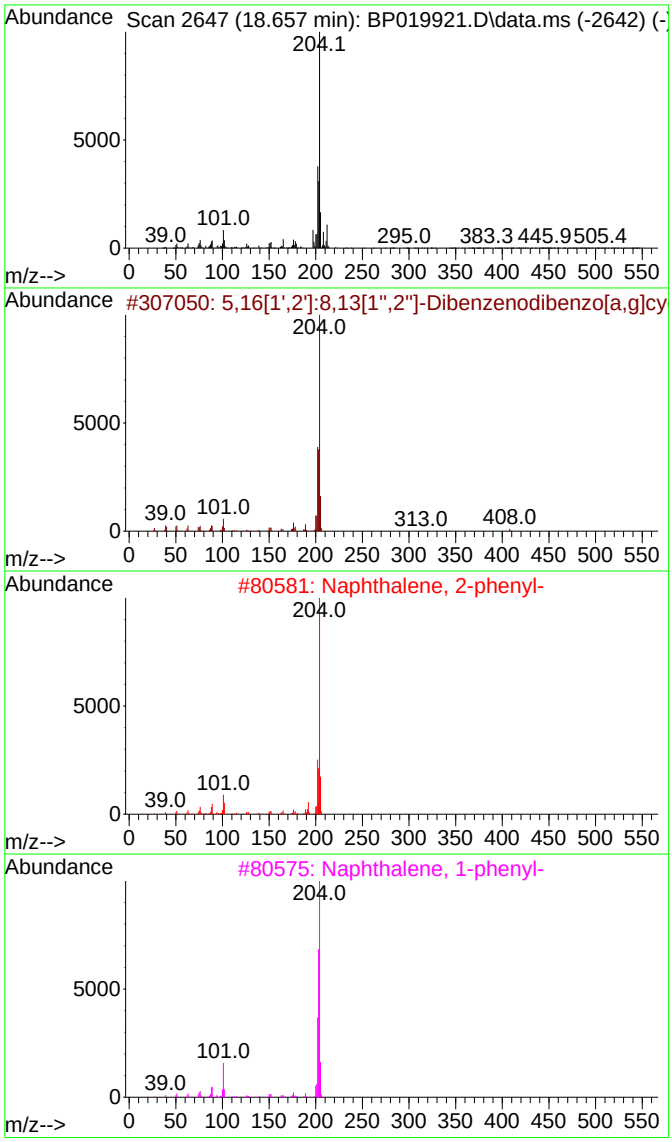
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP022624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

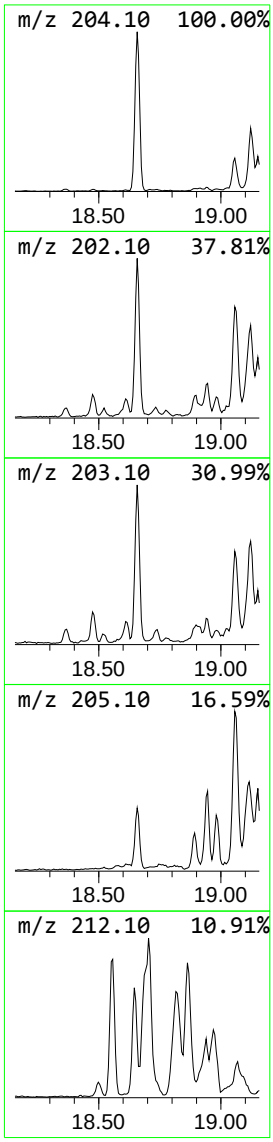
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 9 5,16[1',2']:8,13[1'',2'']-D... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.657	13.18 ng	653512	Phenanthrene-d10	17.298

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	87
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	86
3	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	53
4	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	52
5	[1,1'-Biphenyl]-2-ol, 5-chloro-	204	C12H9ClO	000607-12-5	50





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Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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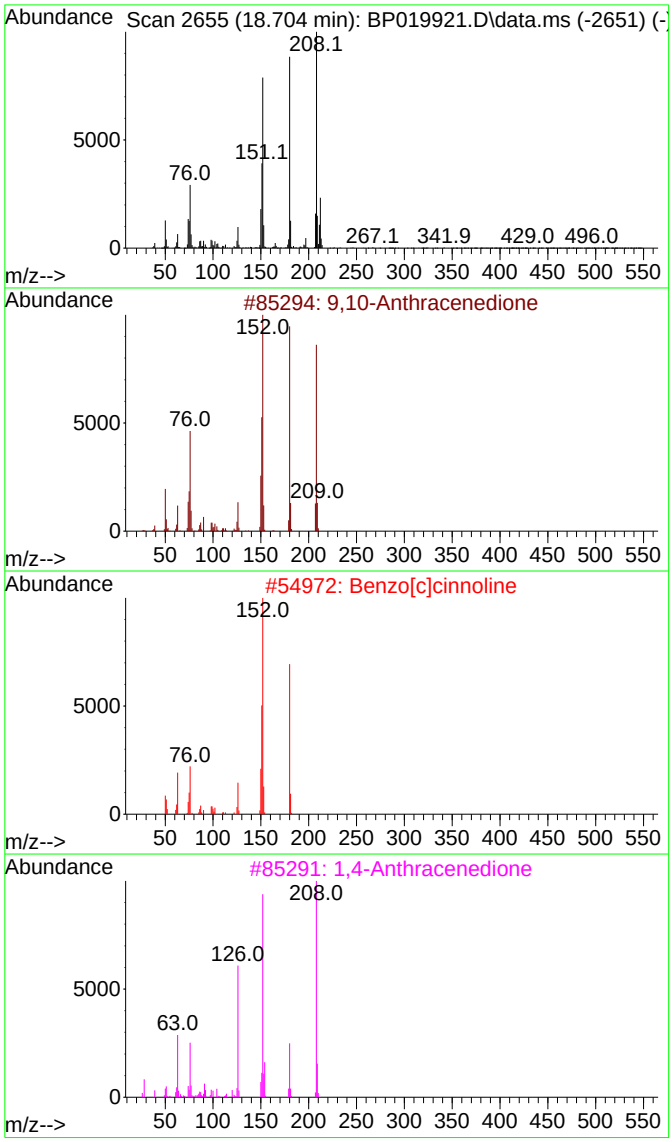
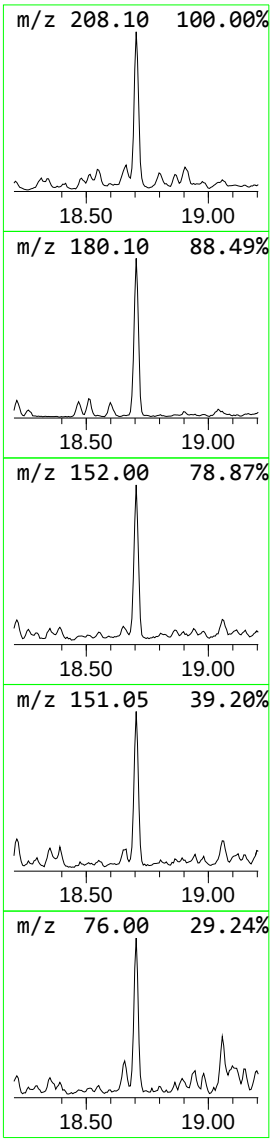
Peak Number 10 9,10-Anthracenedione Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.704	20.25 ng	1003640	Phenanthrene-d10	17.298

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	78
3	1,4-Anthracenedione	208	C14H8O2	000635-12-1	60
4	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	55
5	1H-Phenalen-1-one	180	C13H8O	000548-39-0	55





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Acq On : 28 Feb 2024 17:45
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Sample : P1602-10
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP022624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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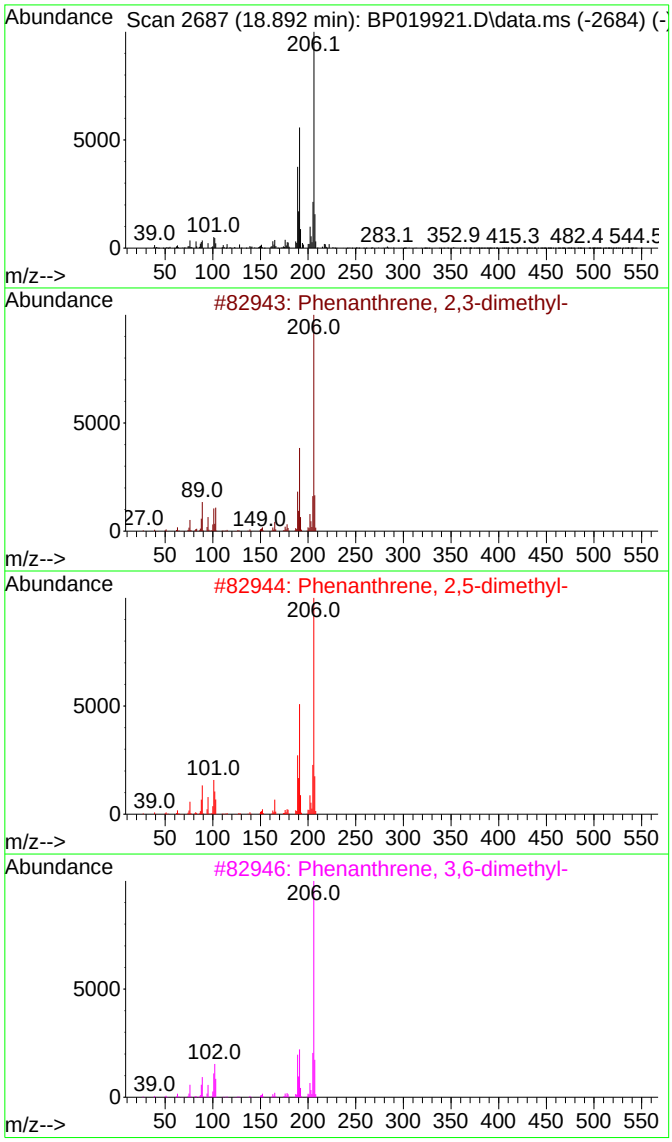
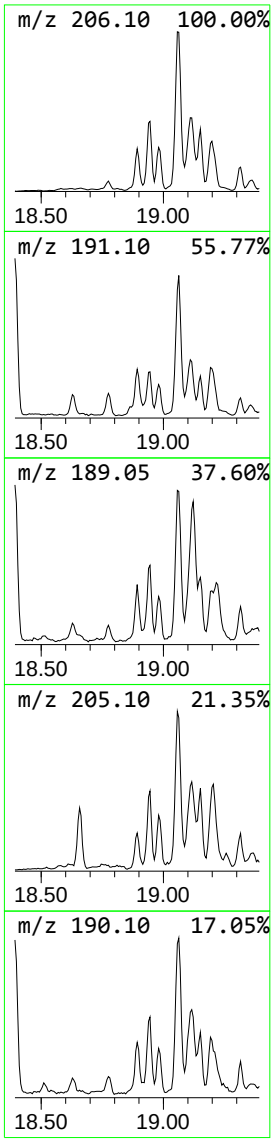
Peak Number 11 Phenanthrene, 2,3-dimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.892	7.73 ng	383096	Phenanthrene-d10	17.298

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	90
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	90
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	90
4	3,4-Dimethylphenanthrene	206	C16H14	1000452-24-5	87
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	83





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Acq On : 28 Feb 2024 17:45
Operator : MA/JU
Sample : P1602-10
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
WC-4

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP022624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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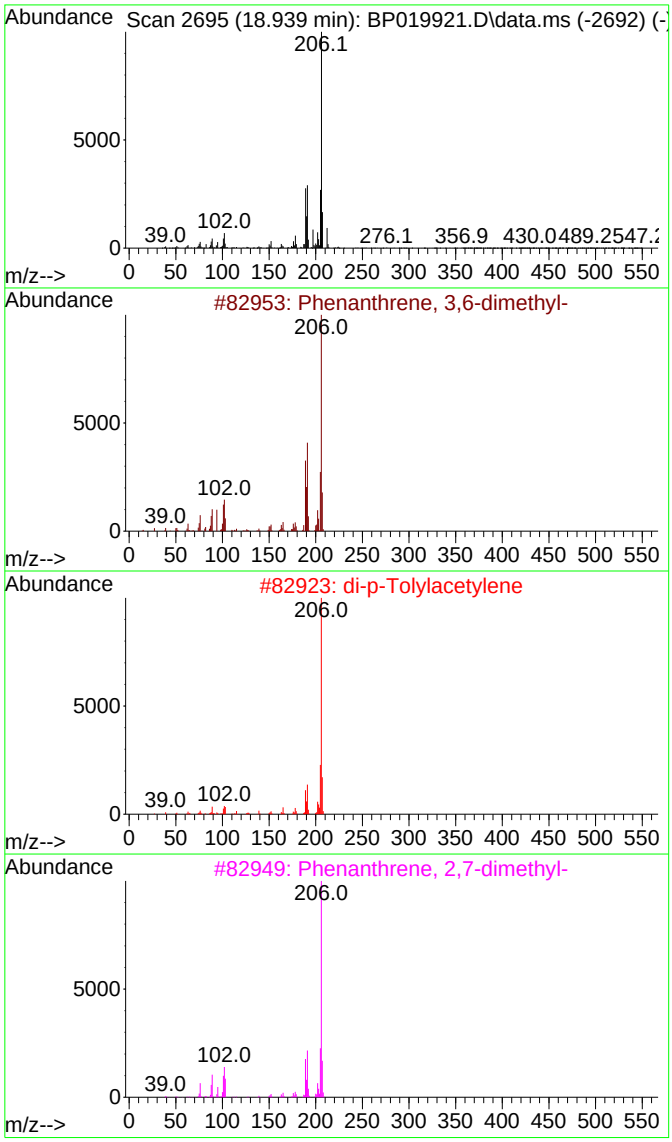
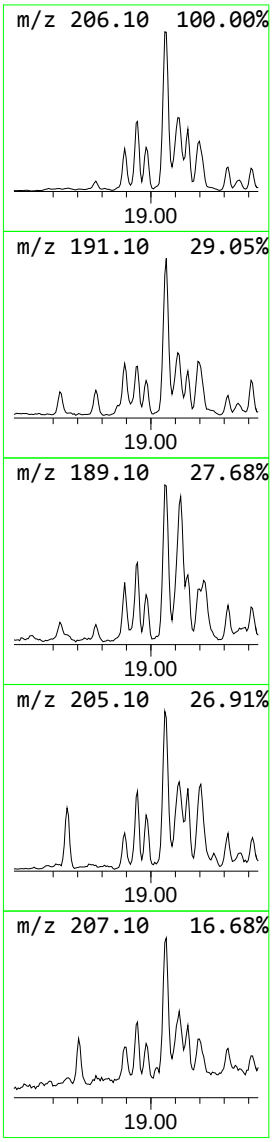
Peak Number 12 Phenanthrene, 3,6-dimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.939	10.10 ng	500538	Phenanthrene-d10	17.298

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	90
3	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	74
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	72
5	1,4-Diphenyl-1,3-butadiene	206	C16H14	000886-65-7	72





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Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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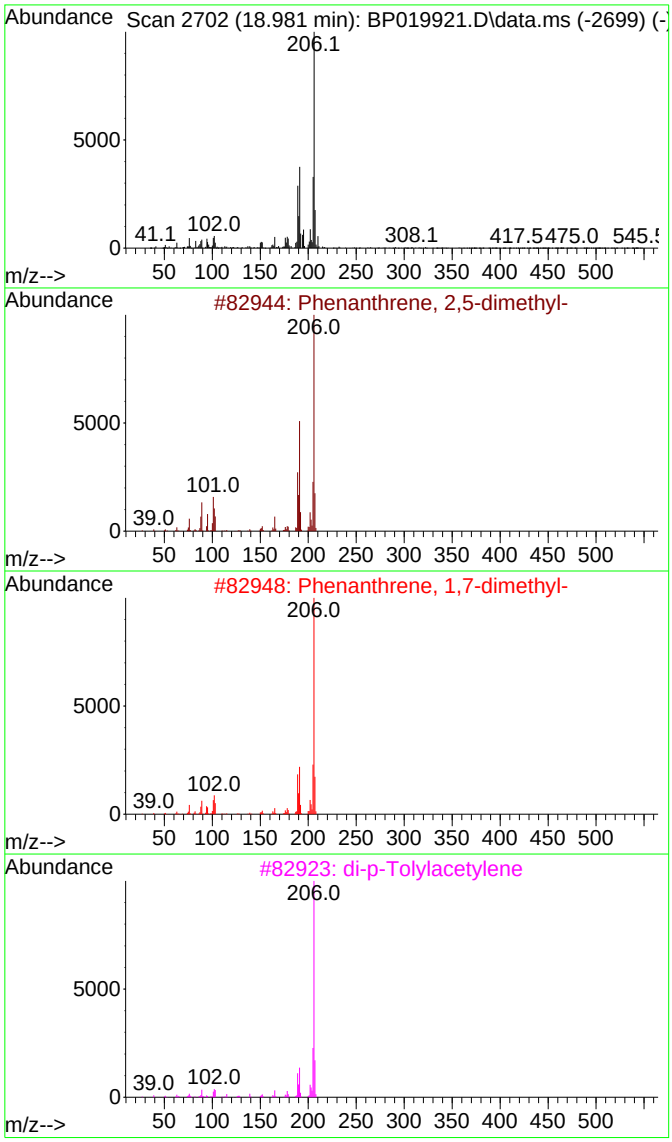
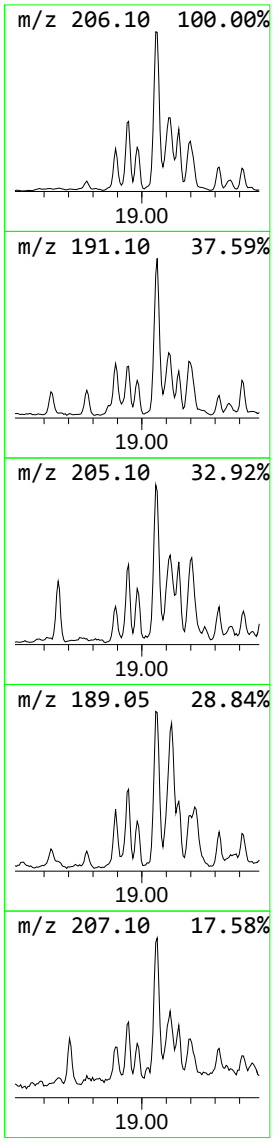
Peak Number 13 Phenanthrene, 2,5-dimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.981	8.55 ng	423976	Phenanthrene-d10	17.298

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	94
2	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	94
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	94
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
5	Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	87





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Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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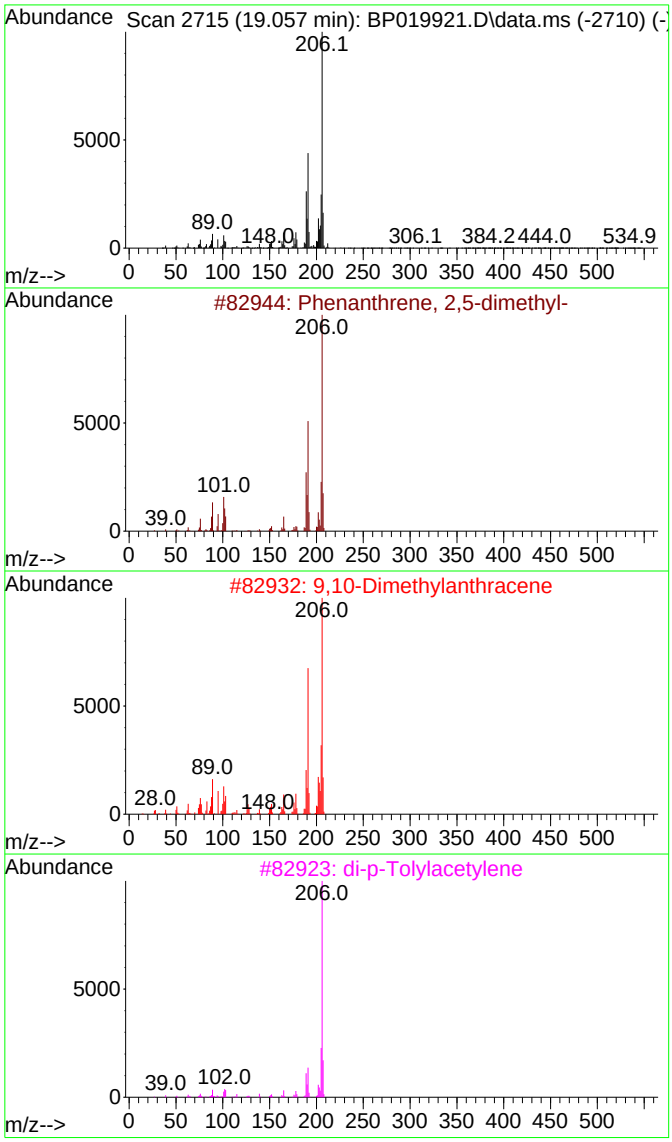
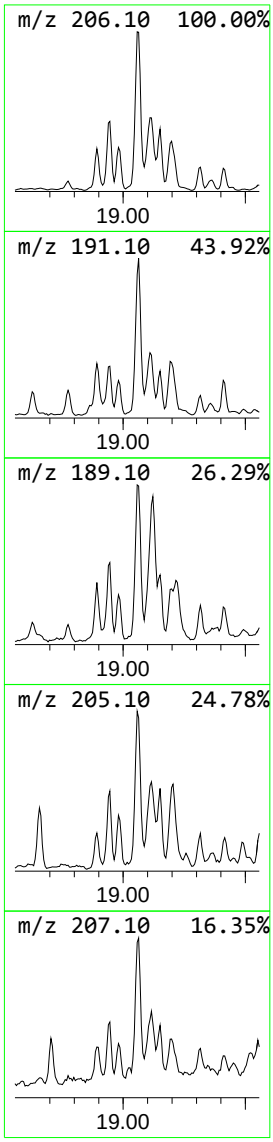
Peak Number 14 9,10-Dimethylanthracene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.057	34.12 ng	1691600	Phenanthrene-d10	17.298

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	95
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	95
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	94
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
5	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	89





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ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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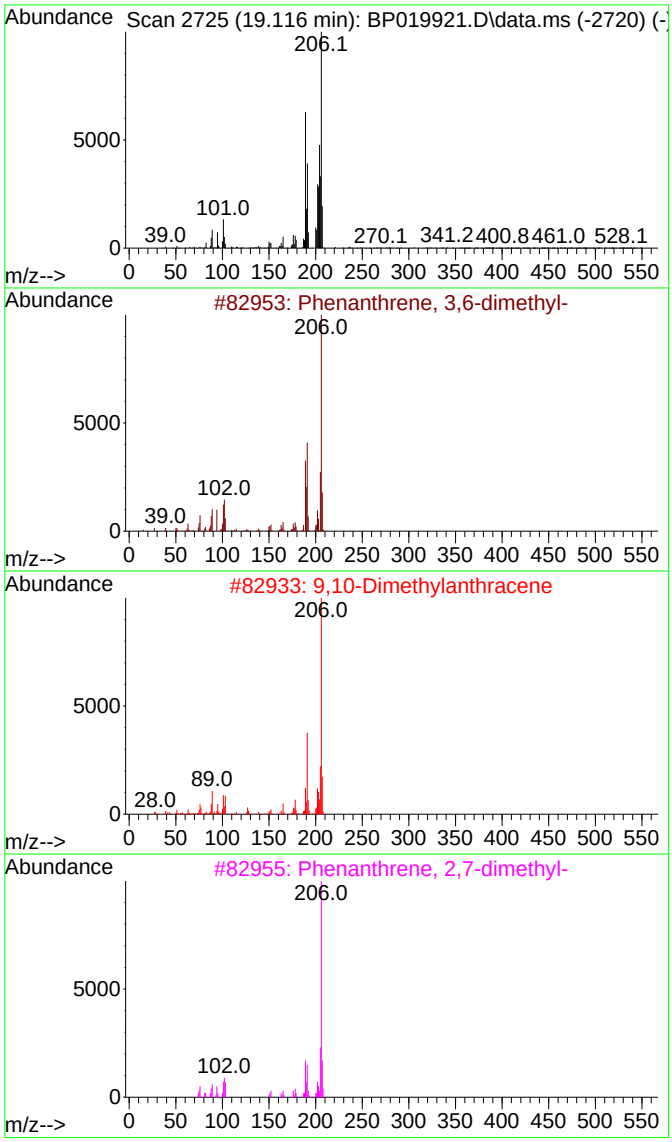
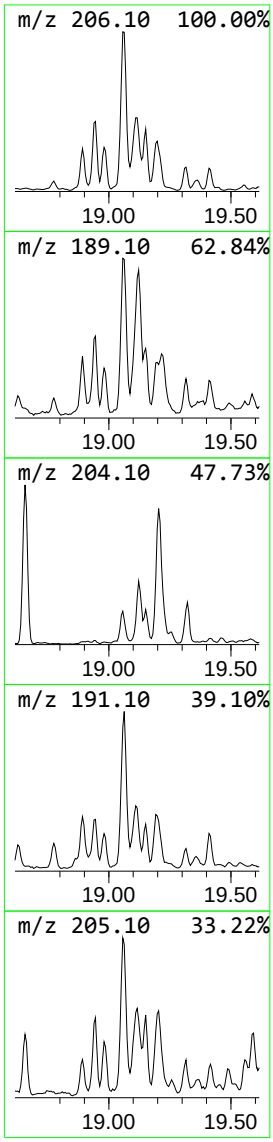
Peak Number 15 Phenanthrene, 2,7-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.116	18.86 ng	934864	Phenanthrene-d10	17.298

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	83
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	64
3	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	62
4	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	53
5	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	53





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ALS Vial : 15 Sample Multiplier: 1

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ClientSampleId :
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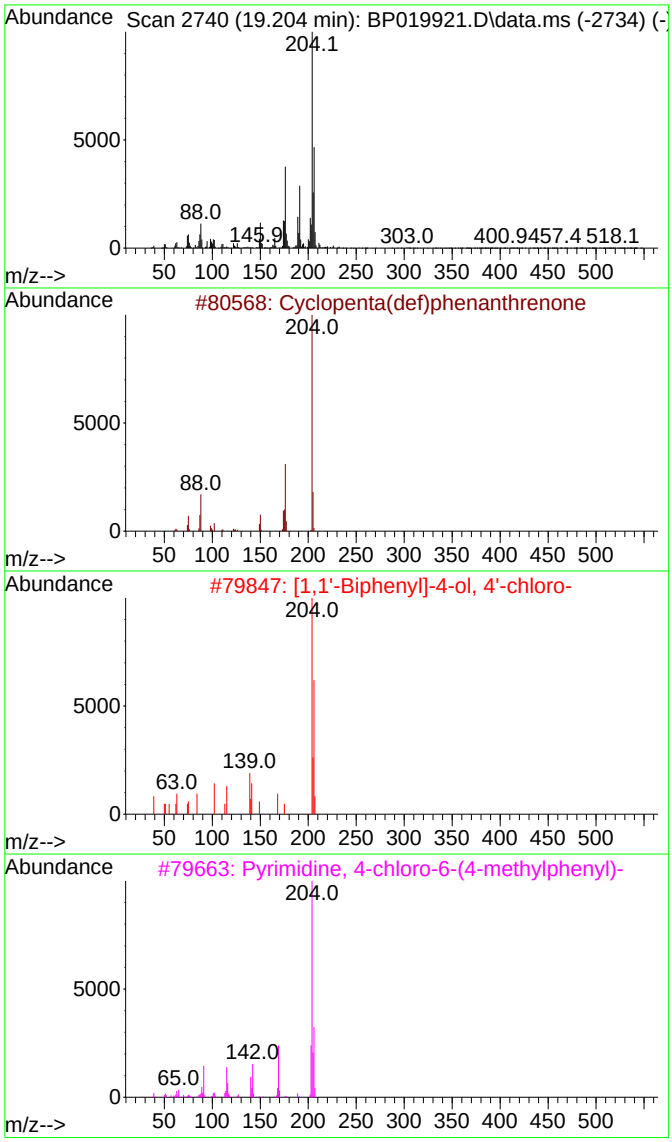
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

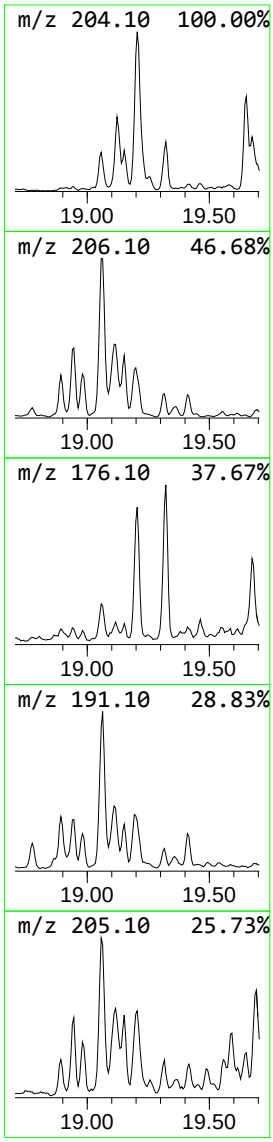
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 16 Cyclopenta(def)phenanthrenone Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.204	22.66 ng	1123160	Phenanthrene-d10	17.298

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	70
2	[1,1'-Biphenyl]-4-ol, 4'-chloro-	204	C12H9ClO	028034-99-3	52
3	Pyrimidine, 4-chloro-6-(4-methyl...	204	C11H9ClN2	1000380-55-8	50
4	5,6,7,8-Tetrahydrothieno[2,3-b]q...	204	C11H12N2S	122914-50-5	47
5	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	45





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Sample : P1602-10
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
WC-4

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP022624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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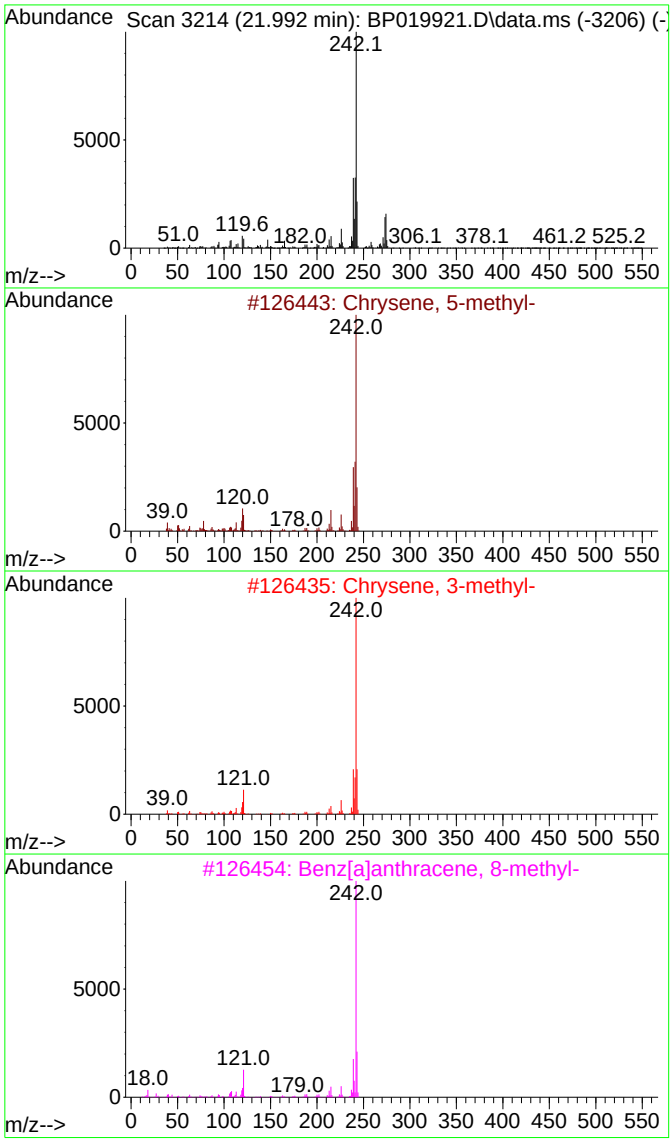
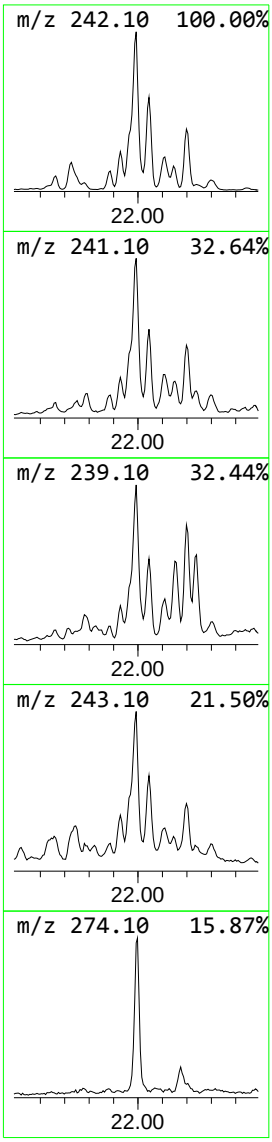
Peak Number 17 Chrysene, 5-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.992	8.07 ng	2712540	Chrysene-d12	21.410

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Chrysene, 5-methyl-	242	C19H14	003697-24-3	93
2	Chrysene, 3-methyl-	242	C19H14	003351-31-3	91
3	Benz[a]anthracene, 8-methyl-	242	C19H14	002381-31-9	90
4	Benz[a]anthracene, 2-methyl-	242	C19H14	002498-76-2	86
5	Chrysene, 1-methyl-	242	C19H14	003351-28-8	86





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP022824\
Data File : BP019921.D
Acq On : 28 Feb 2024 17:45
Operator : MA/JU
Sample : P1602-10
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
WC-4

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP022624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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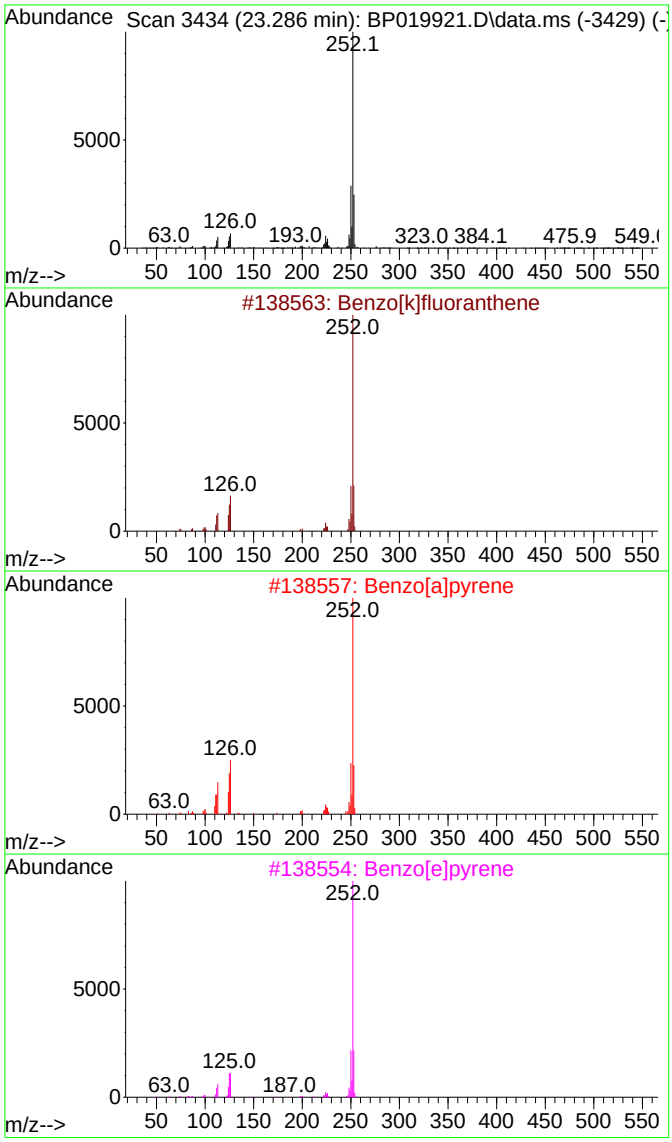
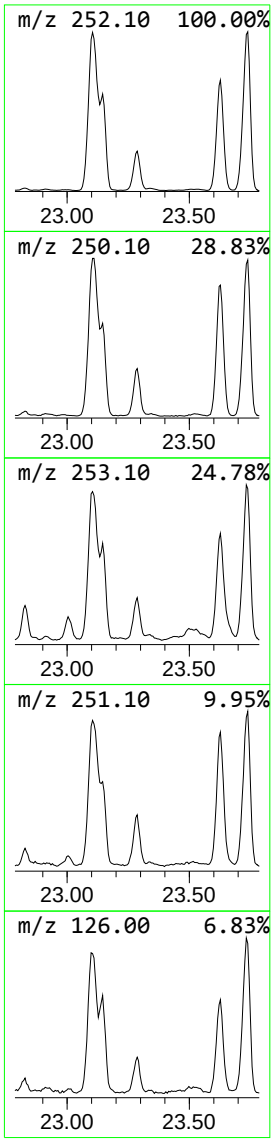
Peak Number 18 Benzo[e]pyrene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.286	15.43 ng	1021190	Perylene-d12	23.839

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[k]fluoranthene	252	C20H12	000207-08-9	94
2	Benzo[a]pyrene	252	C20H12	000050-32-8	90
3	Benzo[e]pyrene	252	C20H12	000192-97-2	90
4	Benzo[b]fluoranthene	252	C20H12	000205-99-2	81
5	Perylene	252	C20H12	000198-55-0	76





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP022824\
Data File : BP019921.D
Acq On : 28 Feb 2024 17:45
Operator : MA/JU
Sample : P1602-10
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
WC-4

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP022624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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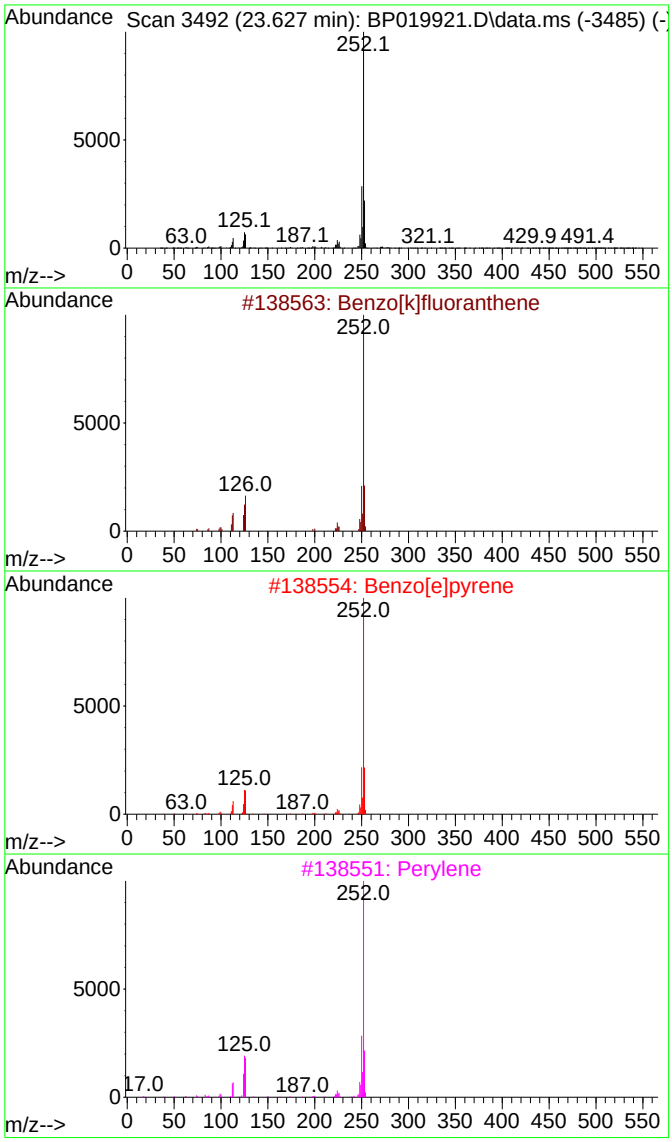
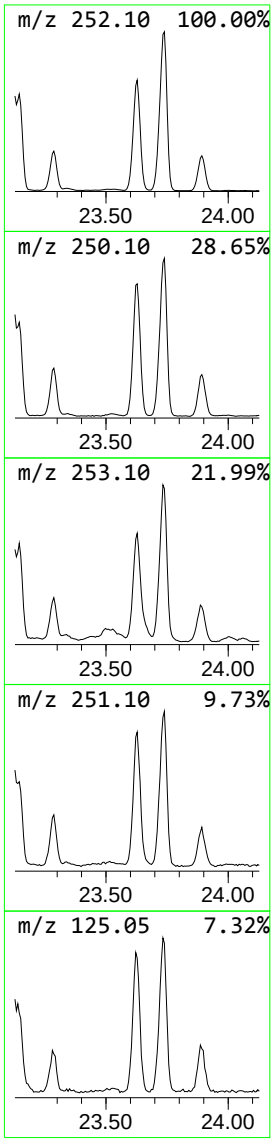
Peak Number 19 Perylene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.627	46.50 ng	3077130	Perylene-d12	23.839

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[k]fluoranthene	252	C20H12	000207-08-9	96
2	Benzo[e]pyrene	252	C20H12	000192-97-2	95
3	Perylene	252	C20H12	000198-55-0	95
4	Benzo[a]pyrene	252	C20H12	000050-32-8	93
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	93





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP022824\
Data File : BP019921.D
Acq On : 28 Feb 2024 17:45
Operator : MA/JU
Sample : P1602-10
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
WC-4

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP022624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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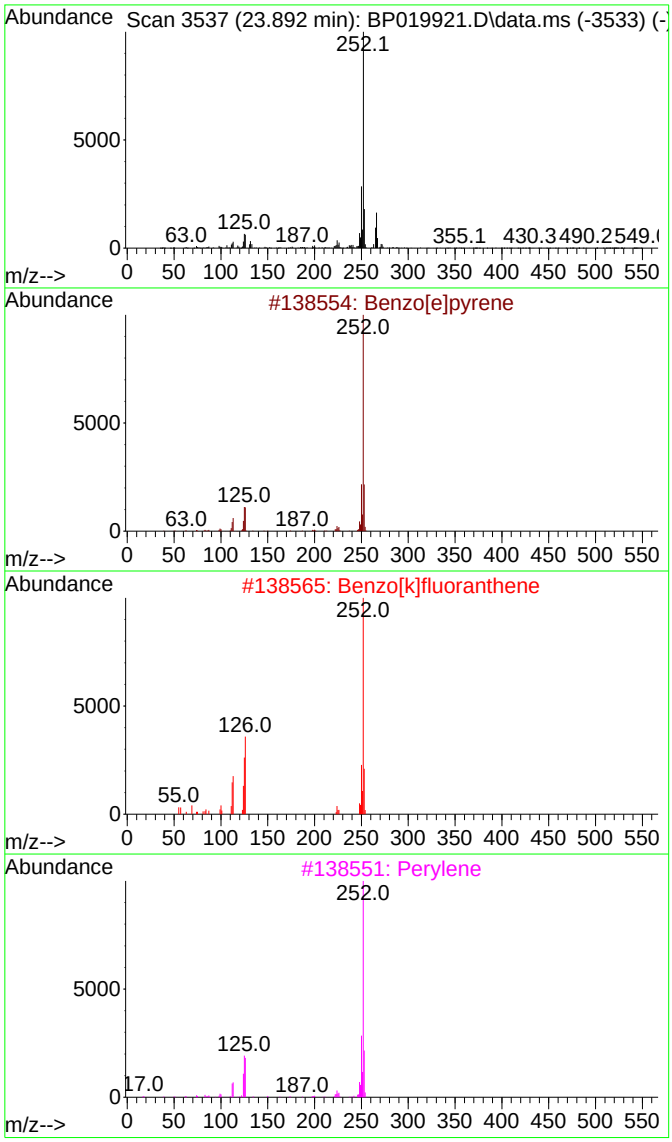
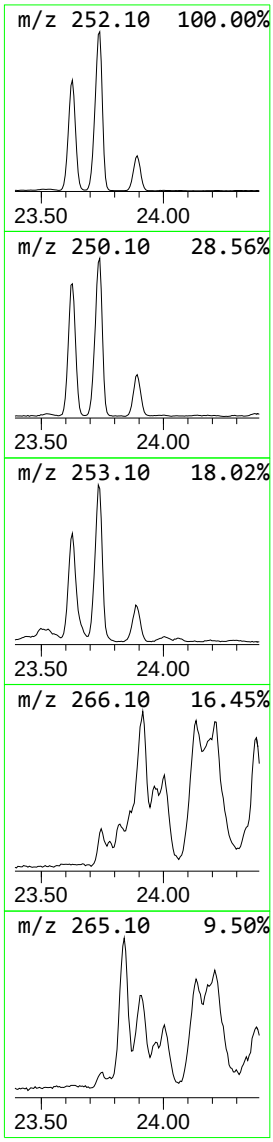
Peak Number 20 Benzo[j]fluoranthene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.892	18.28 ng	1209440	Perylene-d12	23.839

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	94
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93
3	Perylene	252	C20H12	000198-55-0	92
4	Benzo[j]fluoranthene	252	C20H12	000205-82-3	91
5	Benzo[b]fluoranthene	252	C20H12	000205-99-2	83





Tentatively Identified Compound (LSC) summary

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP022824\
Data File : BP019921.D
Acq On : 28 Feb 2024 17:45
Operator : MA/JU
Sample : P1602-10
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
WC-4

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP022624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Dibenzothiophene	17.116	8.9	ng	439306	4	17.298	991458	20.0
2-Methyldibenzo...	17.881	11.5	ng	569391	4	17.298	991458	20.0
1-Methyldibenzo...	18.022	7.3	ng	364268	4	17.298	991458	20.0
Anthracene, 1-m...	18.169	29.4	ng	1457150	4	17.298	991458	20.0
Phenanthrene, 1...	18.216	42.1	ng	2088090	4	17.298	991458	20.0
Phenanthrene, 2...	18.298	13.1	ng	650604	4	17.298	991458	20.0
4-Bromothiophen...	18.357	47.1	ng	2336700	4	17.298	991458	20.0
Phenanthrene, 4...	18.392	19.8	ng	983467	4	17.298	991458	20.0
5,16[1',2']:8,1...	18.657	13.2	ng	653512	4	17.298	991458	20.0
9,10-Anthracene...	18.704	20.3	ng	1003640	4	17.298	991458	20.0
Phenanthrene, 2...	18.892	7.7	ng	383096	4	17.298	991458	20.0
Phenanthrene, 3...	18.939	10.1	ng	500538	4	17.298	991458	20.0
Phenanthrene, 2...	18.981	8.6	ng	423976	4	17.298	991458	20.0
9,10-Dimethylan...	19.057	34.1	ng	1691600	4	17.298	991458	20.0
Phenanthrene, 2...	19.116	18.9	ng	934864	4	17.298	991458	20.0
Cyclopenta(def)...	19.204	22.7	ng	1123160	4	17.298	991458	20.0
Chrysene, 5-met...	21.992	8.1	ng	2712540	5	21.410	6723300	20.0
Benzo[e]pyrene	23.286	15.4	ng	1021190	6	23.839	1323550	20.0
Perylene	23.627	46.5	ng	3077130	6	23.839	1323550	20.0
Benzo[j]fluoran...	23.892	18.3	ng	1209440	6	23.839	1323550	20.0