LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM102423\
Data File : BM042431.D
Acq On : 24 Oct 2023 22:09
Operator : MA/JU
Sample : 04841-02 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
M-3(0-5)

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-BM102123.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BM042431.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.522	391	397	404	rBV	1088373	1530222	7.38%	0.539%
2	7.145	667	673	683	rVB	1057485	1651795	7.96%	0.582%
3	7.992	810	817	825	rBV	509779	813797	3.92%	0.286%
4	9.192	1010	1021	1027	rBV	623492	1041886	5.02%	0.367%
5	10.816	1291	1297	1302	rBV	694127	1166196	5.62%	0.411%
6	10.869	1302	1306	1314	rVB	321843	535291	2.58%	0.188%
7	12.686	1604	1615	1623	rBV2	1691098	2952923	14.23%	1.040%
8	13.263	1706	1713	1719	rVB	1423286	2069605	9.98%	0.729%
9	13.798	1797	1804	1813	rBV2	930892	2311737	11.14%	0.814%
10	13.880	1813	1818	1823	rBV	462019	657837	3.17%	0.232%
11	13.957	1824	1831	1836	rBV	1941650	3480918	16.78%	1.225%
12	14.092	1849	1854	1863	rVB	698685	1097251	5.29%	0.386%
13	14.192	1865	1871	1874	rBV	1109595	1604608	7.73%	0.565%
14	14.368	1894	1901	1914	rVB	3520239	6087645	29.34%	2.143%
15	14.639	1943	1947	1953	rVB	982195	1395949	6.73%	0.491%
16	14.704	1953	1958	1964	rBV2	1142138	1824117	8.79%	0.642%
17	14.845	1974	1982	1989	rBV4	473904	1075318	5.18%	0.379%
18	15.021	1997	2012	2014	rBV3	717654	1816571	8.76%	0.640%
19	15.098	2019	2025	2030	rVB	516898	751028	3.62%	0.264%
20	15.233	2042	2048	2053	rBV2	963546	1773217	8.55%	0.624%
21	15.292	2053	2058	2062	rVB2	578540	826127	3.98%	0.291%
22	15.415	2071	2079	2082	rBV3	444513	1023035	4.93%	0.360%
23	15.510	2090	2095	2099	rBV	974635	1336452	6.44%	0.470%
24	15.633	2112	2116	2119	rBV	653423	893957	4.31%	0.315%
25	15.692	2119	2126	2136	rVB	2222145	4291077	20.68%	1.511%
26	15.810	2142	2146	2150	rBV5	394159	671536	3.24%	0.236%
27	15.892	2155	2160	2164	rVV3	460631	868644	4.19%	0.306%
28	15.974	2170	2174	2178	rVV	616442	1101202	5.31%	0.388%
29	16.027	2180	2183	2189	rVB2	339546	546345	2.63%	0.192%
30	16.133	2198	2201	2206	rVB2	1404368	1979001	9.54%	0.697%
31	16.292	2222	2228	2233	rBV	905096	1612597	7.77%	0.568%
32	16.686	2287	2295	2299	rBV	1383233	2785259	13.43%	0.981%
33	16.733	2299	2303	2308	rBV	775884	1090277	5.26%	0.384%
34	16.833	2315	2320	2325	rBV	880710	1366837	6.59%	0.481%
35	17.045	2352	2356	2359	rBV2	381752	574779	2.77%	0.202%
36	17.074	2359	2361	2364	rVV2	502249	535551	2.58%	0.189%

LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM102423\
Data File : BM042431.D
Acq On : 24 Oct 2023 22:09
Operator : MA/JU
Sample : 04841-02 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
M-3(0-5)

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-BM102123.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

37	17.115	2364	2368	2373	rVB2	1027893	1538606	7.42%	0.542%
38	17.215	2379	2385	2397	rVB	3180666	4848784	23.37%	1.707%
39	17.398	2411	2416	2419	rBV	1104475	1734245	8.36%	0.611%
40	17.445	2419	2424	2432	rVB	12540384	20746454	100.00%	7.304%
41	17.533	2433	2439	2444	rBV	5165517	7753375	37.37%	2.730%
42	17.727	2469	2472	2476	rVB2	456323	575802	2.78%	0.203%
43	17.815	2484	2487	2491	rVB	663715	823134	3.97%	0.290%
44	17.909	2499	2503	2509	rVB	826999	1151883	5.55%	0.406%
45	17.974	2509	2514	2522	rVB	2401900	3518850	16.96%	1.239%
46	18.121	2533	2539	2544	rVB	1553835	3108583	14.98%	1.094%
47	18.268	2556	2564	2569	rVV	4072074	7467734	36.00%	2.629%
48	18.321	2569	2573	2577	rVB	4335585	5760791	27.77%	2.028%
49	18.398	2582	2586	2591	rVV	1870927	2590206	12.49%	0.912%
50	18.468	2591	2598	2602	rVV2	5163261	10716536	51.65%	3.773%
51	18.504	2602	2604	2613	rVB2	2978221	3476814	16.76%	1.224%
52	18.656	2627	2630	2634	rVB	664542	836817	4.03%	0.295%
53	18.768	2643	2649	2654	rBV	2129237	3786239	18.25%	1.333%
54	18.921	2671	2675	2680	rBV2	625992	1300418	6.27%	0.458%
55	18.974	2681	2684	2687	rVV2	564704	755072	3.64%	0.266%
56	19.056	2694	2698	2701	rVB	993331	1204372	5.81%	0.424%
57	19.098	2701	2705	2709	rVB4	1013570	1418532	6.84%	0.499%
58	19.180	2714	2719	2723	rBV	2199187	3037523	14.64%	1.069%
59	19.245	2724	2730	2733	rBV3	1012944	1889387	9.11%	0.665%
60	19.315	2738	2742	2744	rBV2	531169	788057	3.80%	0.277%
61	19.456	2760	2766	2771	rVB	8395312	12241858	59.01%	4.310%
62	19.509	2772	2775	2778	rVV3	612292	688970	3.32%	0.243%
63	19.603	2787	2791	2796	rVB	2135701	2769533	13.35%	0.975%
64	19.703	2804	2808	2816	rVB2	1493550	3154654	15.21%	1.111%
65	19.780	2817	2821	2823	rBV	819142	1237947	5.97%	0.436%
66	19.827	2823	2829	2834	rVV	11237053	17743915	85.53%	6.247%
67	19.874	2834	2837	2842	rVB3	696689	1070869	5.16%	0.377%
68	20.009	2854	2860	2863	rBV2	1950524	2799558	13.49%	0.986%
69	20.145	2876	2883	2888	rVB3	1433168	3345115	16.12%	1.178%
70	20.274	2900	2905	2907	rBV3	1193306	2144762	10.34%	0.755%
71	20.309	2907	2911	2917	rVB2	3281831	4798741	23.13%	1.689%
72	20.374	2918	2922	2923	rBV2	418194	592024	2.85%	0.208%
73	20.409	2924	2928	2932	rVV	2686349	3334785	16.07%	1.174%
74	20.468	2934	2938	2945	rVB	2236617	3221786	15.53%	1.134%
75	20.562	2951	2954	2958	rBV2	554013	742114	3.58%	0.261%
76	20.603	2958	2961	2965	rVV	2081429	2689127	12.96%	0.947%

LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM102423\
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Acq On : 24 Oct 2023 22:09
Operator : MA/JU
Sample : 04841-02 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
M-3(0-5)

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-BM102123.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

77	20.650	2965	2969	2975	rVB	2389722	3382924	16.31%	1.191%
78	21.186	3057	3060	3062	rBV2	538748	628507	3.03%	0.221%
79	21.221	3062	3066	3070	rVV	2415529	3501579	16.88%	1.233%
80	21.256	3070	3072	3076	rVV	1558852	1905211	9.18%	0.671%
81	21.297	3076	3079	3083	rVV2	972177	1425071	6.87%	0.502%
82	21.339	3084	3086	3099	rVB2	829275	1596408	7.69%	0.562%
83	21.462	3105	3107	3117	rVB	870114	1332333	6.42%	0.469%
84	21.568	3119	3125	3131	rVV2	6551006	12267504	59.13%	4.319%
85	21.621	3131	3134	3138	rVB	5780112	7047814	33.97%	2.481%
86	21.697	3144	3147	3150	rVB	584232	663421	3.20%	0.234%
87	21.744	3152	3155	3157	rVV2	463920	608116	2.93%	0.214%
88	21.803	3161	3165	3174	rVB3	1050019	1838573	8.86%	0.647%
89	21.956	3188	3191	3200	rVB2	839109	1496531	7.21%	0.527%
90	22.162	3223	3226	3232	rVB	1755076	2368610	11.42%	0.834%
91	22.215	3232	3235	3241	rVB	954338	1202450	5.80%	0.423%
92	22.380	3259	3263	3266	rBV	1076864	1540260	7.42%	0.542%
93	22.415	3266	3269	3275	rVB2	968331	1572160	7.58%	0.553%
94	23.297	3412	3419	3425	rBV2	2368260	7099371	34.22%	2.499%
95	23.480	3445	3450	3457	rVB	1039859	1978168	9.53%	0.696%
96	23.833	3504	3510	3521	rVB	2291058	4916365	23.70%	1.731%
97	23.950	3522	3530	3536	rBV	3825919	7912640	38.14%	2.786%
98	24.050	3543	3547	3552	rBV	636692	1286372	6.20%	0.453%
99	24.109	3553	3557	3563	rVB	968579	1852067	8.93%	0.652%
100	26.650	3981	3989	4000	rVB2	1256330	4082513	19.68%	1.437%

Sum of corrected areas: 284049527

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM102423\
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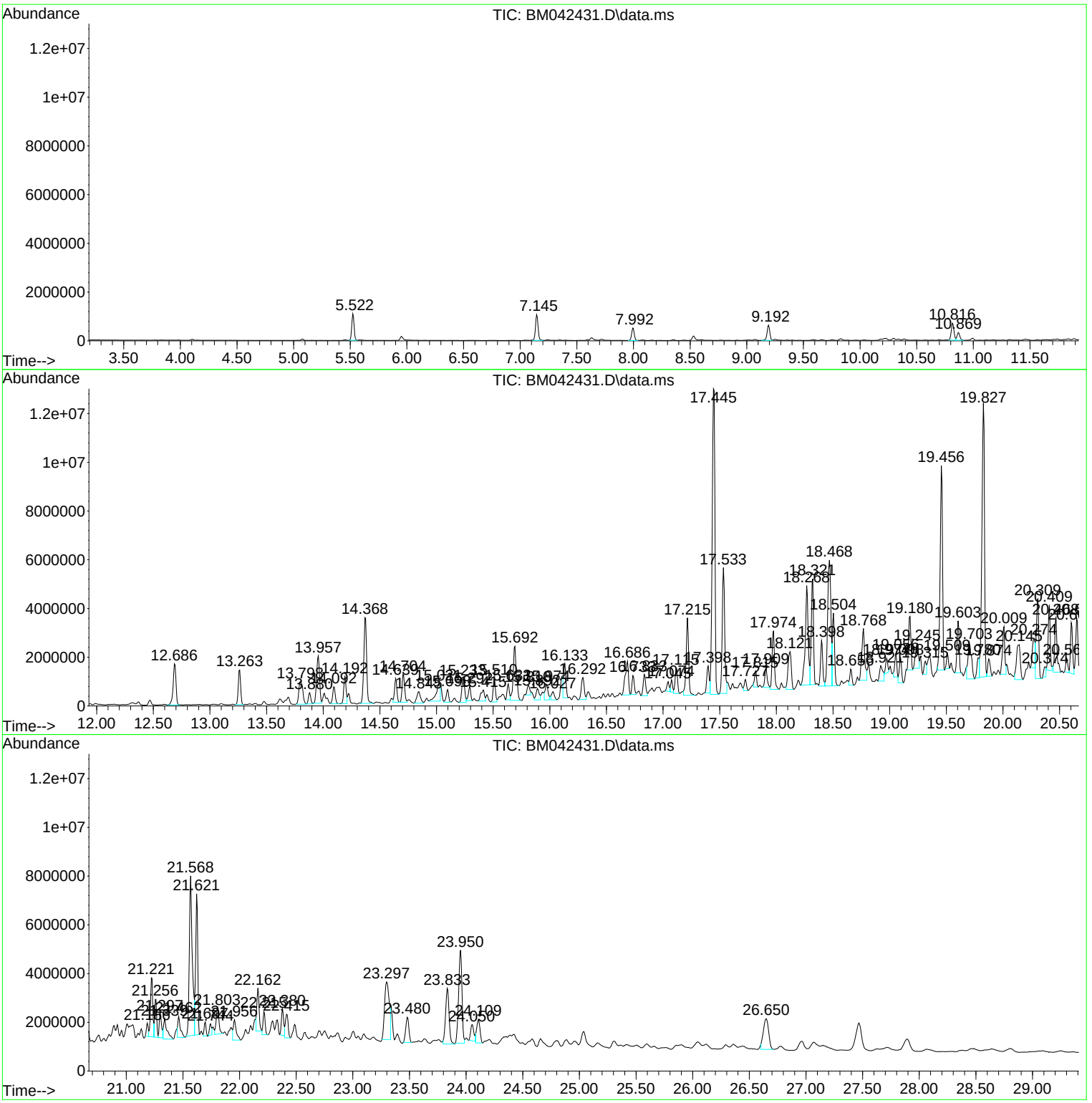
Sample : 04841-02 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
M-3(0-5)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM102123.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_M\Data\BM102423\
Data File : BM042431.D
Acq On : 24 Oct 2023 22:09
Operator : MA/JU
Sample : 04841-02 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
M-3(0-5)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM102123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

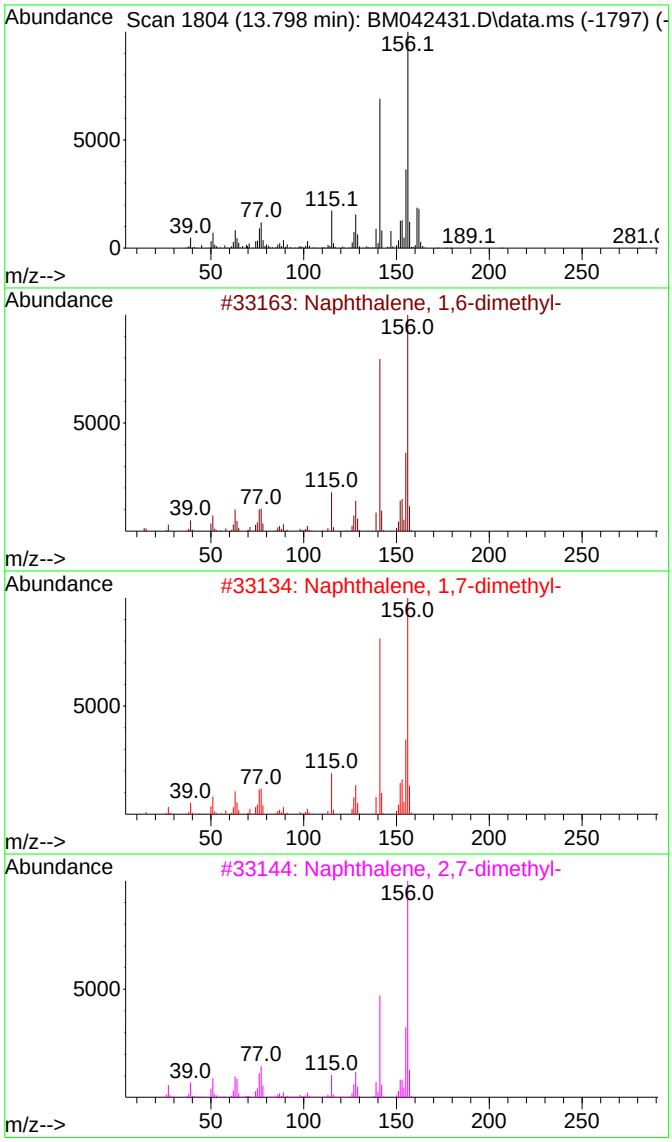
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

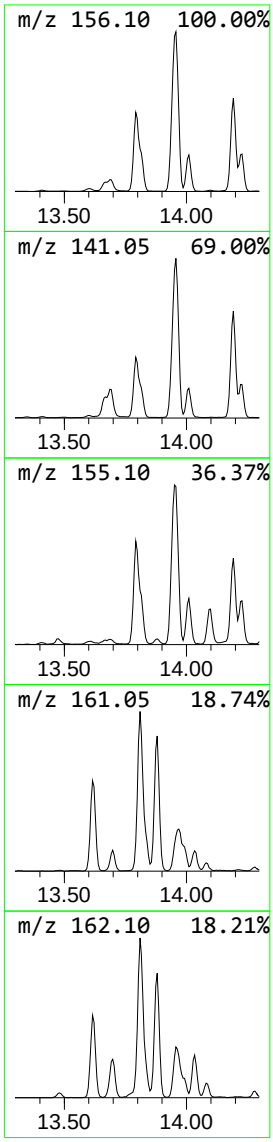
****

Peak Number 1 Naphthalene, 1,6-dimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.798	33.12 ng	2311740	Acenaphthene-d10	14.639

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	98
2	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	98
3	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	97
4	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96
5	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	96





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM102423\
Data File : BM042431.D
Acq On : 24 Oct 2023 22:09
Operator : MA/JU
Sample : 04841-02 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
M-3(0-5)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM102123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

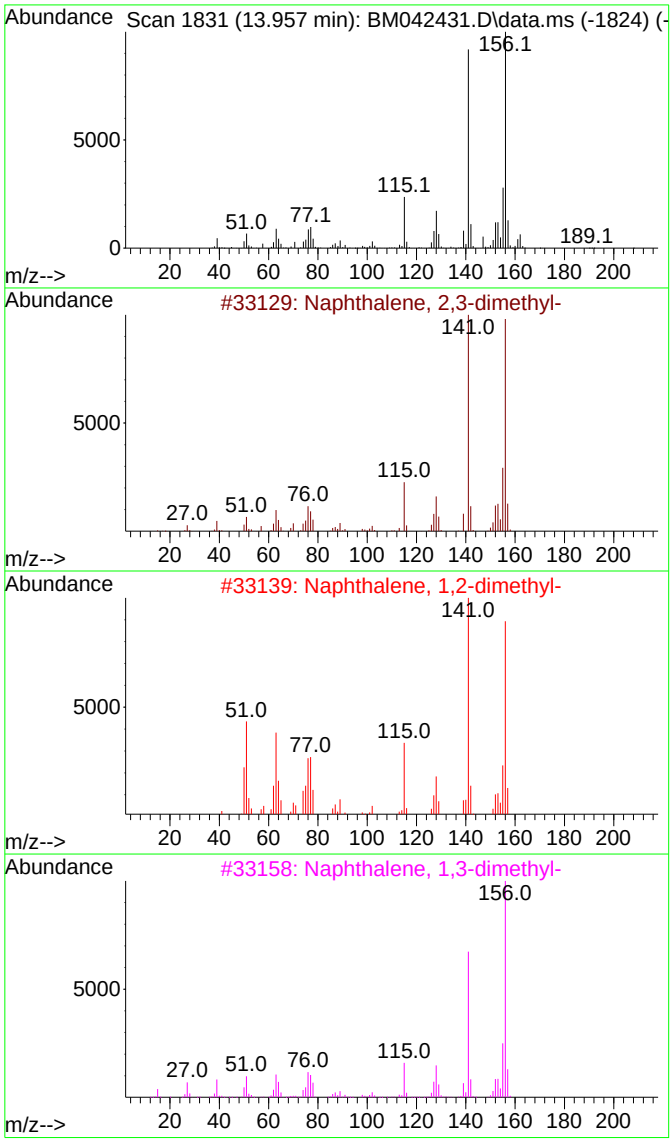
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

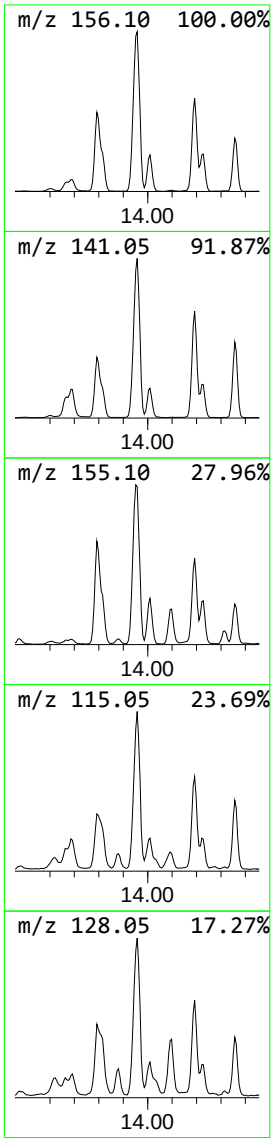
****

Peak Number 2 Naphthalene, 2,3-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.957	49.87 ng	3480920	Acenaphthene-d10	14.639

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	98
2	Naphthalene, 1,2-dimethyl-	156	C12H12	000573-98-8	97
3	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	97
4	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	96
5	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM102423\
Data File : BM042431.D
Acq On : 24 Oct 2023 22:09
Operator : MA/JU
Sample : 04841-02 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
M-3(0-5)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM102123.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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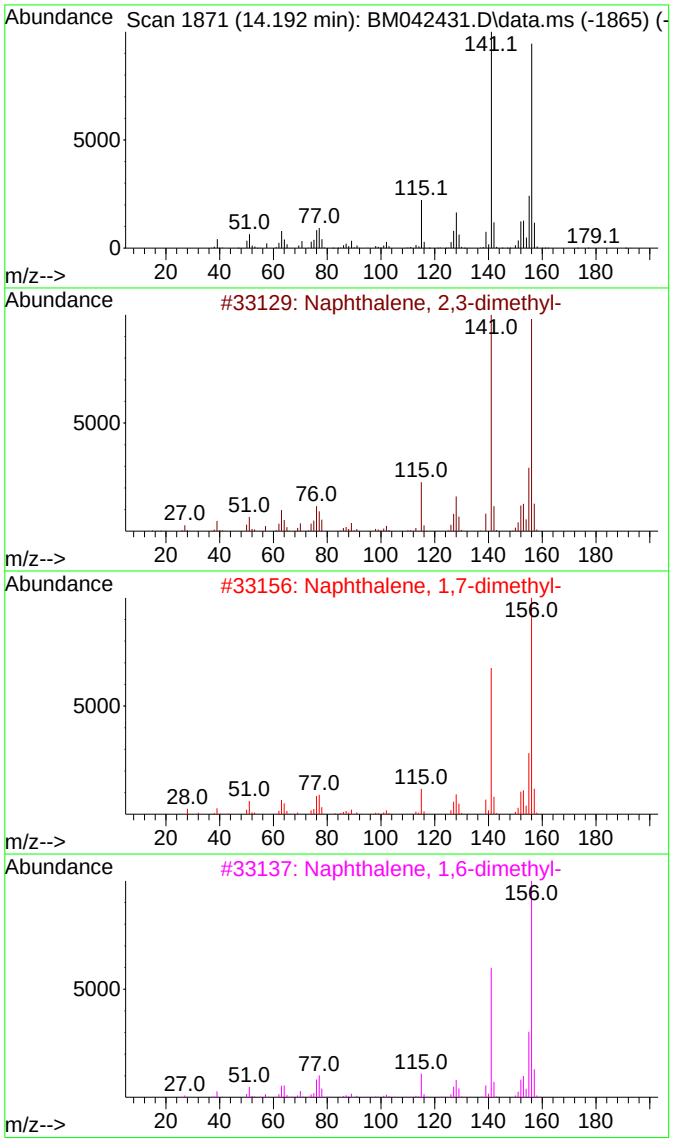
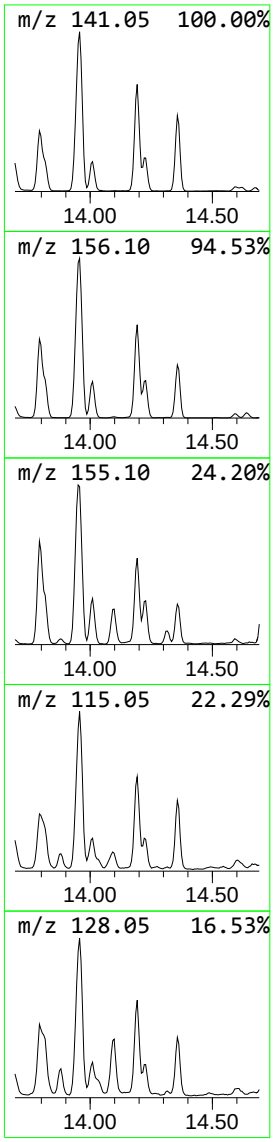
Peak Number 3 Naphthalene, 1,7-dimethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.192	22.99 ng	1604610	Acenaphthene-d10	14.639

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	98
2	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
3	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
4	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	97
5	Naphthalene, 1,2-dimethyl-	156	C12H12	000573-98-8	96





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM102423\
Data File : BM042431.D
Acq On : 24 Oct 2023 22:09
Operator : MA/JU
Sample : 04841-02 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
M-3(0-5)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM102123.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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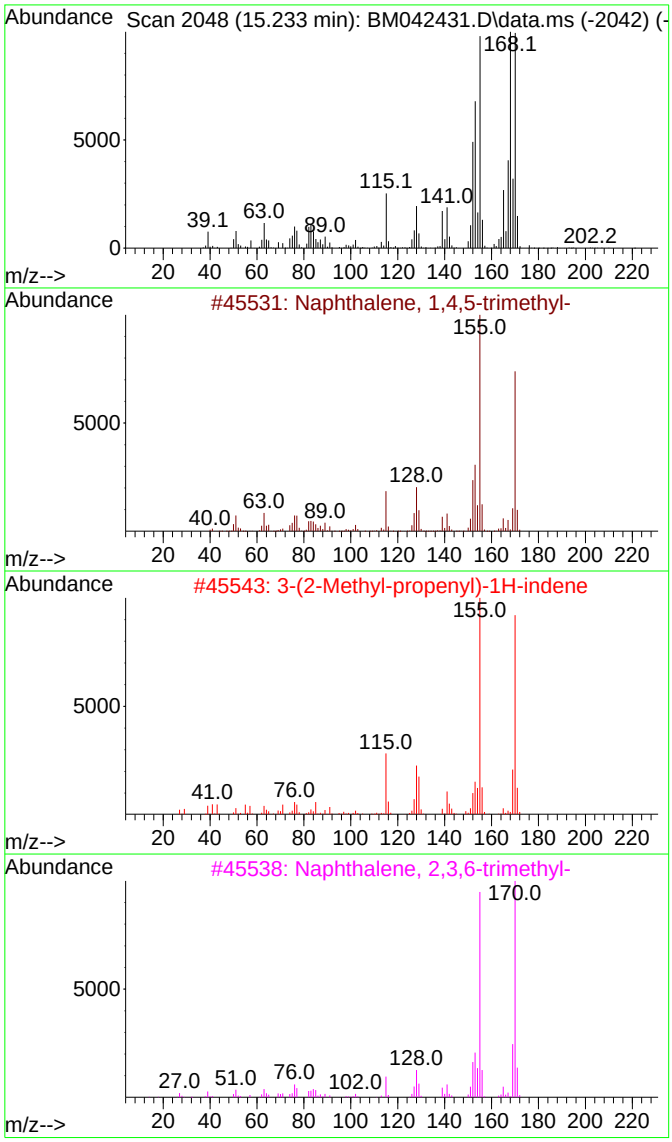
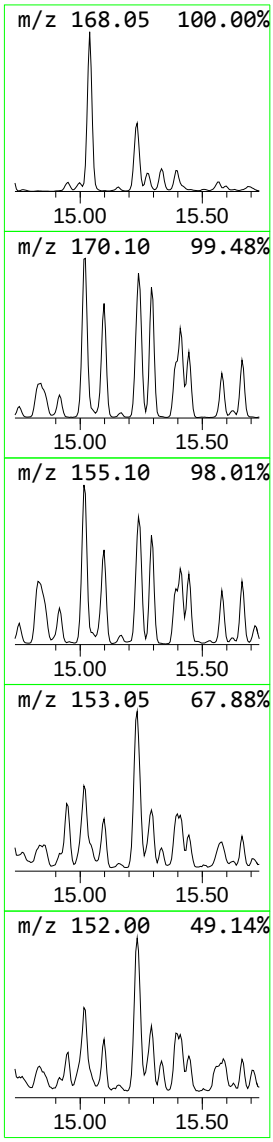
Peak Number 4 Naphthalene, 1,4,5-trimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.233	25.41 ng	1773220	Acenaphthene-d10	14.639

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,4,5-trimethyl-	170	C13H14	002131-41-1	50
2	3-(2-Methyl-propenyl)-1H-indene	170	C13H14	1000187-78-5	50
3	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	50
4	4,6,8-Trimethylazulene	170	C13H14	000941-81-1	49
5	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	46





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM102423\
Data File : BM042431.D
Acq On : 24 Oct 2023 22:09
Operator : MA/JU
Sample : 04841-02 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
M-3(0-5)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM102123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

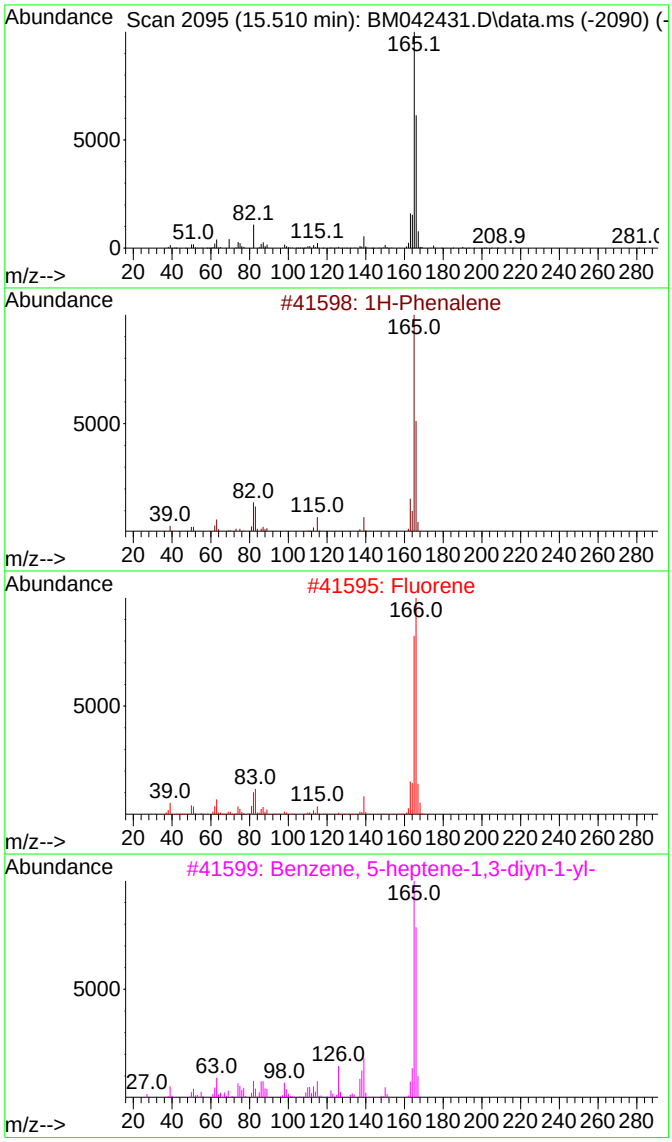
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

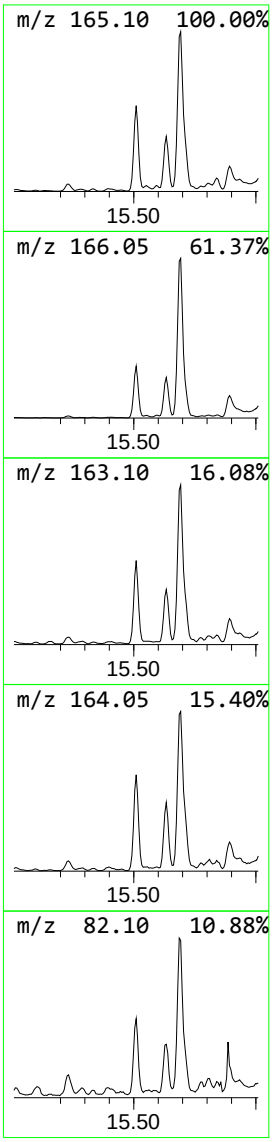
****

Peak Number 5 1H-Phenalene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.510	19.15 ng	1336450	Acenaphthene-d10	14.639

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Phenalene	166	C13H10	000203-80-5	86
2	Fluorene	166	C13H10	000086-73-7	70
3	Benzene, 5-heptene-1,3-diyn-1-yl-	166	C13H10	013678-98-3	50
4	3-Trifluoromethylbenzhydryl chlo...	270	C14H10ClF3	067240-79-3	33
5	9H-Fluorene, 9-bromo-	244	C13H9Br	001940-57-4	12





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Acq On : 24 Oct 2023 22:09
Operator : MA/JU
Sample : 04841-02 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
M-3(0-5)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM102123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

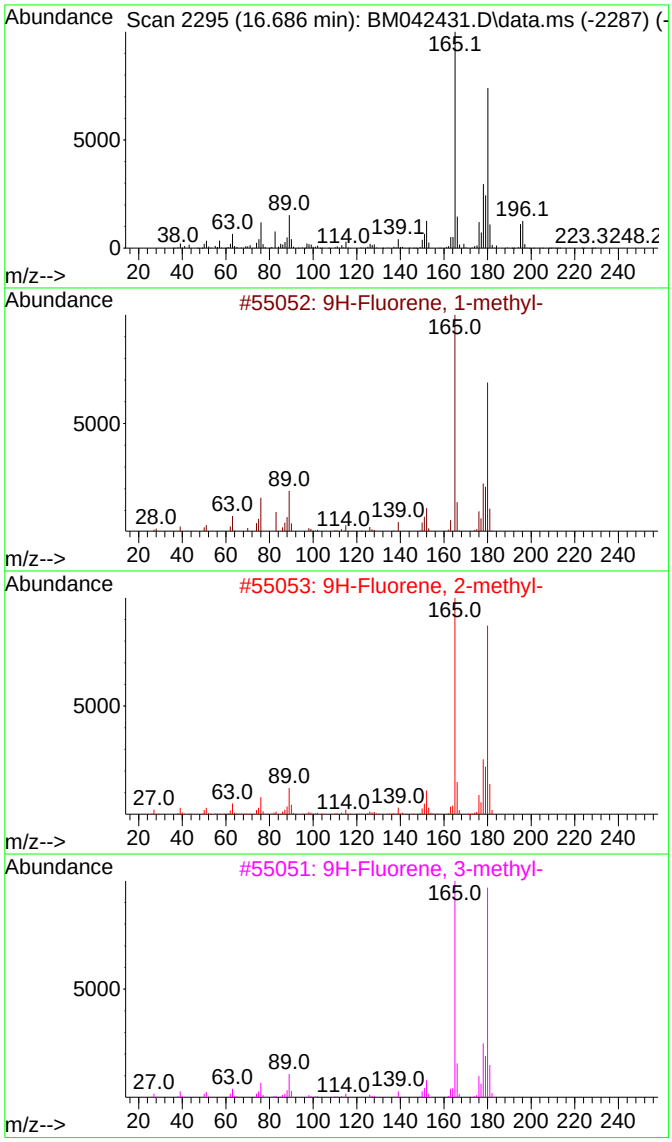
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

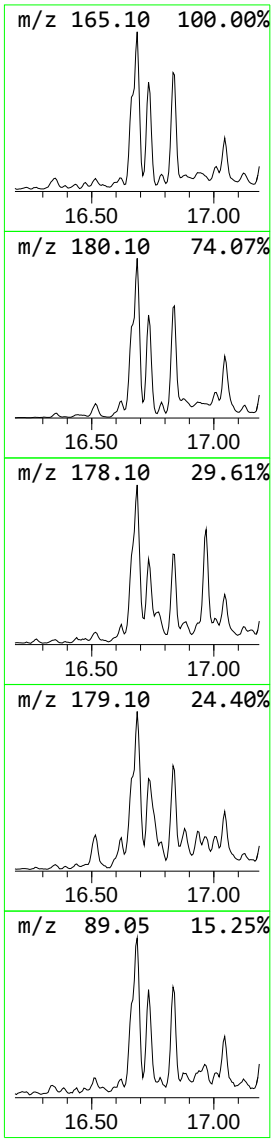
****

Peak Number 6 9H-Fluorene, 1-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.686	32.12 ng	2785260	Phenanthrene-d10	17.398

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	97
2	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	96
3	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	94
4	4a,9a-Methano-9H-fluorene	180	C14H12	019540-84-2	92
5	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	76





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Acq On : 24 Oct 2023 22:09
Operator : MA/JU
Sample : 04841-02 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
M-3(0-5)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM102123.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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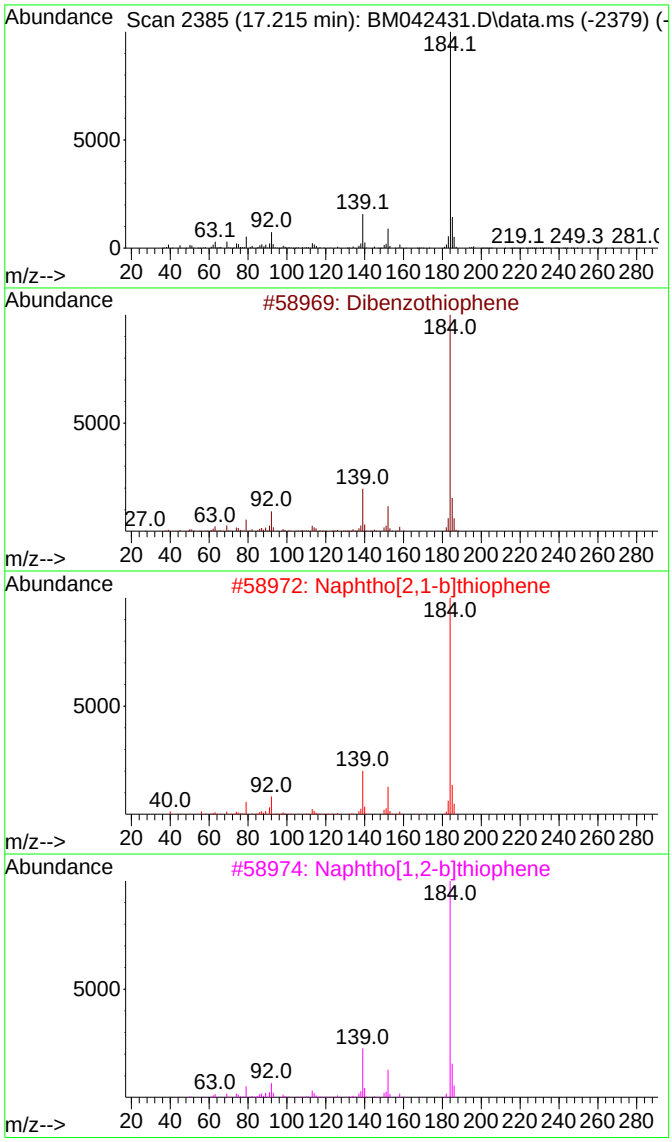
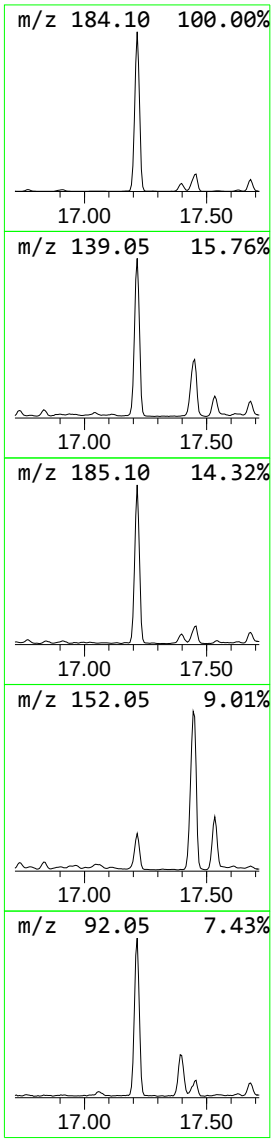
Peak Number 7 Dibenzothiophene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.215	55.92 ng	4848780	Phenanthrene-d10	17.398

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	97
2	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	95
3	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	94
4	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	94
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91





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Acq On : 24 Oct 2023 22:09
Operator : MA/JU
Sample : 04841-02 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
M-3(0-5)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM102123.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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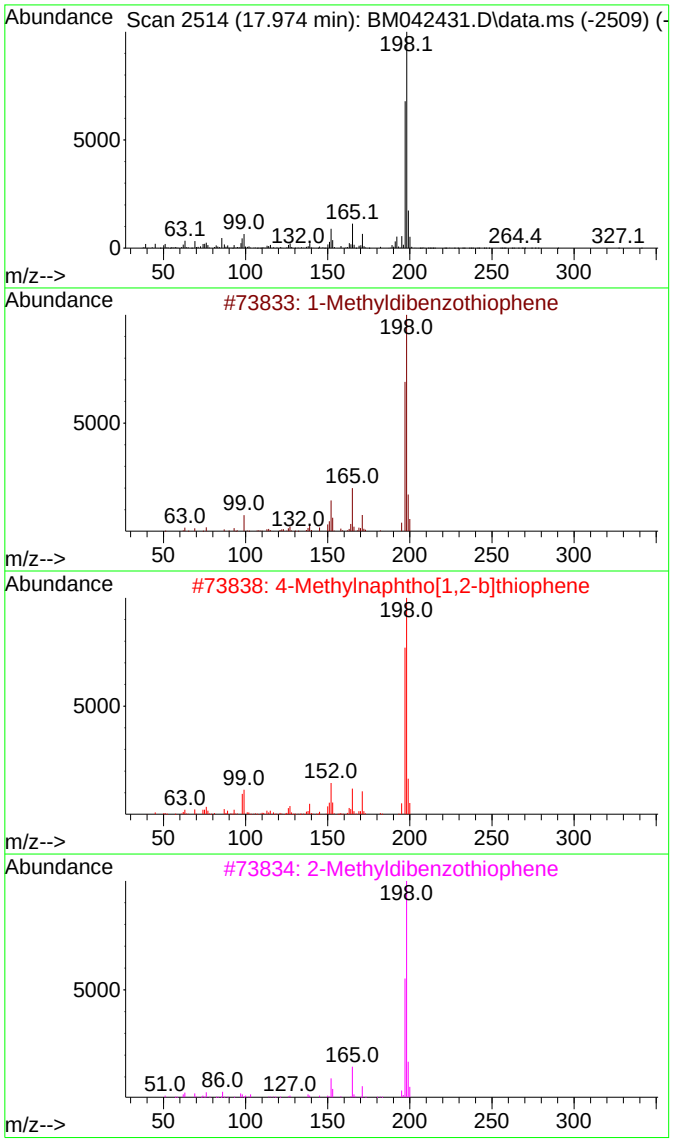
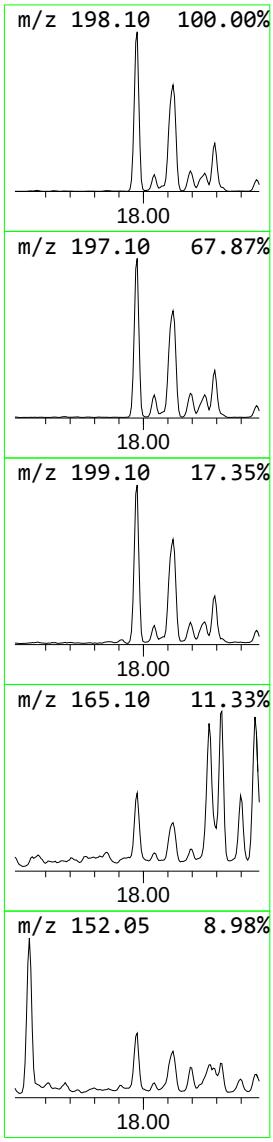
Peak Number 8 1-Methyldibenzothiophene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.974	40.58 ng	3518850	Phenanthrene-d10	17.398

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Methyldibenzothiophene	198	C13H10S	031317-07-4	97
2	4-Methylnaphtho[1,2-b]thiophene	198	C13H10S	067388-11-8	96
3	2-Methyldibenzothiophene	198	C13H10S	1000383-55-1	94
4	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	93
5	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	93





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Acq On : 24 Oct 2023 22:09
Operator : MA/JU
Sample : 04841-02 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
M-3(0-5)

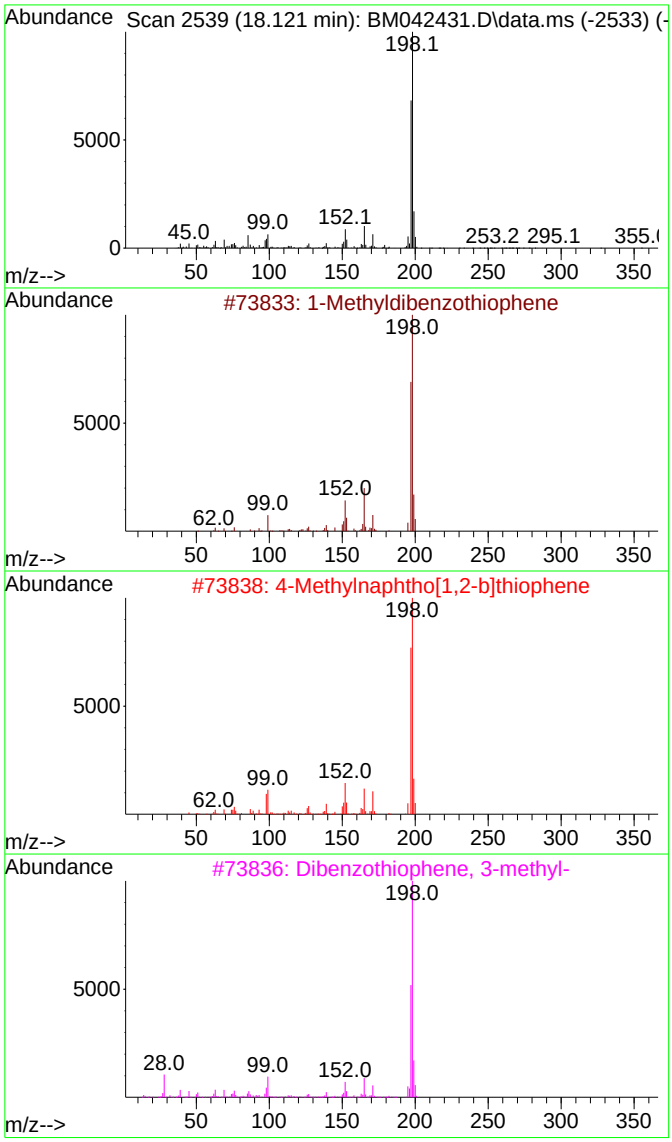
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM102123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

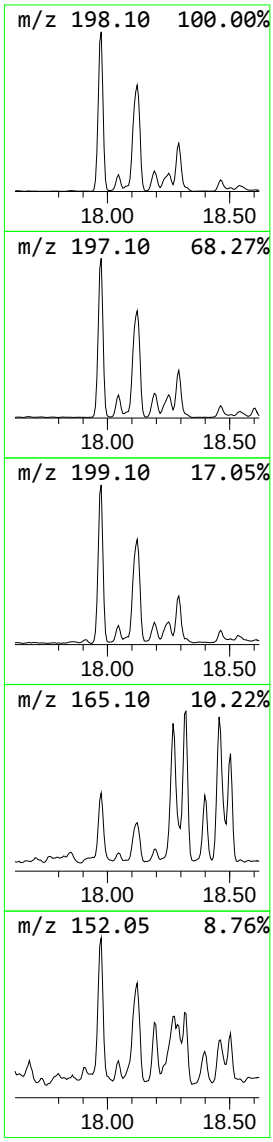
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 9 4-Methylnaphtho[1,2-b]thiop... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.121	35.85 ng	3108580	Phenanthrene-d10	17.398

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Methyldibenzothiophene	198	C13H10S	031317-07-4	97
2	4-Methylnaphtho[1,2-b]thiophene	198	C13H10S	067388-11-8	96
3	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	95
4	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	94
5	2-Methyldibenzothiophene	198	C13H10S	1000383-55-1	93





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Acq On : 24 Oct 2023 22:09
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Sample : 04841-02 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
M-3(0-5)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM102123.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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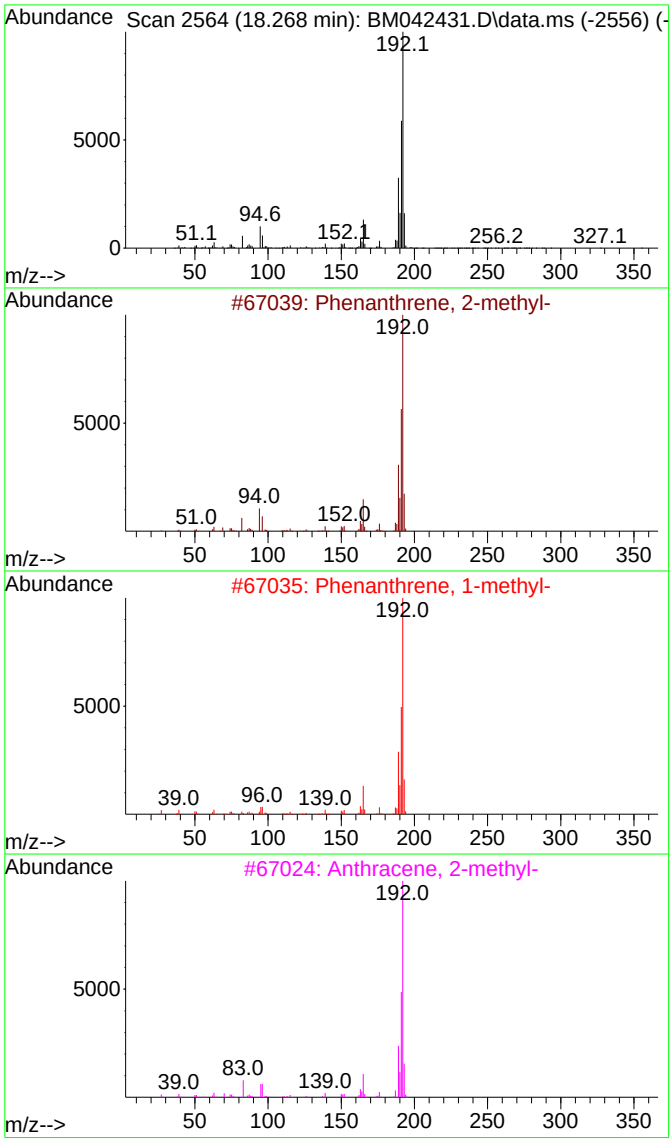
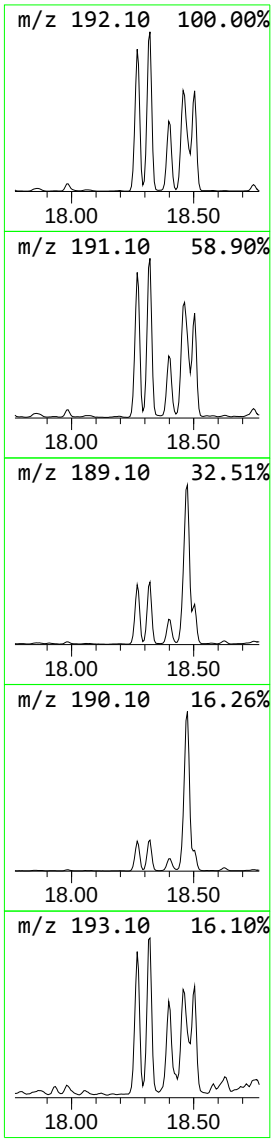
Peak Number 10 Phenanthrene, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.268	86.12 ng	7467730	Phenanthrene-d10	17.398

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	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	95





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Acq On : 24 Oct 2023 22:09
Operator : MA/JU
Sample : 04841-02 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
M-3(0-5)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM102123.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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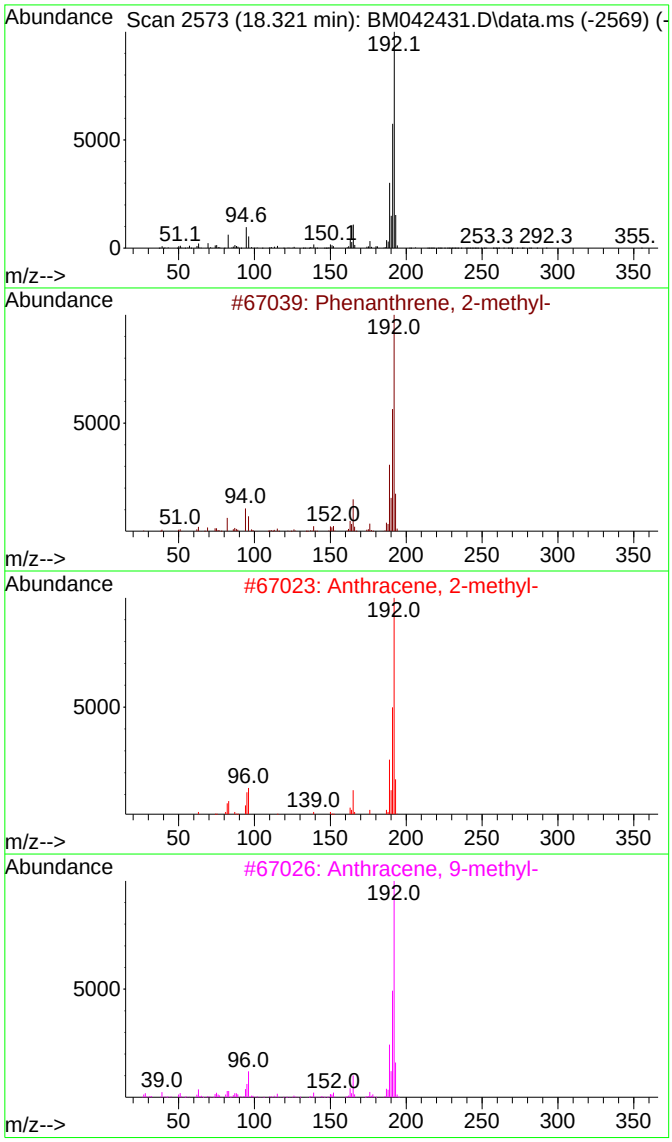
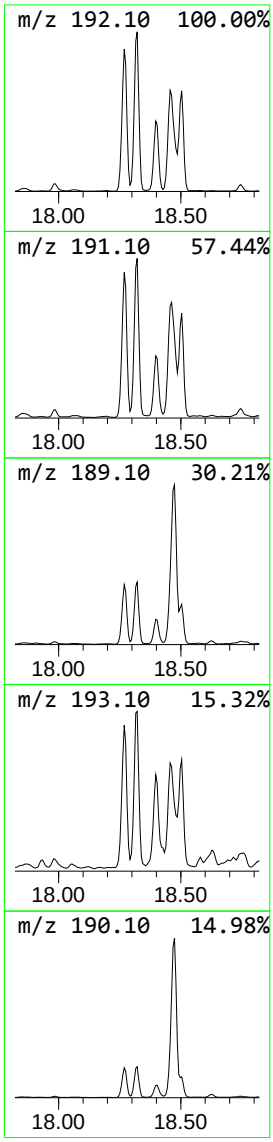
Peak Number 11 Anthracene, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.321	66.44 ng	5760790	Phenanthrene-d10	17.398

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	93
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	90
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	89





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Acq On : 24 Oct 2023 22:09
Operator : MA/JU
Sample : 04841-02 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
M-3(0-5)

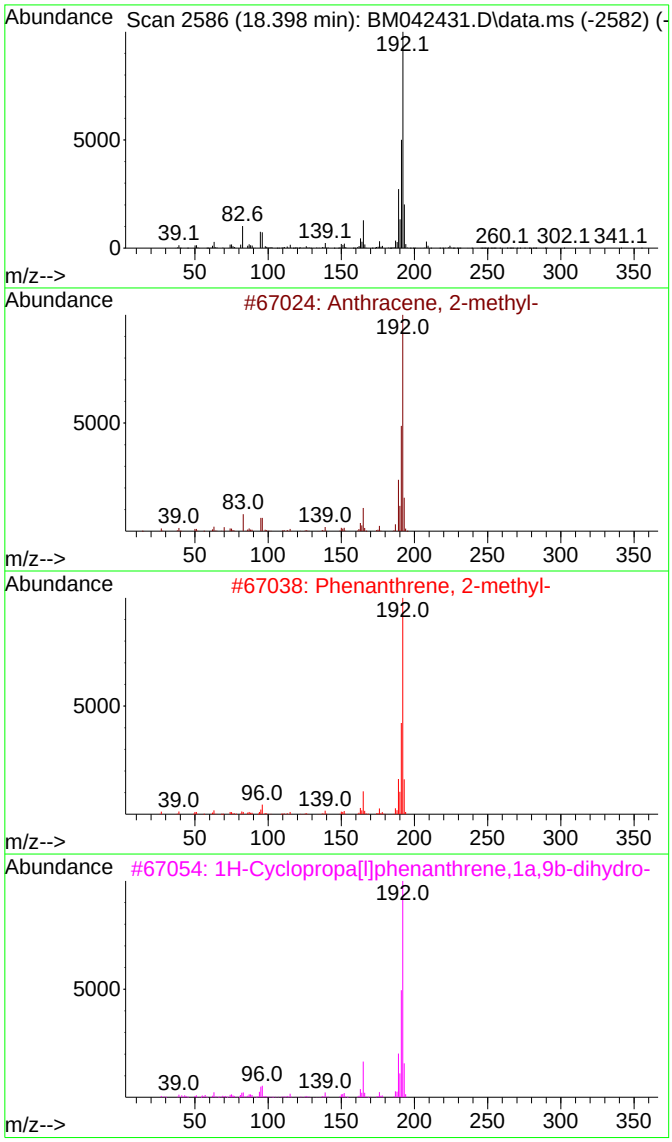
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM102123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

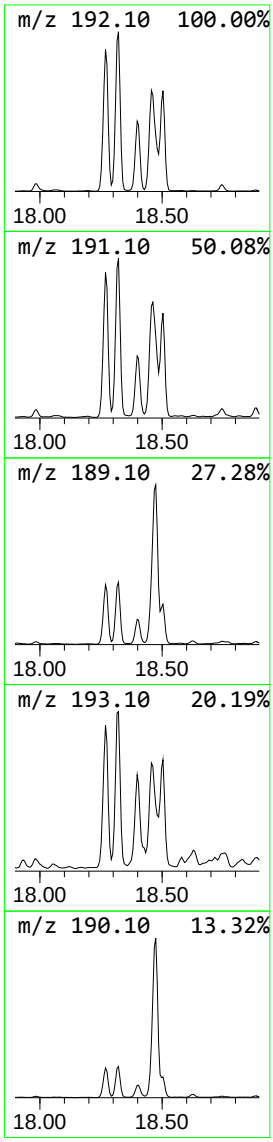
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 12 1H-Cyclopropa[l]phenanthren... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.398	29.87 ng	2590210	Phenanthrene-d10	17.398

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	97
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
5	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	95





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Acq On : 24 Oct 2023 22:09
Operator : MA/JU
Sample : 04841-02 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
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ClientSampleId :
M-3(0-5)

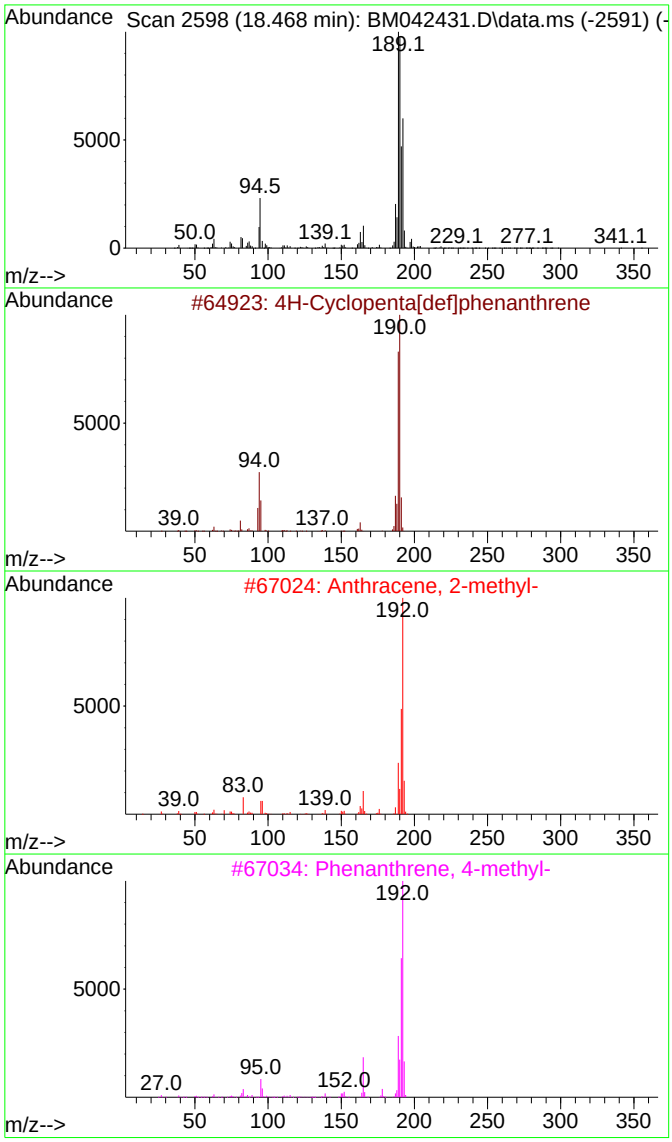
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM102123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

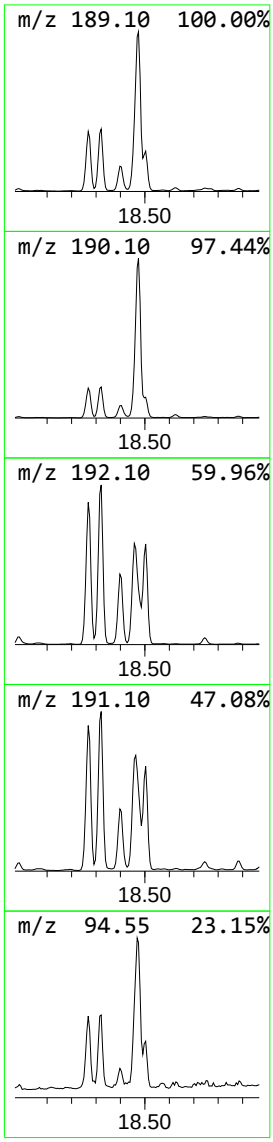
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 13 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.468	123.59 ng	10716500	Phenanthrene-d10	17.398

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	92
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	25
3	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	20
4	1a,9b-Dihydro-1H-cyclopropa[a]an...	192	C15H12	006109-24-6	18
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	18





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Acq On : 24 Oct 2023 22:09
Operator : MA/JU
Sample : 04841-02 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
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ClientSampleId :
M-3(0-5)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM102123.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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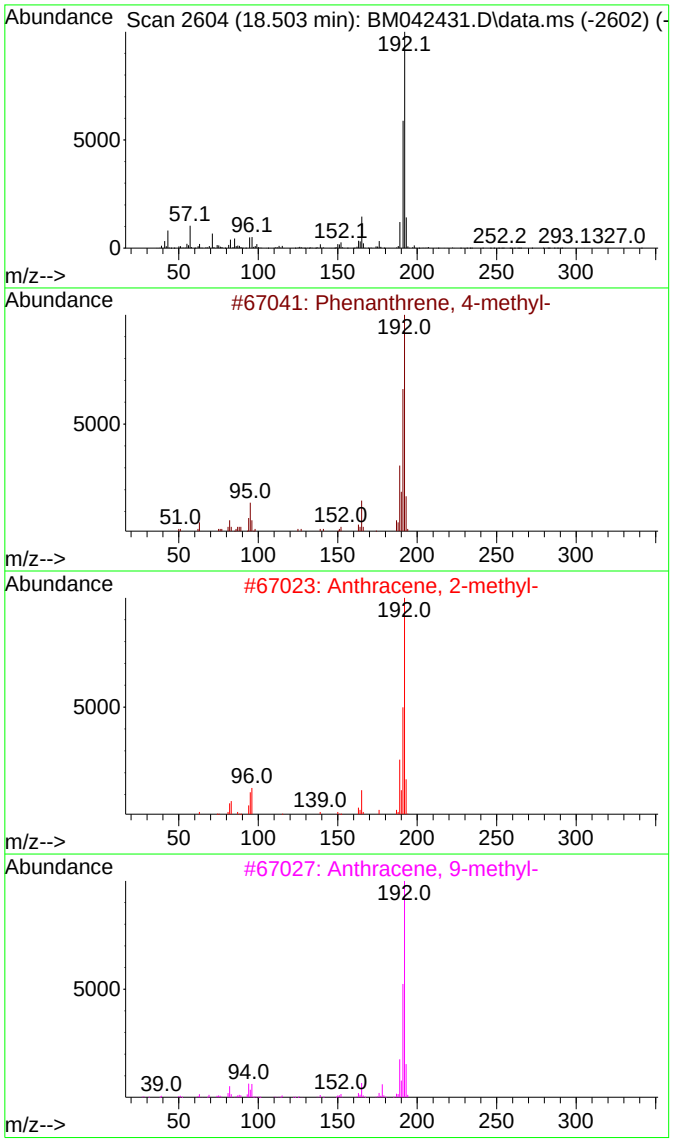
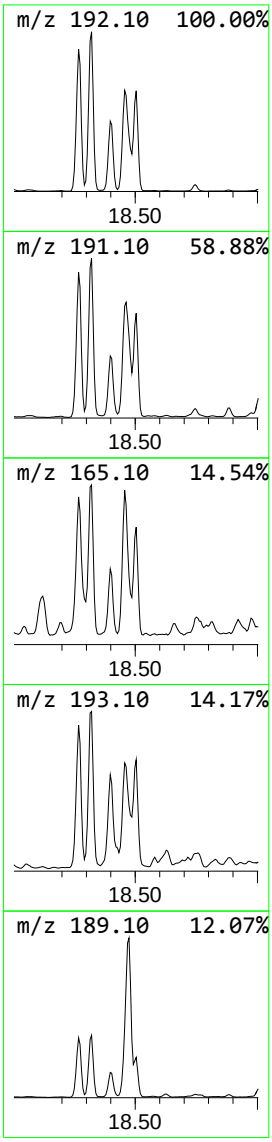
Peak Number 14 Phenanthrene, 4-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.503	40.10 ng	3476810	Phenanthrene-d10	17.398

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	91
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	87
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	87
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	87
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	81





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Acq On : 24 Oct 2023 22:09
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Sample : 04841-02 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
M-3(0-5)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM102123.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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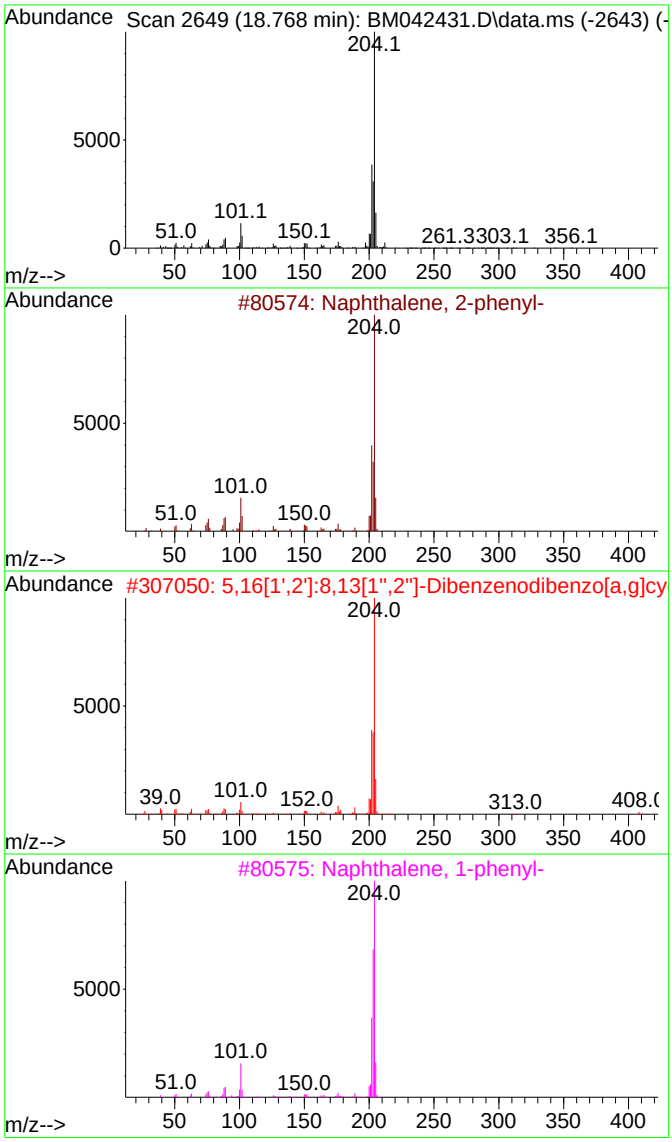
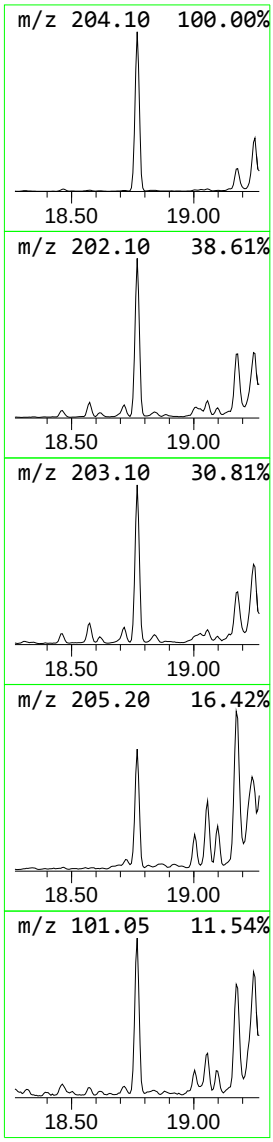
Peak Number 15 Naphthalene, 2-phenyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.768	43.66 ng	3786240	Phenanthrene-d10	17.398

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	96
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	91
3	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	70
4	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	53
5	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	53





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Operator : MA/JU
Sample : 04841-02 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
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ClientSampleId :
M-3(0-5)

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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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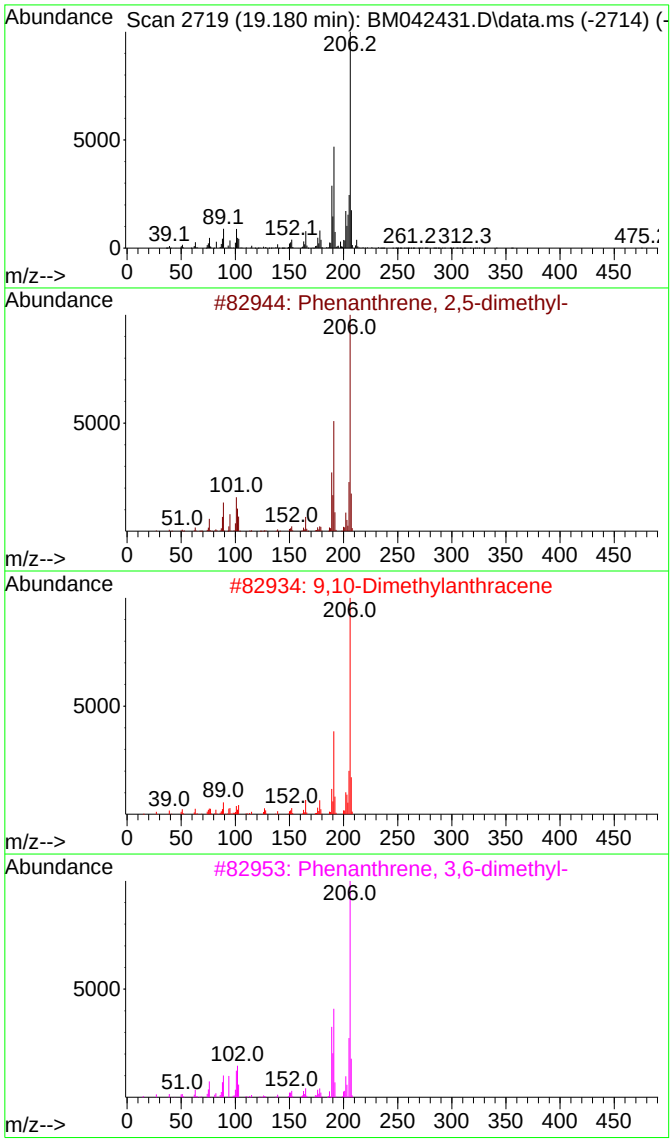
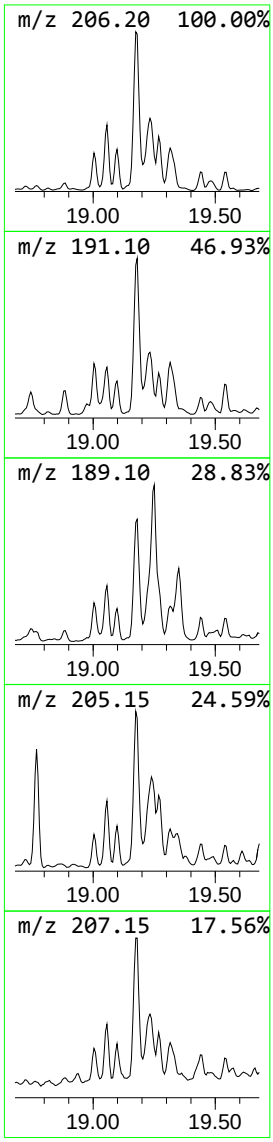
Peak Number 16 Phenanthrene, 2,5-dimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.180	35.03 ng	3037520	Phenanthrene-d10	17.398

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	94
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
4	di-p-Tolylacetylene	206	C16H14	002789-88-0	90
5	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	90





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM102423\
Data File : BM042431.D
Acq On : 24 Oct 2023 22:09
Operator : MA/JU
Sample : 04841-02 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
M-3(0-5)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM102123.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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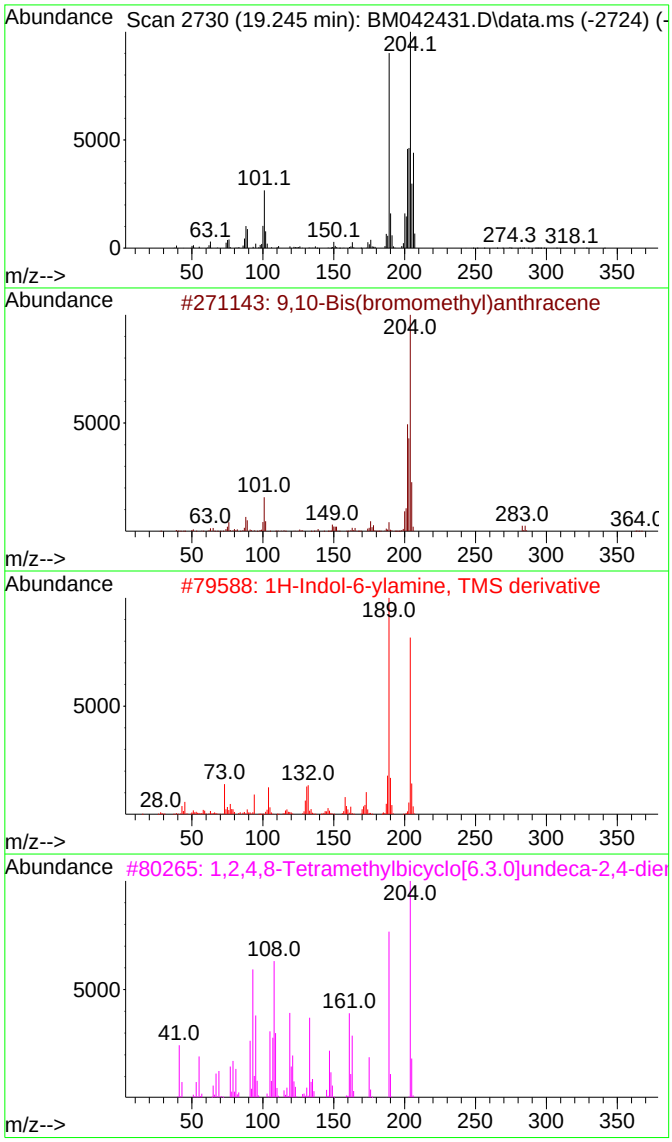
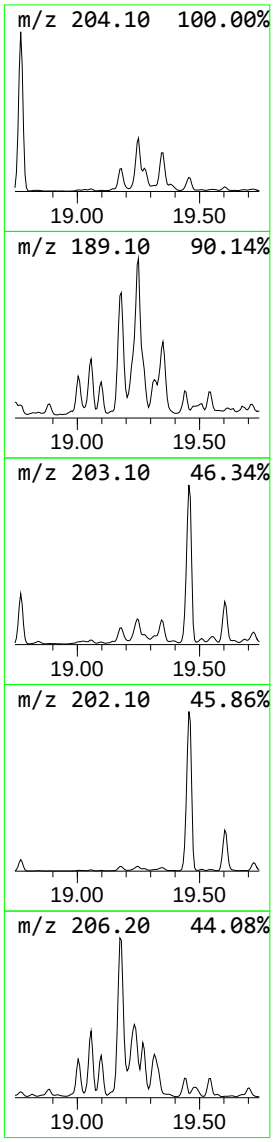
Peak Number 17 unknown19.245 Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.245	21.79 ng	1889390	Phenanthrene-d10	17.398

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	49
2	1H-Indol-6-ylamine, TMS derivative	204	C11H16N2Si	1000484-86-1	46
3	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	38
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	38
5	5H-Dibenzo[a,d]cycloheptene, 5-m...	204	C16H12	002975-79-3	38





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM102423\
Data File : BM042431.D
Acq On : 24 Oct 2023 22:09
Operator : MA/JU
Sample : 04841-02 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
M-3(0-5)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM102123.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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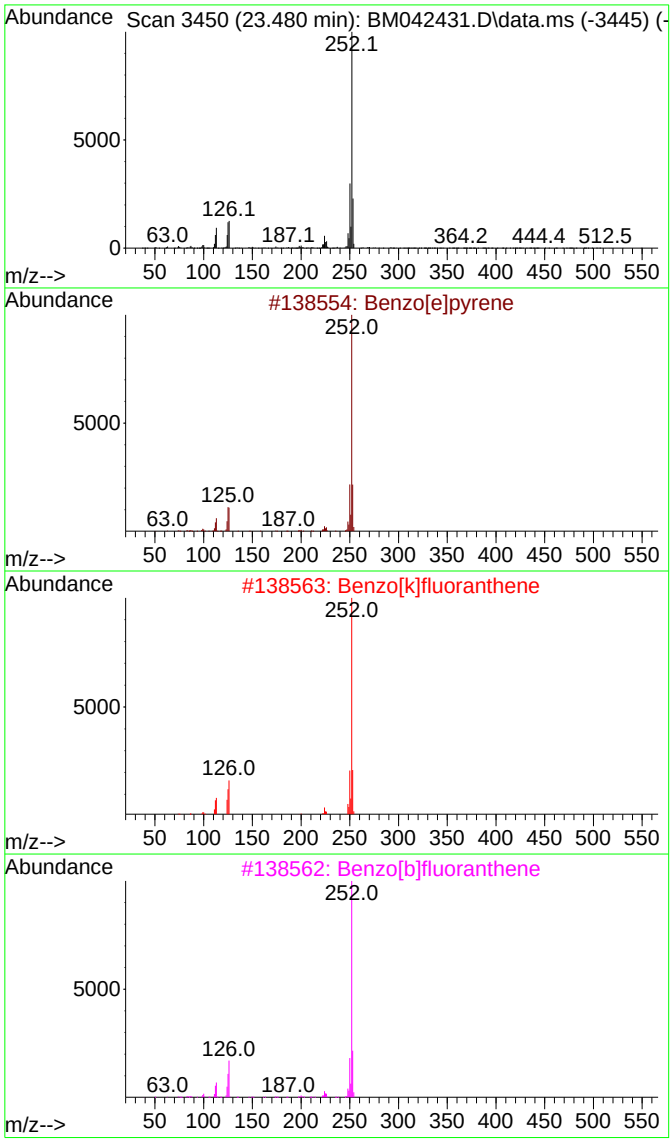
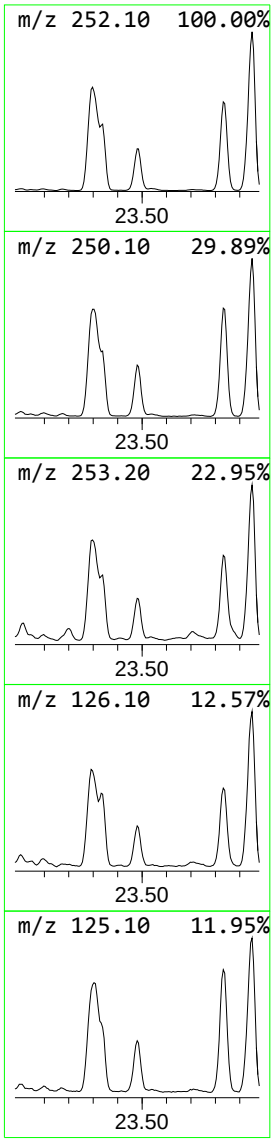
Peak Number 18 Benzo[e]pyrene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.480	30.76 ng	1978170	Perylene-d12	24.050

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	97
3	Benzo[b]fluoranthene	252	C20H12	000205-99-2	96
4	Benzo[a]pyrene	252	C20H12	000050-32-8	93
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	90





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM102423\
Data File : BM042431.D
Acq On : 24 Oct 2023 22:09
Operator : MA/JU
Sample : 04841-02 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
M-3(0-5)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM102123.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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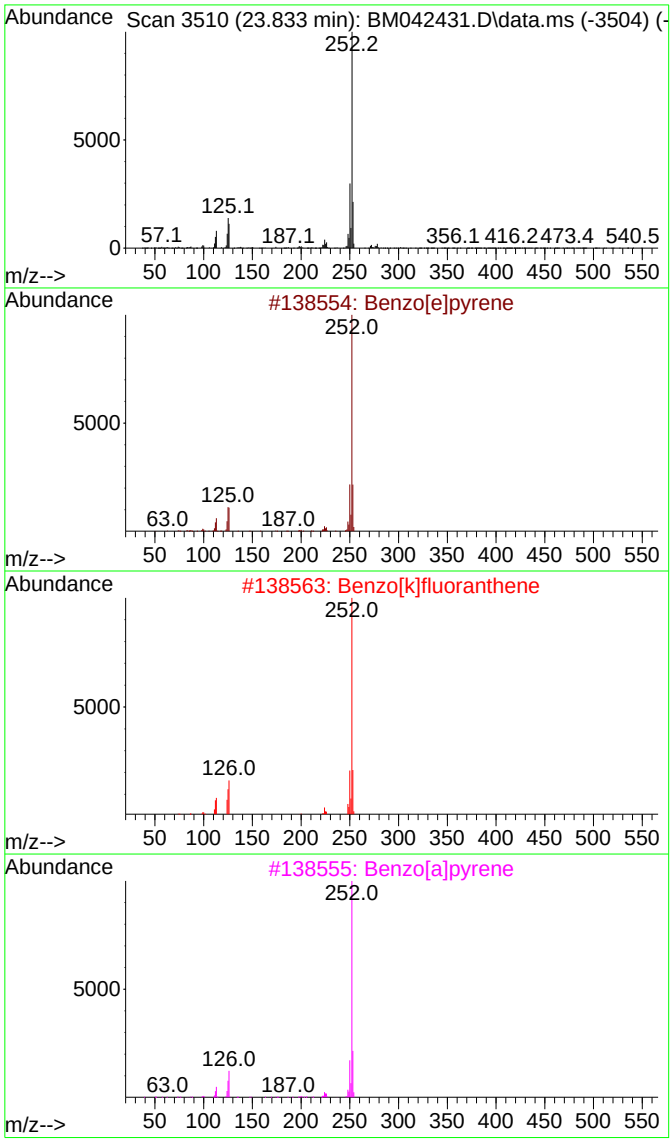
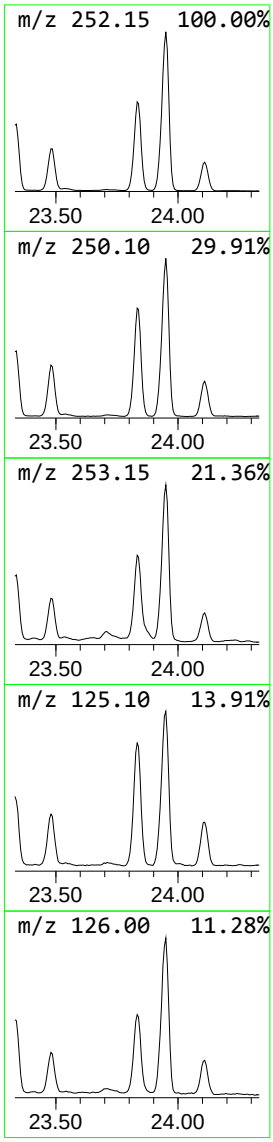
Peak Number 19 Perylene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.833	76.44 ng	4916370	Perylene-d12	24.050

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





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM102423\
Data File : BM042431.D
Acq On : 24 Oct 2023 22:09
Operator : MA/JU
Sample : 04841-02 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
M-3(0-5)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM102123.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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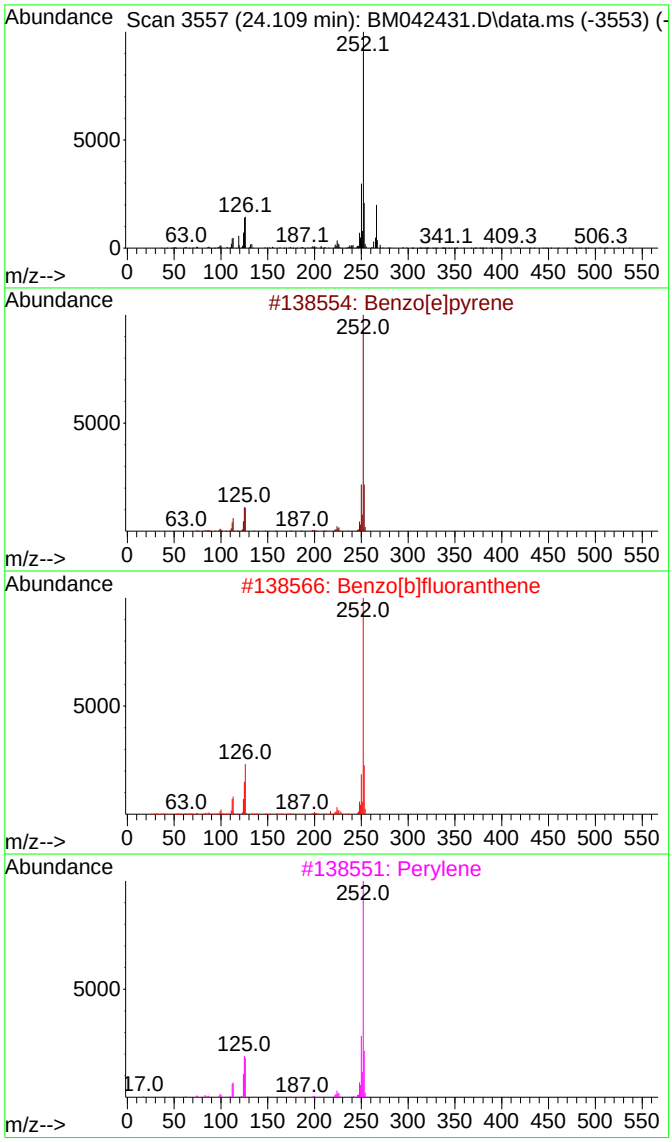
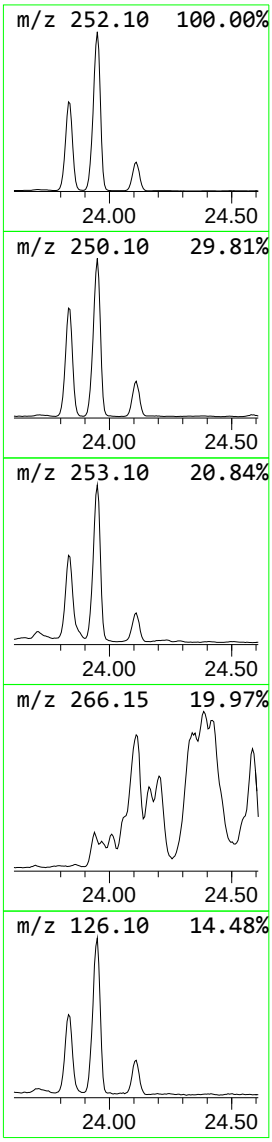
Peak Number 20 Benzo[j]fluoranthene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.109	28.80 ng	1852070	Perylene-d12	24.050

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Benzo[b]fluoranthene	252	C20H12	000205-99-2	96
3	Perylene	252	C20H12	000198-55-0	96
4	Benzo[j]fluoranthene	252	C20H12	000205-82-3	96
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	95





Tentatively Identified Compound (LSC) summary

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM102423\
Data File : BM042431.D
Acq On : 24 Oct 2023 22:09
Operator : MA/JU
Sample : 04841-02 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
M-3(0-5)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM102123.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
Naphthalene, 1,...	13.798	33.1	ng	2311740	3	14.639	1395950	20.0
Naphthalene, 2,...	13.957	49.9	ng	3480920	3	14.639	1395950	20.0
Naphthalene, 1,...	14.192	23.0	ng	1604610	3	14.639	1395950	20.0
Naphthalene, 1,...	15.233	25.4	ng	1773220	3	14.639	1395950	20.0
1H-Phenalene	15.510	19.1	ng	1336450	3	14.639	1395950	20.0
9H-Fluorene, 1-...	16.686	32.1	ng	2785260	4	17.398	1734250	20.0
Dibenzothiophene	17.215	55.9	ng	4848780	4	17.398	1734250	20.0
1-Methyldibenzo...	17.974	40.6	ng	3518850	4	17.398	1734250	20.0
4-Methylnaphtho...	18.121	35.9	ng	3108580	4	17.398	1734250	20.0
Phenanthrene, 2...	18.268	86.1	ng	7467730	4	17.398	1734250	20.0
Anthracene, 2-m...	18.321	66.4	ng	5760790	4	17.398	1734250	20.0
1H-Cyclopropa[l...	18.398	29.9	ng	2590210	4	17.398	1734250	20.0
4H-Cyclopenta[d...	18.468	123.6	ng	10716500	4	17.398	1734250	20.0
Phenanthrene, 4...	18.503	40.1	ng	3476810	4	17.398	1734250	20.0
Naphthalene, 2-...	18.768	43.7	ng	3786240	4	17.398	1734250	20.0
Phenanthrene, 2...	19.180	35.0	ng	3037520	4	17.398	1734250	20.0
unknown19.245	19.245	21.8	ng	1889390	4	17.398	1734250	20.0
Benzo[e]pyrene	23.480	30.8	ng	1978170	6	24.050	1286370	20.0
Perylene	23.833	76.4	ng	4916370	6	24.050	1286370	20.0
Benzo[j]fluoran...	24.109	28.8	ng	1852070	6	24.050	1286370	20.0