LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050819\
Data File : BM020203.D
Acq On : 08 May 2019 20:10
Operator : JU/SJ
Sample : K2641-07 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : CL-02-050719-D

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-BM043019.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.363	397	404	415	rBV	1310150	1910986	29.91%	2.356%
2	6.951	666	674	687	rBV	1226617	2048200	32.06%	2.525%
3	7.316	729	736	747	rBV	1292908	2084405	32.63%	2.570%
4	7.781	809	815	822	rBV	583161	939987	14.71%	1.159%
5	8.098	863	869	877	rBV	985606	1618800	25.34%	1.996%
6	8.951	1004	1014	1028	rBV	727603	1289120	20.18%	1.589%
7	10.580	1284	1291	1296	rBV	658136	1126687	17.64%	1.389%
8	10.628	1296	1299	1307	rVB	79719	119486	1.87%	0.147%
9	12.245	1569	1574	1579	rVB2	80358	121319	1.90%	0.150%
10	12.463	1602	1611	1619	rVB	108690	186674	2.92%	0.230%
11	13.045	1699	1710	1720	rBV	1802453	2677229	41.90%	3.301%
12	13.586	1796	1802	1804	rBV2	64230	109357	1.71%	0.135%
13	13.745	1823	1829	1834	rBV2	126420	235277	3.68%	0.290%
14	13.798	1834	1838	1842	rVV	76096	98153	1.54%	0.121%
15	13.886	1847	1853	1859	rVV	222731	320361	5.01%	0.395%
16	13.980	1865	1869	1873	rBV2	55333	88059	1.38%	0.109%
17	14.151	1892	1898	1908	rVB	245821	400108	6.26%	0.493%
18	14.427	1934	1945	1951	rBV2	1001253	1571686	24.60%	1.938%
19	14.492	1951	1956	1963	rVB	362663	540510	8.46%	0.666%
20	14.639	1974	1981	1987	rBV4	41846	102969	1.61%	0.127%
21	14.739	1991	1998	2003	rVV6	32926	75905	1.19%	0.094%
22	14.827	2005	2013	2020	rVV2	270815	444205	6.95%	0.548%
23	14.898	2020	2025	2033	rVB2	68469	103127	1.61%	0.127%
24	15.039	2043	2049	2054	rBV5	73766	148998	2.33%	0.184%
25	15.210	2071	2078	2082	rBV5	48899	119675	1.87%	0.148%
26	15.380	2099	2107	2111	rBV5	27422	65456	1.02%	0.081%
27	15.480	2118	2124	2134	rVB	471686	776934	12.16%	0.958%
28	15.639	2147	2151	2154	rVB4	60183	77379	1.21%	0.095%
29	15.768	2169	2173	2180	rVB	109430	168307	2.63%	0.207%
30	15.921	2189	2199	2207	rBV	1553536	2411204	37.74%	2.973%
31	16.145	2229	2237	2244	rBV5	83349	202127	3.16%	0.249%
32	16.280	2255	2260	2264	rBV3	40356	67477	1.06%	0.083%
33	16.480	2285	2294	2298	rBV2	138187	293337	4.59%	0.362%
34	16.527	2298	2302	2306	rVB2	82004	115696	1.81%	0.143%

LSC Area Percent Report

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Operator : JU/SJ
Sample : K2641-07 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : CL-02-050719-D

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-BM043019.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	16.627	2316	2319	2324	rVB	94268	120569	1.89%	0.149%
36	16.704	2324	2332	2335	rBV5	56411	128340	2.01%	0.158%
37	16.745	2336	2339	2346	rVV5	65950	128141	2.01%	0.158%
38	16.833	2350	2354	2360	rVB4	52892	87842	1.37%	0.108%
39	16.915	2362	2368	2372	rBV3	60558	117962	1.85%	0.145%
40	16.998	2377	2382	2392	rVB	198625	318565	4.99%	0.393%
41	17.174	2406	2412	2416	rBV2	1192328	1873659	29.33%	2.310%
42	17.221	2416	2420	2427	rVV	2639466	3580746	56.05%	4.414%
43	17.309	2430	2435	2440	rVV	945330	1340396	20.98%	1.652%
44	17.368	2440	2445	2450	rVB2	85209	165198	2.59%	0.204%
45	17.586	2476	2482	2490	rBV	185391	348571	5.46%	0.430%
46	17.698	2497	2501	2506	rBV	71779	96229	1.51%	0.119%
47	17.756	2506	2511	2516	rVB	121652	189545	2.97%	0.234%
48	17.904	2530	2536	2543	rBV2	74375	158068	2.47%	0.195%
49	18.051	2556	2561	2565	rBV	493407	747596	11.70%	0.922%
50	18.098	2565	2569	2575	rVB	562292	808423	12.65%	0.997%
51	18.180	2578	2583	2588	rBV	301252	401670	6.29%	0.495%
52	18.251	2588	2595	2598	rVV2	879057	1558854	24.40%	1.922%
53	18.280	2598	2600	2606	rVB	347085	440804	6.90%	0.543%
54	18.356	2609	2613	2617	rBV7	47946	77293	1.21%	0.095%
55	18.445	2625	2628	2632	rVB2	65985	95522	1.50%	0.118%
56	18.551	2641	2646	2650	rBV	271306	409725	6.41%	0.505%
57	18.603	2651	2655	2659	rVB4	97818	147057	2.30%	0.181%
58	18.768	2679	2683	2685	rBV3	57252	88317	1.38%	0.109%
59	18.798	2685	2688	2693	rVV	136040	206179	3.23%	0.254%
60	18.845	2693	2696	2700	rVV	186903	247318	3.87%	0.305%
61	18.886	2700	2703	2707	rVB2	138962	169874	2.66%	0.209%
62	18.968	2712	2717	2722	rBV	388468	681886	10.67%	0.841%
63	19.033	2723	2728	2731	rBV3	142117	241454	3.78%	0.298%
64	19.115	2737	2742	2756	rVB4	170972	486856	7.62%	0.600%
65	19.239	2757	2763	2769	rBV	4971483	6388841	100.00%	7.876%
66	19.333	2776	2779	2784	rBV2	131957	167760	2.63%	0.207%
67	19.386	2784	2788	2792	rBV2	140535	197949	3.10%	0.244%
68	19.480	2799	2804	2807	rBV3	171536	286367	4.48%	0.353%
69	19.568	2814	2819	2821	rBV2	757682	1128047	17.66%	1.391%
70	19.603	2821	2825	2833	rVV	4106865	5834822	91.33%	7.193%
71	19.668	2833	2836	2842	rVB2	266368	406892	6.37%	0.502%

LSC Area Percent Report

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Operator : JU/SJ
Sample : K2641-07 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : CL-02-050719-D

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

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Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	19.803	2852	2859	2863	rBV	2921495	3797773	59.44%	4.682%
73	19.921	2874	2879	2881	rBV2	313731	574632	8.99%	0.708%
74	20.097	2898	2909	2914	rVB2	880706	1777737	27.83%	2.192%
75	20.197	2921	2926	2929	rBV	737583	944549	14.78%	1.164%
76	20.256	2931	2936	2939	rVB2	394648	587671	9.20%	0.724%
77	20.392	2956	2959	2963	rBV	324276	413314	6.47%	0.510%
78	20.439	2964	2967	2976	rVB	339543	557813	8.73%	0.688%
79	21.009	3061	3064	3067	rBV	339365	405417	6.35%	0.500%
80	21.050	3068	3071	3075	rVV2	418161	652447	10.21%	0.804%
81	21.086	3075	3077	3082	rVB2	275948	397340	6.22%	0.490%
82	21.350	3117	3122	3128	rBV2	2951999	6196814	96.99%	7.640%
83	21.403	3128	3131	3139	rVB	2116601	2603508	40.75%	3.210%
84	21.515	3148	3150	3157	rVB	355601	442204	6.92%	0.545%
85	22.968	3392	3397	3401	rBV	1399522	3000256	46.96%	3.699%
86	23.456	3476	3480	3486	rBV	912490	1537970	24.07%	1.896%
87	23.556	3492	3497	3505	rVB	1684022	3086137	48.31%	3.805%
88	23.656	3510	3514	3519	rBV	939096	1606074	25.14%	1.980%

Sum of corrected areas: 81114193

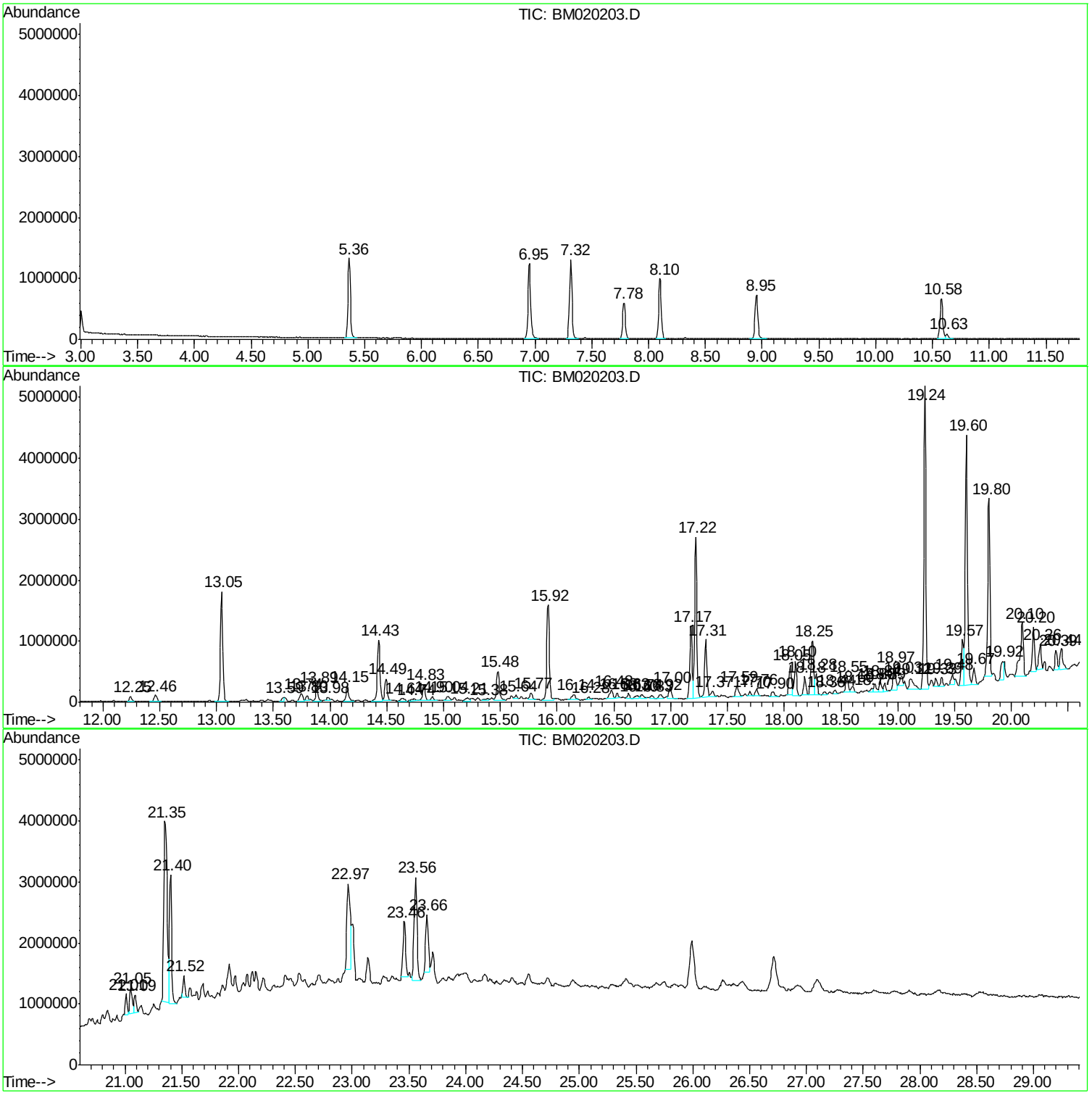
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050819\
Data File : BM020203.D
Acq On : 08 May 2019 20:10
Operator : JU/SJ
Sample : K2641-07 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : CL-02-050719-D

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050819\
Data File : BM020203.D
Acq On : 08 May 2019 20:10
Operator : JU/SJ
Sample : K2641-07 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_M
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
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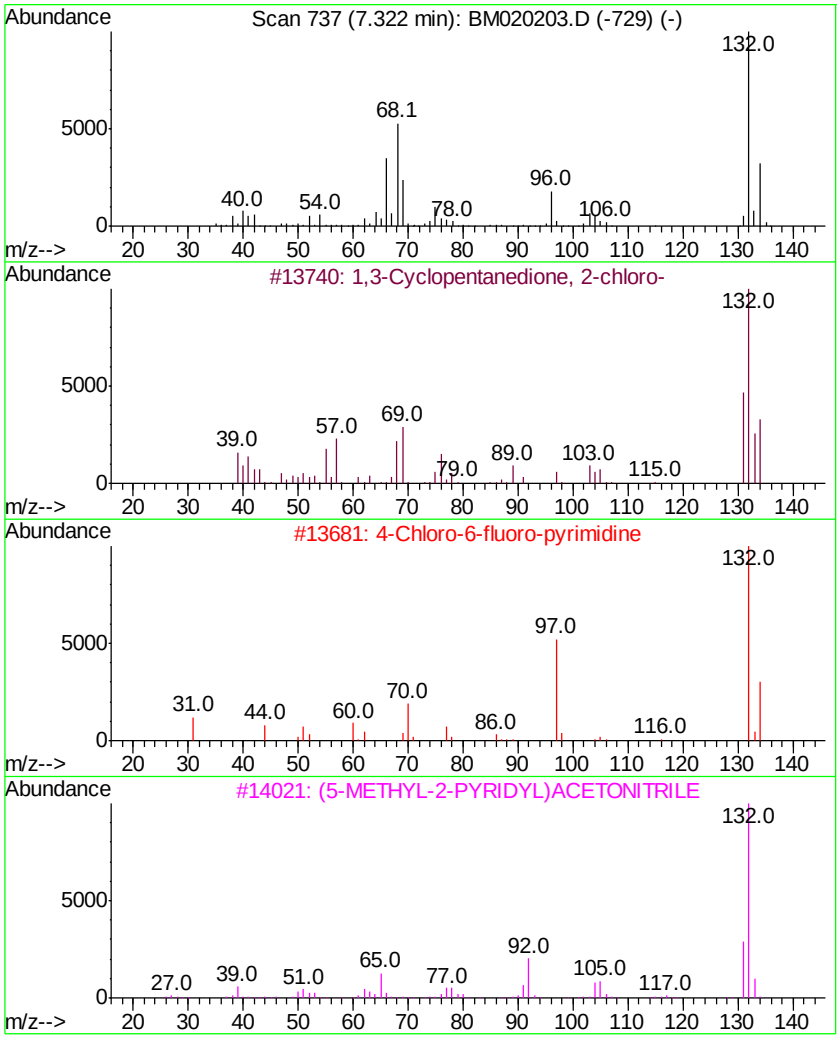
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

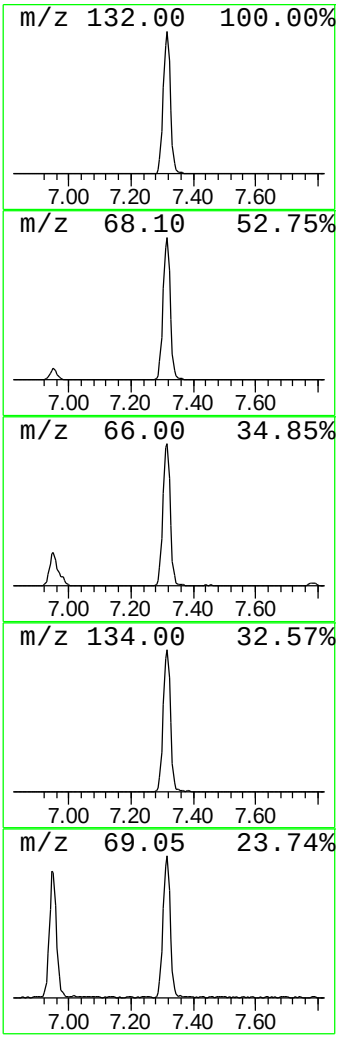
****

Peak Number 1 unknown7.32 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.32	44.35 ng	2084410	1,4-Dichlorobenzene-d4	7.79

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3-Cyclopentanedione, 2-chloro-	132	C5H5ClO2	014203-19-1	38
2	4-Chloro-6-fluoro-pyrimidine	132	C4H2ClFN2	051422-01-6	27
3	(5-METHYL-2-PYRIDYL)ACETONITRILE	132	C8H8N2	1000241-93-9	22
4	Pyrazolo(2,3-a)pyridine, 7-methyl-	132	C8H8N2	034760-58-2	22
5	1H-Benzimidazole, 2-methyl-	132	C8H8N2	000615-15-6	22





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050819\
Data File : BM020203.D
Acq On : 08 May 2019 20:10
Operator : JU/SJ
Sample : K2641-07 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : CL-02-050719-D

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

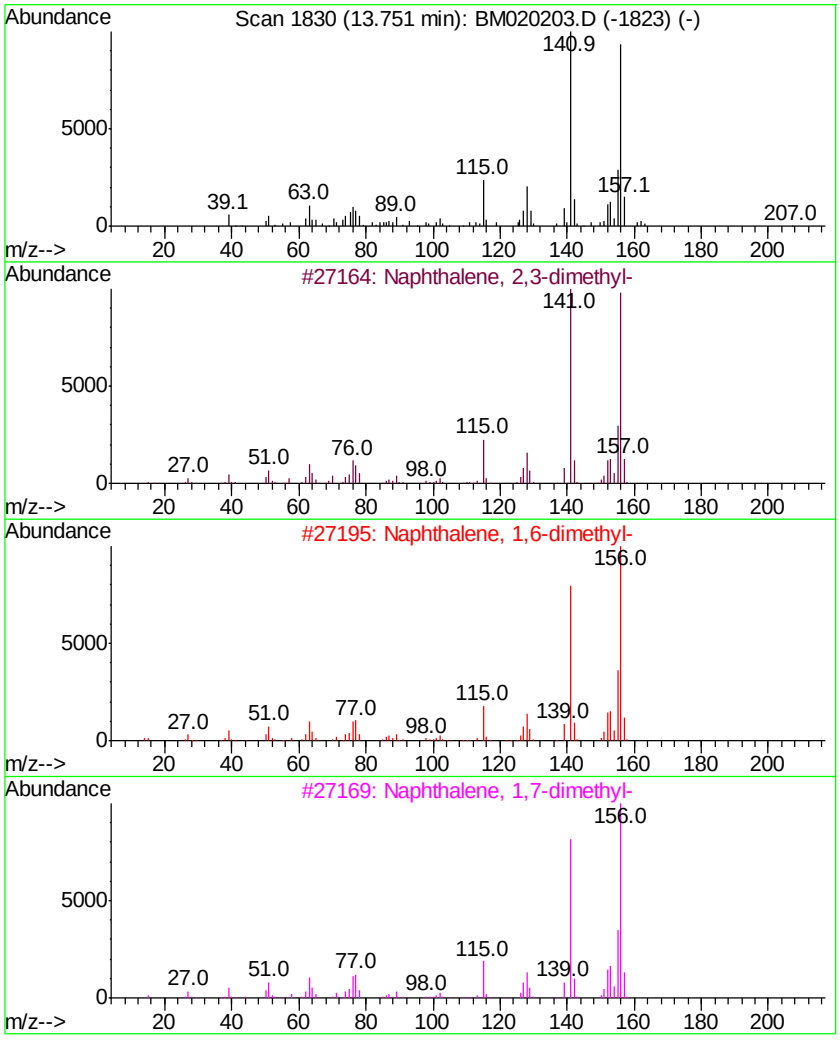
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

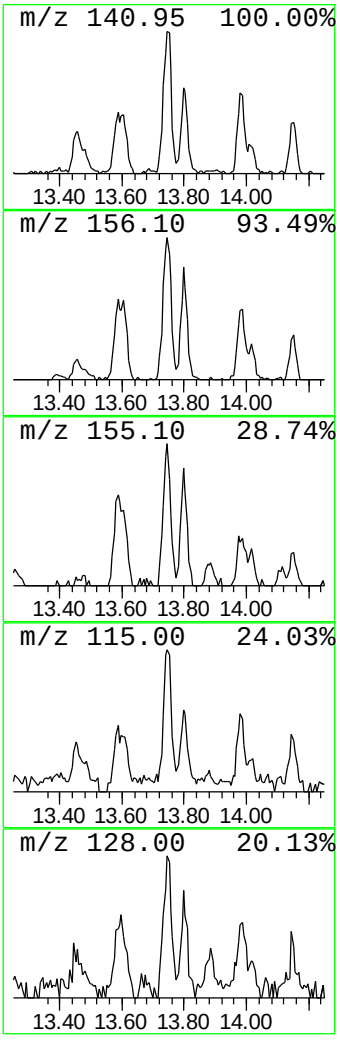
****

Peak Number 3 Naphthalene, 2,3-dimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.75	2.99 ng	235277	Acenaphthene-d10	14.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	98
2	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	98
3	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
4	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	96
5	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96





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Instrument : BNA_M
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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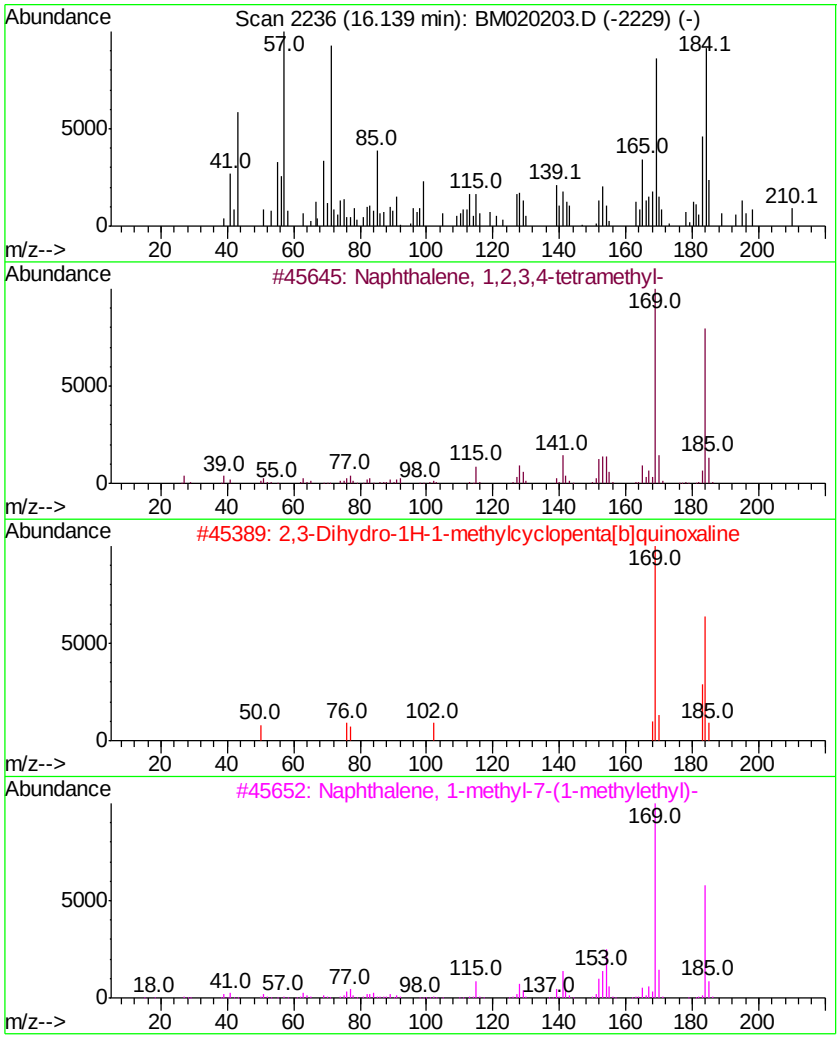
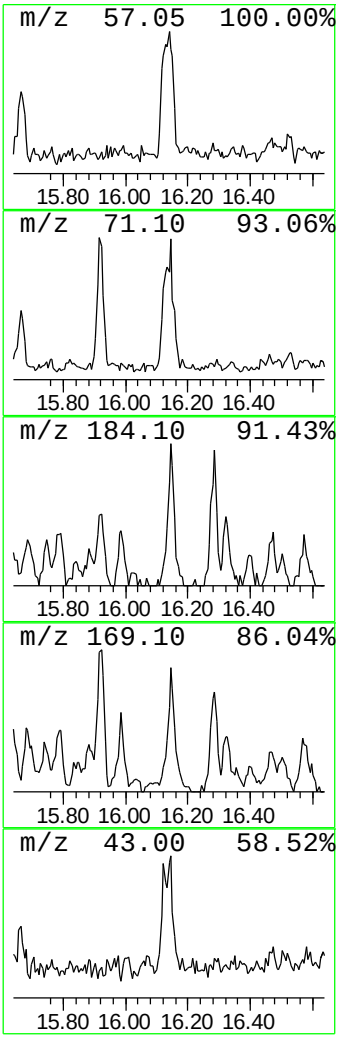
Peak Number 4 Naphthalene, 1,2,3,4-tetram... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.14	2.16 ng	202127	Phenanthrene-d10	17.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetramethyl-	184	C14H16	003031-15-0	62
2	2,3-Dihydro-1H-1-methylcyclopent...	184	C12H12N2	026629-21-0	46
3	Naphthalene, 1-methyl-7-(1-methy...	184	C14H16	000490-65-3	45
4	1,4,5,8-Tetramethylnaphthalene	184	C14H16	002717-39-7	45
5	Azulene, 7-ethyl-1,4-dimethyl-	184	C14H16	000529-05-5	43





Library Search Compound Report

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Sample : K2641-07 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : CL-02-050719-D

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

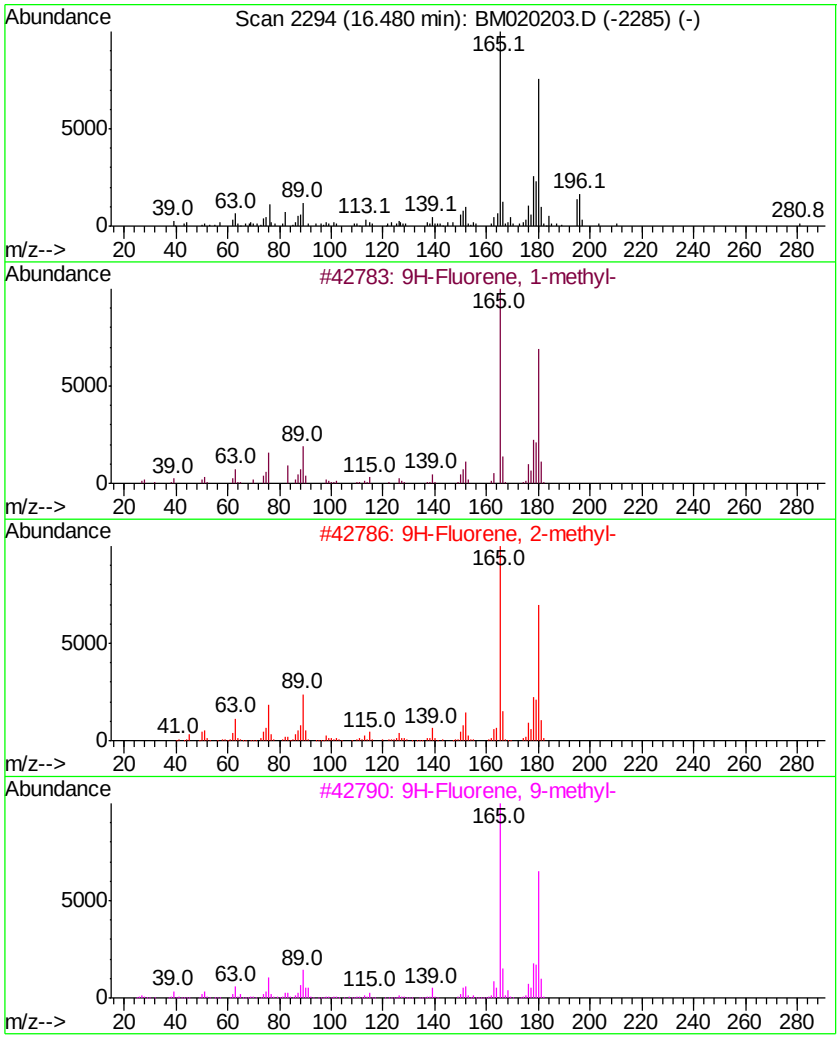
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

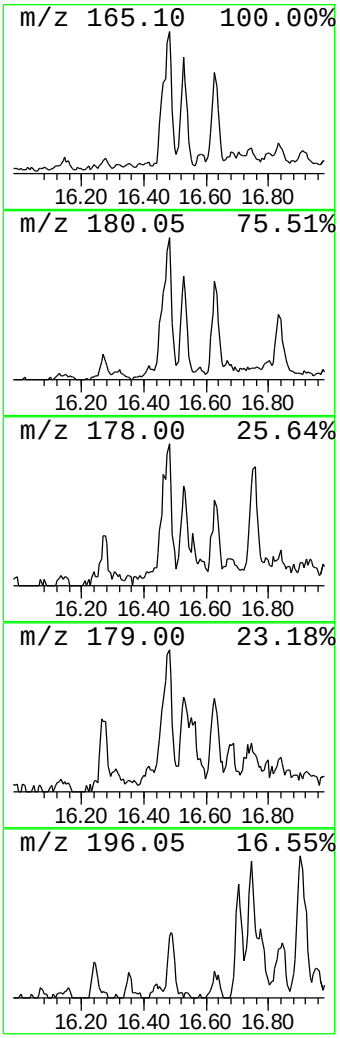
****

Peak Number 5 9H-Fluorene, 1-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.48	3.13 ng	293337	Phenanthrene-d10	17.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	96
2	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	96
3	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	89
4	1,2-Diphenylethylene	180	C14H12	000588-59-0	64
5	(E)-Stilbene	180	C14H12	000103-30-0	64





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Operator : JU/SJ
Sample : K2641-07 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : CL-02-050719-D

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

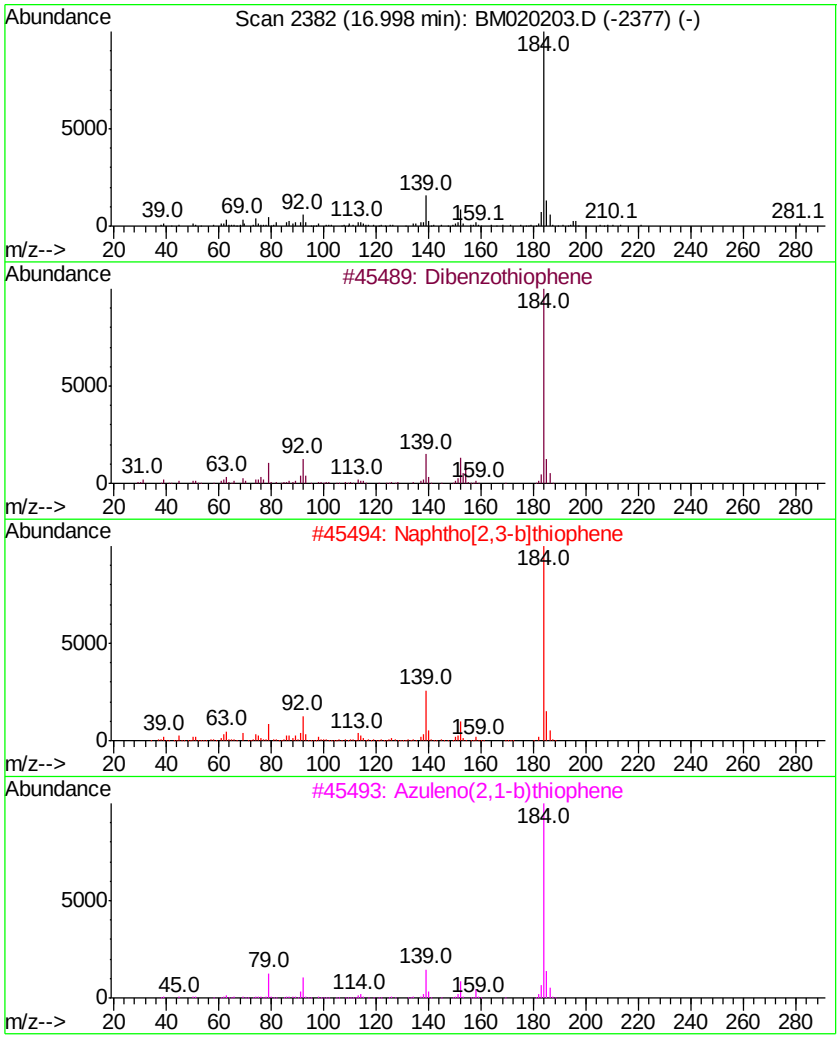
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

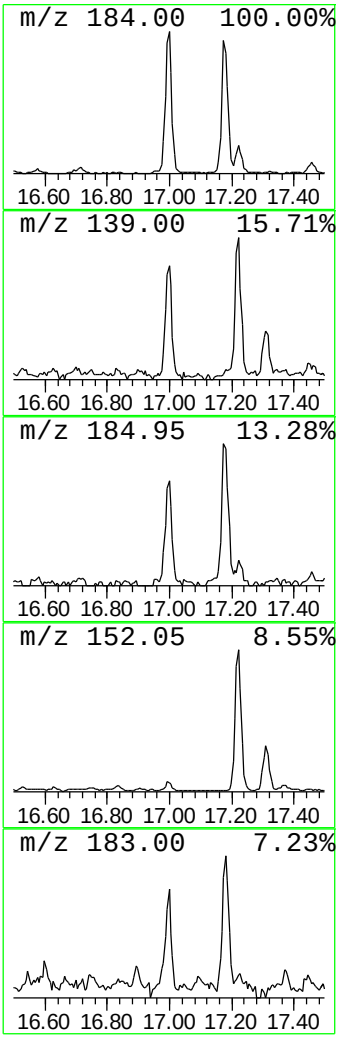
****

Peak Number 6 Dibenzothiophene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.00	3.40 ng	318565	Phenanthrene-d10	17.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	94
2	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	93
3	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91
4	1,1'-Biphenyl, 2-methoxy-	184	C13H12O	000086-26-0	72
5	Dibenzothiophene, 5-oxide	200	C12H8OS	001013-23-6	72





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050819\
Data File : BM020203.D
Acq On : 08 May 2019 20:10
Operator : JU/SJ
Sample : K2641-07 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : CL-02-050719-D

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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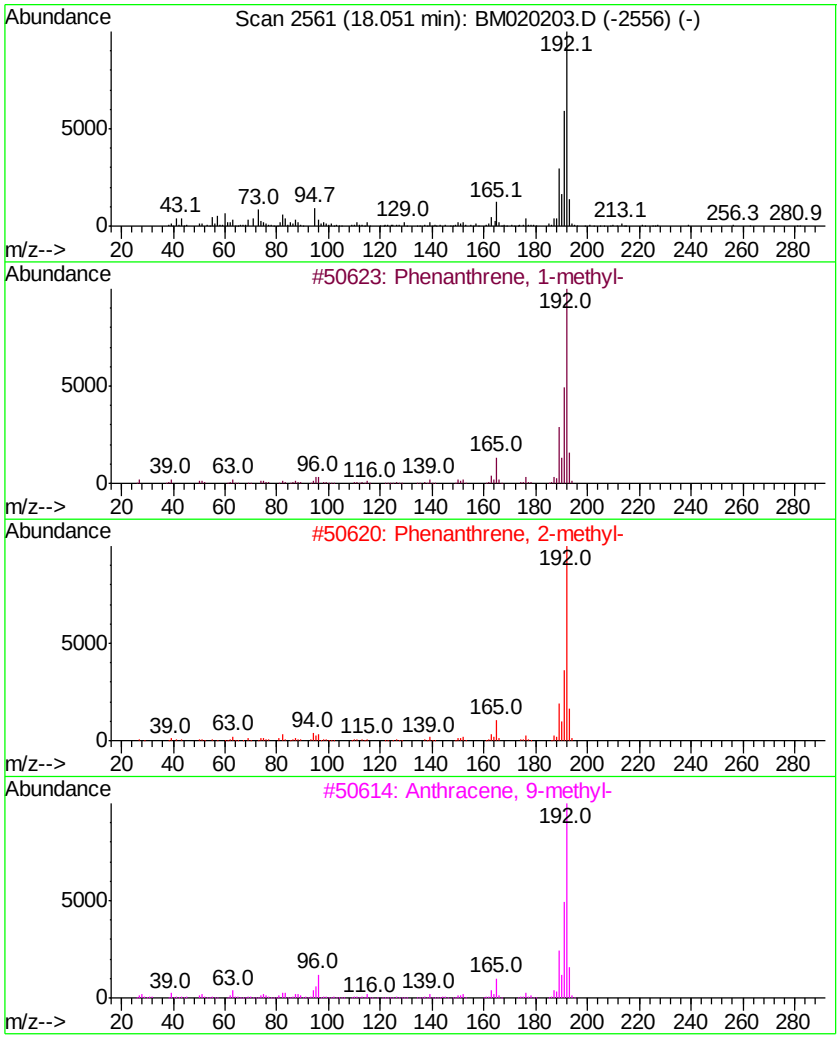
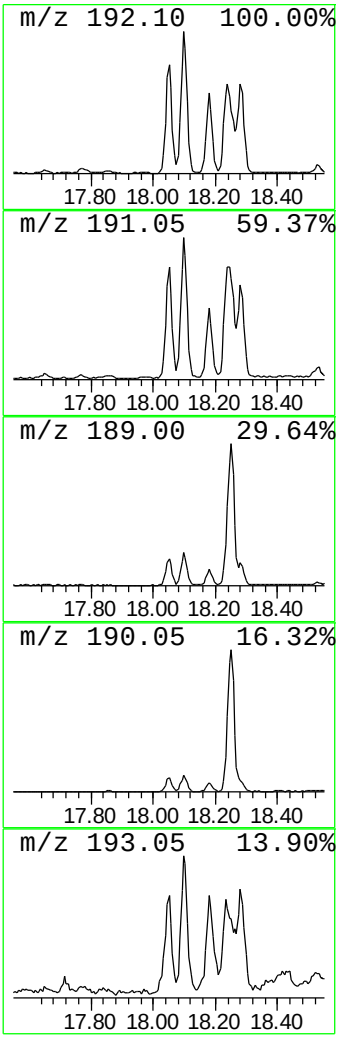
Peak Number 7 Phenanthrene, 1-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.05	7.98 ng	747596	Phenanthrene-d10	17.18

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	95
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	94
4	1H-Indene, 3-phenyl-	192	C15H12	001961-97-3	94
5	1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	94





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050819\
Data File : BM020203.D
Acq On : 08 May 2019 20:10
Operator : JU/SJ
Sample : K2641-07 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : CL-02-050719-D

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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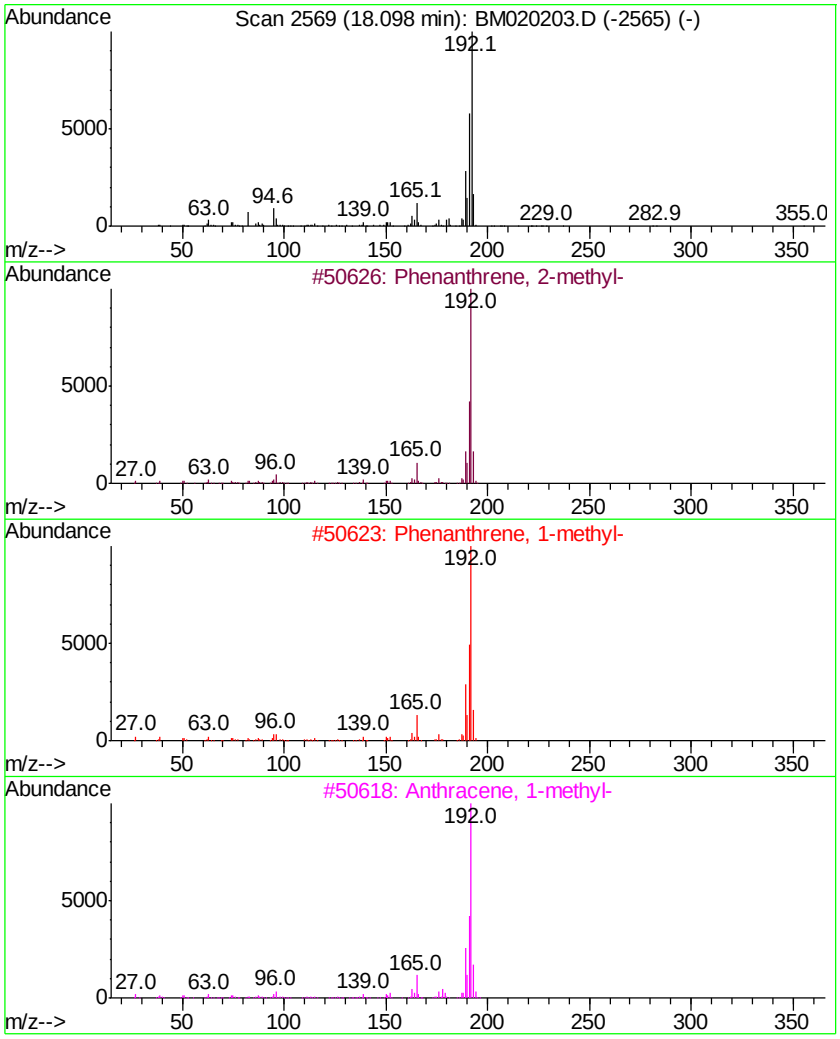
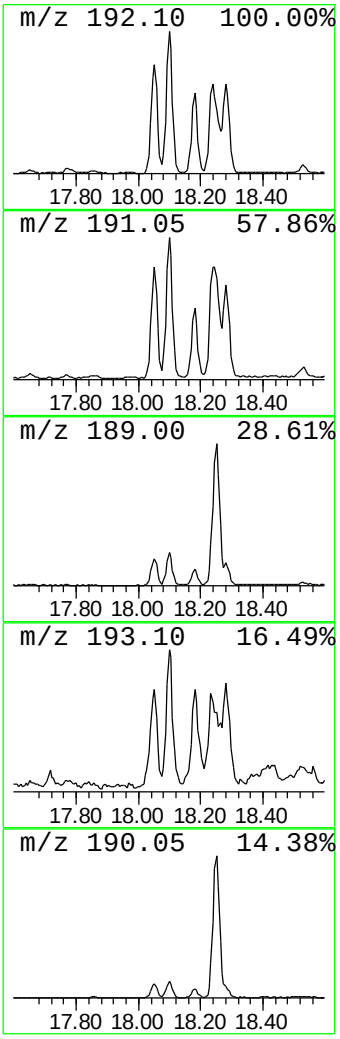
Peak Number 8 Phenanthrene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.10	8.63 ng	808423	Phenanthrene-d10	17.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	91
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91





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Sample : K2641-07 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : CL-02-050719-D

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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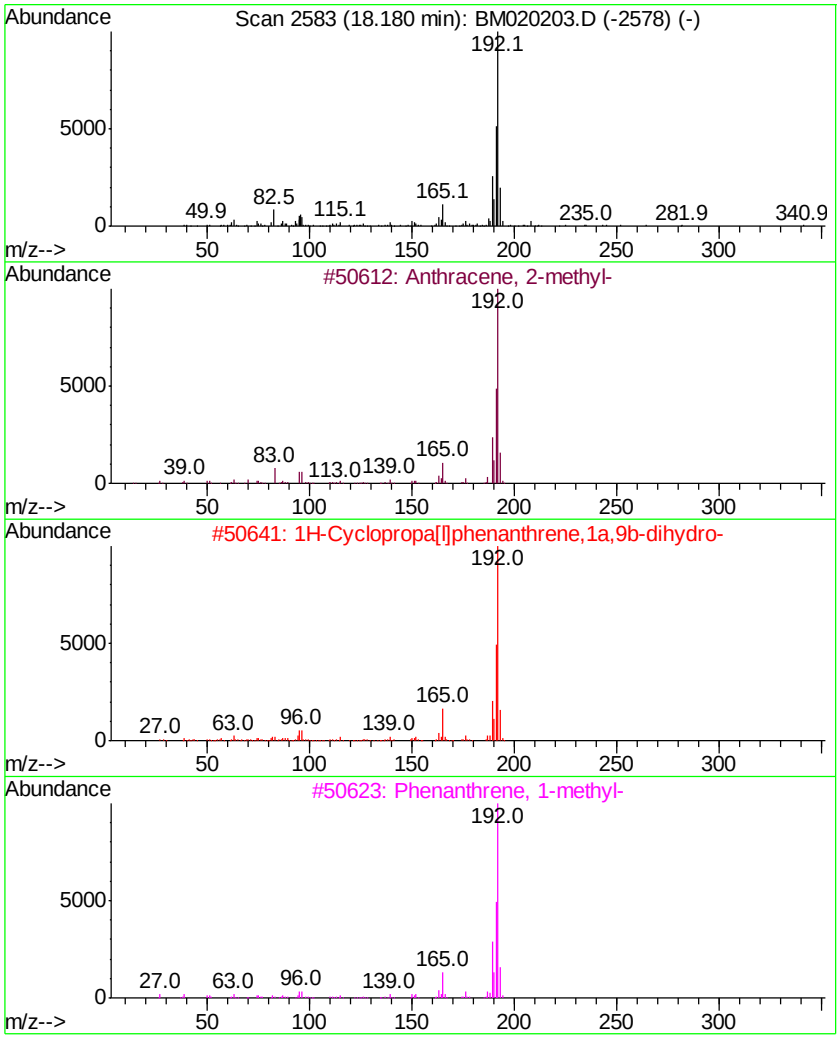
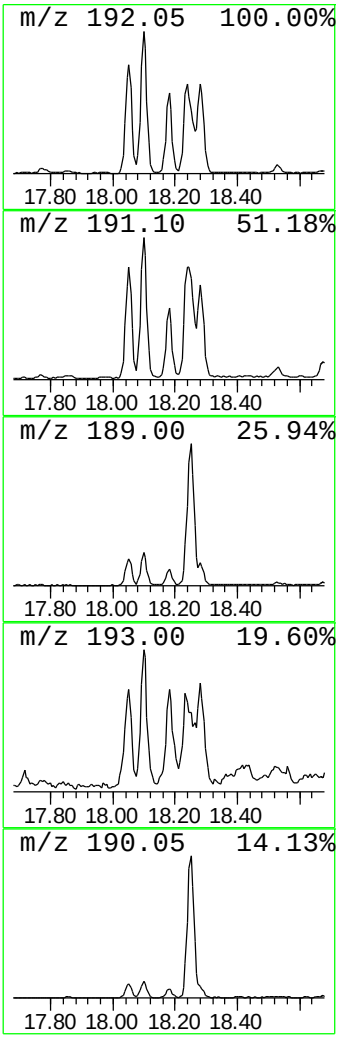
Peak Number 9 Anthracene, 2-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.18	4.29 ng	401670	Phenanthrene-d10	17.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
2	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	94
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93
5	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	91





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Sample : K2641-07 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : CL-02-050719-D

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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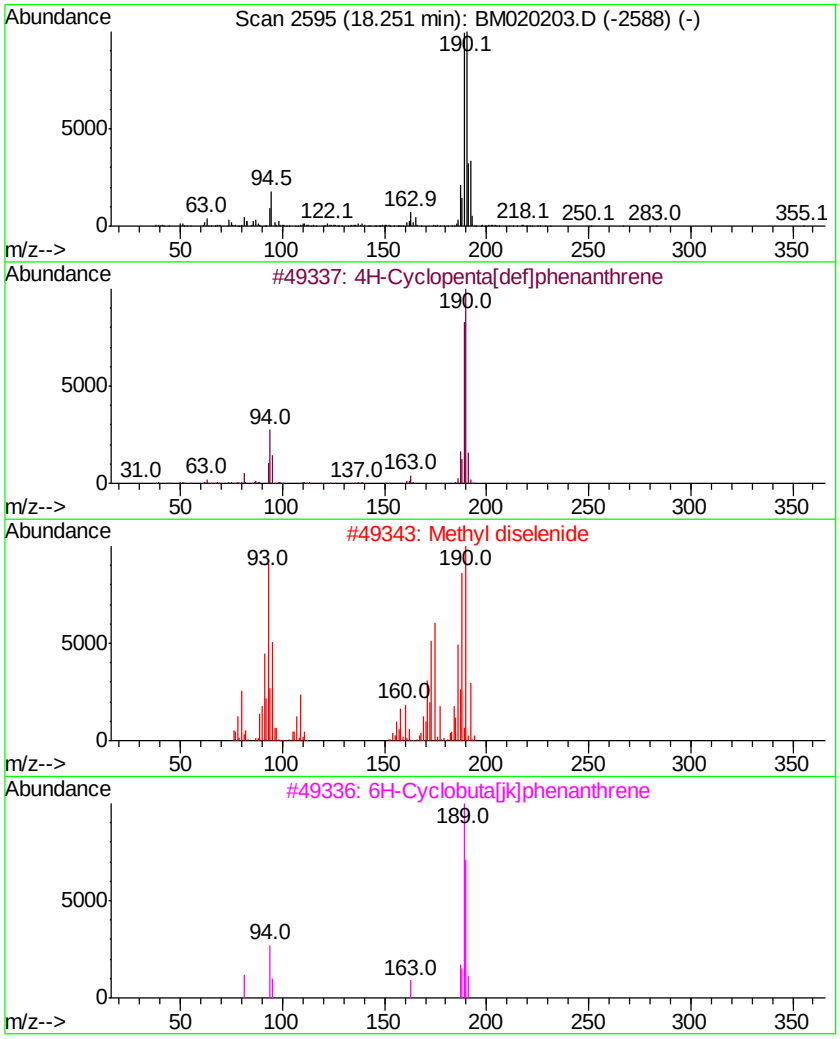
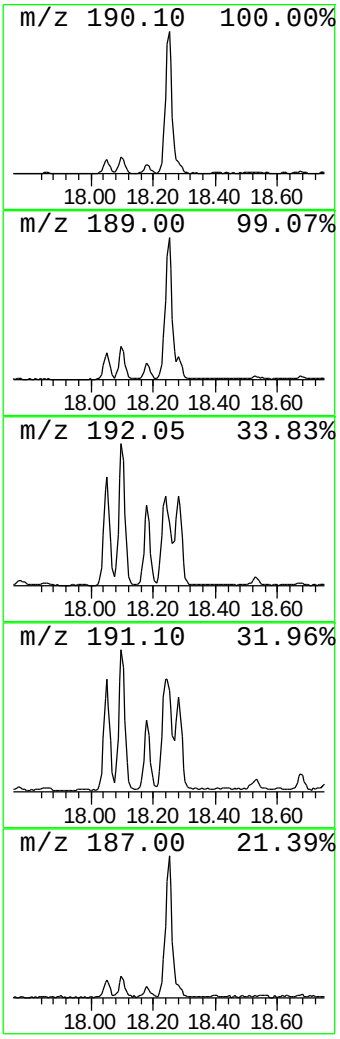
Peak Number 10 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.25	16.64 ng	1558850	Phenanthrene-d10	17.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	93
2	Methyl diselenide	190	C2H6Se2	007101-31-7	55
3	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	50
4	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	45
5	1,4-Naphthalenedione, 2,5-dihydr...	190	C10H6O4	004923-55-1	17





Library Search Compound Report

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Sample : K2641-07 2X
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ALS Vial : 13 Sample Multiplier: 1

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ClientSampleId : CL-02-050719-D

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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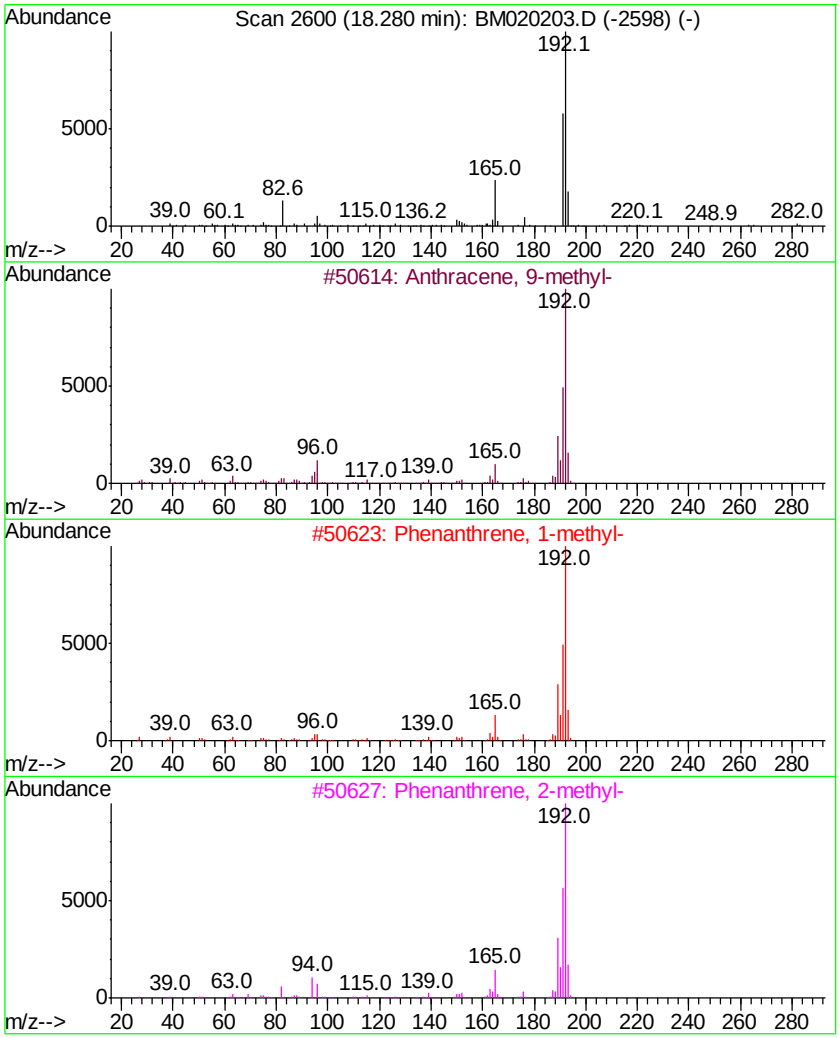
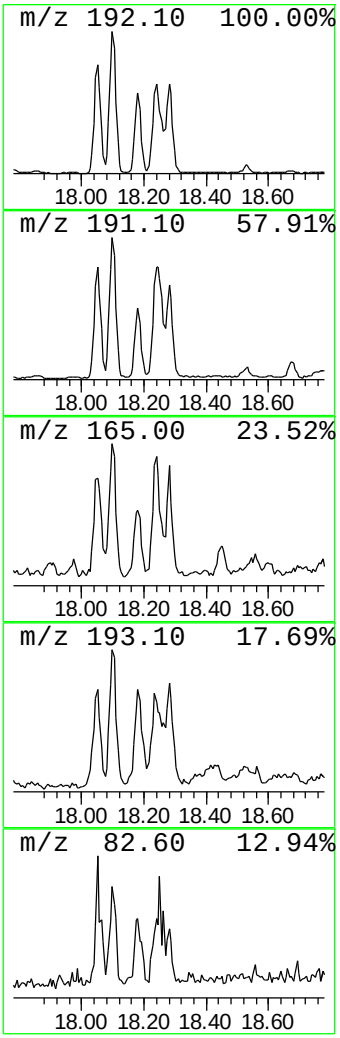
Peak Number 11 Anthracene, 9-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.28	4.71 ng	440804	Phenanthrene-d10	17.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 9-methyl-	192	C15H12	000779-02-2	86
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	83
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	83
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	83
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	83





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Sample : K2641-07 2X
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ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : CL-02-050719-D

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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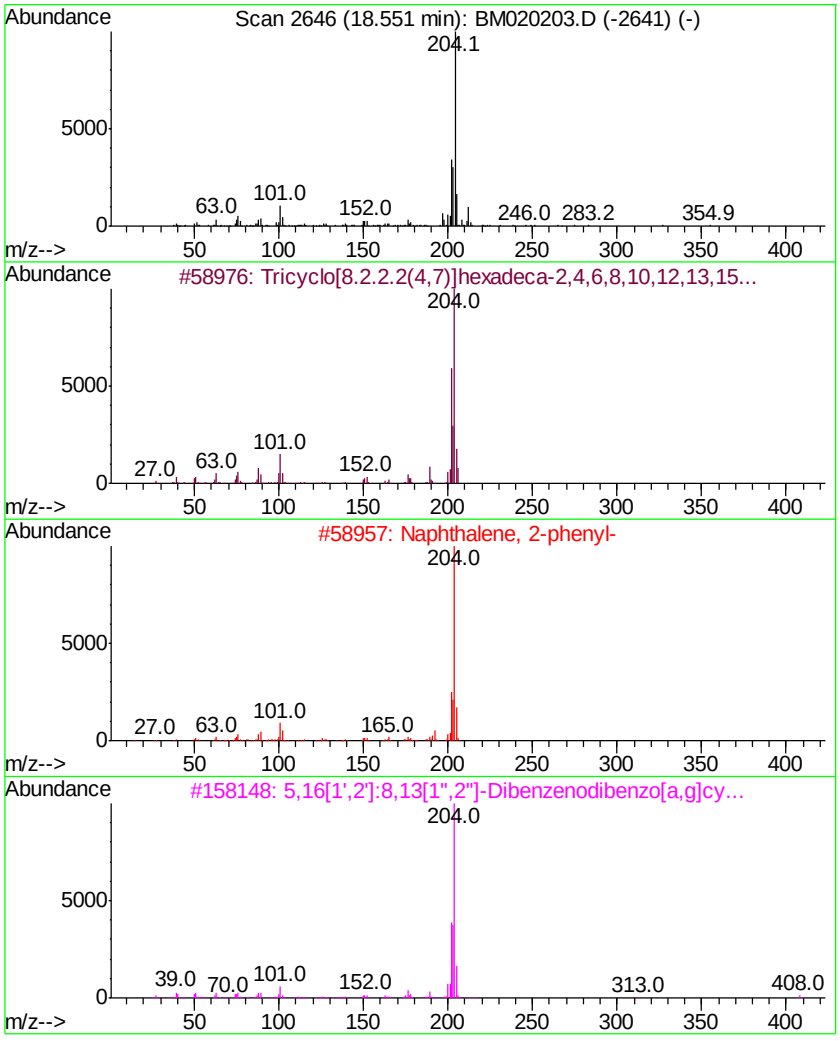
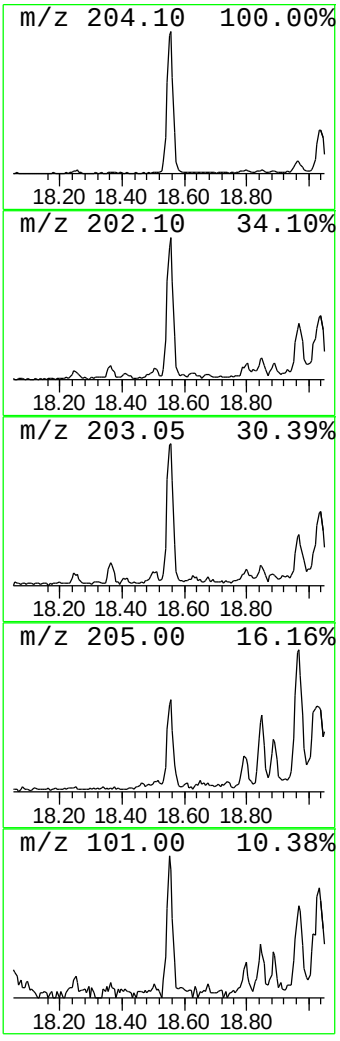
Peak Number 12 Tricyclo[8.2.2.2(4,7)]hexad... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.55	4.37 ng	409725	Phenanthrene-d10	17.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	89
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	70
3	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	50
4	Benzene, 1,1'-(1-buten-3-yne-1,4...	204	C16H12	013141-45-2	49
5	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	49





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Sample : K2641-07 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

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ClientSampleId : CL-02-050719-D

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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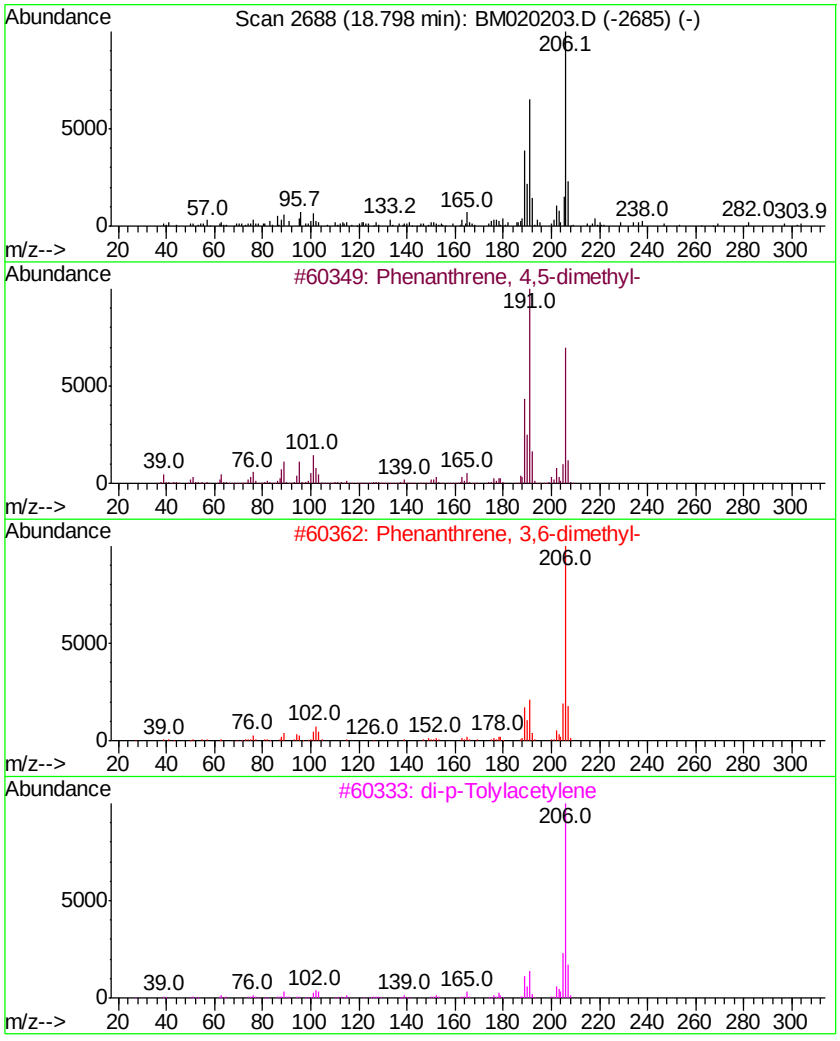
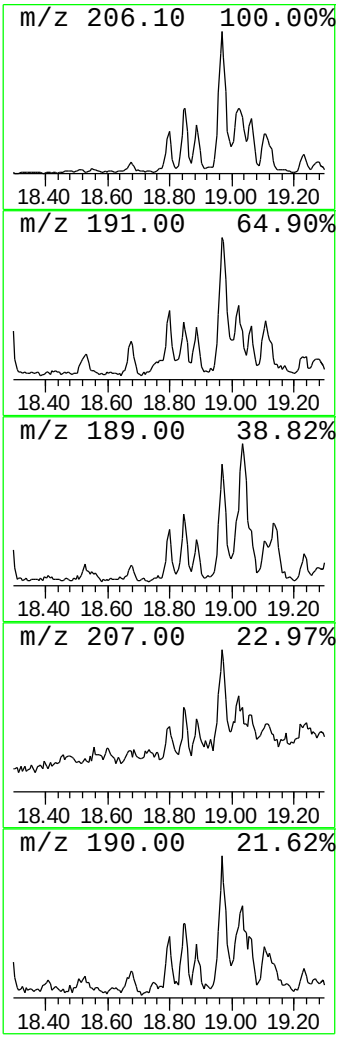
Peak Number 13 Phenanthrene, 4,5-dimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.80	2.20 ng	206179	Phenanthrene-d10	17.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	87
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	87
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	80
4	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	76
5	Phenanthrene, 2-ethyl-	206	C16H14	003674-74-6	70





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Operator : JU/SJ
Sample : K2641-07 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : CL-02-050719-D

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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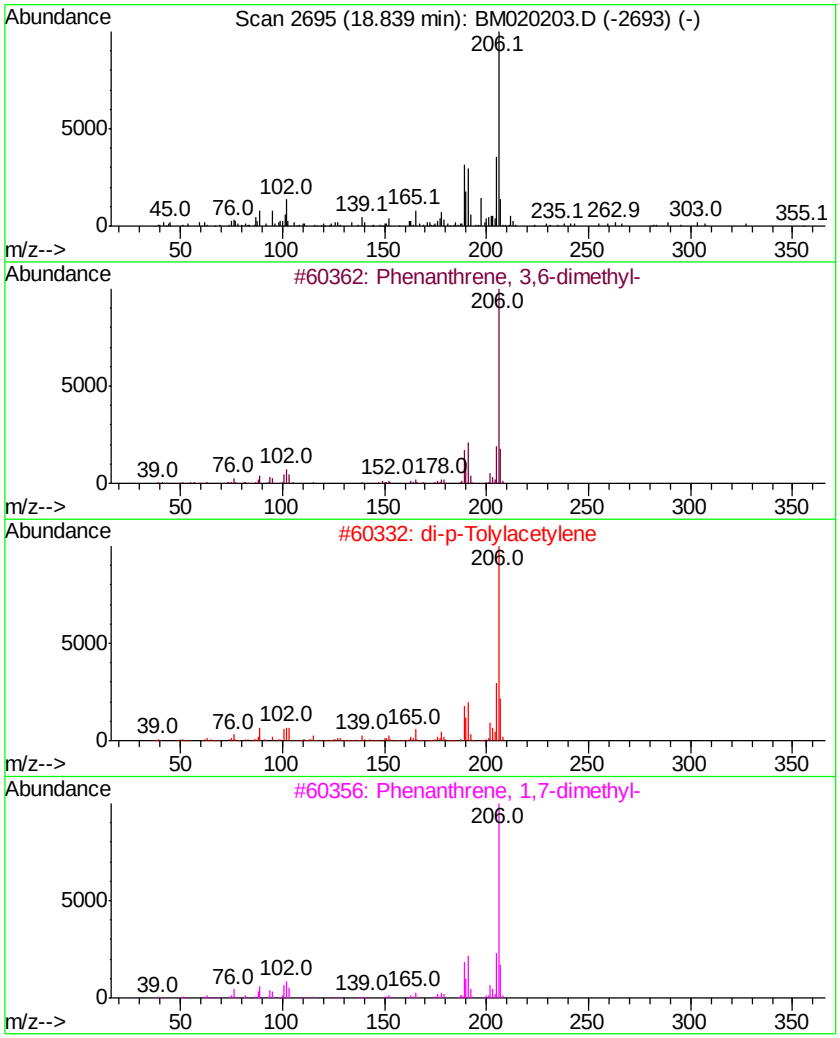
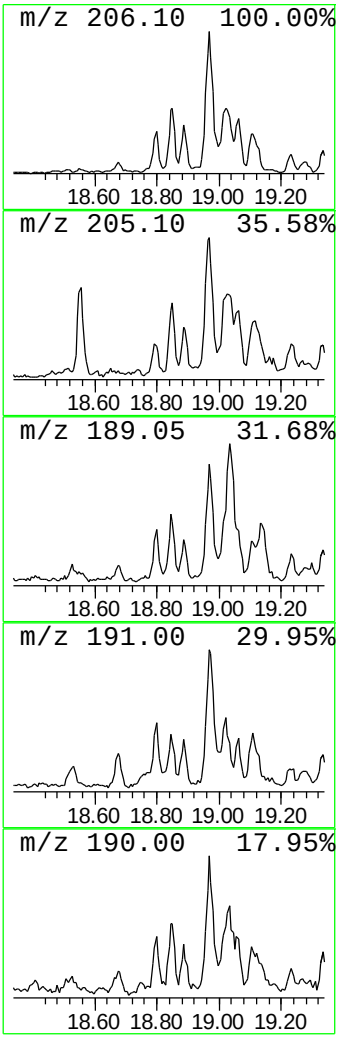
Peak Number 14 Phenanthrene, 3,6-dimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.84	2.64 ng	247318	Phenanthrene-d10	17.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	90
3	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	90
4	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	86
5	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	72





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Operator : JU/SJ
Sample : K2641-07 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : CL-02-050719-D

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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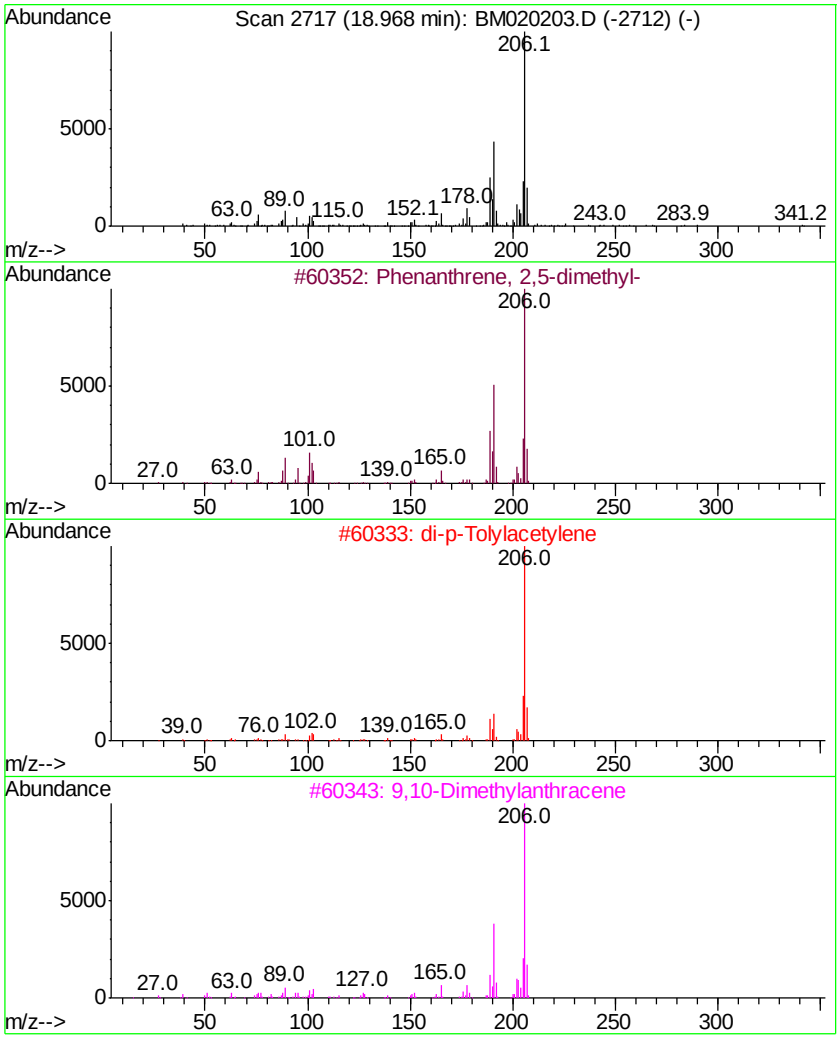
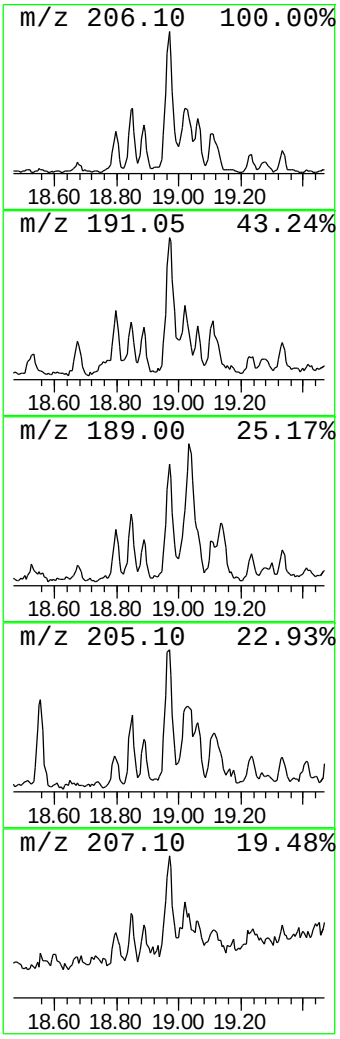
Peak Number 15 Phenanthrene, 2,5-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.97	7.28 ng	681886	Phenanthrene-d10	17.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	96
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	94
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	93
4	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	90
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	90





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Sample : K2641-07 2X
Misc :
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Instrument : BNA_M
ClientSampleId : CL-02-050719-D

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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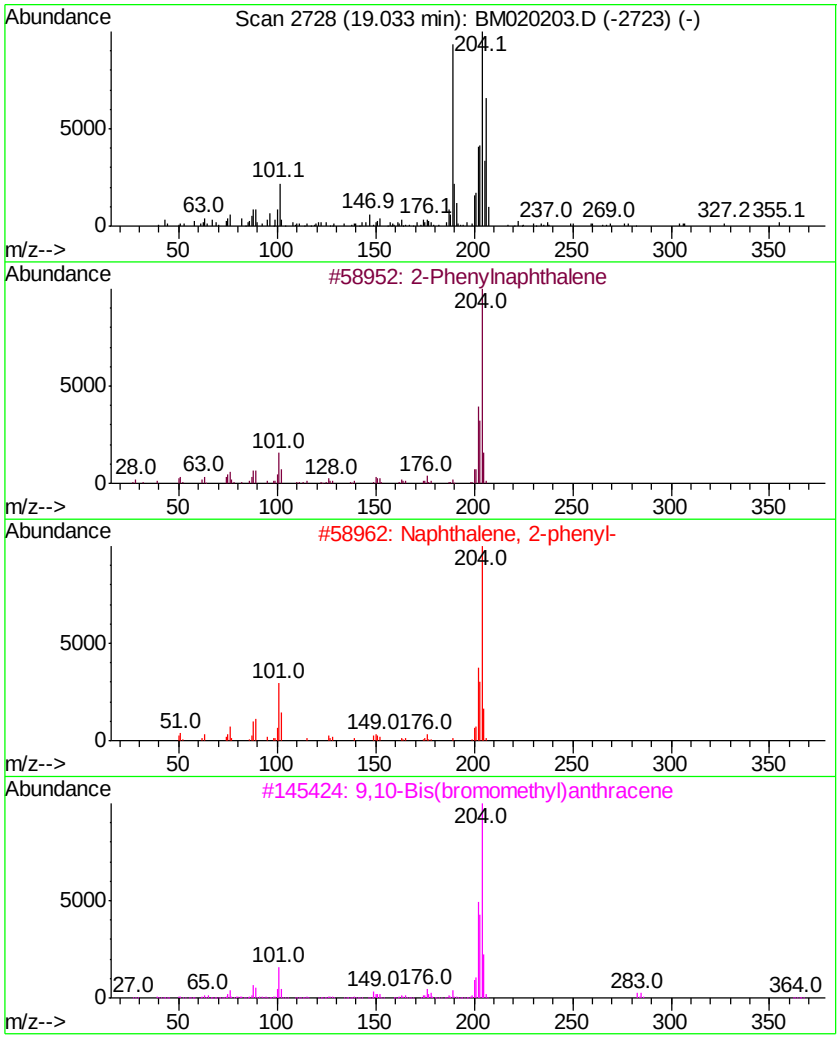
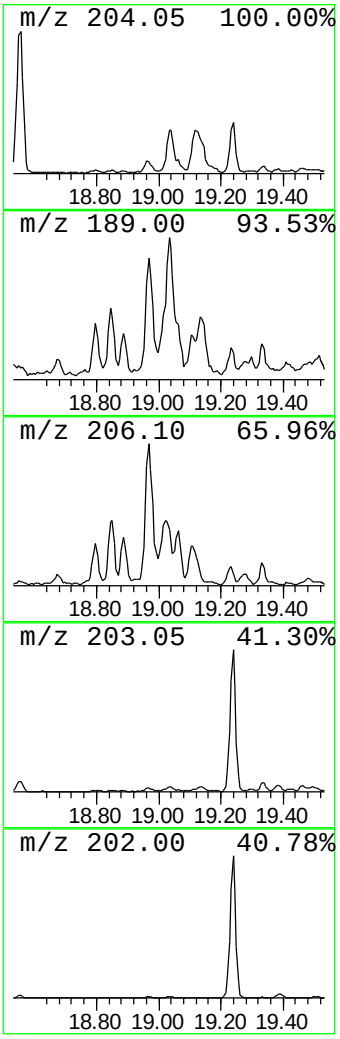
Peak Number 16 unknown19.03 Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.03	2.58 ng	241454	Phenanthrene-d10	17.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Phenylnaphthalene	204	C16H12	035465-71-5	46
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	41
3	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	38
4	1,2,3,3a-Tetrahydro-10-phenylben...	260	C18H16N2	028749-06-6	38
5	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	38





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ClientSampleId : CL-02-050719-D

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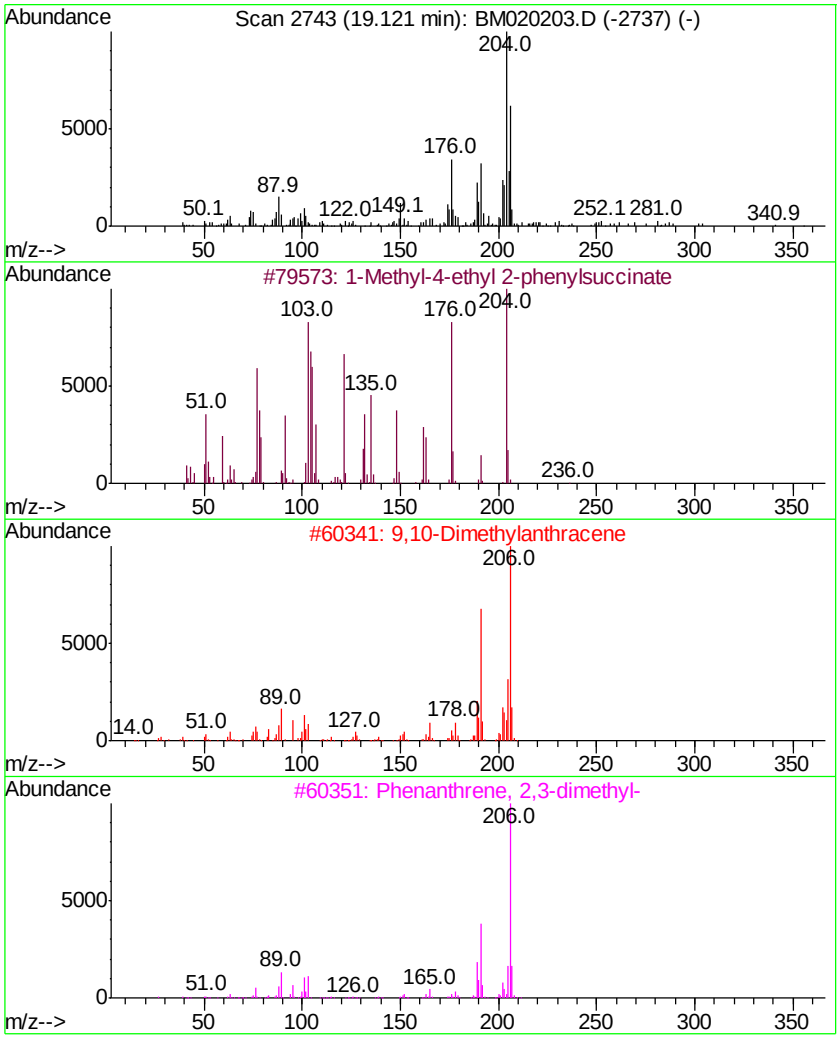
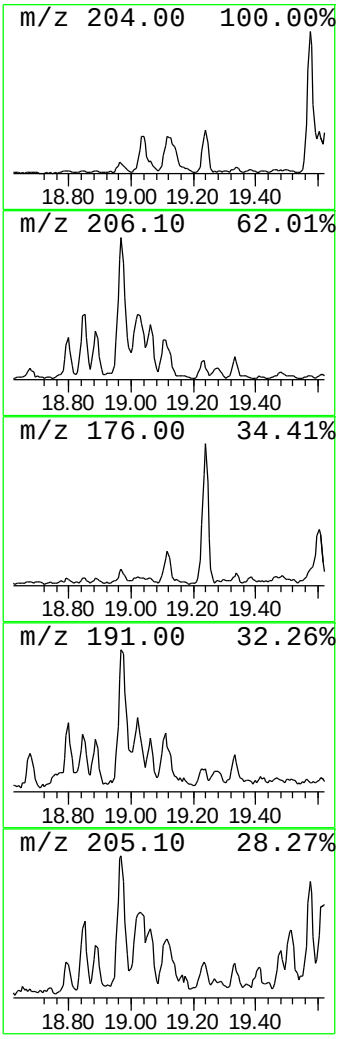
Peak Number 17 1-Methyl-4-ethyl 2-phenylsu... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.12	5.20 ng	486856	Phenanthrene-d10	17.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Methyl-4-ethyl 2-phenylsuccinate	236	C13H16O4	132545-36-9	86
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	46
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	45
4	[14]Annulene, 1,6:8,13-bis(metha...	206	C16H14	085385-68-8	45
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	45





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Sample : K2641-07 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : CL-02-050719-D

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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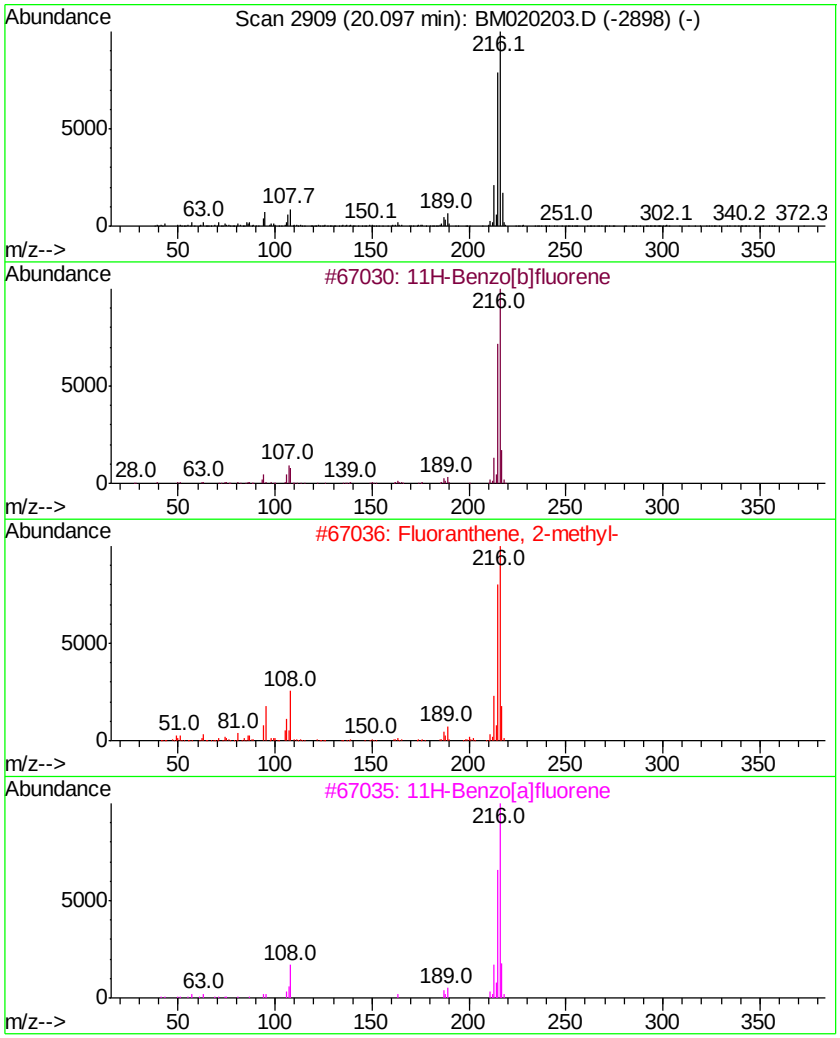
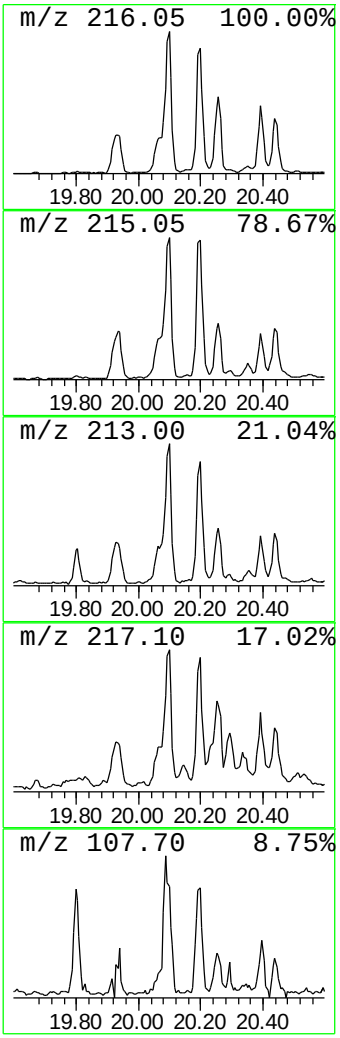
Peak Number 18 11H-Benzo[b]fluorene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.10	5.74 ng	1777740	Chrysene-d12	21.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	94
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	80





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050819\
Data File : BM020203.D
Acq On : 08 May 2019 20:10
Operator : JU/SJ
Sample : K2641-07 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : CL-02-050719-D

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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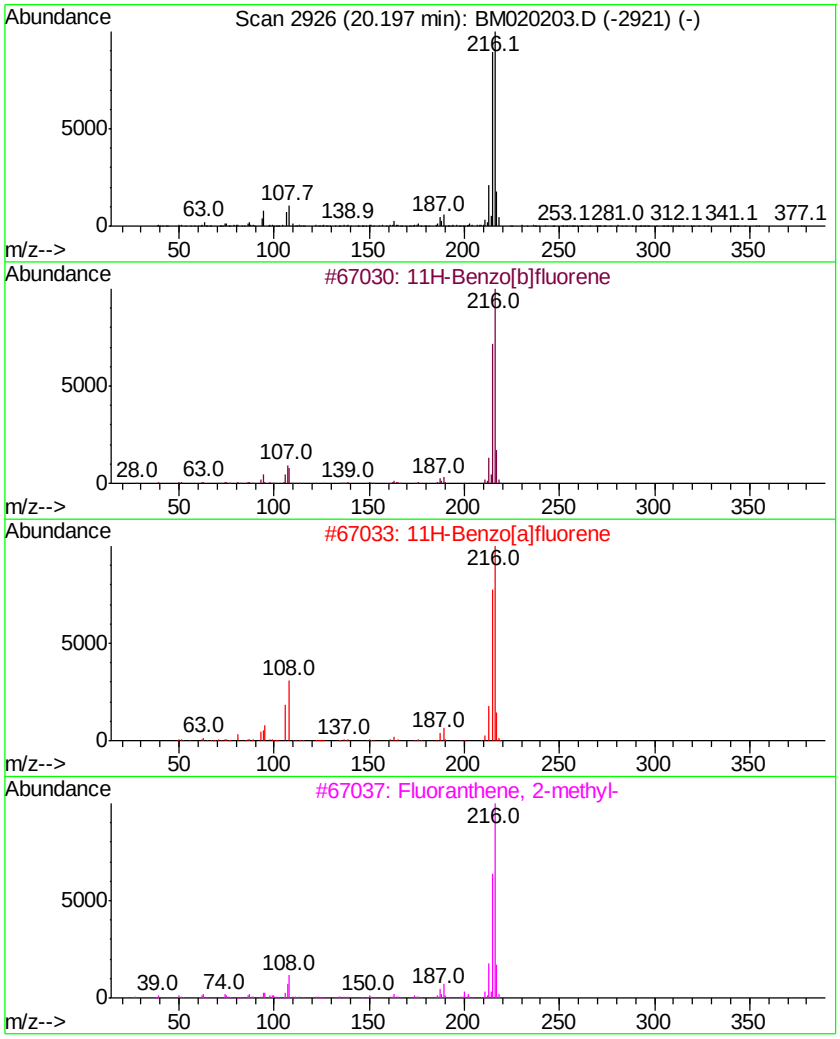
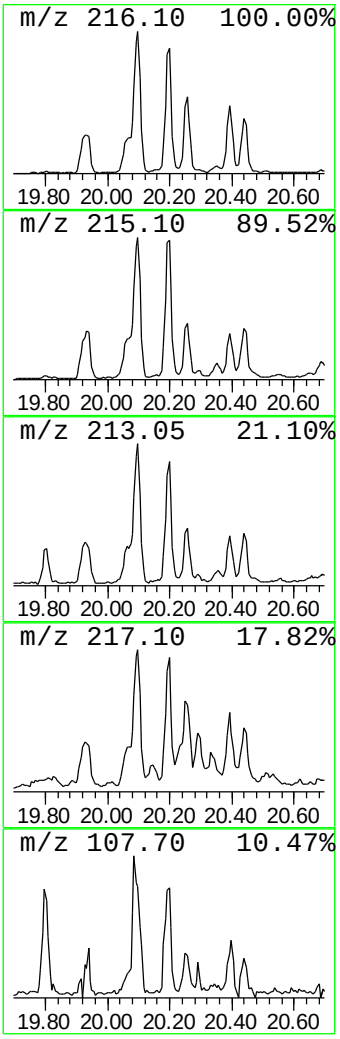
Peak Number 19 11H-Benzo[a]fluorene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.20	3.05 ng	944549	Chrysene-d12	21.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	74
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	72
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	72





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050819\
Data File : BM020203.D
Acq On : 08 May 2019 20:10
Operator : JU/SJ
Sample : K2641-07 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : CL-02-050719-D

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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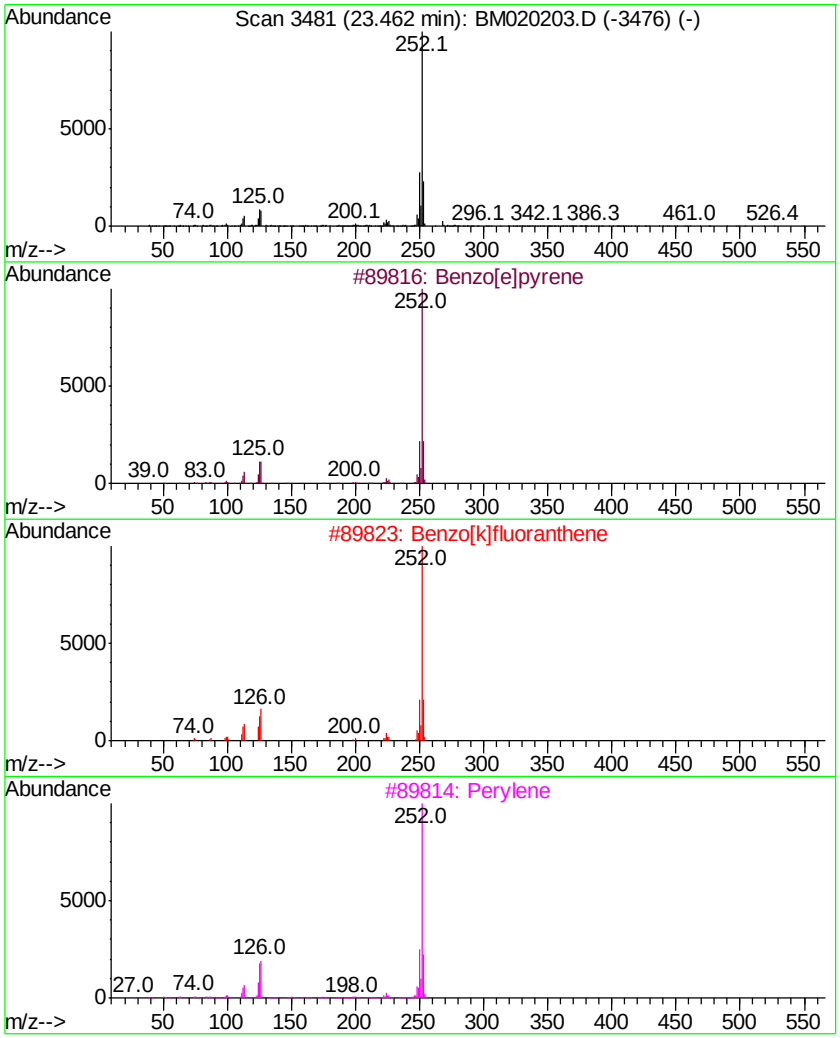
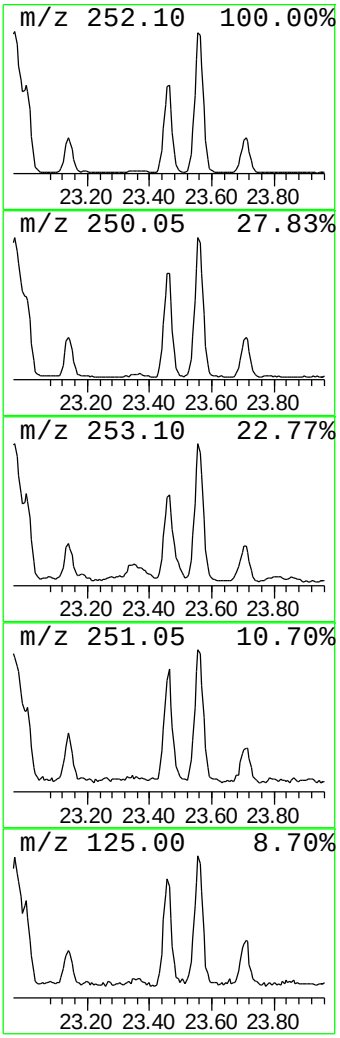
Peak Number 20 Benzo[e]pyrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.46	19.15 ng	1537970	Perylene-d12	23.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	96
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	95
3	Perylene	252	C20H12	000198-55-0	94
4	Benzo[a]pyrene	252	C20H12	000050-32-8	91
5	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	91





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM050819\
Data File : BM020203.D
Acq On : 08 May 2019 20:10
Operator : JU/SJ
Sample : K2641-07 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : CL-02-050719-D

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
unknown7.32	7.32	44.4	ng	2084410	1	7.79	939987	20.0
Naphthalene, 2,3-...	13.75	3.0	ng	235277	3	14.43	1571690	20.0
Naphthalene, 1,2,...	16.14	2.2	ng	202127	4	17.18	1873660	20.0
9H-Fluorene, 1-me...	16.48	3.1	ng	293337	4	17.18	1873660	20.0
Dibenzothiophene	17.00	3.4	ng	318565	4	17.18	1873660	20.0
Phenanthrene, 1-m...	18.05	8.0	ng	747596	4	17.18	1873660	20.0
Phenanthrene, 2-m...	18.10	8.6	ng	808423	4	17.18	1873660	20.0
Anthracene, 2-met...	18.18	4.3	ng	401670	4	17.18	1873660	20.0
4H-Cyclopenta[def...	18.25	16.6	ng	1558850	4	17.18	1873660	20.0
Anthracene, 9-met...	18.28	4.7	ng	440804	4	17.18	1873660	20.0
Tricyclo[8.2.2.2(...	18.55	4.4	ng	409725	4	17.18	1873660	20.0
Phenanthrene, 4,5...	18.80	2.2	ng	206179	4	17.18	1873660	20.0
Phenanthrene, 3,6...	18.84	2.6	ng	247318	4	17.18	1873660	20.0
Phenanthrene, 2,5...	18.97	7.3	ng	681886	4	17.18	1873660	20.0
unknown19.03	19.03	2.6	ng	241454	4	17.18	1873660	20.0
1-Methyl-4-ethyl ...	19.12	5.2	ng	486856	4	17.18	1873660	20.0
11H-Benzo[b]fluorene	20.10	5.7	ng	1777740	5	21.36	6196810	20.0
11H-Benzo[a]fluorene	20.20	3.0	ng	944549	5	21.36	6196810	20.0
Benzo[e]pyrene	23.46	19.1	ng	1537970	6	23.66	1606070	20.0