LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050819\
Data File : BM020208.D
Acq On : 08 May 2019 23:13
Operator : JU/SJ
Sample : K2643-03 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : OR-03-050719-B

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	398	404	416	rVB	635045	962089	24.98%	2.412%
2	6.951	667	674	683	rBV	622383	1018699	26.45%	2.553%
3	7.316	730	736	746	rBV	682054	1085713	28.19%	2.721%
4	7.787	809	816	825	rBV	720272	1143072	29.68%	2.865%
5	8.104	864	870	878	rBV	512415	823634	21.39%	2.065%
6	8.951	1006	1014	1025	rBV	369397	651813	16.93%	1.634%
7	10.581	1284	1291	1297	rBV	846239	1403541	36.44%	3.518%
8	10.628	1297	1299	1304	rVB	32569	46843	1.22%	0.117%
9	12.245	1568	1574	1580	rVB	45037	70235	1.82%	0.176%
10	12.463	1606	1611	1619	rVB2	55768	91057	2.36%	0.228%
11	13.045	1703	1710	1721	rBV	852300	1276757	33.15%	3.200%
12	13.592	1798	1803	1804	rBV3	28950	42111	1.09%	0.106%
13	13.745	1824	1829	1834	rBV3	61992	112940	2.93%	0.283%
14	13.804	1834	1839	1842	rVV	36635	48896	1.27%	0.123%
15	13.886	1848	1853	1858	rBV	117694	167252	4.34%	0.419%
16	13.986	1865	1870	1873	rBV3	31939	44390	1.15%	0.111%
17	14.157	1893	1899	1909	rVB	162304	269220	6.99%	0.675%
18	14.433	1932	1946	1952	rBV2	1072390	1753430	45.53%	4.395%
19	14.492	1952	1956	1965	rVB	127916	196609	5.11%	0.493%
20	14.639	1975	1981	1990	rBV7	19502	47198	1.23%	0.118%
21	14.827	2008	2013	2021	rVB2	89733	145767	3.79%	0.365%
22	14.898	2021	2025	2030	rVB2	29105	41516	1.08%	0.104%
23	15.045	2041	2050	2054	rBV5	34577	77724	2.02%	0.195%
24	15.210	2071	2078	2082	rBV7	25291	58394	1.52%	0.146%
25	15.304	2090	2094	2098	rVV	33811	47307	1.23%	0.119%
26	15.480	2118	2124	2134	rVB2	164369	288662	7.50%	0.724%
27	15.604	2137	2145	2148	rBV5	26375	52057	1.35%	0.130%
28	15.774	2169	2174	2179	rVB	41167	70137	1.82%	0.176%
29	15.921	2188	2199	2207	rBV	693358	1084127	28.15%	2.717%
30	16.151	2230	2238	2244	rBV9	40493	110515	2.87%	0.277%
31	16.480	2286	2294	2299	rBV3	59413	135002	3.51%	0.338%
32	16.527	2299	2302	2307	rVV2	30557	46264	1.20%	0.116%
33	16.633	2315	2320	2324	rVB2	38179	50983	1.32%	0.128%
34	16.751	2336	2340	2348	rBV7	32421	56157	1.46%	0.141%

LSC Area Percent Report

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Operator : JU/SJ
Sample : K2643-03 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : OR-03-050719-B

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	16.833	2351	2354	2360	rVB5	38441	59892	1.56%	0.150%
36	16.915	2363	2368	2372	rVB3	32418	61916	1.61%	0.155%
37	16.998	2378	2382	2389	rVB	100304	156925	4.07%	0.393%
38	17.180	2406	2413	2417	rBV	1357284	2030168	52.72%	5.089%
39	17.221	2417	2420	2427	rVV	1085242	1437440	37.32%	3.603%
40	17.310	2430	2435	2441	rVV	341512	513779	13.34%	1.288%
41	17.374	2441	2446	2451	rVB4	32575	70749	1.84%	0.177%
42	17.586	2478	2482	2486	rBV2	44030	69016	1.79%	0.173%
43	17.698	2497	2501	2504	rBV	35950	49334	1.28%	0.124%
44	17.757	2507	2511	2517	rVB2	57637	90661	2.35%	0.227%
45	17.904	2531	2536	2540	rBV	38351	60404	1.57%	0.151%
46	18.057	2557	2562	2566	rBV	240523	373011	9.69%	0.935%
47	18.104	2566	2570	2576	rVB	262764	376853	9.79%	0.945%
48	18.180	2579	2583	2589	rBV	134035	196577	5.10%	0.493%
49	18.251	2589	2595	2599	rVV2	381024	700315	18.18%	1.755%
50	18.286	2599	2601	2607	rVB	143195	167601	4.35%	0.420%
51	18.551	2642	2646	2651	rBV	116677	173958	4.52%	0.436%
52	18.604	2652	2655	2665	rVB5	79447	128669	3.34%	0.323%
53	18.851	2694	2697	2700	rBV	66965	78953	2.05%	0.198%
54	18.886	2701	2703	2707	rVB	62634	76898	2.00%	0.193%
55	18.974	2713	2718	2722	rBV	193144	367478	9.54%	0.921%
56	19.115	2739	2742	2754	rVB5	98572	247614	6.43%	0.621%
57	19.239	2758	2763	2768	rVV	1932568	2571729	66.78%	6.446%
58	19.339	2777	2780	2784	rBV5	60816	77837	2.02%	0.195%
59	19.392	2785	2789	2792	rVV	98343	126062	3.27%	0.316%
60	19.568	2815	2819	2821	rBV2	287692	411154	10.68%	1.031%
61	19.603	2821	2825	2833	rVV	1844031	2559586	66.46%	6.416%
62	19.674	2834	2837	2841	rVB	129119	175324	4.55%	0.439%
63	19.803	2854	2859	2863	rVB	1237426	1460186	37.92%	3.660%
64	19.933	2876	2881	2886	rVB3	129644	290478	7.54%	0.728%
65	20.098	2906	2909	2914	rVB2	337469	460282	11.95%	1.154%
66	20.198	2923	2926	2930	rVB	256037	284191	7.38%	0.712%
67	20.398	2957	2960	2963	rBV	175366	200402	5.20%	0.502%
68	21.362	3118	3124	3128	rBV2	2085897	3851162	100.00%	9.653%
69	21.397	3128	3130	3139	rVB	840640	1138452	29.56%	2.854%
70	22.962	3393	3396	3408	rVB	713636	2137252	55.50%	5.357%
71	23.556	3494	3497	3504	rVB	712163	1257715	32.66%	3.153%

LSC Area Percent Report

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Misc :
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Instrument : BNA_M
ClientSampleId : OR-03-050719-B

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	23.662	3510	3515	3520	rBV	1092528	1884847	48.94%	4.725%

Sum of corrected areas: 39894981

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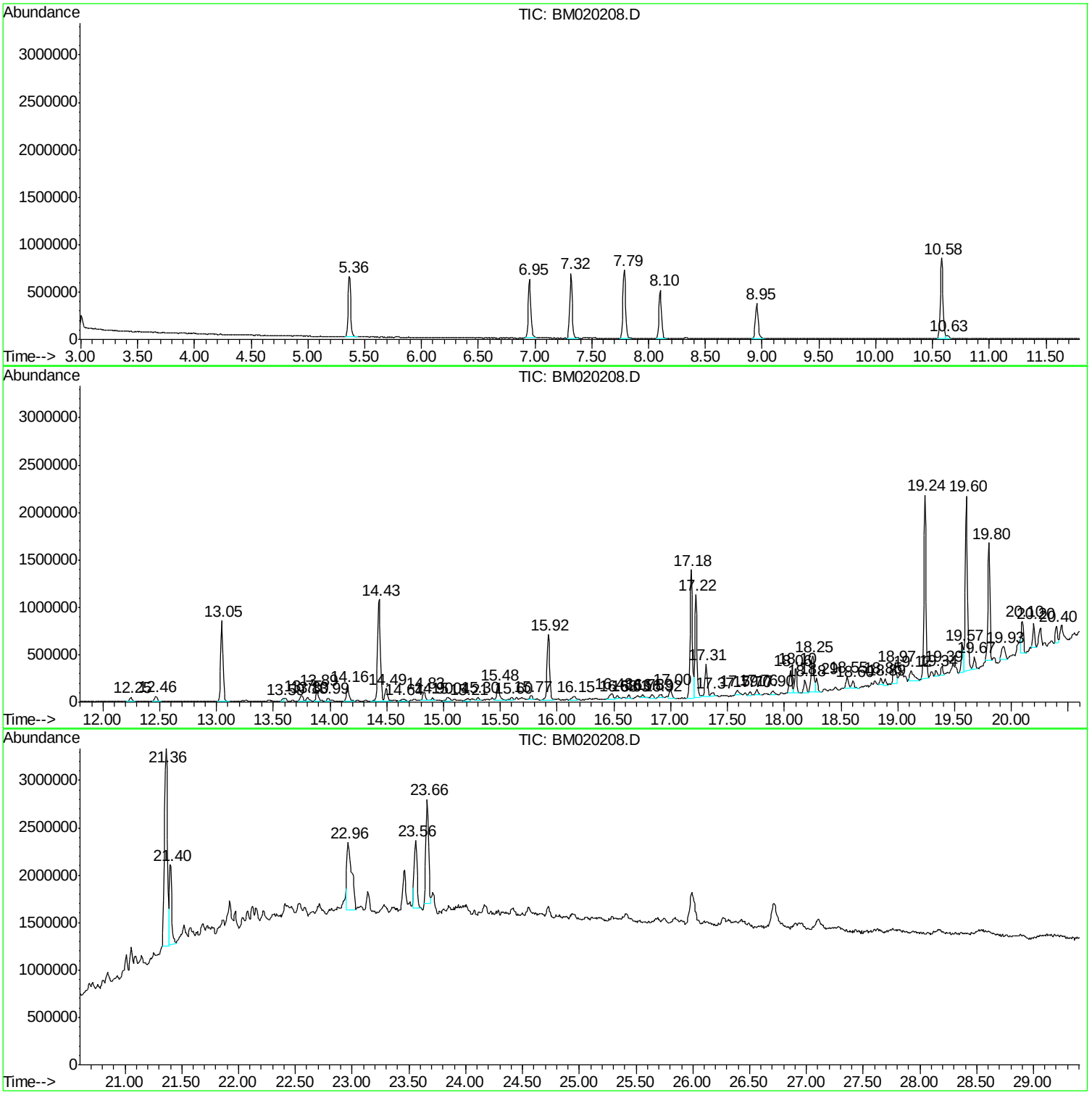
Instrument :
BNA_M
ClientSampleId :
OR-03-050719-B

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\
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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

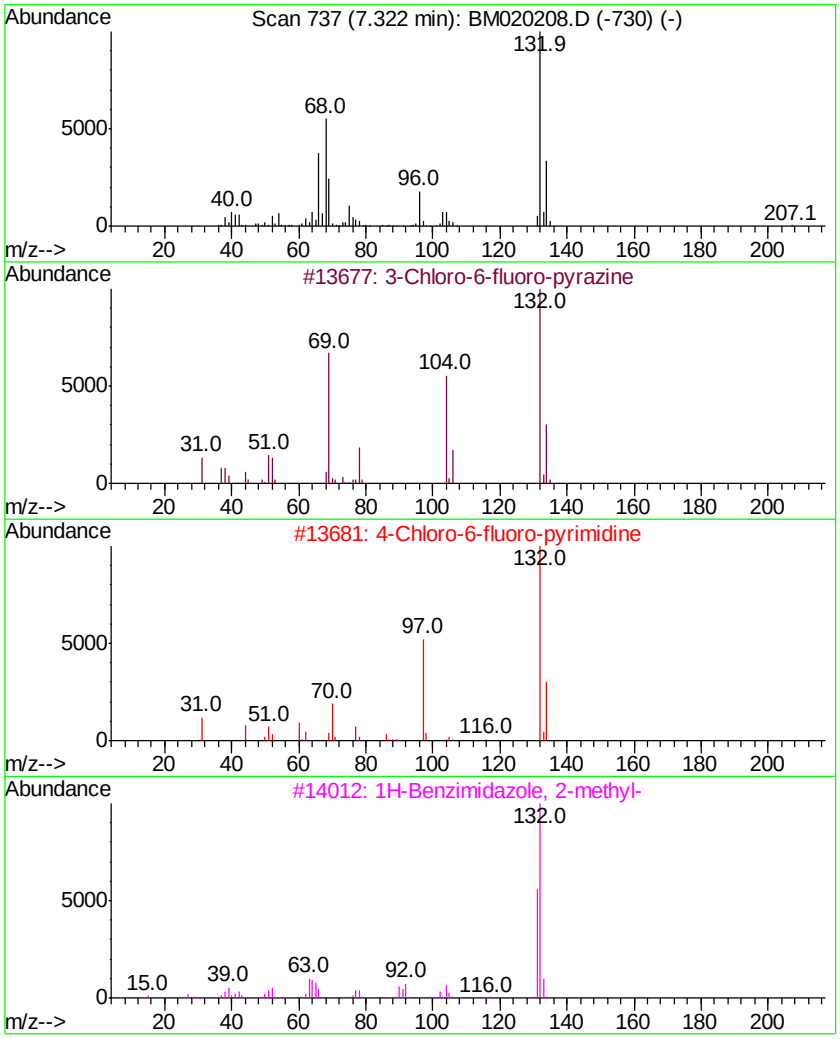
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

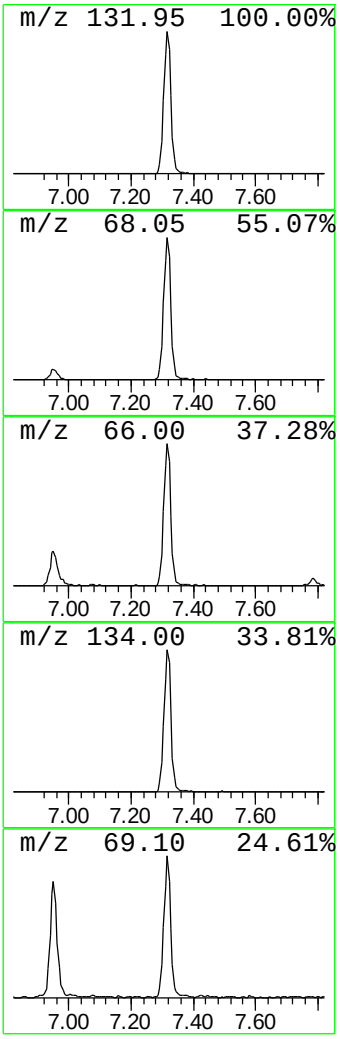
****

Peak Number 1 unknown7.32 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.32	19.00 ng	1085710	1,4-Dichlorobenzene-d4	7.79

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	30
2	4-Chloro-6-fluoro-pyrimidine	132	C4H2ClFN2	051422-01-6	27
3	1H-Benzimidazole, 2-methyl-	132	C8H8N2	000615-15-6	22
4	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	16
5	Benzene, 1,3,5-trifluoro-	132	C6H3F3	000372-38-3	10





Library Search Compound Report

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Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : OR-03-050719-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
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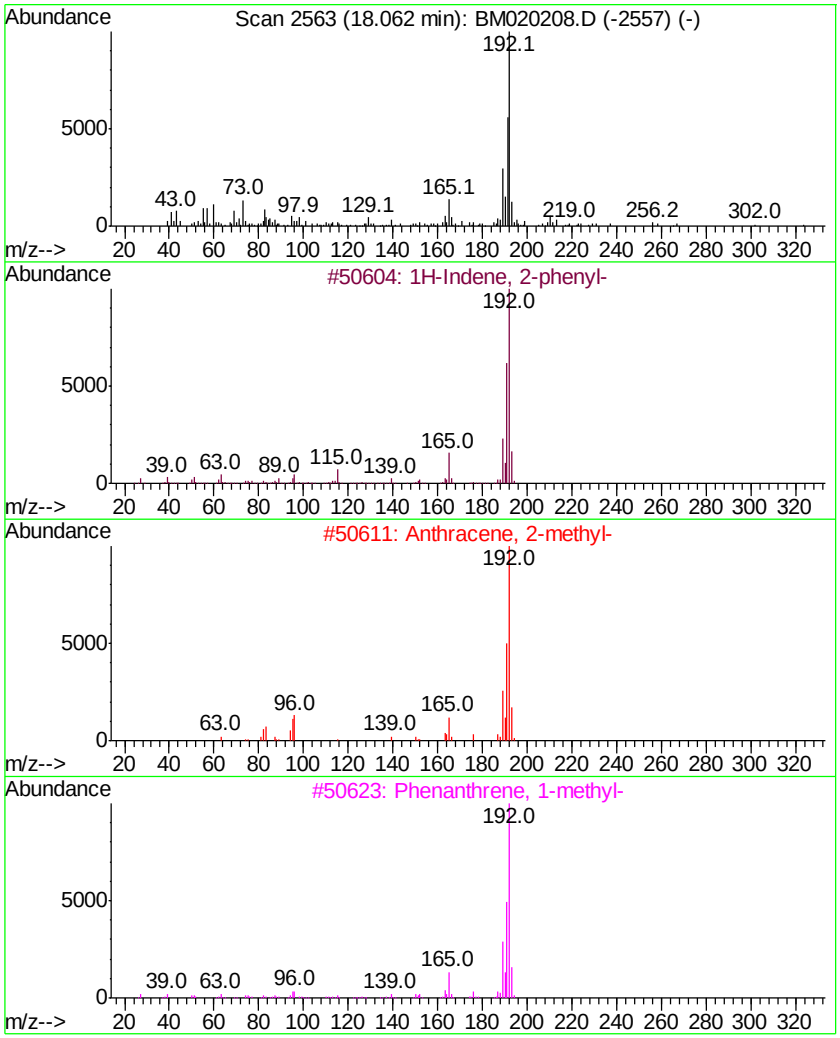
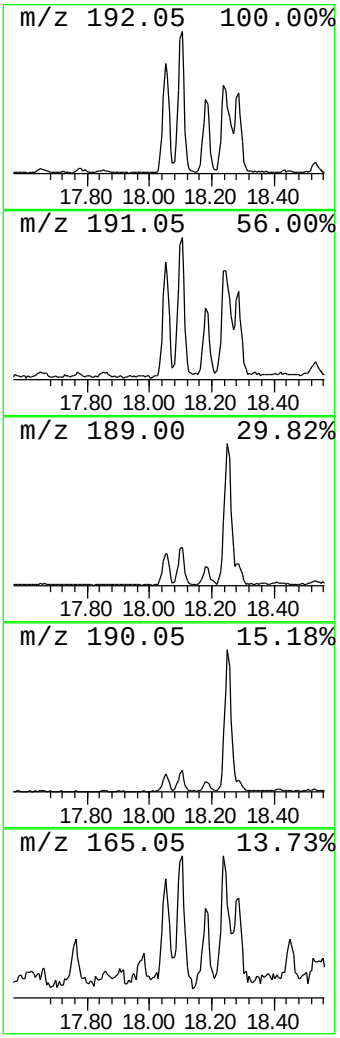
****

Peak Number 4 1H-Indene, 2-phenyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.06	3.67 ng	373011	Phenanthrene-d10	17.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	90
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	89
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	86
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	81
5	Naphtho[2,3-b]norbornadiene	192	C15H12	107426-38-0	81





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050819\
Data File : BM020208.D
Acq On : 08 May 2019 23:13
Operator : JU/SJ
Sample : K2643-03 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : OR-03-050719-B

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

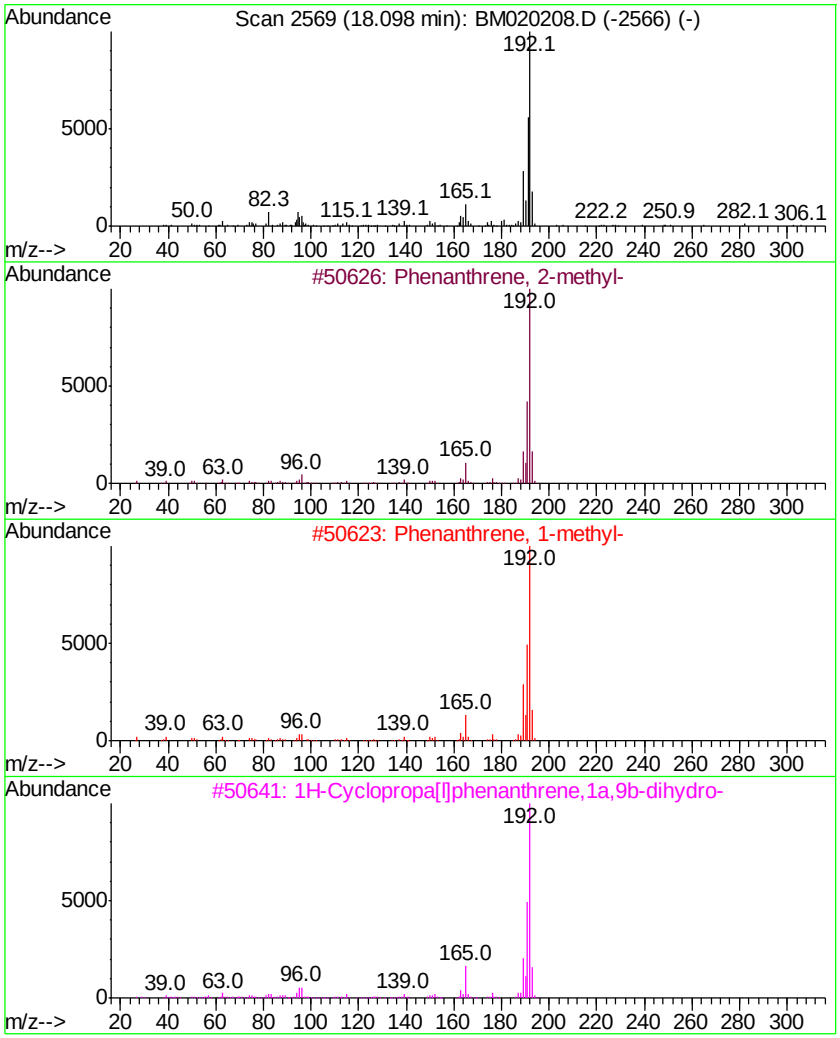
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

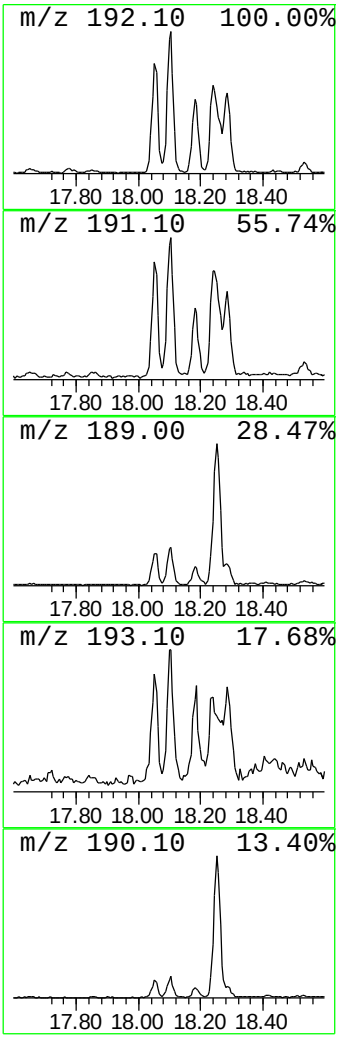
****

Peak Number 5 Phenanthrene, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.10	3.71 ng	376853	Phenanthrene-d10	17.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

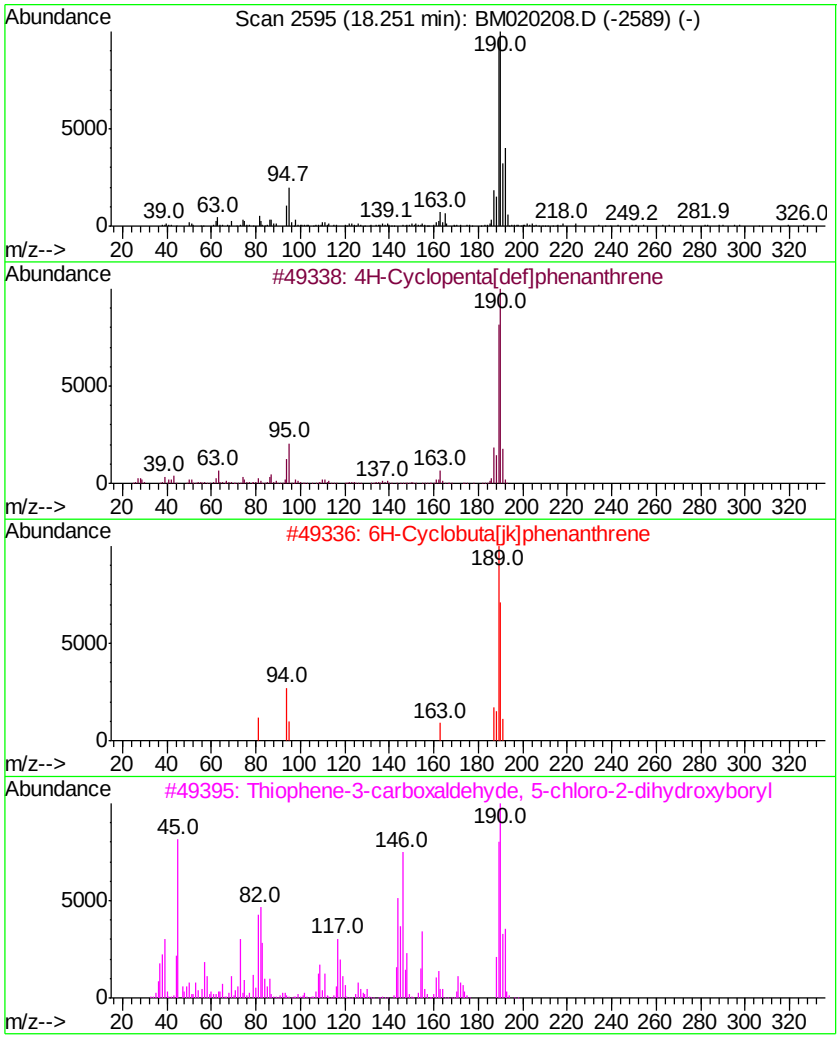
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

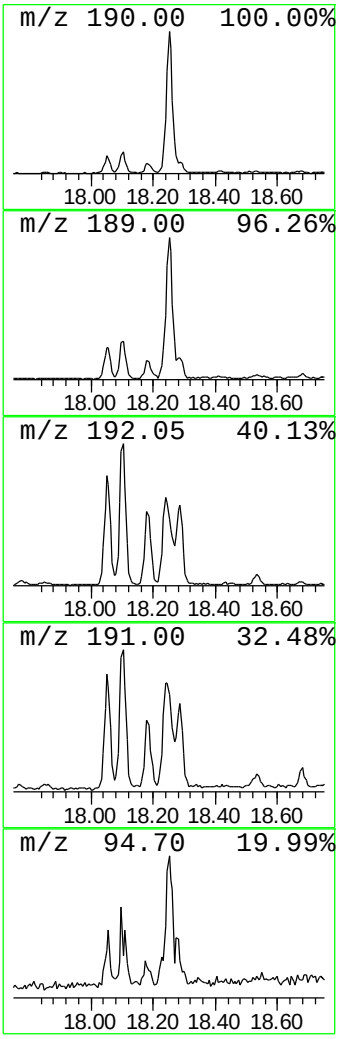
****

Peak Number 6 4H-Cyclopenta[def]phenanthrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.25	6.90 ng	700315	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	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	53
3	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	52
4	Pyrazole-4-carboxaldehyde, 3-(4-...	190	C10H7FN2O	306936-57-2	52
5	1,4-Naphthalenedione, 2,5-dihydr...	190	C10H6O4	004923-55-1	16





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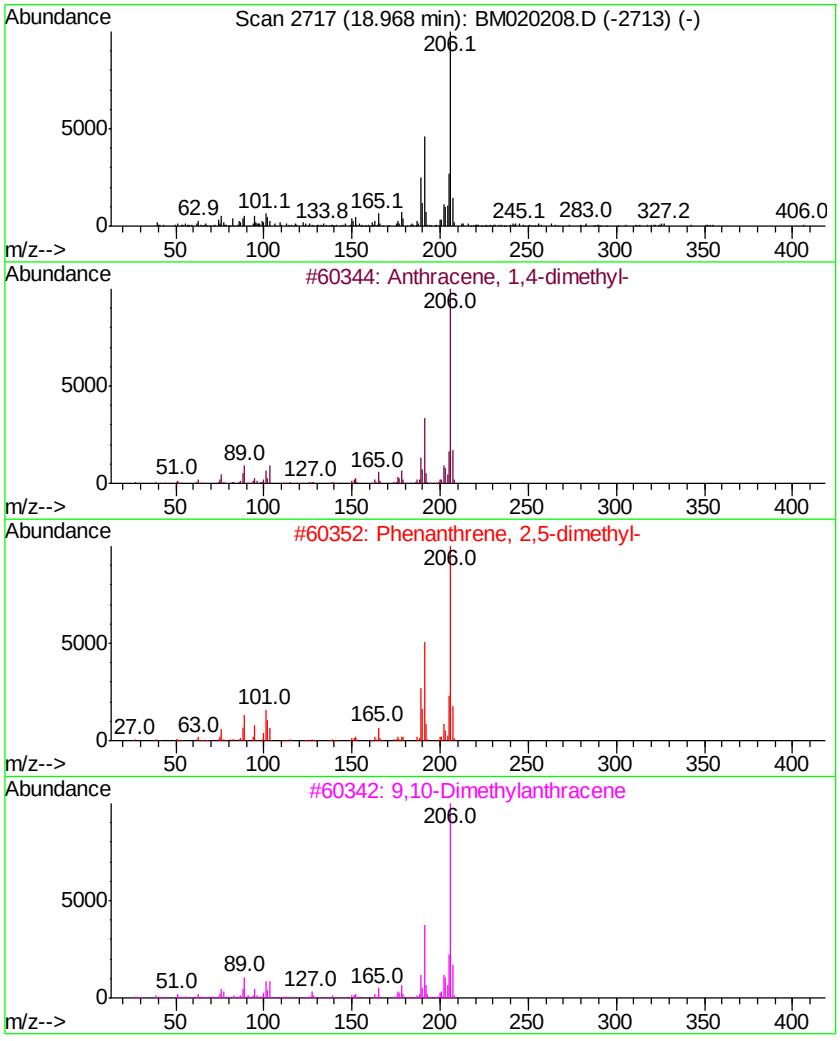
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

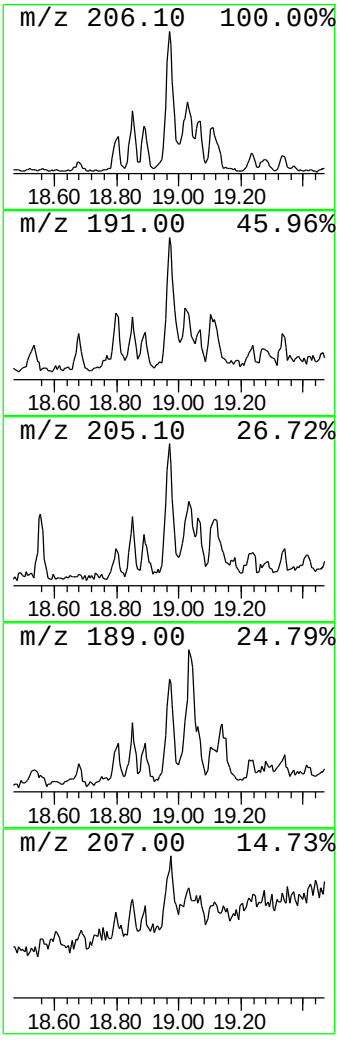
****

Peak Number 7 Anthracene, 1,4-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.97	3.62 ng	367478	Phenanthrene-d10	17.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	94
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	91
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
4	di-p-Tolylacetylene	206	C16H14	002789-88-0	91
5	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	90





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Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : OR-03-050719-B

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

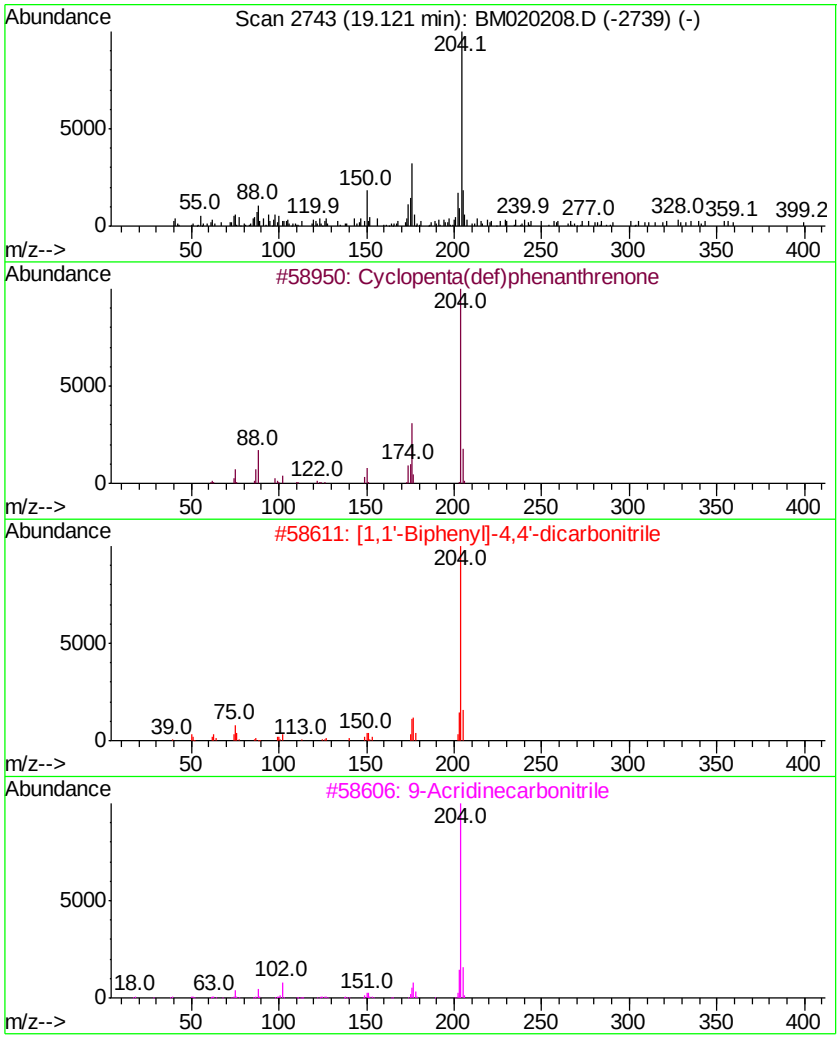
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

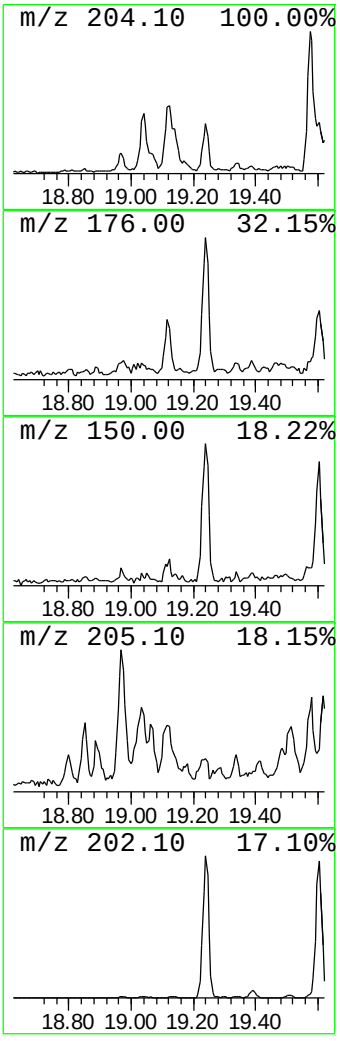
****

Peak Number 8 Cyclopenta(def)phenanthrenone Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.12	2.44 ng	247614	Phenanthrene-d10	17.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	86
2	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	43
3	9-Acridinecarbonitrile	204	C14H8N2	005326-19-2	43
4	Propanedinitrile, 2,2'-(2,5-cycl...	204	C12H4N4	001518-16-7	43
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	43





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Sample : K2643-03 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : OR-03-050719-B

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

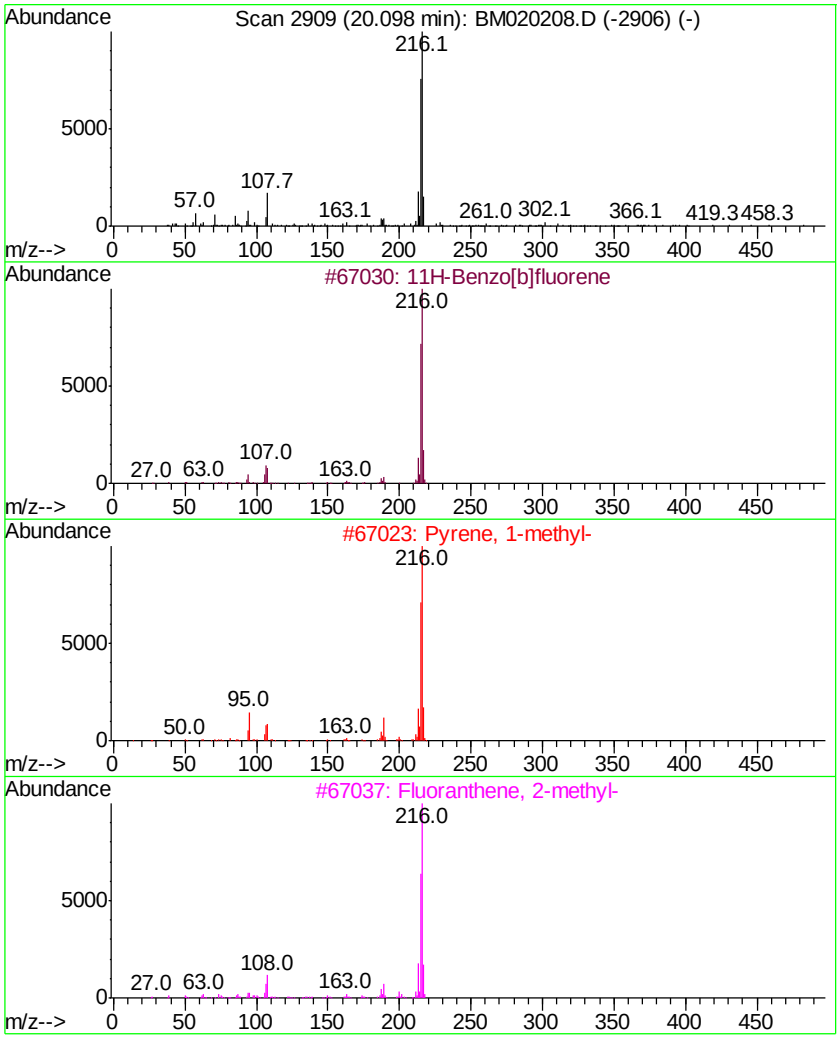
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

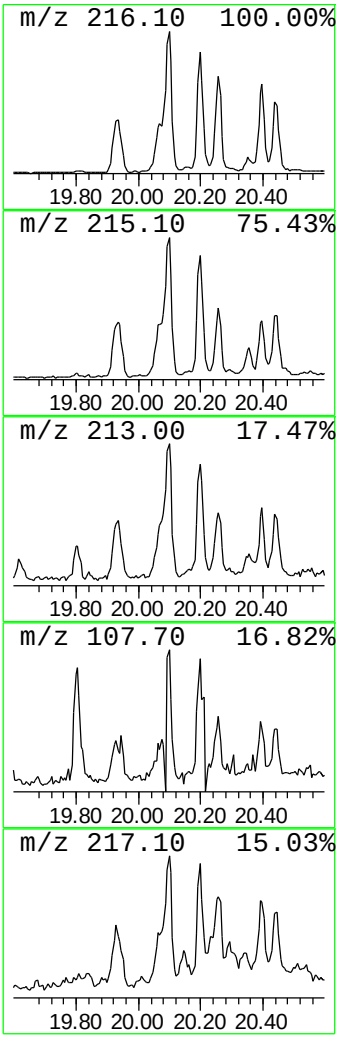
****

Peak Number 9 11H-Benzo[b]fluorene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.10	2.39 ng	460282	Chrysene-d12	21.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	87
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	87
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	80
5	1,3,5-Triazine-2,4,6-triamine, N...	216	C10H12N6	046731-79-7	64





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM050819\
Data File : BM020208.D
Acq On : 08 May 2019 23:13
Operator : JU/SJ
Sample : K2643-03 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : OR-03-050719-B

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	19.0	ng	1085710	1	7.79	1143070	20.0
1H-Indene, 2-phenyl-	18.06	3.7	ng	373011	4	17.18	2030170	20.0
Phenanthrene, 2-m...	18.10	3.7	ng	376853	4	17.18	2030170	20.0
4H-Cyclopenta[def...	18.25	6.9	ng	700315	4	17.18	2030170	20.0
Anthracene, 1,4-d...	18.97	3.6	ng	367478	4	17.18	2030170	20.0
Cyclopenta(def)ph...	19.12	2.4	ng	247614	4	17.18	2030170	20.0
11H-Benzo[b]fluorene	20.10	2.4	ng	460282	5	21.36	3851160	20.0