LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM083019\
Data File : BM022451.D
Acq On : 30 Aug 2019 21:20
Operator : HP/JU
Sample : K4618-07 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : SB-4-20-22

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-BM082919.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	7.516	765	770	780	rBB	67594	105706	9.83%	1.011%
2	10.292	1236	1242	1250	rBV	65770	121676	11.32%	1.164%
3	14.180	1898	1903	1915	rBB	101166	159638	14.85%	1.527%
4	16.951	2369	2374	2379	rBV2	142827	201151	18.71%	1.924%
5	16.992	2379	2381	2388	rVB	9832	12351	1.15%	0.118%
6	17.827	2517	2523	2527	rBV2	15187	27387	2.55%	0.262%
7	17.874	2527	2531	2536	rVV	20742	32645	3.04%	0.312%
8	17.962	2540	2546	2551	rVV2	8034	16455	1.53%	0.157%
9	18.021	2551	2556	2560	rVV4	6720	16183	1.51%	0.155%
10	18.580	2646	2651	2656	rVB3	15317	20554	1.91%	0.197%
11	18.633	2656	2660	2663	rBV	16434	21085	1.96%	0.202%
12	18.674	2663	2667	2671	rVB	9660	12785	1.19%	0.122%
13	18.751	2676	2680	2686	rBV2	22336	36841	3.43%	0.352%
14	18.821	2686	2692	2694	rBV5	7285	13635	1.27%	0.130%
15	18.886	2699	2703	2708	rVB3	11423	15264	1.42%	0.146%
16	19.021	2721	2726	2730	rBV	25909	34078	3.17%	0.326%
17	19.115	2739	2742	2744	rBV3	9773	11417	1.06%	0.109%
18	19.262	2764	2767	2770	rBV2	10065	12497	1.16%	0.120%
19	19.298	2770	2773	2778	rVB2	9976	12851	1.20%	0.123%
20	19.392	2780	2789	2797	rBV	70744	130320	12.12%	1.246%
21	19.462	2797	2801	2805	rVB3	18573	27764	2.58%	0.266%
22	19.539	2808	2814	2818	rBV7	11310	18012	1.68%	0.172%
23	19.592	2818	2823	2828	rBV2	55390	77924	7.25%	0.745%
24	19.709	2838	2843	2845	rBV2	17250	27549	2.56%	0.263%
25	19.792	2854	2857	2861	rBV3	10111	17514	1.63%	0.167%
26	19.851	2865	2867	2870	rVV3	12516	18852	1.75%	0.180%
27	19.892	2870	2874	2878	rVB	60756	74713	6.95%	0.714%
28	19.992	2886	2891	2896	rBV2	46277	76862	7.15%	0.735%
29	20.051	2896	2901	2905	rVV	112060	148697	13.83%	1.422%
30	20.086	2905	2907	2911	rVV5	16144	22394	2.08%	0.214%
31	20.133	2912	2915	2919	rVB3	29035	37077	3.45%	0.355%
32	20.192	2920	2925	2928	rBV	39111	57919	5.39%	0.554%
33	20.233	2929	2932	2935	rVB2	27186	34284	3.19%	0.328%
34	20.403	2956	2961	2962	rBV5	15409	22375	2.08%	0.214%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM083019\
Data File : BM022451.D
Acq On : 30 Aug 2019 21:20
Operator : HP/JU
Sample : K4618-07 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : SB-4-20-22

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-BM082919.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	20.492	2971	2976	2978	rBV2	42418	69574	6.47%	0.665%
36	20.527	2978	2982	2989	rVB	95048	180435	16.78%	1.726%
37	20.603	2989	2995	2999	rBV	43828	93681	8.71%	0.896%
38	20.639	2999	3001	3002	rVV	25605	22363	2.08%	0.214%
39	20.662	3003	3005	3008	rVB	45147	47267	4.40%	0.452%
40	20.727	3013	3016	3022	rVB4	33377	43418	4.04%	0.415%
41	20.780	3022	3025	3027	rBV	41207	47104	4.38%	0.450%
42	20.809	3027	3030	3034	rVV	59274	75504	7.02%	0.722%
43	20.850	3034	3037	3041	rVV3	29616	44819	4.17%	0.429%
44	20.892	3041	3044	3048	rVV6	23692	27717	2.58%	0.265%
45	21.062	3068	3073	3076	rBV3	36502	68330	6.36%	0.653%
46	21.098	3076	3079	3083	rBV	59199	75310	7.00%	0.720%
47	21.168	3083	3091	3094	rVV2	433186	1005514	93.53%	9.616%
48	21.203	3094	3097	3106	rVB	459374	615828	57.28%	5.889%
49	21.280	3106	3110	3114	rVB3	78156	107180	9.97%	1.025%
50	21.321	3115	3117	3120	rBV4	29344	35213	3.28%	0.337%
51	21.650	3169	3173	3176	rBV	109402	150990	14.04%	1.444%
52	21.709	3176	3183	3187	rVV	625292	1075107	100.00%	10.281%
53	21.756	3187	3191	3196	rVB	374197	466171	43.36%	4.458%
54	21.903	3212	3216	3217	rBV2	66810	86649	8.06%	0.829%
55	21.997	3229	3232	3237	rVB	83089	111130	10.34%	1.063%
56	22.203	3262	3267	3270	rBV	154780	248130	23.08%	2.373%
57	22.292	3278	3282	3284	rBV	142378	179074	16.66%	1.712%
58	22.456	3306	3310	3314	rVB3	81515	129908	12.08%	1.242%
59	22.527	3319	3322	3332	rVB3	158927	341007	31.72%	3.261%
60	22.650	3340	3343	3347	rVB4	63726	81474	7.58%	0.779%
61	22.703	3347	3352	3357	rBV	197336	350450	32.60%	3.351%
62	23.162	3425	3430	3440	rVB	384943	787247	73.22%	7.528%
63	23.256	3442	3446	3455	rVB	256013	434779	40.44%	4.158%
64	23.350	3457	3462	3467	rBV	270239	475935	44.27%	4.551%
65	23.809	3535	3540	3546	rVV	233682	464569	43.21%	4.443%
66	23.874	3546	3551	3561	rVB	232892	458376	42.64%	4.383%
67	26.203	3941	3947	3955	rVB2	144774	380251	35.37%	3.636%

Sum of corrected areas: 10456959

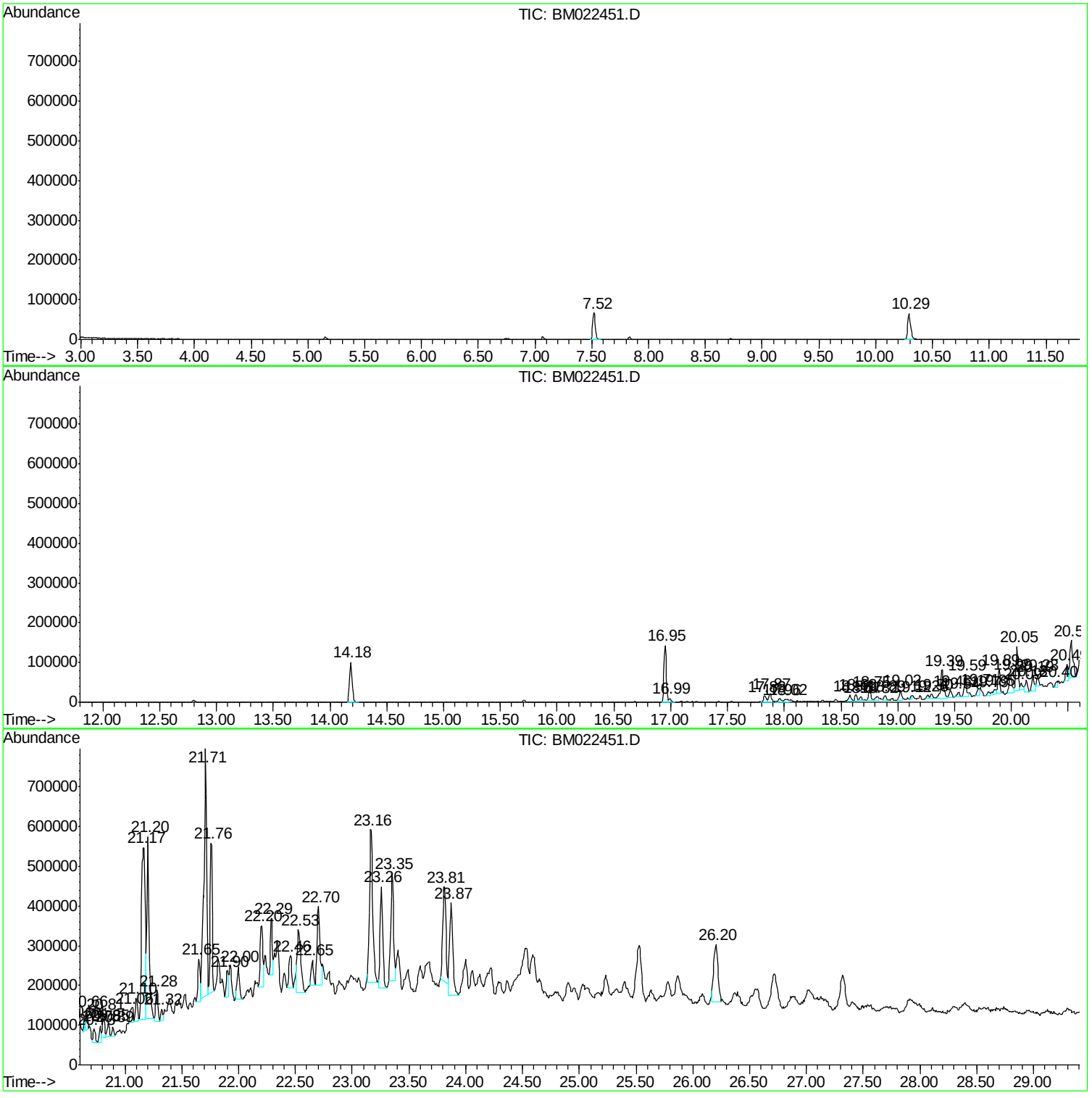
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM083019\
Data File : BM022451.D
Acq On : 30 Aug 2019 21:20
Operator : HP/JU
Sample : K4618-07 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
SB-4-20-22

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM083019\
Data File : BM022451.D
Acq On : 30 Aug 2019 21:20
Operator : HP/JU
Sample : K4618-07 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : SB-4-20-22

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

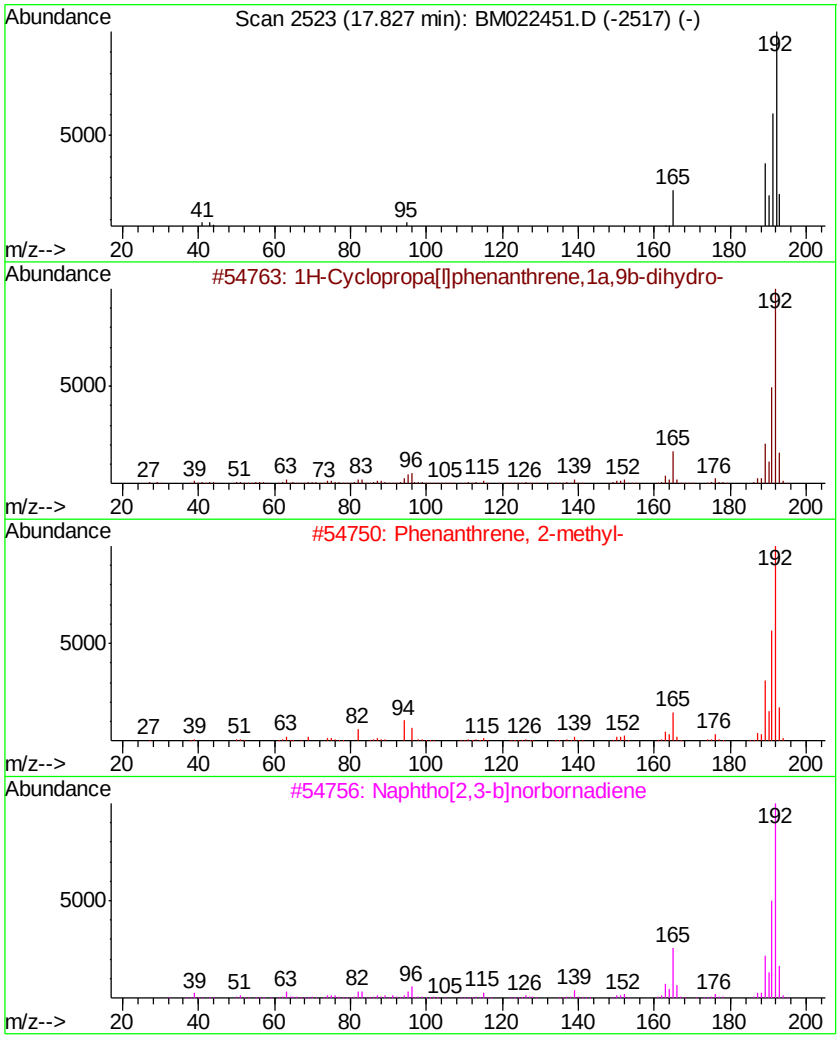
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

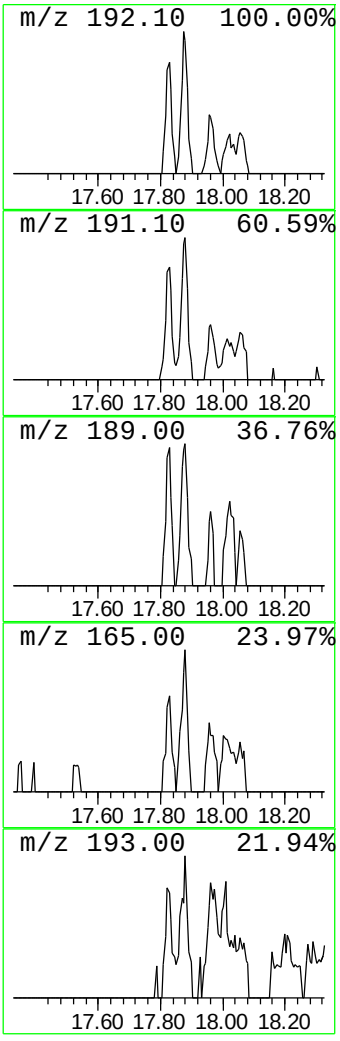
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.83	2.72 ng	27387	Phenanthrene-d10	16.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	80
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	80
3	Naphtho[2,3-b]norbornadiene	192	C15H12	107426-38-0	80
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	72
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	72





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM083019\
Data File : BM022451.D
Acq On : 30 Aug 2019 21:20
Operator : HP/JU
Sample : K4618-07 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : SB-4-20-22

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

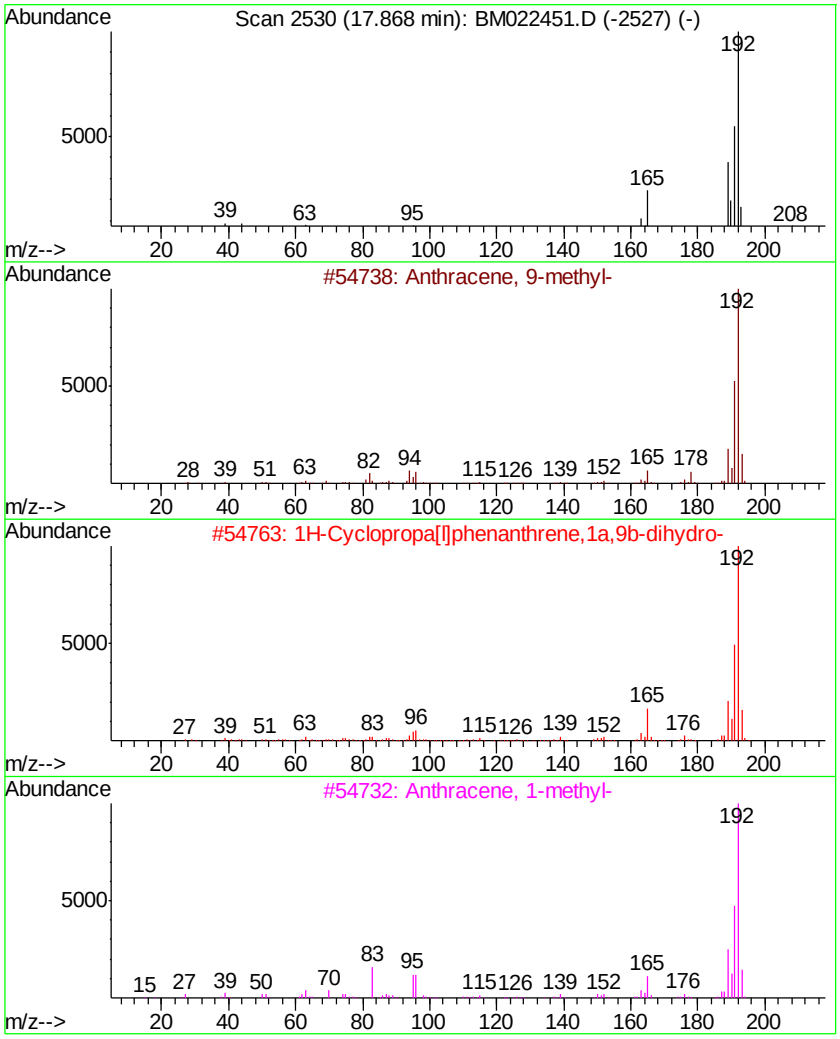
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

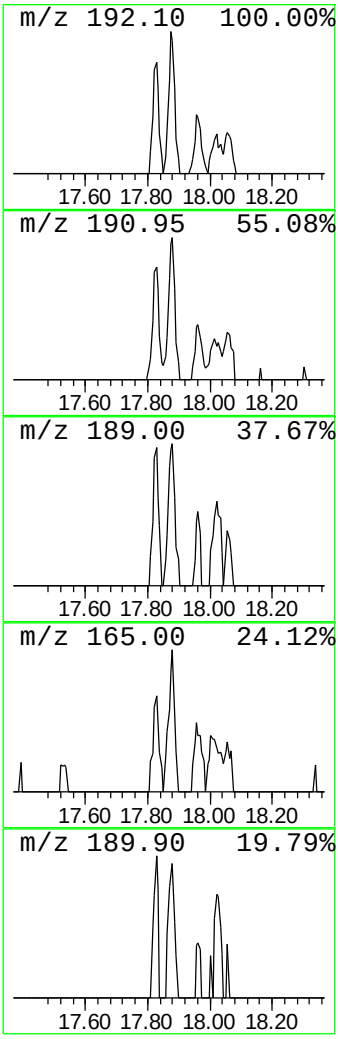
****

Peak Number 2 Anthracene, 9-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.87	3.25 ng	32645	Phenanthrene-d10	16.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 9-methyl-	192	C15H12	000779-02-2	87
2	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	74
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	74
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	74
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	72





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM083019\
Data File : BM022451.D
Acq On : 30 Aug 2019 21:20
Operator : HP/JU
Sample : K4618-07 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : SB-4-20-22

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

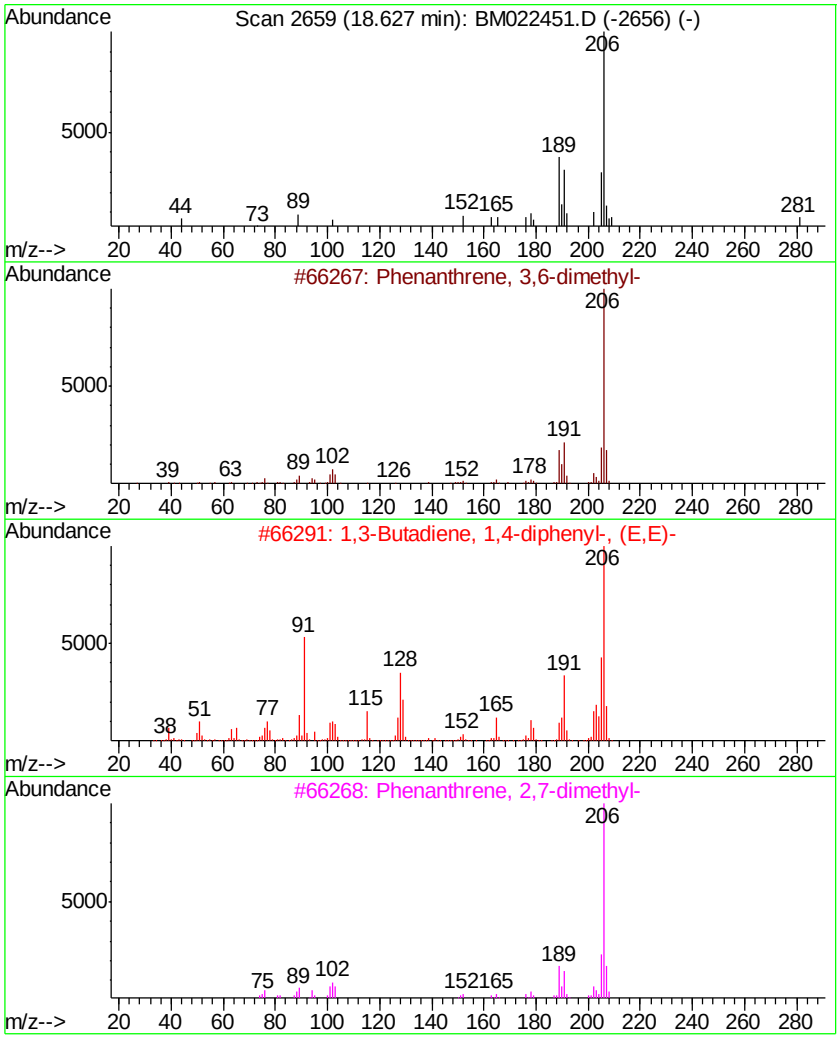
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

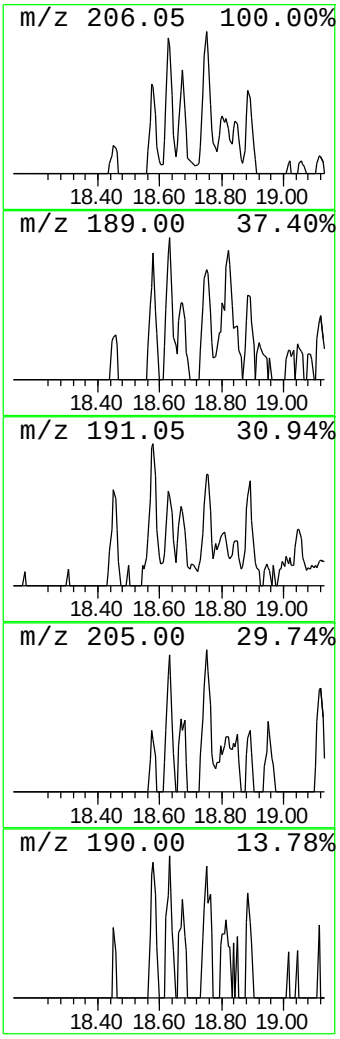
****

Peak Number 3 Phenanthrene, 3,6-dimethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.63	2.10 ng	21085	Phenanthrene-d10	16.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	72
2	1,3-Butadiene, 1,4-diphenyl-, (E...	206	C16H14	000538-81-8	64
3	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	64
4	1,4-Diphenyl-1,3-butadiene	206	C16H14	000886-65-7	62
5	[14]Annulene, 1,6:8,13-bis(metha...	206	C16H14	085385-68-8	62





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM083019\
Data File : BM022451.D
Acq On : 30 Aug 2019 21:20
Operator : HP/JU
Sample : K4618-07 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : SB-4-20-22

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

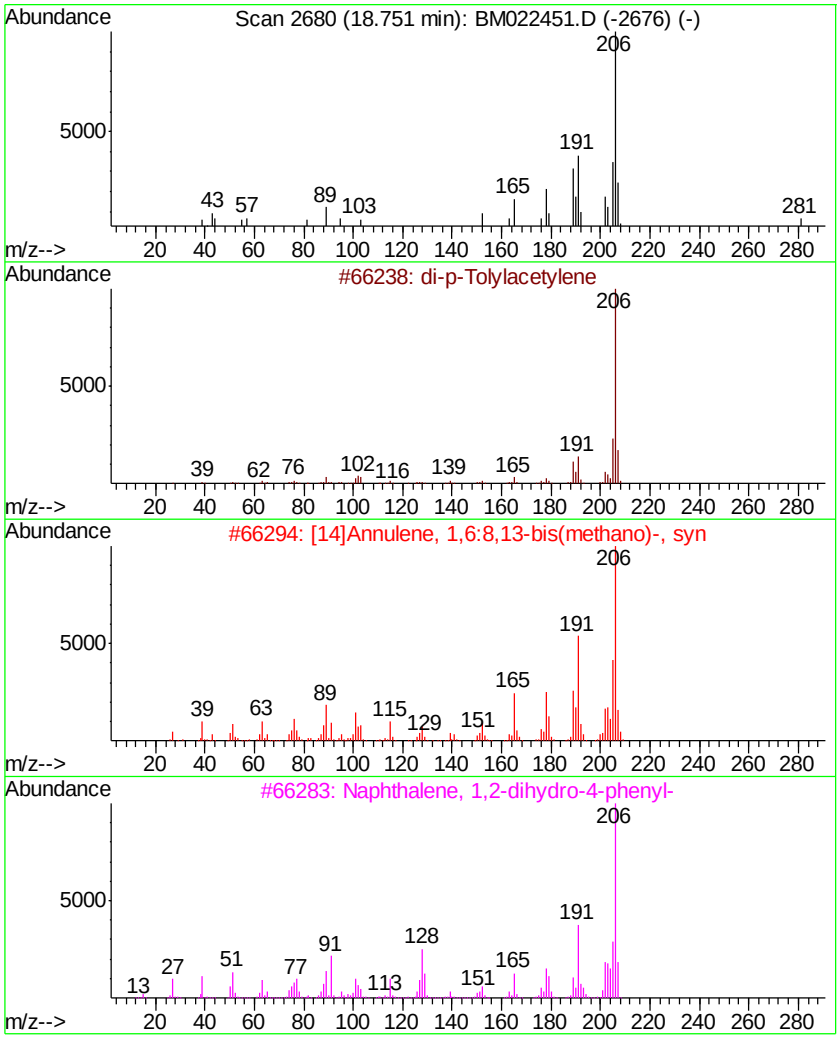
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

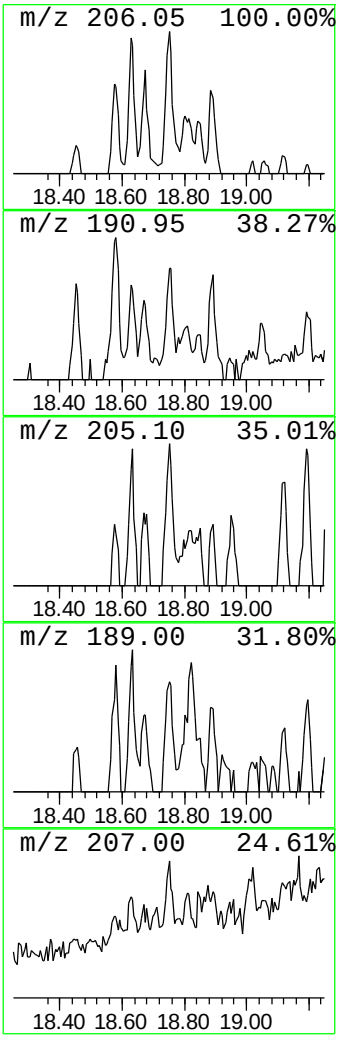
****

Peak Number 4 di-p-Tolylacetylene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.75	3.66 ng	36841	Phenanthrene-d10	16.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	di-p-Tolylacetylene	206	C16H14	002789-88-0	91
2	[14]Annulene, 1,6:8,13-bis(metha...	206	C16H14	085385-68-8	87
3	Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	83
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	80
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	80





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM083019\
Data File : BM022451.D
Acq On : 30 Aug 2019 21:20
Operator : HP/JU
Sample : K4618-07 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : SB-4-20-22

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

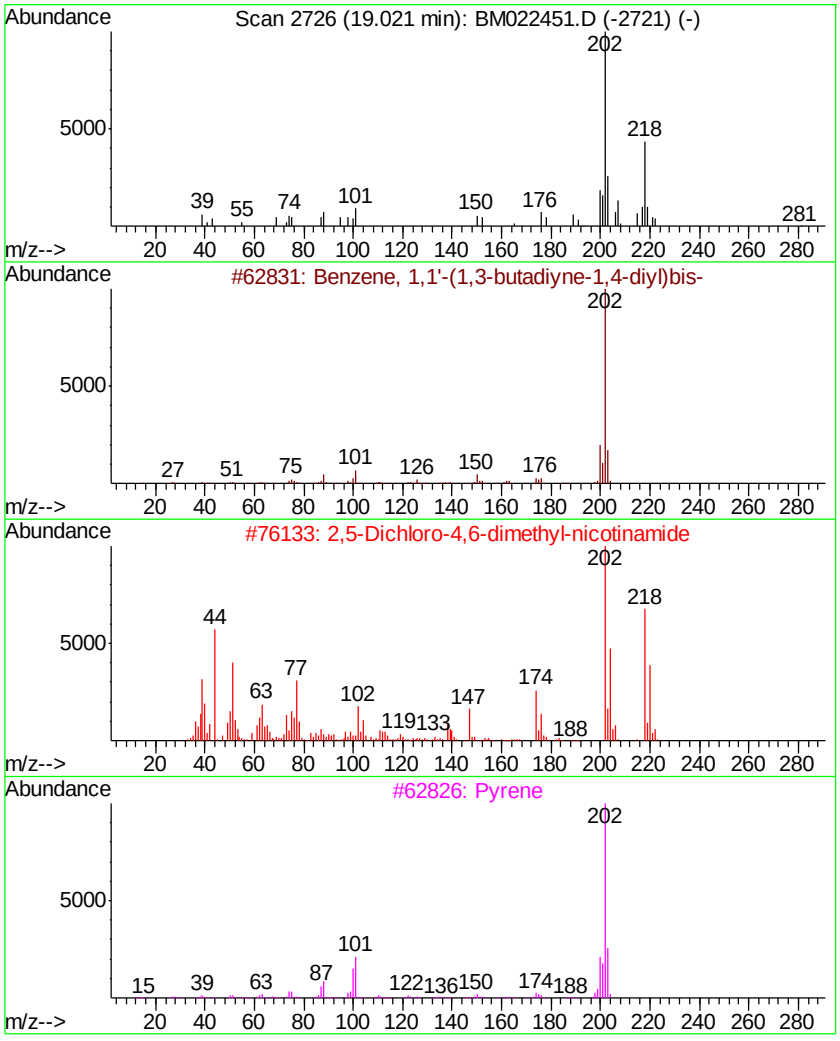
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

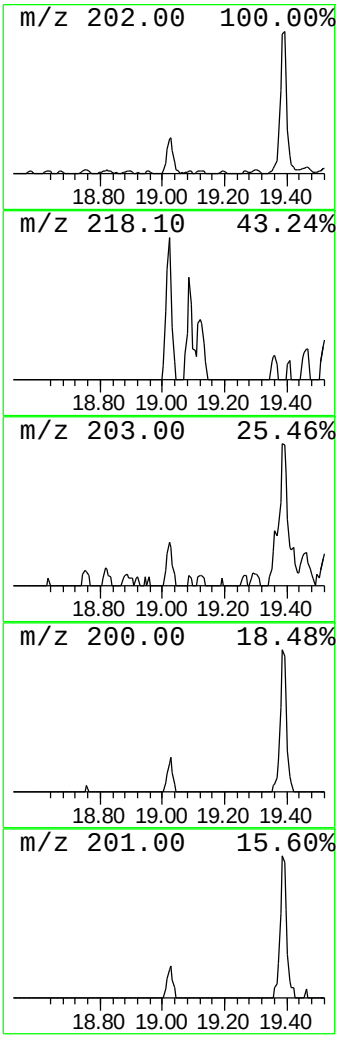
****

Peak Number 5 unknown19.02 Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.02	3.39 ng	34078	Phenanthrene-d10	16.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,1'-(1,3-butadiyne-1,4...	202	C16H10	000886-66-8	46
2	2,5-Dichloro-4,6-dimethyl-nicoti...	218	C8H8Cl2N2O	175204-44-1	43
3	Pyrene	202	C16H10	000129-00-0	43
4	Fluoranthene	202	C16H10	000206-44-0	43
5	3H-Benzo[4,5]furo[3,2-d]pyrimidi...	202	C10H6N2OS	062208-70-2	25





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM083019\
Data File : BM022451.D
Acq On : 30 Aug 2019 21:20
Operator : HP/JU
Sample : K4618-07 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : SB-4-20-22

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

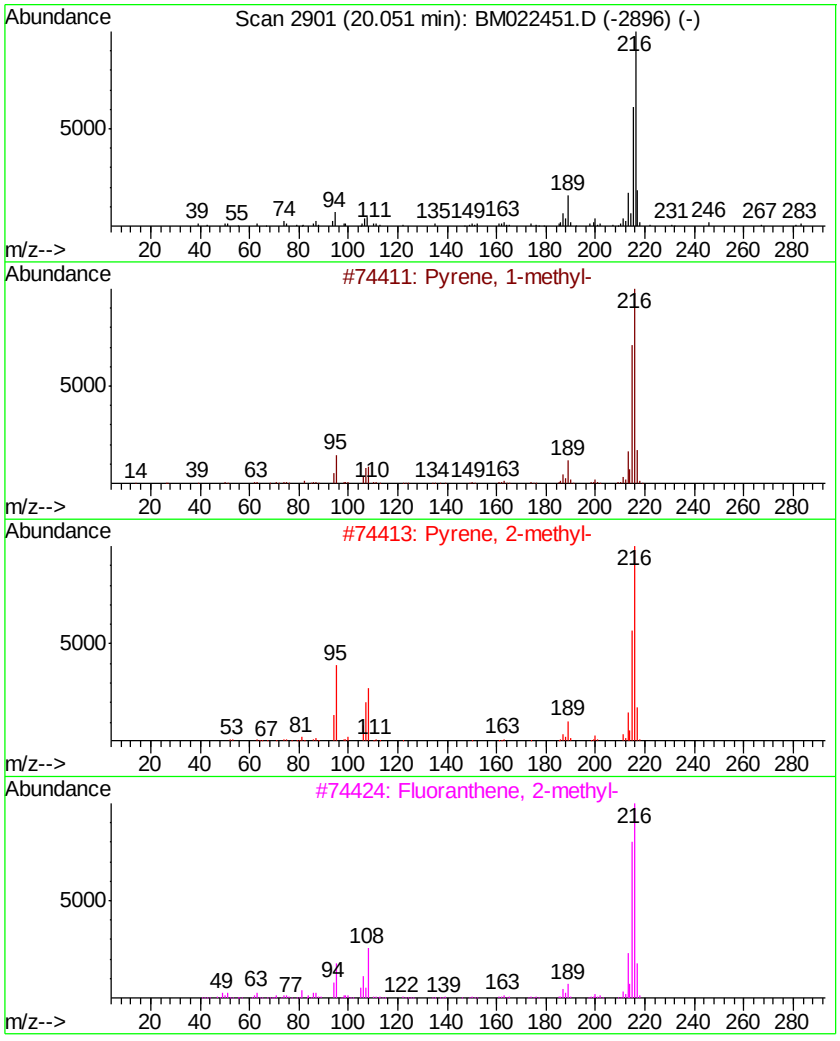
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

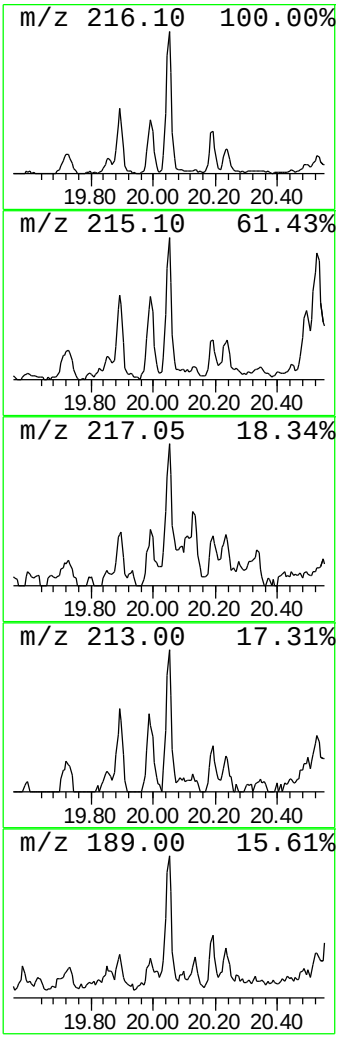
****

Peak Number 6 Pyrene, 1-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.05	2.96 ng	148697	Chrysene-d12	21.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
2	Pyrene, 2-methyl-	216	C17H12	003442-78-2	93
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	80





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM083019\
Data File : BM022451.D
Acq On : 30 Aug 2019 21:20
Operator : HP/JU
Sample : K4618-07 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : SB-4-20-22

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

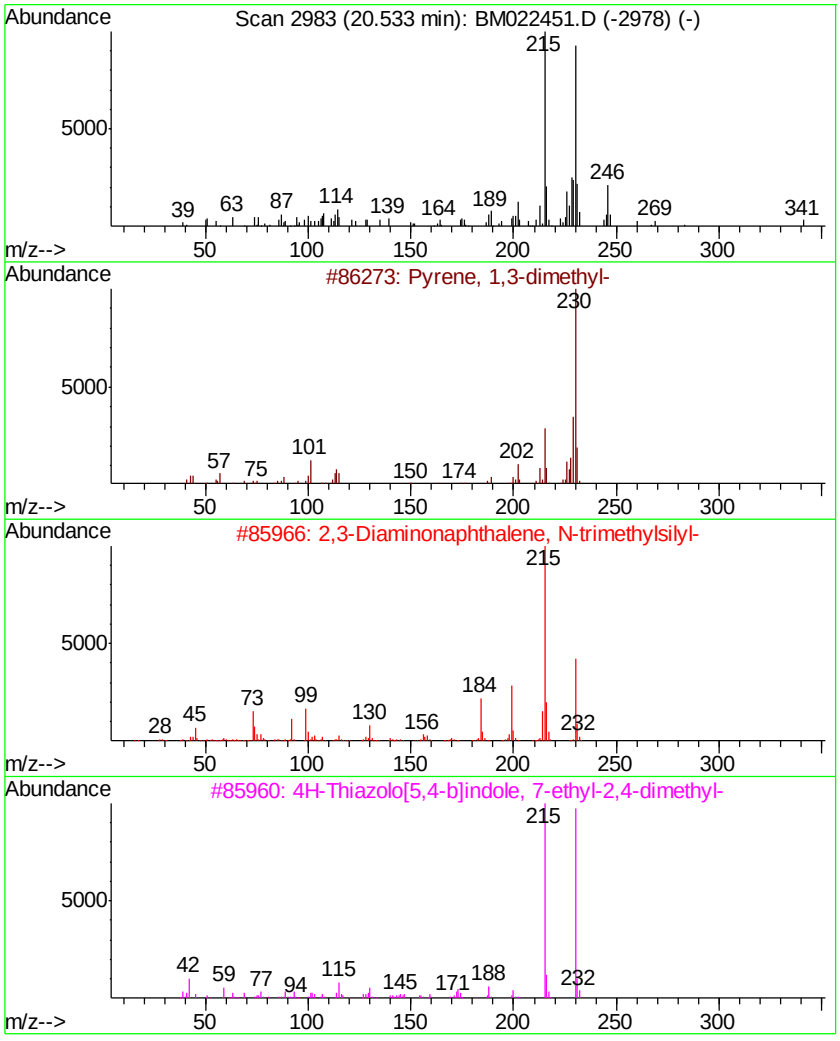
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

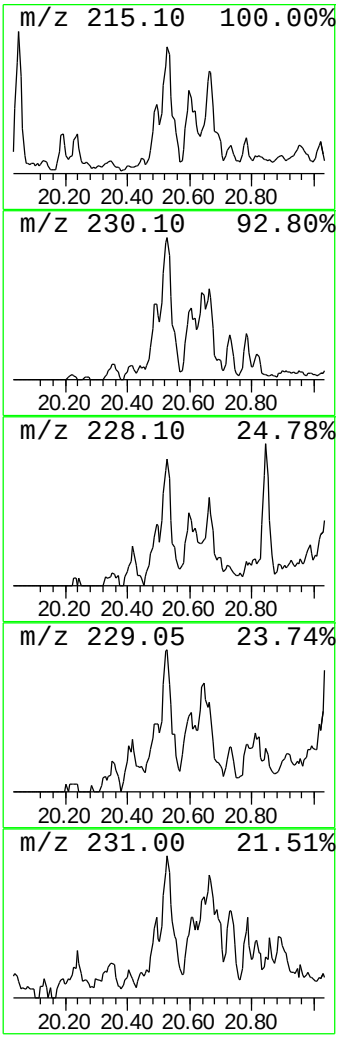
****

Peak Number 7 Pyrene, 1,3-dimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.53	3.59 ng	180435	Chrysene-d12	21.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1,3-dimethyl-	230	C18H14	064401-21-4	55
2	2,3-Diaminonaphthalene, N-trimet...	230	C13H18N2Si	1000364-96-2	53
3	4H-Thiazolo[5,4-b]indole, 7-ethy...	230	C13H14N2S	1000304-41-6	52
4	2,2'-Bi-1H-indene	230	C18H14	000787-61-1	43
5	4-(6-Methoxy-3-methyl-2-benzofur...	230	C14H14O3	010444-37-8	41





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM083019\
Data File : BM022451.D
Acq On : 30 Aug 2019 21:20
Operator : HP/JU
Sample : K4618-07 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : SB-4-20-22

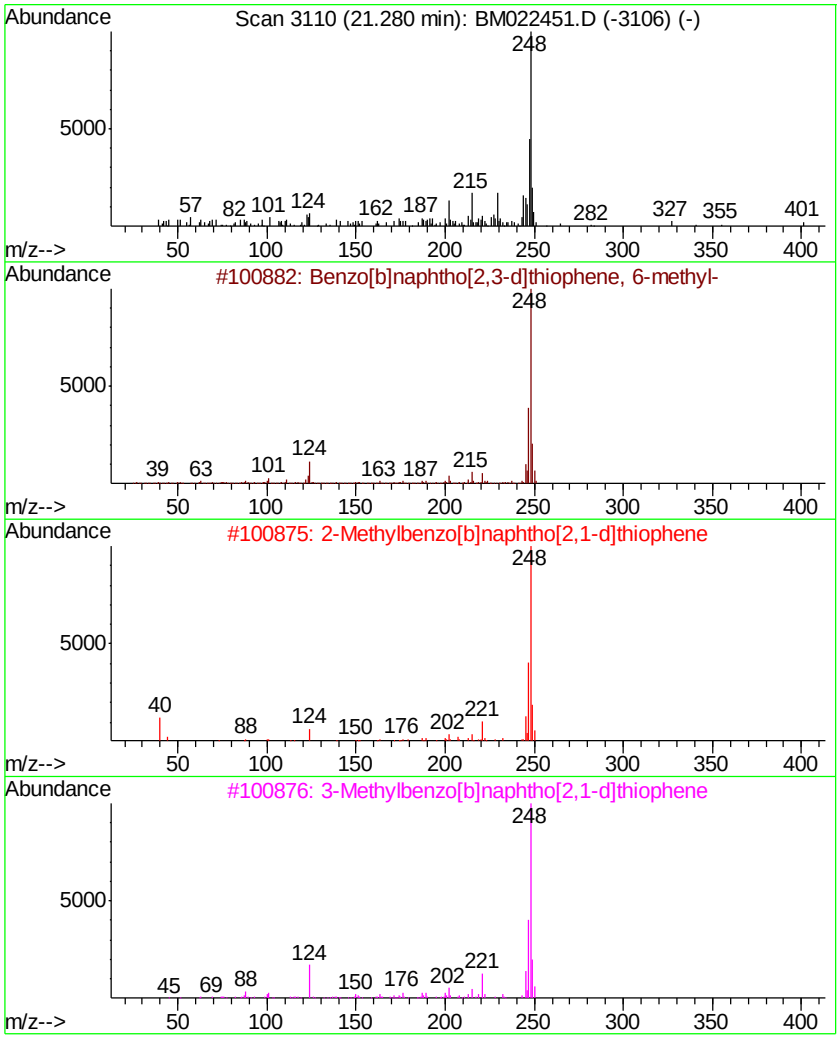
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

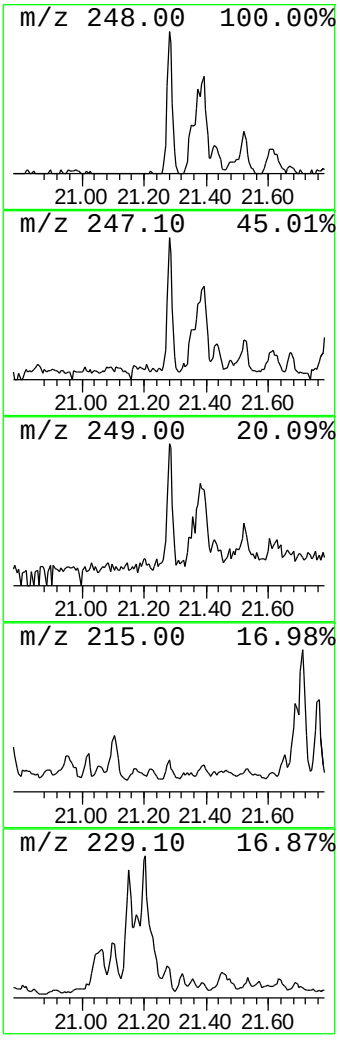
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 8 Benzo[b]naphtho[2,3-d]thiop... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.28	2.13 ng	107180	Chrysene-d12	21.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,3-d]thiophene,...	248	C17H12S	024360-63-2	87
2	2-Methylbenzo[b]naphtho[2,1-d]th...	248	C17H12S	1000326-06-8	87
3	3-Methylbenzo[b]naphtho[2,1-d]th...	248	C17H12S	004567-45-7	81
4	10-Methylbenzo[b]naphtho[2,1-d]t...	248	C17H12S	083821-58-3	81
5	Benzo[b]naphtho[2,3-d]thiophene,...	248	C17H12S	024964-09-8	76





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM083019\
Data File : BM022451.D
Acq On : 30 Aug 2019 21:20
Operator : HP/JU
Sample : K4618-07 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : SB-4-20-22

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

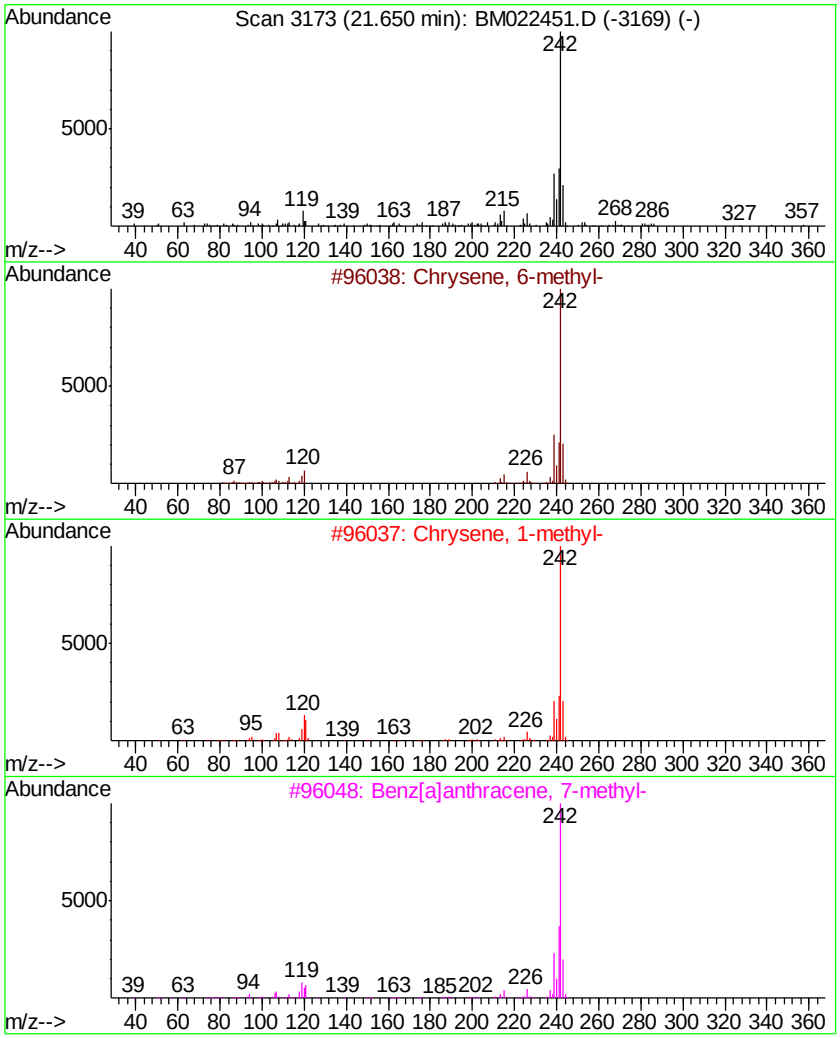
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

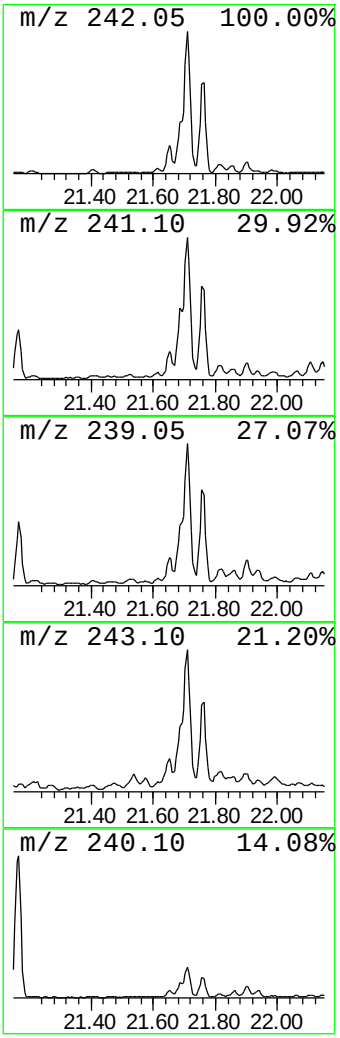
****

Peak Number 9 Chrysene, 6-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.65	3.00 ng	150990	Chrysene-d12	21.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Chrysene, 6-methyl-	242	C19H14	001705-85-7	93
2	Chrysene, 1-methyl-	242	C19H14	003351-28-8	90
3	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	90
4	Benz[a]anthracene, 1-methyl-	242	C19H14	002498-77-3	86
5	Benz[d]isoxazol-4(5H)-one, 6,7-d...	242	C14H14N2O2	300389-62-2	83





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM083019\
Data File : BM022451.D
Acq On : 30 Aug 2019 21:20
Operator : HP/JU
Sample : K4618-07 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : SB-4-20-22

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

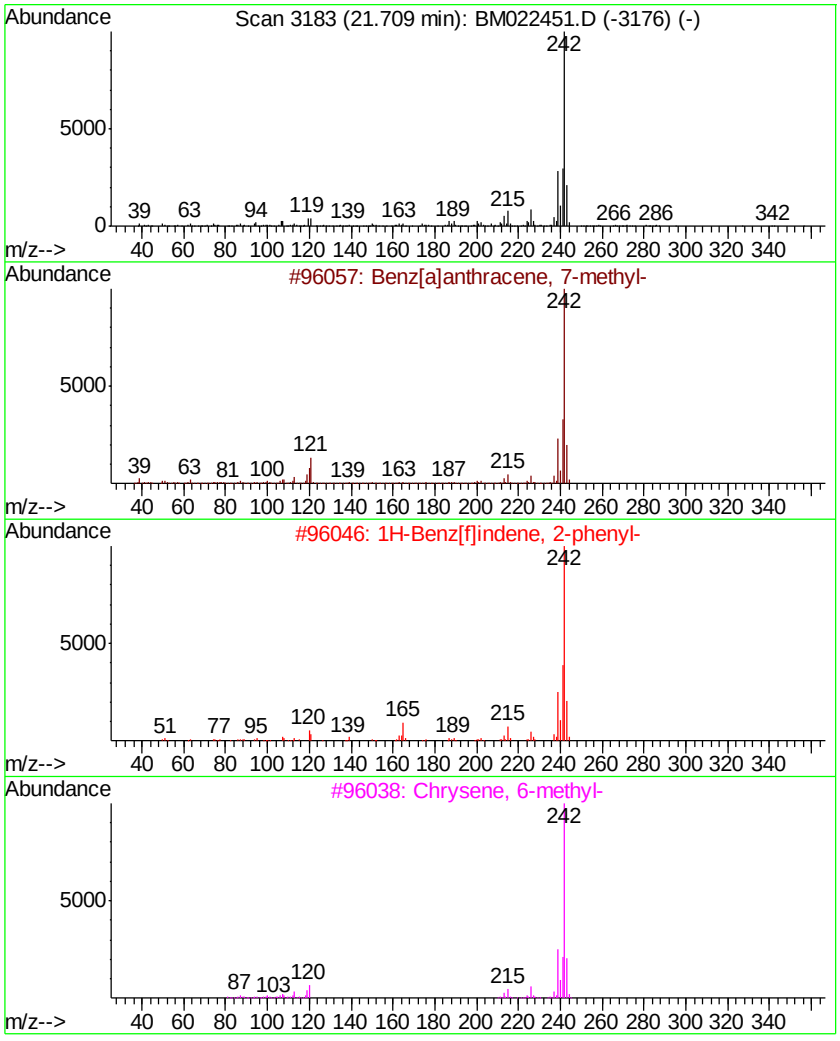
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

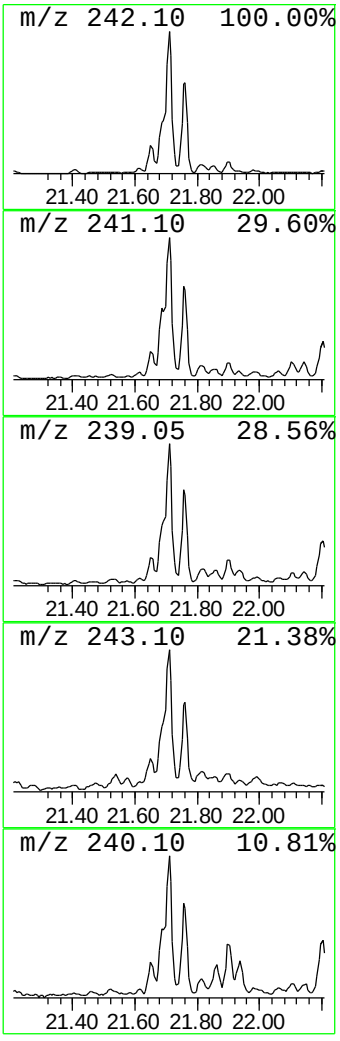
****

Peak Number 10 Benz[a]anthracene, 7-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.71	21.38 ng	1075110	Chrysene-d12	21.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	94
2	1H-Benz[f]indene, 2-phenyl-	242	C19H14	1000305-22-4	94
3	Chrysene, 6-methyl-	242	C19H14	001705-85-7	94
4	Chrysene, 1-methyl-	242	C19H14	003351-28-8	94
5	2-Methylchrysene	242	C19H14	003351-32-4	93





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM083019\
Data File : BM022451.D
Acq On : 30 Aug 2019 21:20
Operator : HP/JU
Sample : K4618-07 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : SB-4-20-22

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

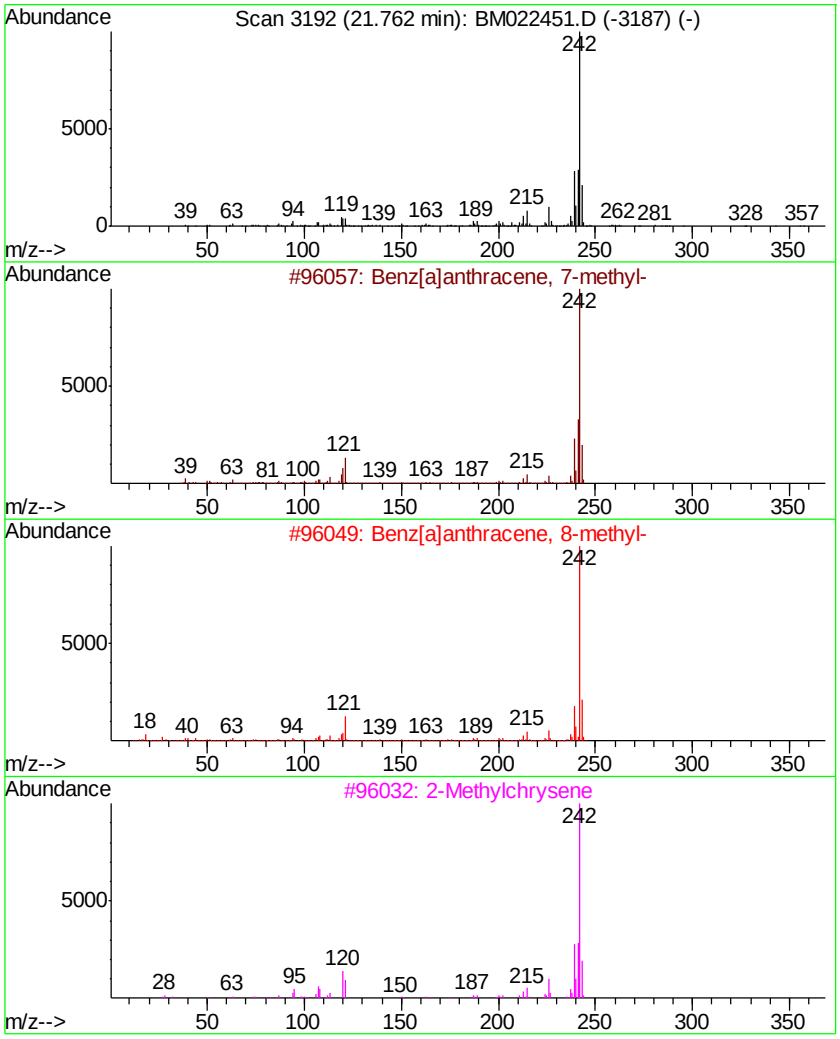
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

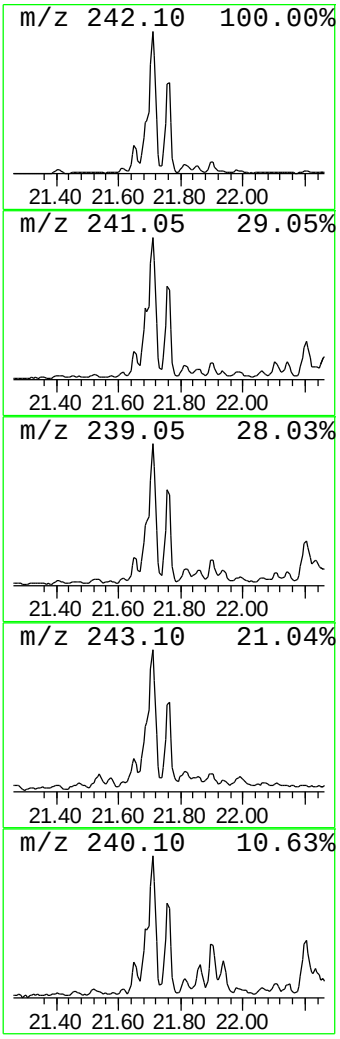
****

Peak Number 11 Benz[a]anthracene, 8-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.76	9.27 ng	466171	Chrysene-d12	21.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	95
2	Benz[a]anthracene, 8-methyl-	242	C19H14	002381-31-9	94
3	2-Methylchrysene	242	C19H14	003351-32-4	94
4	Chrysene, 1-methyl-	242	C19H14	003351-28-8	94
5	Benz[a]anthracene, 12-methyl-	242	C19H14	002422-79-9	93





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM083019\
Data File : BM022451.D
Acq On : 30 Aug 2019 21:20
Operator : HP/JU
Sample : K4618-07 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : SB-4-20-22

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

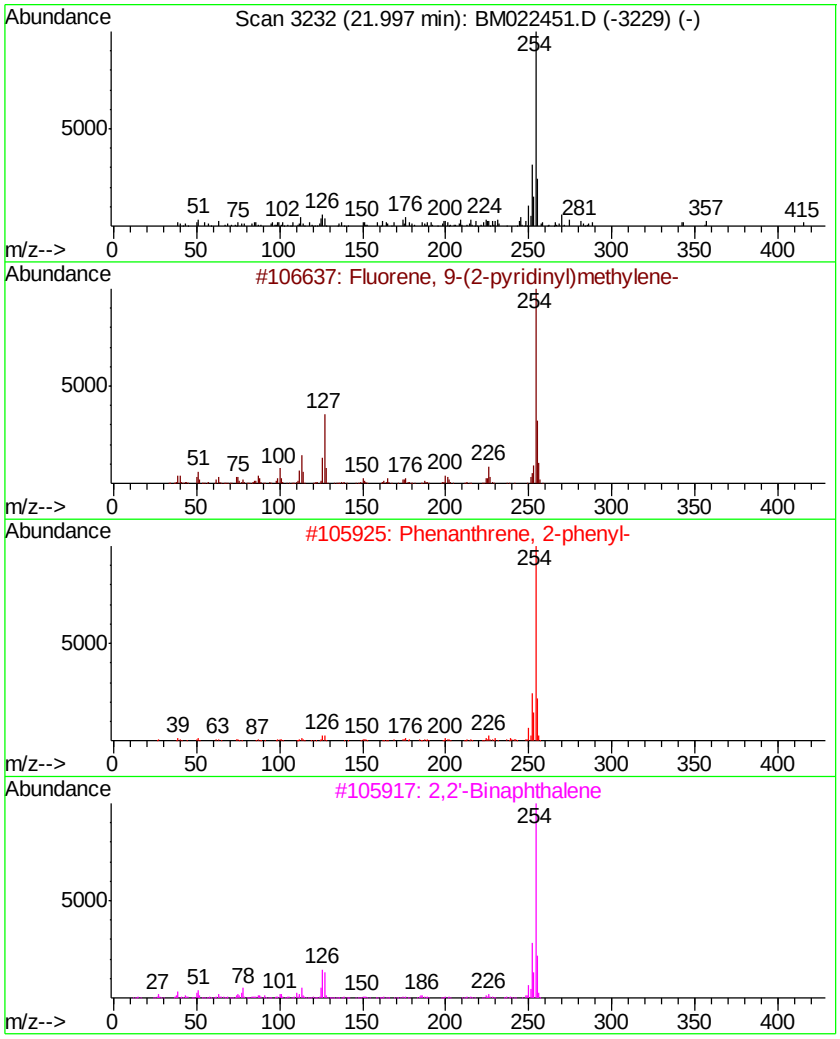
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

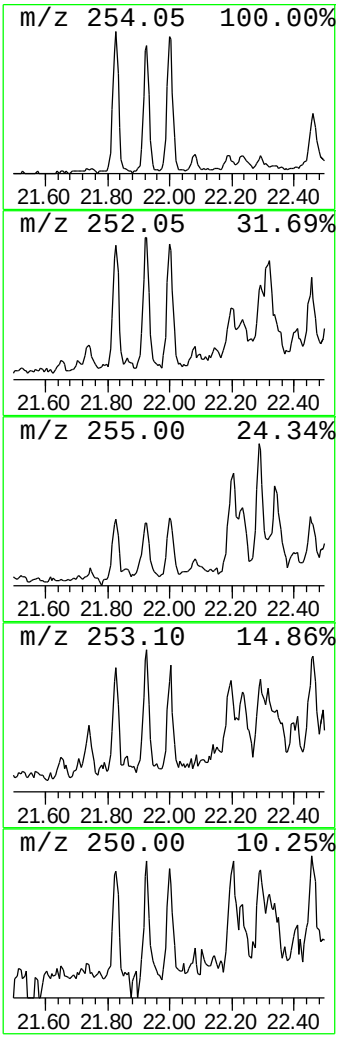
****

Peak Number 12 Fluorene, 9-(2-pyridinyl)me... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.00	2.21 ng	111130	Chrysene-d12	21.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluorene, 9-(2-pyridinyl)methylene-	255	C19H13N	002871-27-4	64
2	Phenanthrene, 2-phenyl-	254	C20H14	004325-77-3	62
3	2,2'-Binaphthalene	254	C20H14	000612-78-2	58
4	9,10[1',2']-Benzenoanthracene, 9...	254	C20H14	000477-75-8	52
5	1,2'-Binaphthalene	254	C20H14	004325-74-0	50





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM083019\
Data File : BM022451.D
Acq On : 30 Aug 2019 21:20
Operator : HP/JU
Sample : K4618-07 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : SB-4-20-22

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

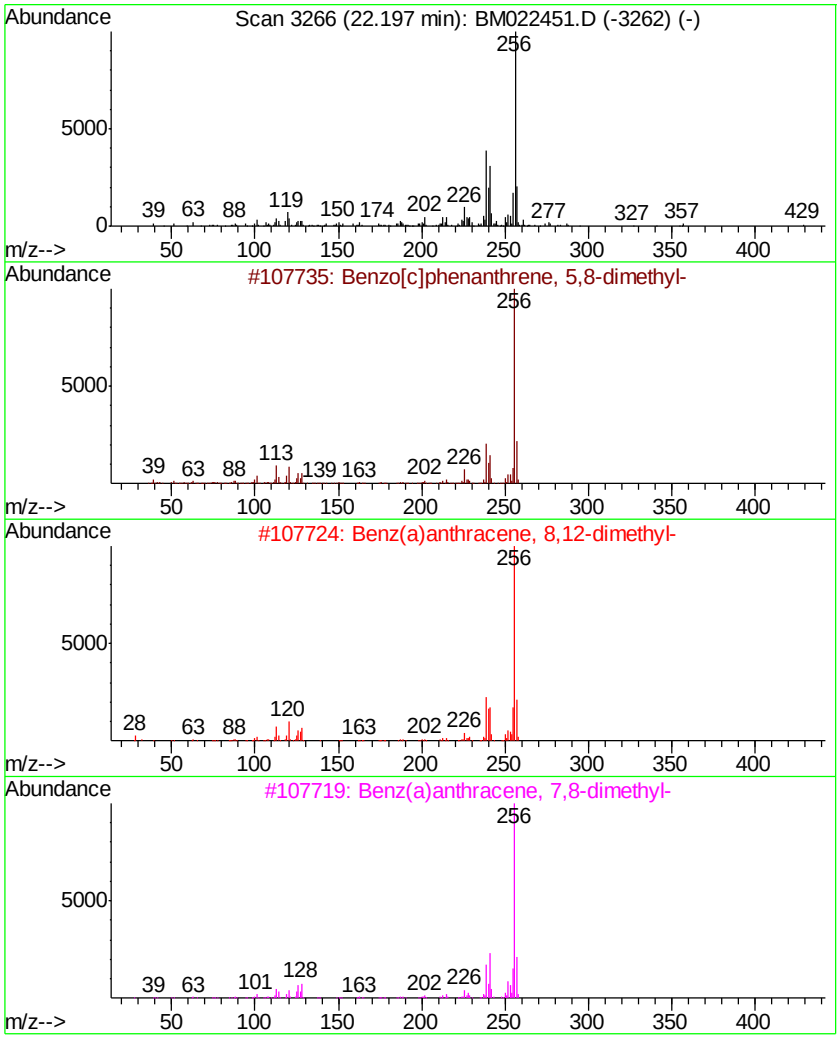
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

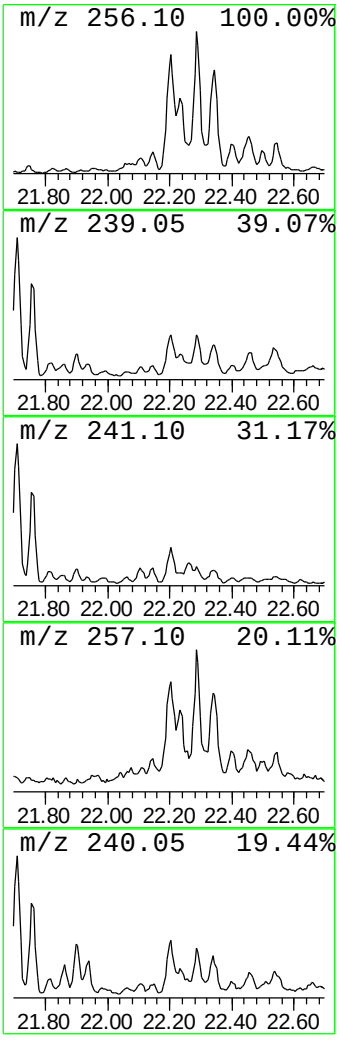
****

Peak Number 13 Benzo[c]phenanthrene, 5,8-d... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.20	4.94 ng	248130	Chrysene-d12	21.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[c]phenanthrene, 5,8-dimethyl-	256	C20H16	054986-63-9	94
2	Benz(a)anthracene, 8,12-dimethyl-	256	C20H16	020627-31-0	94
3	Benz(a)anthracene, 7,8-dimethyl-	256	C20H16	000604-81-9	94
4	Benz(a)anthracene, 6,7-dimethyl-	256	C20H16	020627-28-5	94
5	Benz[a]anthracene, 1,12-dimethyl-	256	C20H16	000313-74-6	93





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM083019\
Data File : BM022451.D
Acq On : 30 Aug 2019 21:20
Operator : HP/JU
Sample : K4618-07 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : SB-4-20-22

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

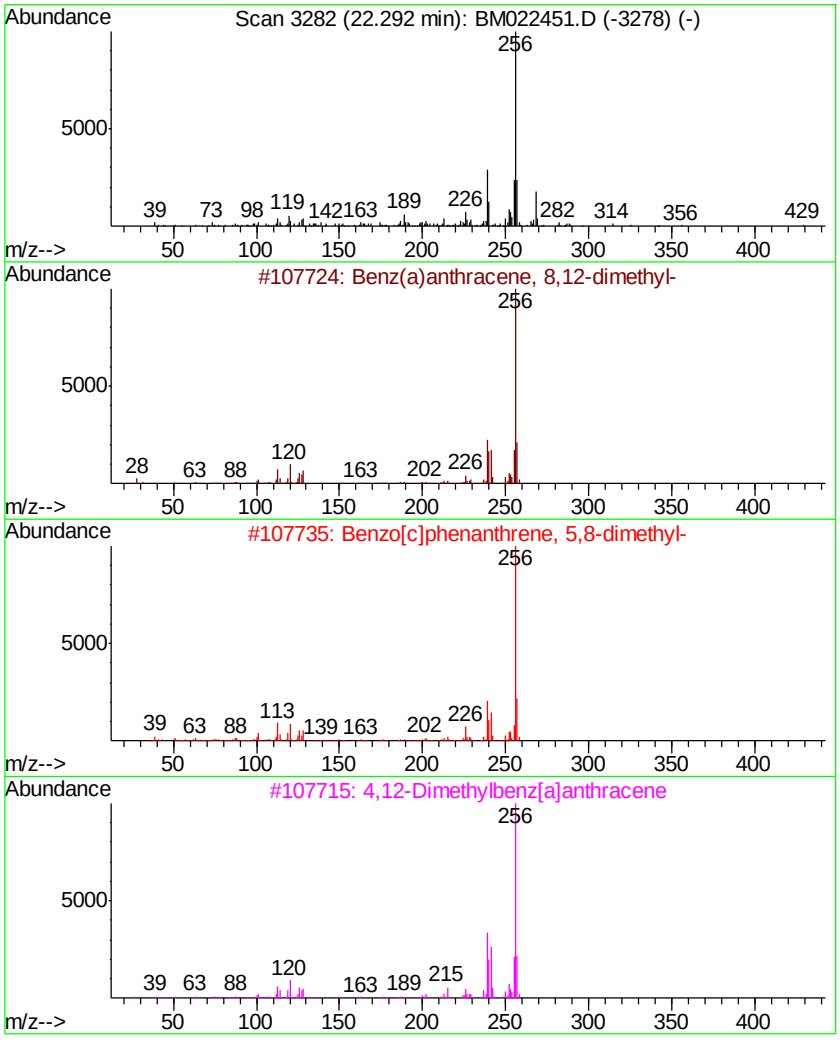
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

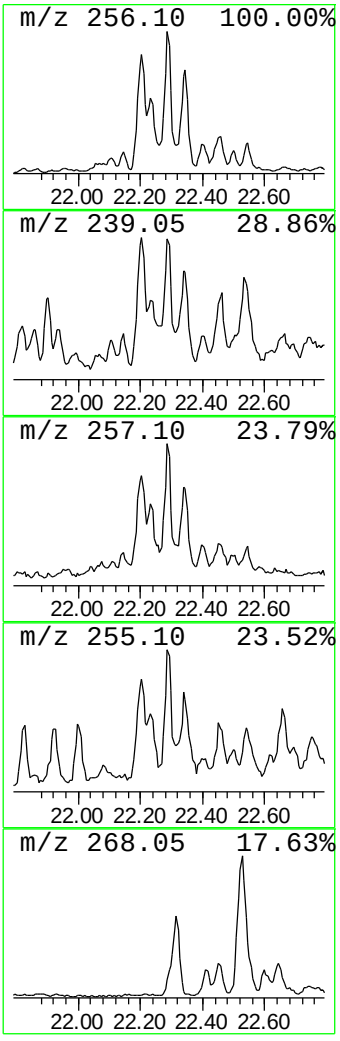
****

Peak Number 14 Benz(a)anthracene, 8,12-dim... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.29	7.53 ng	179074	Perylene-d12	23.35

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz(a)anthracene, 8,12-dimethyl-	256	C20H16	020627-31-0	91
2	Benzo[c]phenanthrene, 5,8-dimethyl-	256	C20H16	054986-63-9	90
3	4,12-Dimethylbenz[a]anthracene	256	C20H16	035187-19-0	87
4	Benz(a)anthracene, 4,7-dimethyl-	256	C20H16	035187-18-9	87
5	3,9-Dimethylbenz[a]anthracene	256	C20H16	000316-51-8	83





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM083019\
Data File : BM022451.D
Acq On : 30 Aug 2019 21:20
Operator : HP/JU
Sample : K4618-07 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : SB-4-20-22

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

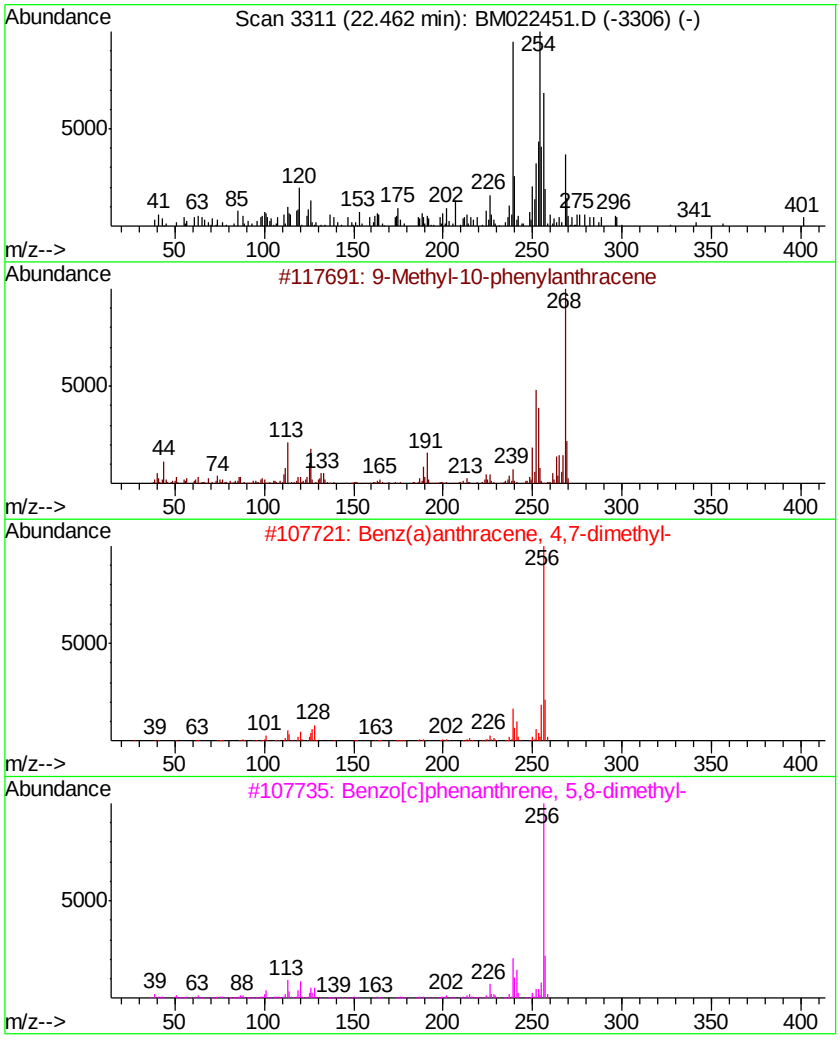
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

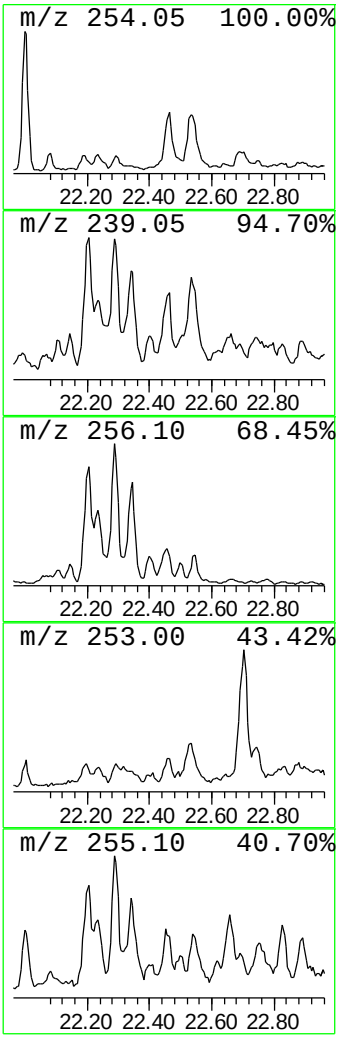
****

Peak Number 15 unknown22.46 Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.46	5.46 ng	129908	Perylene-d12	23.35

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-Methyl-10-phenylanthracene	268	C21H16	013425-08-6	45
2	Benz(a)anthracene, 4,7-dimethyl-	256	C20H16	035187-18-9	45
3	Benzo[c]phenanthrene, 5,8-dimethyl-	256	C20H16	054986-63-9	43
4	2-Chloro-6-methyl-4-phenyl-quina...	254	C15H11ClN2	1000317-62-9	43
5	Chrysene, 5-ethyl-	256	C20H16	054986-62-8	30





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM083019\
Data File : BM022451.D
Acq On : 30 Aug 2019 21:20
Operator : HP/JU
Sample : K4618-07 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : SB-4-20-22

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

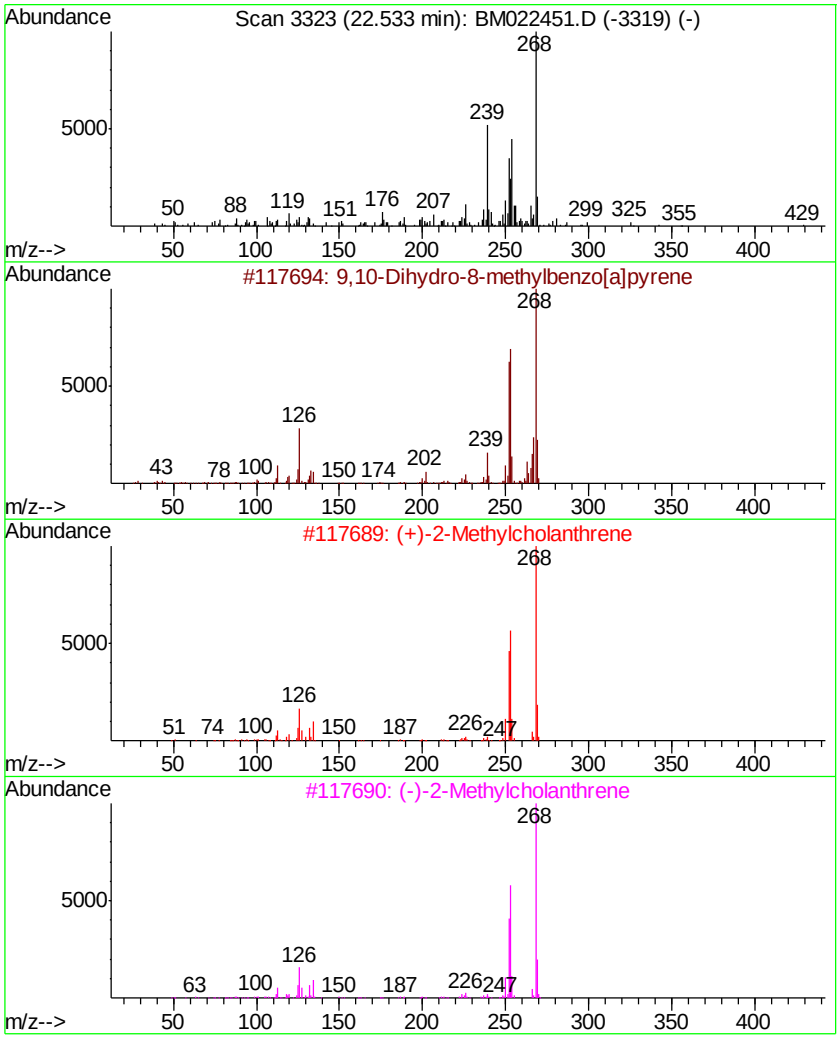
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

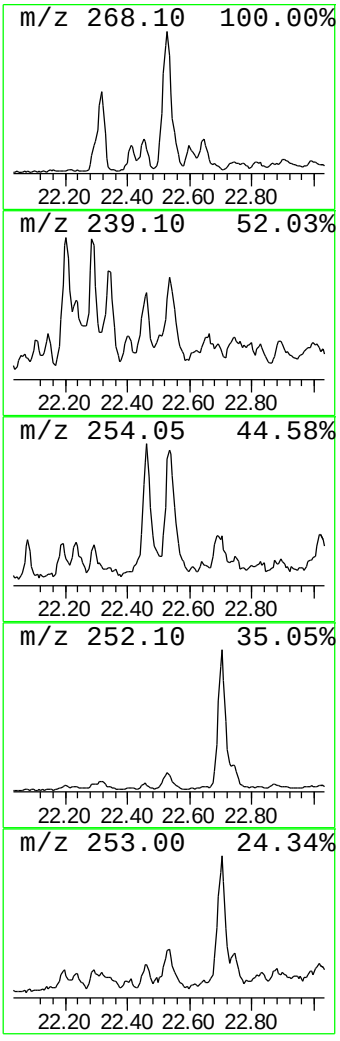
****

Peak Number 16 9,10-Dihydro-8-methylbenzo[... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.53	14.33 ng	341007	Perylene-d12	23.35

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dihydro-8-methylbenzo[a]pyrene	268	C21H16	089524-72-1	58
2	(+)-2-Methylcholanthrene	268	C21H16	1000126-56-1	53
3	(-)-2-Methylcholanthrene	268	C21H16	1000126-56-2	53
4	Benzo(a)pyrene 4,5-oxide	268	C20H12O	037574-47-3	52
5	Pyridine N-oxide, 2-amino-3,5-di...	266	C5H4Br2N2O	084539-29-7	52





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM083019\
Data File : BM022451.D
Acq On : 30 Aug 2019 21:20
Operator : HP/JU
Sample : K4618-07 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : SB-4-20-22

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

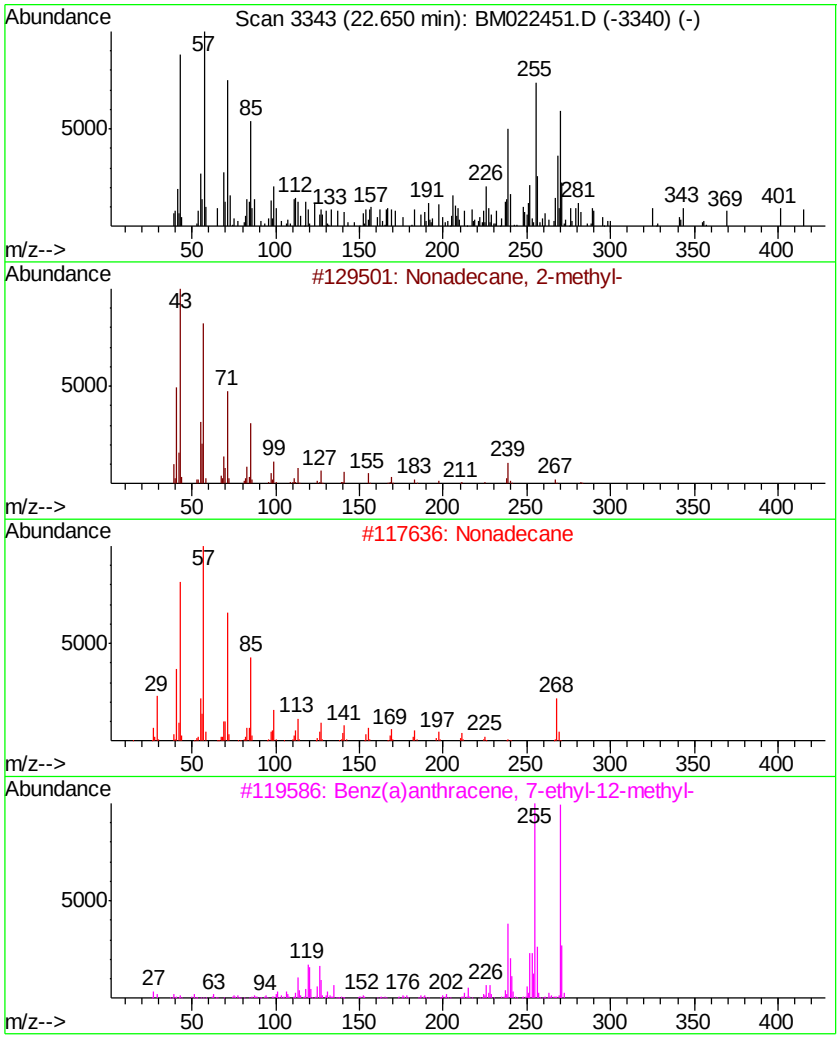
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

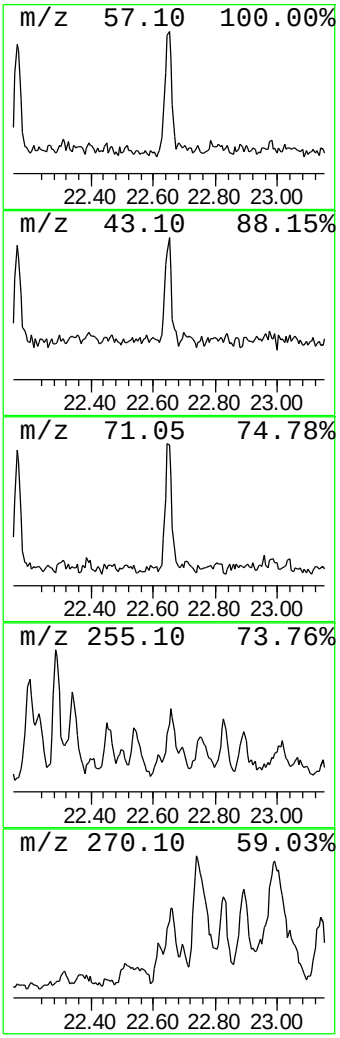
****

Peak Number 17 unknown22.65 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.65	3.42 ng	81474	Perylene-d12	23.35

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonadecane, 2-methyl-	282	C20H42	001560-86-7	46
2	Nonadecane	268	C19H40	000629-92-5	42
3	Benz(a)anthracene, 7-ethyl-12-me...	270	C21H18	016354-50-0	30
4	5,5-Diethylheptadecane	296	C21H44	1000360-41-7	25
5	1-[4-Acetyl-1-(4-amino-phenyl)-2...	270	C16H18N2O2	1000300-67-2	25





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM083019\
Data File : BM022451.D
Acq On : 30 Aug 2019 21:20
Operator : HP/JU
Sample : K4618-07 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : SB-4-20-22

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

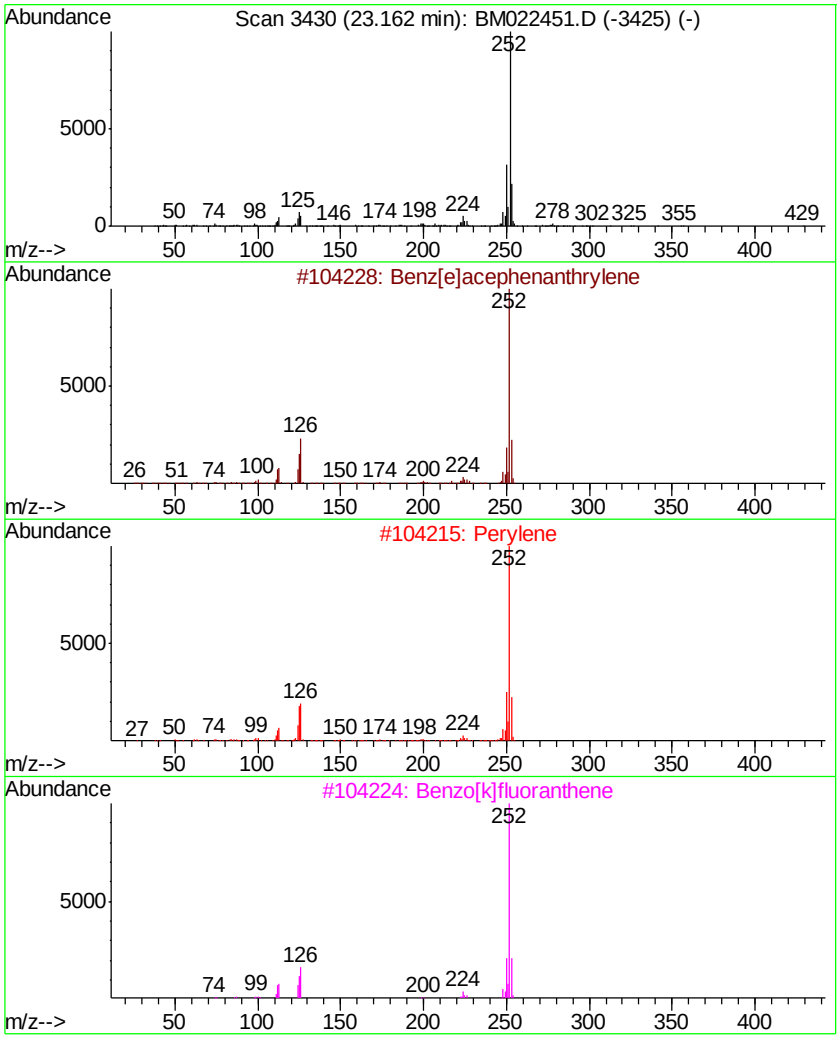
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

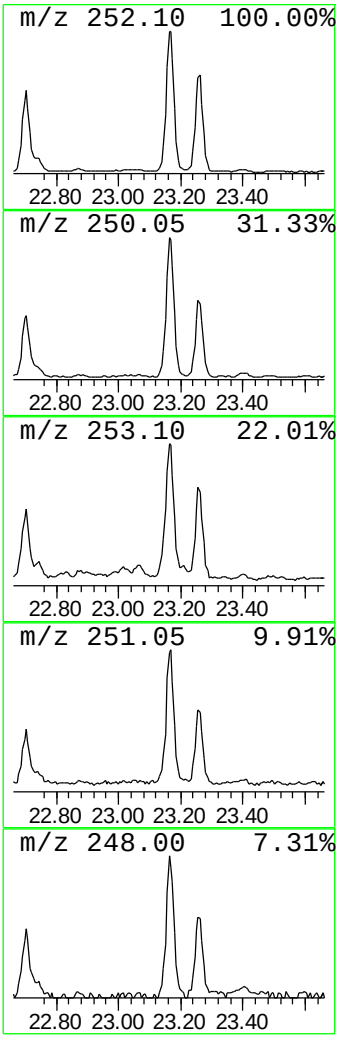
****

Peak Number 18 Perylene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.16	33.08 ng	787247	Perylene-d12	23.35

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90
2	Perylene	252	C20H12	000198-55-0	90
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	90
4	Benzo[e]pyrene	252	C20H12	000192-97-2	87
5	Benzo[a]pyrene	252	C20H12	000050-32-8	87





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM083019\
Data File : BM022451.D
Acq On : 30 Aug 2019 21:20
Operator : HP/JU
Sample : K4618-07 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : SB-4-20-22

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

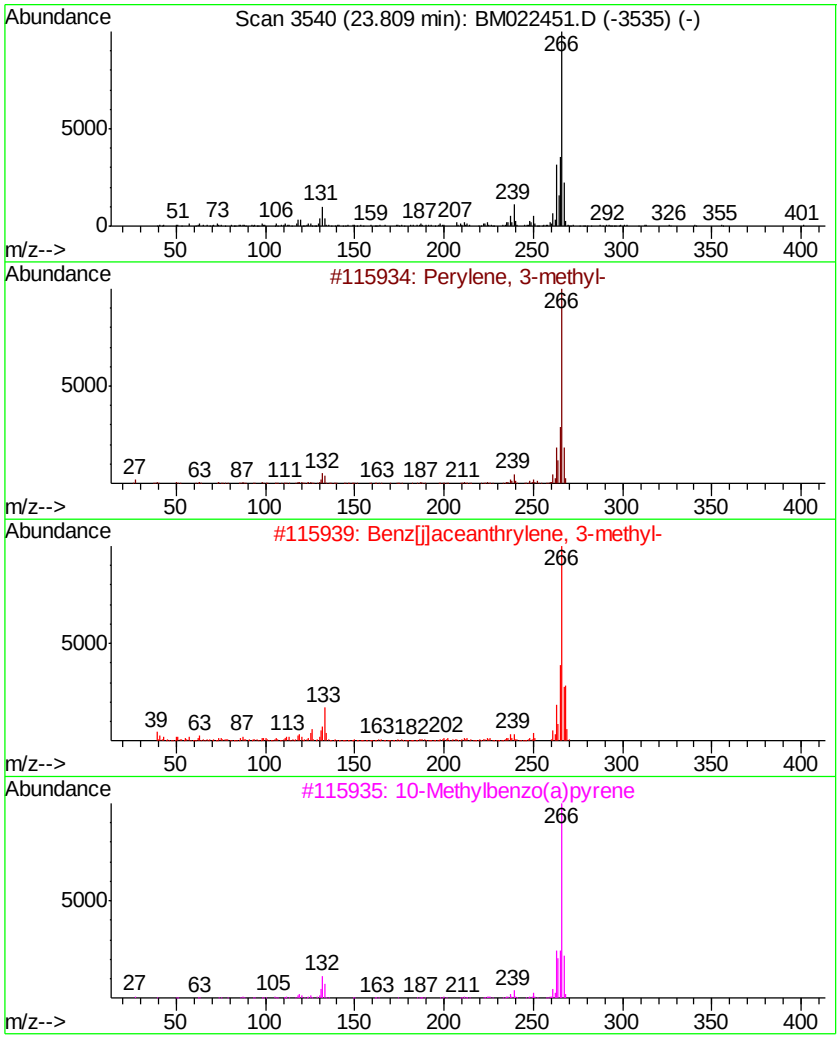
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

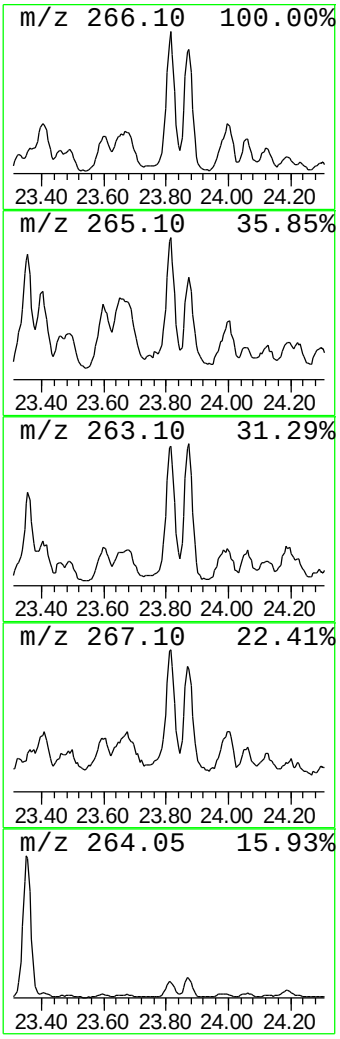
****

Peak Number 19 Perylene, 3-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.81	19.52 ng	464569	Perylene-d12	23.35

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Perylene, 3-methyl-	266	C21H14	024471-47-4	93
2	Benz[j]aceanthrylene, 3-methyl-	266	C21H14	003343-10-0	90
3	10-Methylbenzo(a)pyrene	266	C21H14	063104-32-5	76
4	4,5-Dihydro-3H-dinaphtho[2,1-c:1...	295	C22H17N	1000297-99-2	64
5	11H-Indeno[2,1-a]phenanthrene	266	C21H14	000220-97-3	53





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM083019\
Data File : BM022451.D
Acq On : 30 Aug 2019 21:20
Operator : HP/JU
Sample : K4618-07 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : SB-4-20-22

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

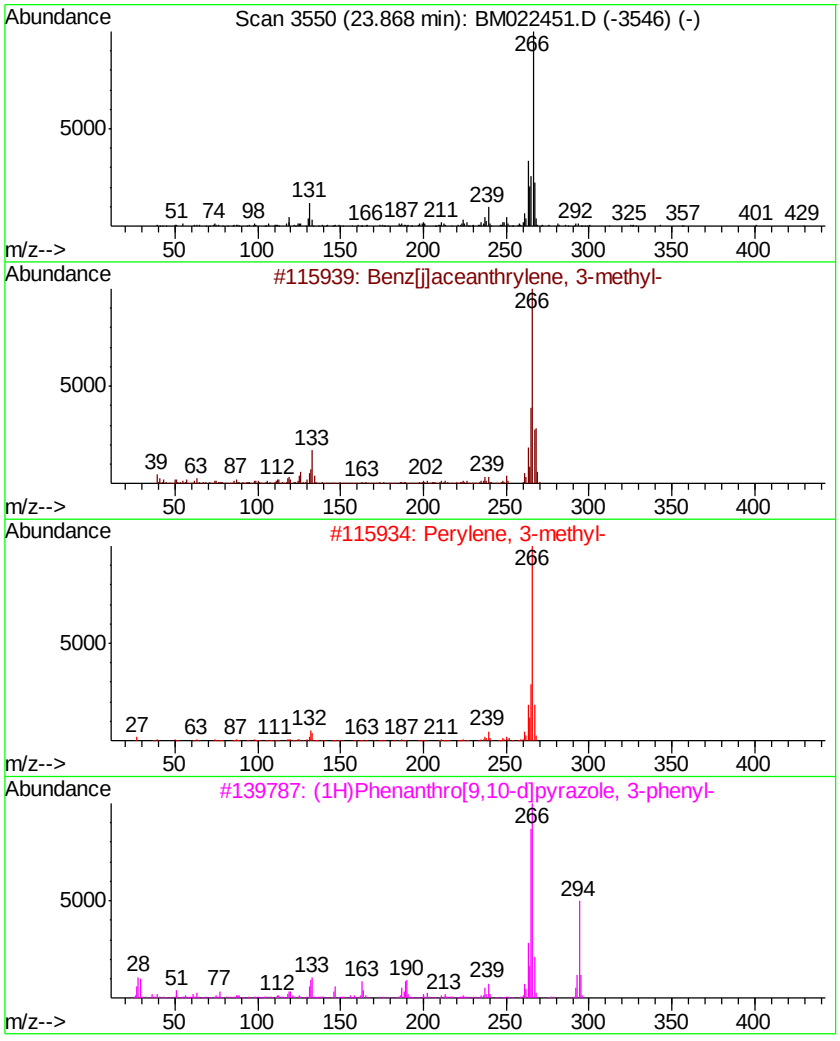
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

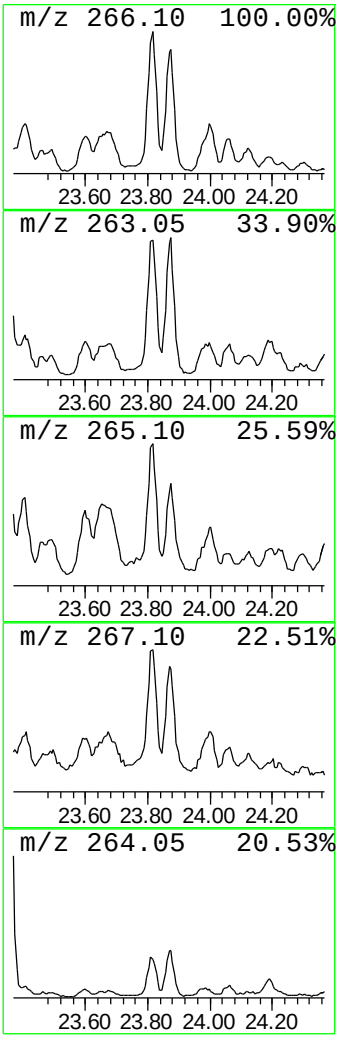
****

Peak Number 20 10-Methylbenzo(a)pyrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.87	19.26 ng	458376	Perylene-d12	23.35

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz[j]aceanthrylene, 3-methyl-	266	C21H14	003343-10-0	86
2	Perylene, 3-methyl-	266	C21H14	024471-47-4	76
3	(1H)Phenanthro[9,10-d]pyrazole, ...	294	C21H14N2	037944-54-0	72
4	10-Methylbenzo(a)pyrene	266	C21H14	063104-32-5	70
5	5-Hydroxy-4-methoxy-6H-indolo[3,...	266	C15H10N2O3	018110-86-6	53





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM083019\
Data File : BM022451.D
Acq On : 30 Aug 2019 21:20
Operator : HP/JU
Sample : K4618-07 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : SB-4-20-22

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
1H-Cyclopropa[l]p...	17.83	2.7	ng	27387	4	16.95	201151	20.0
Anthracene, 9-met...	17.87	3.3	ng	32645	4	16.95	201151	20.0
Phenanthrene, 3,6...	18.63	2.1	ng	21085	4	16.95	201151	20.0
di-p-Tolylacetylene	18.75	3.7	ng	36841	4	16.95	201151	20.0
unknown19.02	19.02	3.4	ng	34078	4	16.95	201151	20.0
Pyrene, 1-methyl-	20.05	3.0	ng	148697	5	21.17	1005510	20.0
Pyrene, 1,3-dimet...	20.53	3.6	ng	180435	5	21.17	1005510	20.0
Benzo[b]naphtho[2...	21.28	2.1	ng	107180	5	21.17	1005510	20.0
Chrysene, 6-methyl-	21.65	3.0	ng	150990	5	21.17	1005510	20.0
Benz[a]anthracene...	21.71	21.4	ng	1075110	5	21.17	1005510	20.0
Benz[a]anthracene...	21.76	9.3	ng	466171	5	21.17	1005510	20.0
Fluorene, 9-(2-py...	22.00	2.2	ng	111130	5	21.17	1005510	20.0
Benzo[c]phenanthr...	22.20	4.9	ng	248130	5	21.17	1005510	20.0
Benz(a)anthracene...	22.29	7.5	ng	179074	6	23.35	475935	20.0
unknown22.46	22.46	5.5	ng	129908	6	23.35	475935	20.0
9,10-Dihydro-8-me...	22.53	14.3	ng	341007	6	23.35	475935	20.0
unknown22.65	22.65	3.4	ng	81474	6	23.35	475935	20.0
Perylene	23.16	33.1	ng	787247	6	23.35	475935	20.0
Perylene, 3-methyl-	23.81	19.5	ng	464569	6	23.35	475935	20.0
10-Methylbenzo(a)...	23.87	19.3	ng	458376	6	23.35	475935	20.0