LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM081916\
Data File : BM007231.D
Acq On : 19 Aug 2016 11:30
Operator : UM/SJ
Sample : H4445-10
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : E5N29

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % 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:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM081116.M
Title : SVOA CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.022	69	74	83	rVB2	83145	120977	1.52%	0.126%
2	6.969	738	745	754	rBV	631755	1061190	13.33%	1.107%
3	7.134	765	773	781	rBV	462596	742849	9.33%	0.775%
4	7.334	800	807	815	rBV	642984	1032776	12.98%	1.077%
5	7.804	880	887	894	rBV	950596	1576265	19.81%	1.644%
6	8.498	997	1005	1014	rBV	781490	1291515	16.23%	1.347%
7	8.951	1076	1082	1091	rBV	563227	954722	12.00%	0.996%
8	9.675	1197	1205	1216	rBV	425852	747464	9.39%	0.780%
9	10.204	1288	1295	1305	rBV	780513	1367774	17.19%	1.427%
10	10.586	1351	1360	1366	rBV	1271025	2154064	27.07%	2.247%
11	10.722	1376	1383	1397	rBV	560935	1045428	13.14%	1.091%
12	13.839	1903	1913	1917	rVV	1453388	2072837	26.04%	2.162%
13	13.886	1917	1921	1930	rVB	528277	783857	9.85%	0.818%
14	14.121	1955	1961	1978	rBV2	1607778	2833673	35.60%	2.956%
15	14.433	2003	2014	2021	rVV2	1779672	2795667	35.13%	2.916%
16	14.627	2041	2047	2058	rBV	584078	999025	12.55%	1.042%
17	14.833	2078	2082	2088	rVB	57170	97588	1.23%	0.102%
18	15.427	2176	2183	2188	rBV	2089092	3160089	39.71%	3.296%
19	15.545	2197	2203	2212	rBV	333717	503451	6.33%	0.525%
20	15.774	2235	2242	2248	rBV3	42129	83974	1.06%	0.088%
21	15.915	2260	2266	2275	rVB4	50468	128699	1.62%	0.134%
22	16.168	2301	2309	2314	rBV	223190	471028	5.92%	0.491%
23	16.715	2394	2402	2406	rBV5	67209	149153	1.87%	0.156%
24	16.833	2417	2422	2428	rVV	68541	107527	1.35%	0.112%
25	16.909	2430	2435	2437	rVV2	53008	99525	1.25%	0.104%
26	16.933	2437	2439	2446	rVV3	86661	168597	2.12%	0.176%
27	16.992	2446	2449	2459	rVB4	78859	140766	1.77%	0.147%
28	17.174	2474	2480	2484	rBV2	2325401	3380076	42.47%	3.526%
29	17.215	2484	2487	2492	rVV	600870	848543	10.66%	0.885%
30	17.274	2492	2497	2501	rVV2	2555930	3736973	46.95%	3.898%
31	17.303	2501	2502	2508	rVV	347492	385231	4.84%	0.402%
32	17.362	2508	2512	2517	rVB4	49624	83193	1.05%	0.087%
33	17.580	2544	2549	2552	rBV	83299	132947	1.67%	0.139%
34	17.880	2594	2600	2607	rVB	1862496	2504974	31.47%	2.613%

LSC Area Percent Report

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Acq On : 19 Aug 2016 11:30
Operator : UM/SJ
Sample : H4445-10
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : E5N29

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % 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:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM081116.M
Title : SVOA CALIBRATION

35	18.062	2625	2631	2634	rBV2	188376	389205	4.89%	0.406%
36	18.098	2634	2637	2642	rVB	200622	281817	3.54%	0.294%
37	18.180	2647	2651	2656	rVV	124094	176155	2.21%	0.184%
38	18.245	2656	2662	2666	rVV2	215777	437995	5.50%	0.457%
39	18.280	2666	2668	2674	rVB	114608	134379	1.69%	0.140%
40	18.550	2710	2714	2718	rBV	129507	177959	2.24%	0.186%
41	18.592	2718	2721	2727	rVB	75836	105013	1.32%	0.110%
42	18.850	2762	2765	2767	rVV	69297	82758	1.04%	0.086%
43	18.886	2768	2771	2775	rVB2	71206	87932	1.10%	0.092%
44	18.968	2780	2785	2789	rBV2	191367	333060	4.18%	0.347%
45	19.109	2805	2809	2816	rBV	213382	367399	4.62%	0.383%
46	19.233	2825	2830	2837	rVB	3571245	4731926	59.46%	4.936%
47	19.345	2844	2849	2852	rBV6	78921	148684	1.87%	0.155%
48	19.380	2852	2855	2859	rVB	107317	128671	1.62%	0.134%
49	19.568	2881	2887	2890	rBV2	3689267	5980413	75.14%	6.238%
50	19.597	2890	2892	2900	rVV	3170406	3613487	45.40%	3.769%
51	19.668	2900	2904	2911	rVB2	210082	365063	4.59%	0.381%
52	19.774	2919	2922	2927	rVB	216926	281068	3.53%	0.293%
53	19.833	2929	2932	2938	rVB3	108852	169538	2.13%	0.177%
54	19.927	2942	2948	2954	rBV2	290771	734706	9.23%	0.766%
55	20.056	2965	2970	2972	rBV3	251541	430961	5.41%	0.450%
56	20.092	2973	2976	2982	rVB	528439	755704	9.50%	0.788%
57	20.192	2989	2993	2996	rBV	282029	343372	4.31%	0.358%
58	20.250	2997	3003	3007	rVV2	431467	785686	9.87%	0.820%
59	20.286	3007	3009	3013	rVB2	127158	160024	2.01%	0.167%
60	20.392	3023	3027	3030	rBV	233185	312198	3.92%	0.326%
61	20.439	3032	3035	3038	rVB2	201285	274077	3.44%	0.286%
62	20.839	3099	3103	3108	rVB	525758	667638	8.39%	0.696%
63	21.044	3135	3138	3141	rBV	322880	393448	4.94%	0.410%
64	21.080	3141	3144	3149	rVV3	520885	846712	10.64%	0.883%
65	21.133	3150	3153	3161	rVB2	404509	607791	7.64%	0.634%
66	21.356	3184	3191	3195	rBV2	4048556	7958744	100.00%	8.302%
67	21.397	3195	3198	3207	rVB	1647828	2231079	28.03%	2.327%
68	21.515	3215	3218	3224	rBV	255453	361977	4.55%	0.378%
69	22.950	3456	3462	3467	rBV	1828829	4336131	54.48%	4.523%
70	23.127	3488	3492	3498	rVB	376559	628370	7.90%	0.655%
71	23.438	3540	3545	3549	rBV	882466	1714733	21.55%	1.789%

LSC Area Percent Report

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Acq On : 19 Aug 2016 11:30
Operator : UM/SJ
Sample : H4445-10
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : E5N29

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % 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:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM081116.M
Title : SVOA CALIBRATION

72	23.491	3549	3554	3558	rVV2	2193906	4179567	52.52%	4.360%
73	23.532	3558	3561	3569	rVB	1345947	2362908	29.69%	2.465%
74	23.632	3572	3578	3584	rBV	1939144	3797710	47.72%	3.961%
75	24.938	3793	3800	3815	rVB2	2354773	6227820	78.25%	6.496%

Sum of corrected areas: 95866295

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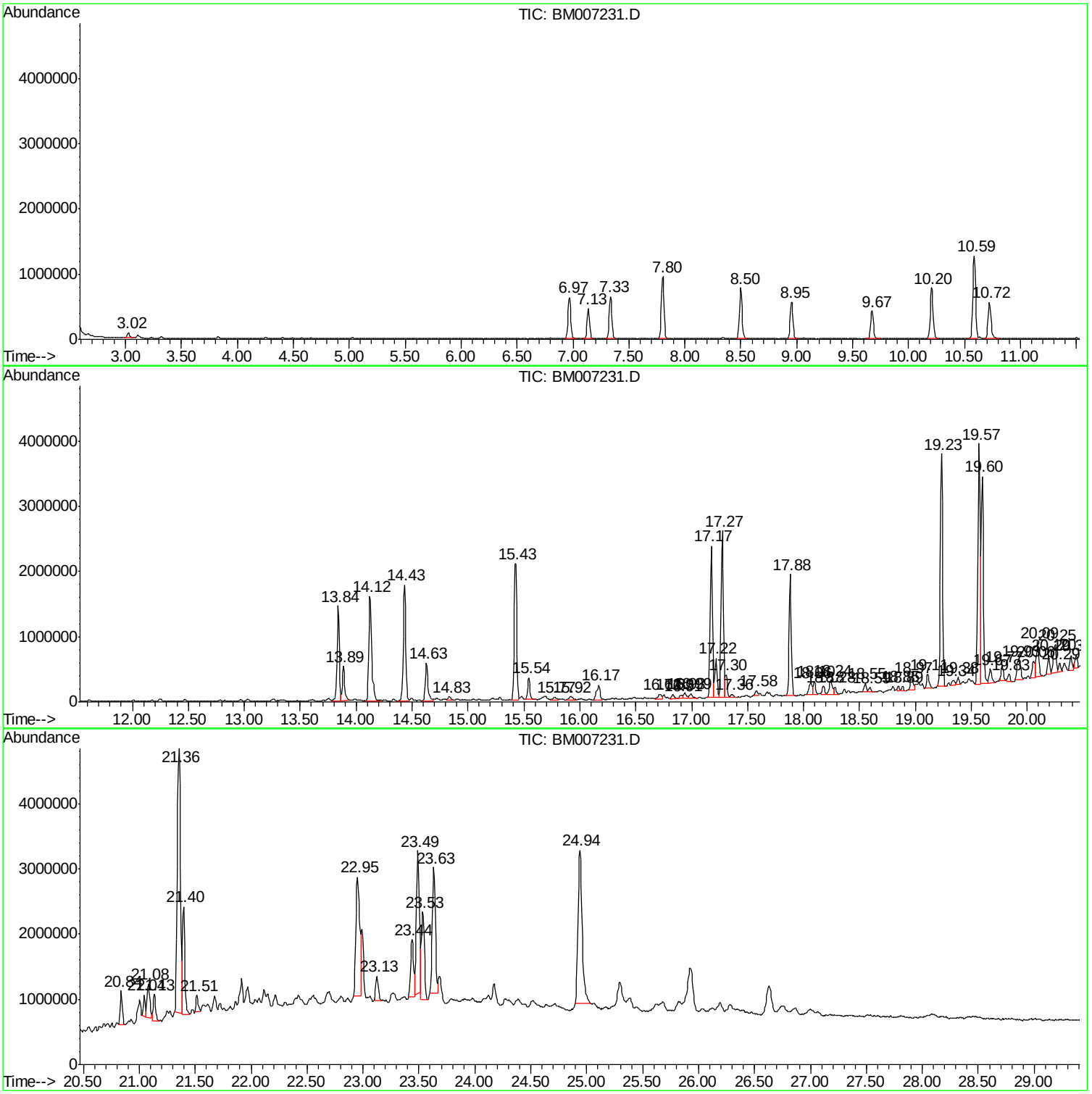
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
E5N29

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM081116.M
Quant Title : SVOA CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM081916\
Data File : BM007231.D
Acq On : 19 Aug 2016 11:30
Operator : UM/SJ
Sample : H4445-10
Misc :
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Instrument : BNA_M
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Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM081116.M
Quant Title : SVOA CALIBRATION

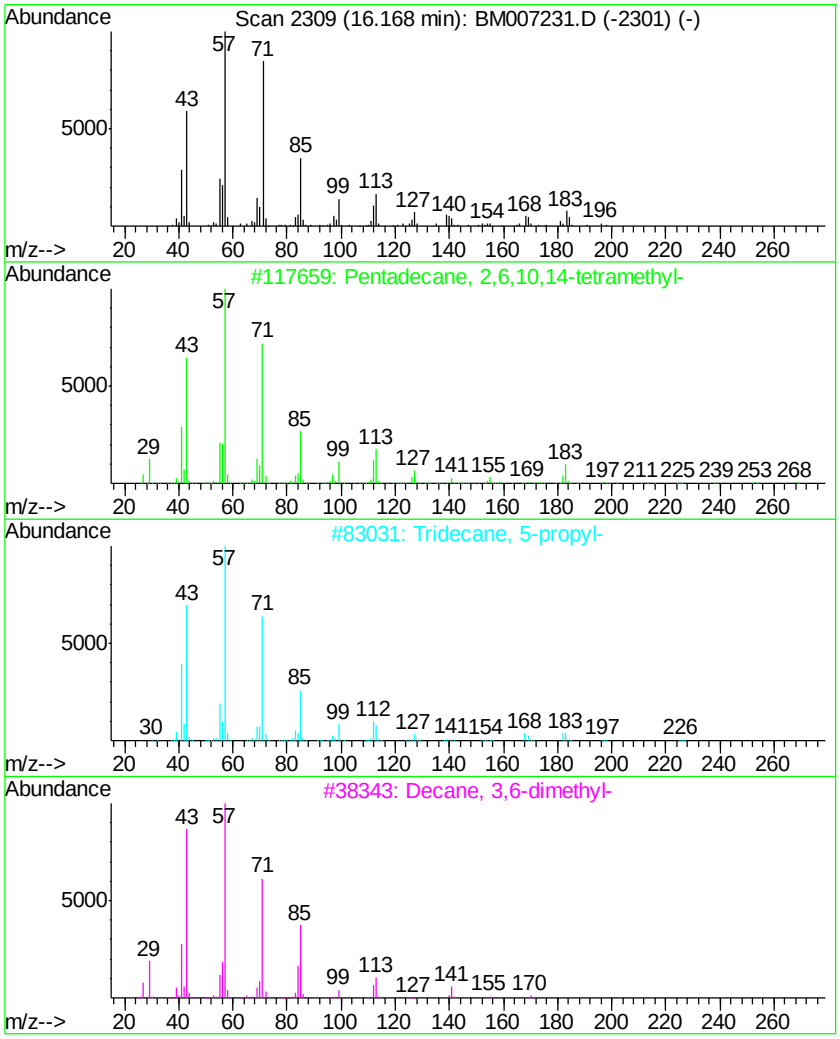
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

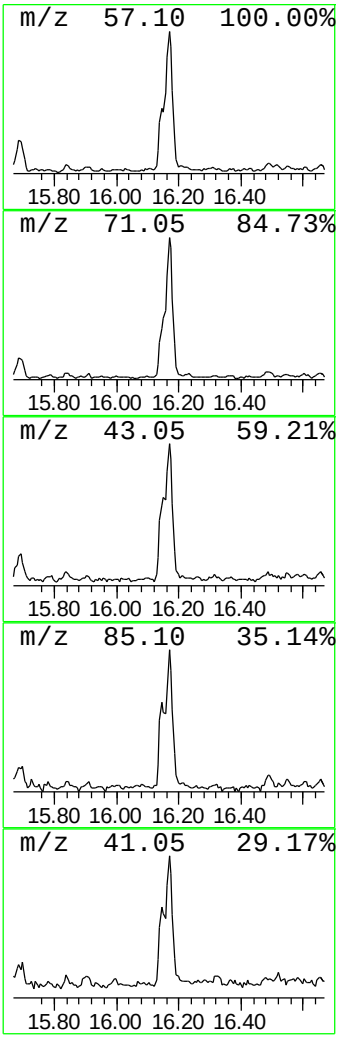
****

Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.17	2.79 ng/ul	471028	Phenanthrene-d10	17.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentadecane, 2,6,10,14-tetramethyl-	268	C19H40	001921-70-6	91
2	Tridecane, 5-propyl-	226	C16H34	055045-11-9	86
3	Decane, 3,6-dimethyl-	170	C12H26	017312-53-7	86
4	Octane, 2-methyl-	128	C9H20	003221-61-2	74
5	Sulfurous acid, 2-ethylhexyl hep...	432	C25H52O3S	1000309-20-0	72





Data Path : Z:\HPCHEM1\BNA_M\DATA\BM081916\
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Acq On : 19 Aug 2016 11:30
Operator : UM/SJ
Sample : H4445-10
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : E5N29

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM081116.M
Quant Title : SVOA CALIBRATION

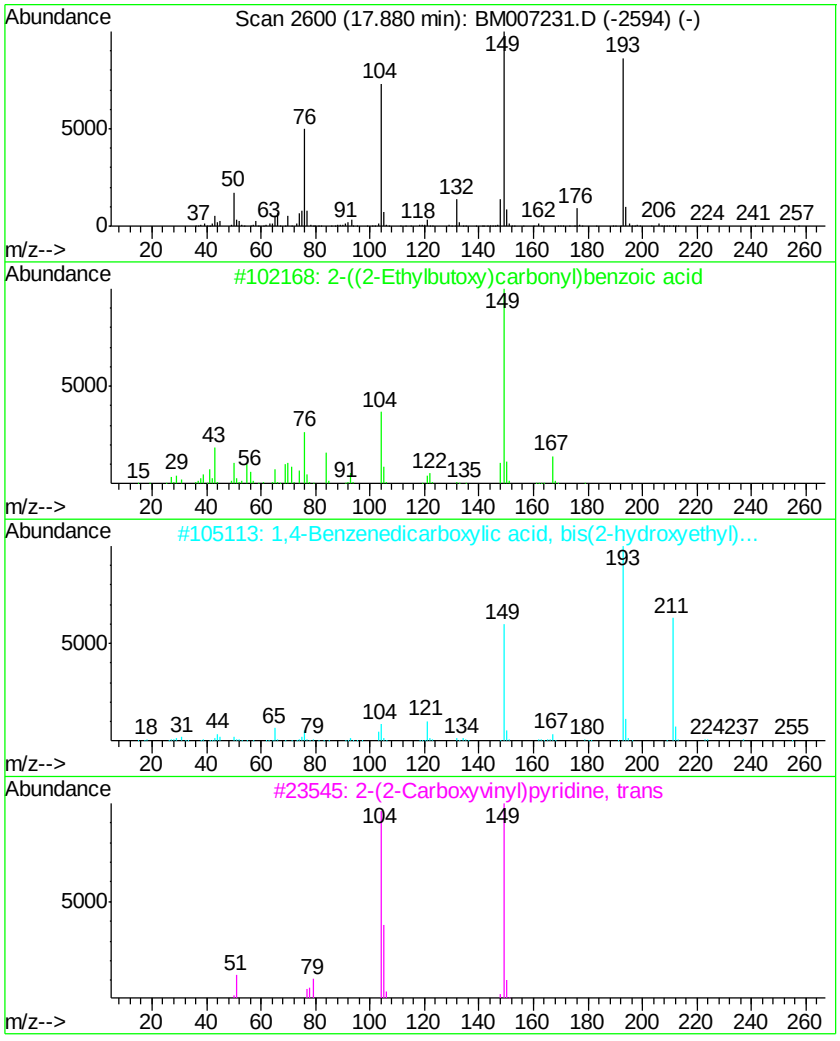
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

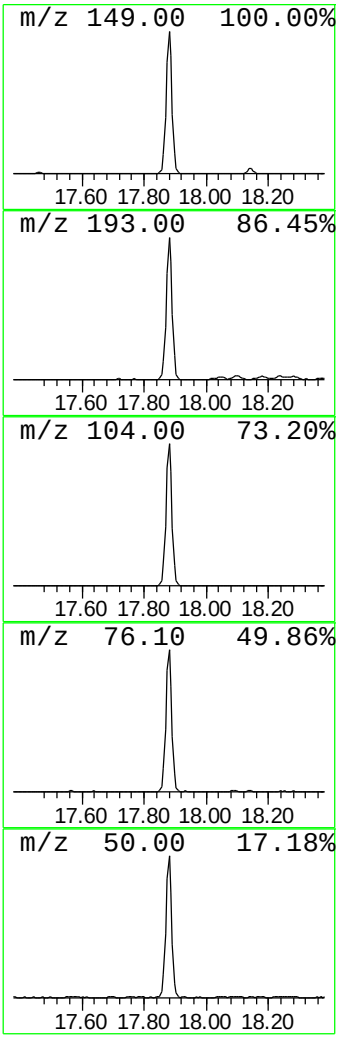
****

Peak Number 2 unknown-01 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.88	14.82 ng/ul	2504970	Phenanthrene-d10	17.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-((2-Ethylbutoxy)carbonyl)benzo...	250	C14H18O4	1000373-62-8	40
2	1,4-Benzenedicarboxylic acid, bi...	254	C12H14O6	000959-26-2	38
3	2-(2-Carboxyvinyl)pyridine, trans	149	C8H7NO2	007340-22-9	32
4	Ninhydrin	178	C9H6O4	000485-47-2	27
5	2-((Prop-2-ynyloxy)carbonyl)benz...	204	C11H8O4	1000373-53-6	25





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM081916\
Data File : BM007231.D
Acq On : 19 Aug 2016 11:30
Operator : UM/SJ
Sample : H4445-10
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : E5N29

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM081116.M
Quant Title : SVOA CALIBRATION

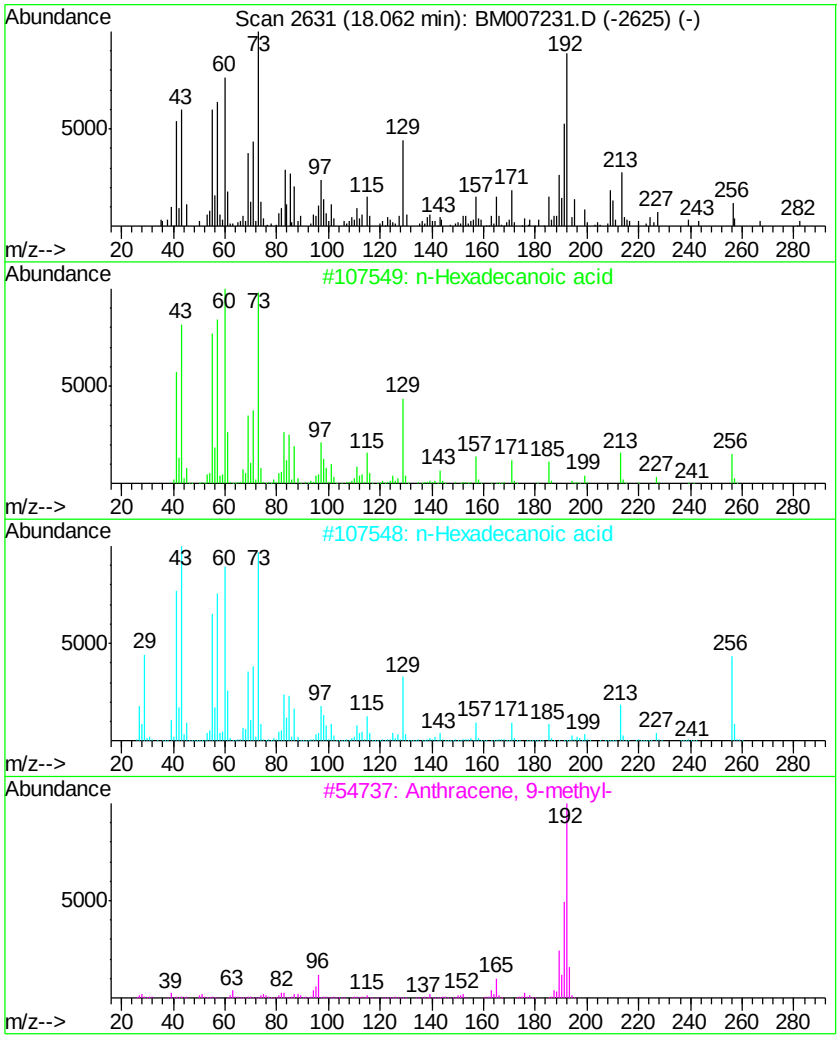
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

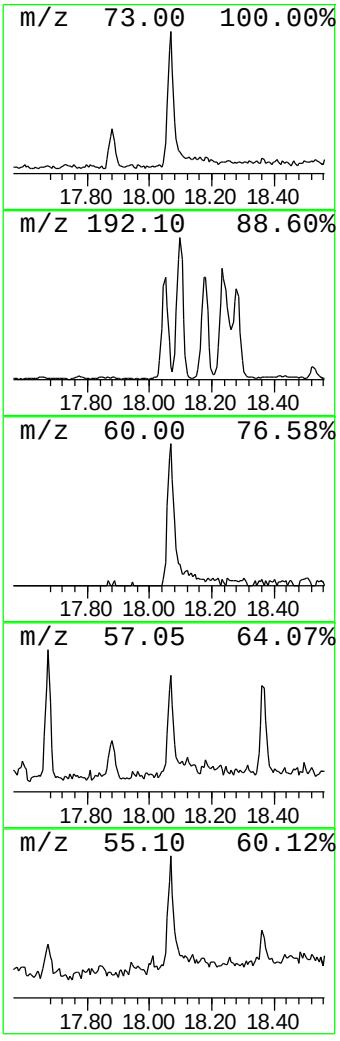
****

Peak Number 3 n-Hexadecanoic acid Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.06	2.30 ng/ul	389205	Phenanthrene-d10	17.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	96
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	96
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	74
4	Tridecanoic acid	214	C13H26O2	000638-53-9	46
5	Pentadecanoic acid	242	C15H30O2	001002-84-2	45





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Sample : H4445-10
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : E5N29

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM081116.M
Quant Title : SVOA CALIBRATION

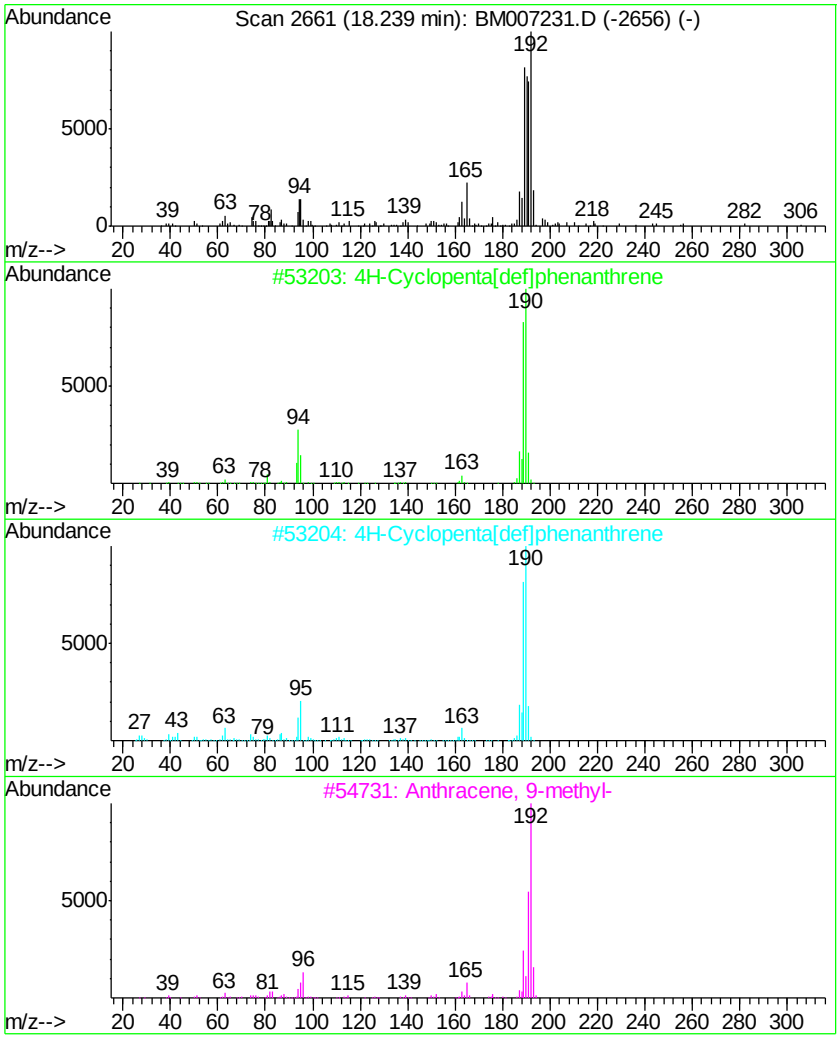
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

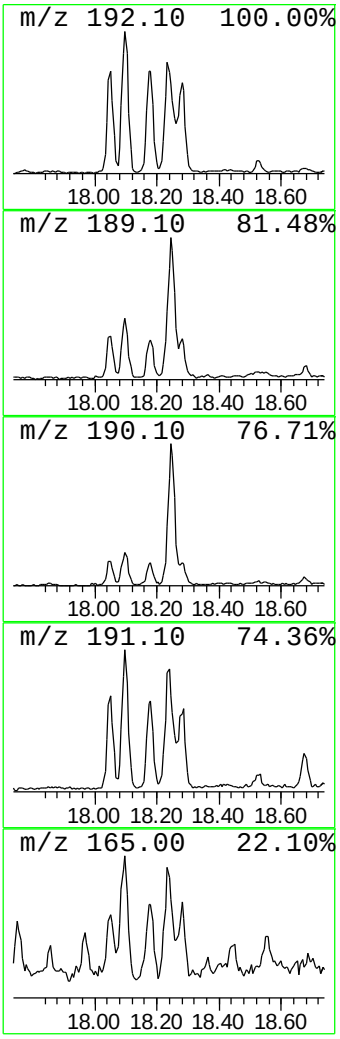
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.24	2.59 ng/ul	437995	Phenanthrene-d10	17.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	64
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	50
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	46
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	42
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	42





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Data File : BM007231.D
Acq On : 19 Aug 2016 11:30
Operator : UM/SJ
Sample : H4445-10
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : E5N29

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM081116.M
Quant Title : SVOA CALIBRATION

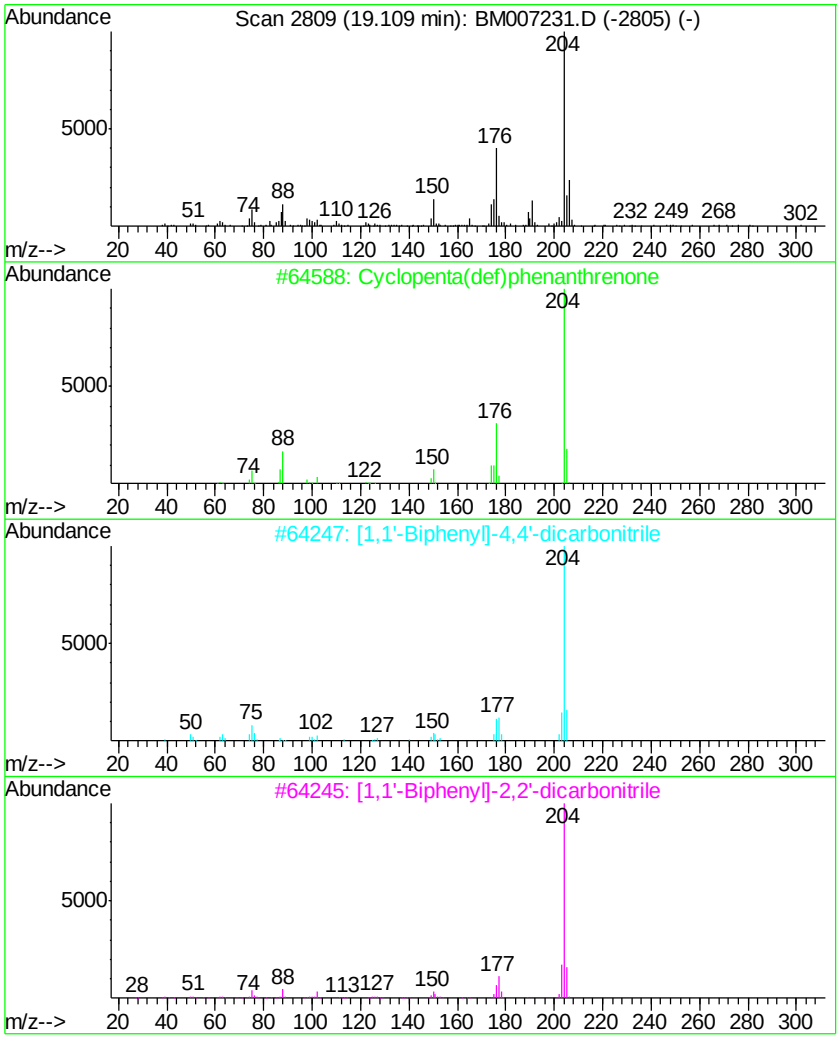
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

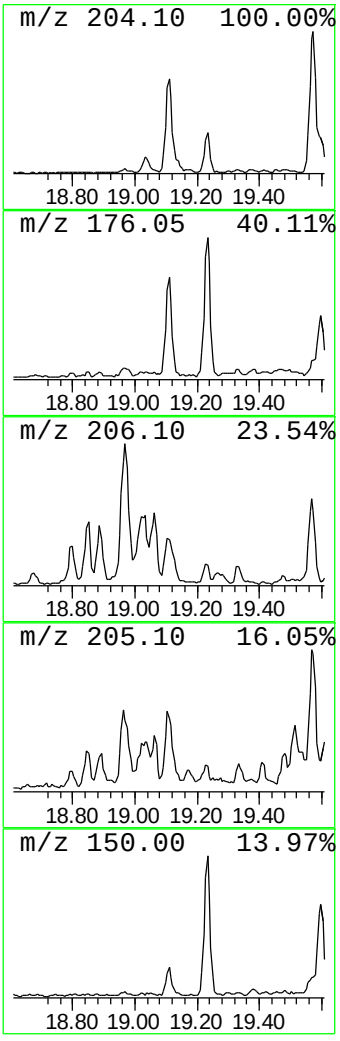
****

Peak Number 5 Cyclopenta(def)phenanthrenone Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.11	2.17 ng/ul	367399	Phenanthrene-d10	17.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	90
2	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	50
3	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	43
4	[1,1'-Biphenyl]-2-ol, 5-chloro-	204	C12H9ClO	000607-12-5	38
5	Tricyclo[5.1.0.0(2,4)]octane, 5-...	247	C17H29N	1000063-59-3	38





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Data File : BM007231.D
Acq On : 19 Aug 2016 11:30
Operator : UM/SJ
Sample : H4445-10
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : E5N29

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM081116.M
Quant Title : SVOA CALIBRATION

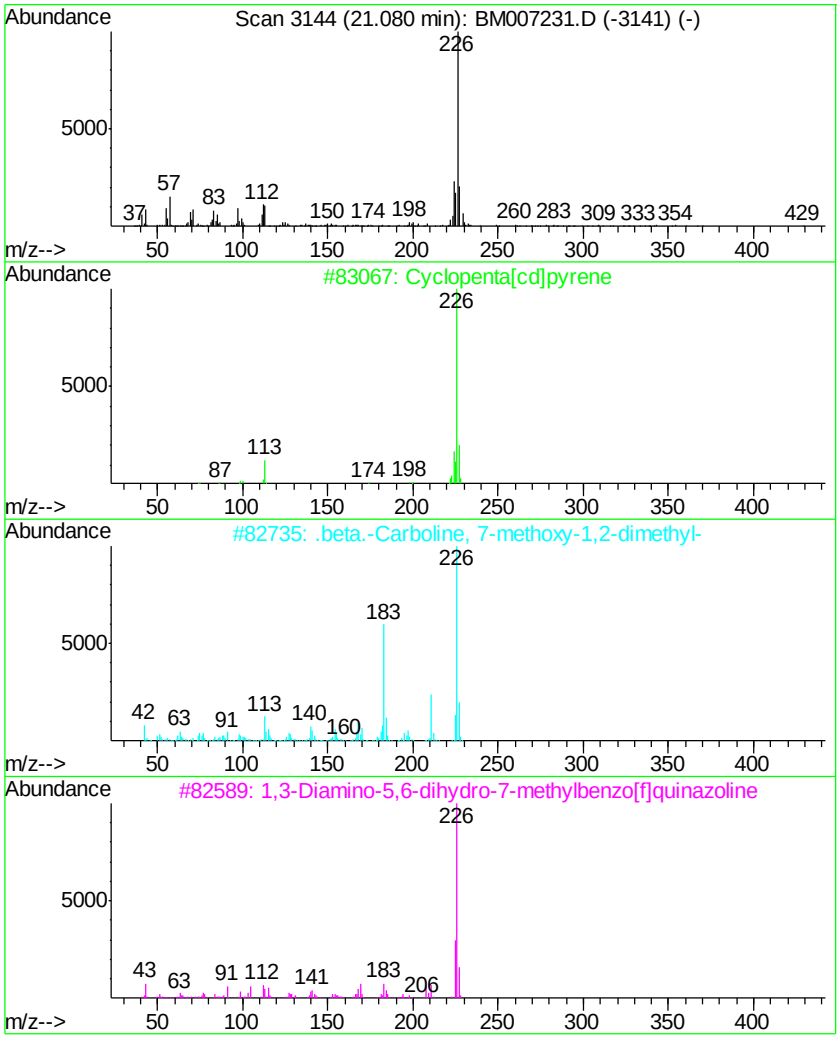
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

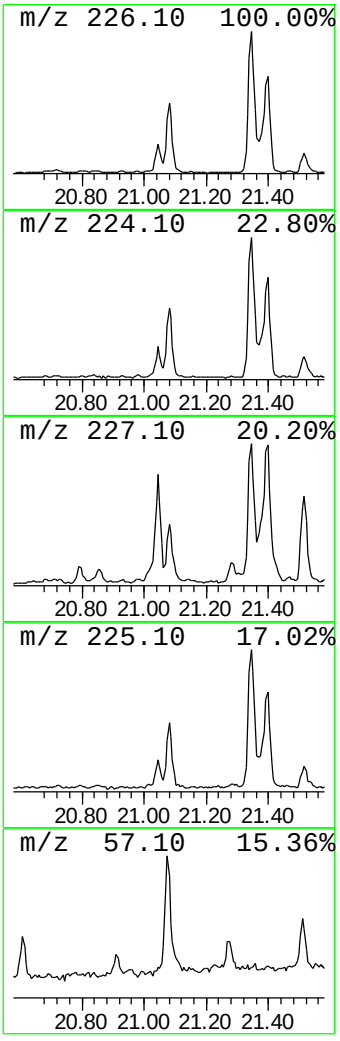
****

Peak Number 6 Cyclopenta[cd]pyrene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.08	2.13 ng/ul	846712	Chrysene-d12	21.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta[cd]pyrene	226	C18H10	027208-37-3	70
2	.beta.-Carboline, 7-methoxy-1,2-...	226	C14H14N2O	006519-18-2	58
3	1,3-Diamino-5,6-dihydro-7-methyl...	226	C13H14N4	037436-37-6	53
4	Benzo[ghi]fluoranthene	226	C18H10	000203-12-3	43
5	3-Chloro-.alpha.-di-n-heptylamin...	606	C39H59ClN2O	1000251-74-9	43





Data Path : Z:\HPCHEM1\BNA_M\DATA\BM081916\
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Sample : H4445-10
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : E5N29

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM081116.M
Quant Title : SVOA CALIBRATION

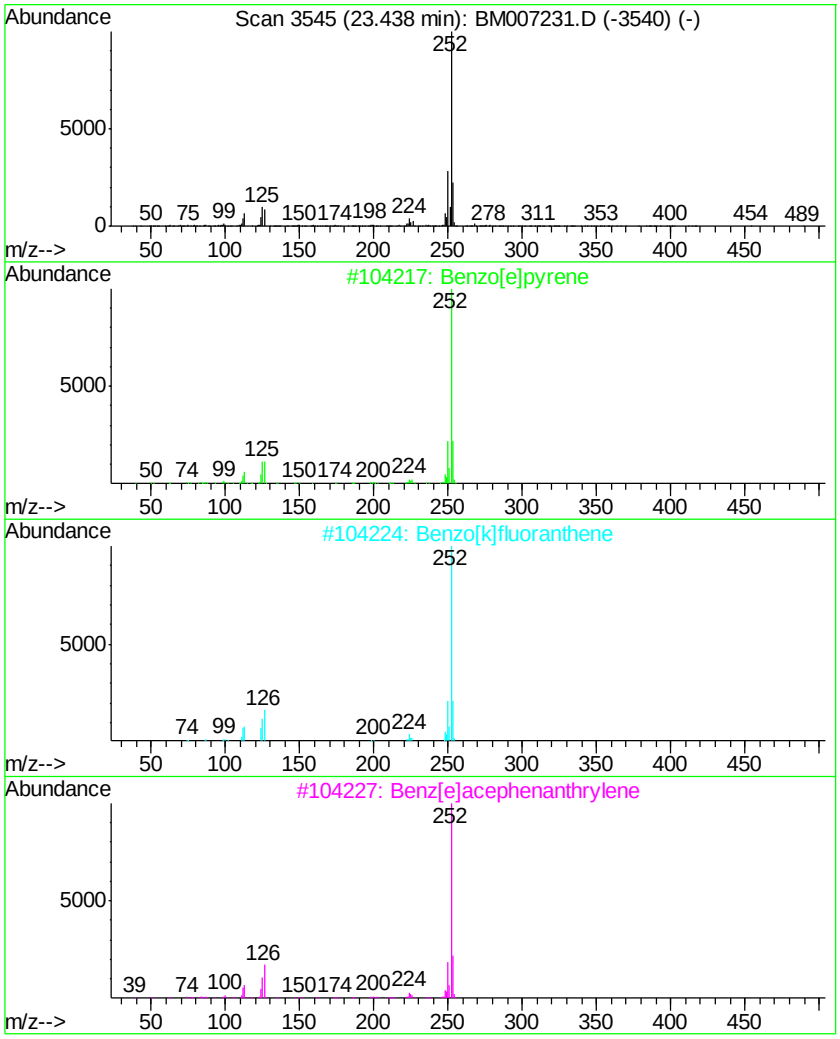
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

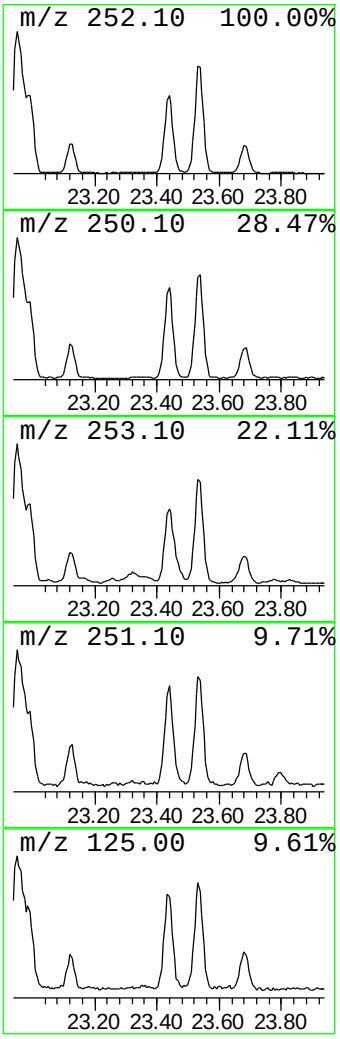
****

Peak Number 8 Benzo[e]pyrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.44	9.03 ng/ul	1714730	Perylene-d12	23.63

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	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
4	Benzo[a]pyrene	252	C20H12	000050-32-8	91
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	86





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM081916\
Data File : BM007231.D
Acq On : 19 Aug 2016 11:30
Operator : UM/SJ
Sample : H4445-10
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : E5N29

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM081116.M
Quant Title : SVOA CALIBRATION

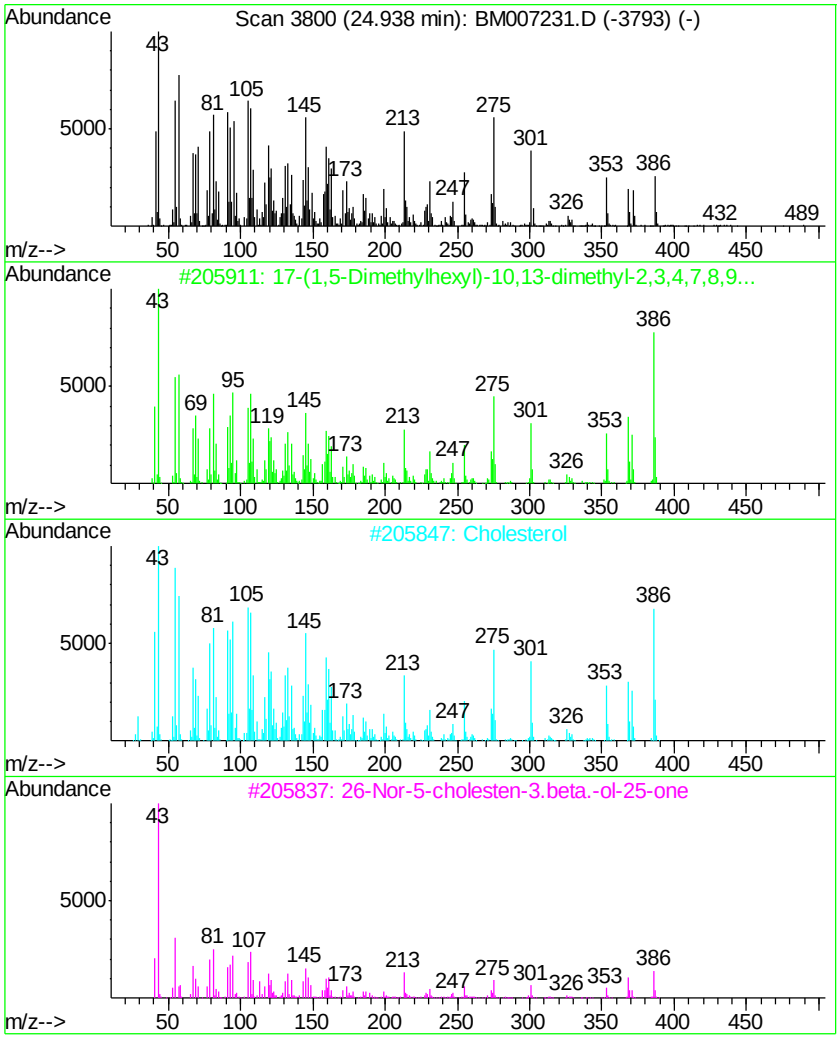
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

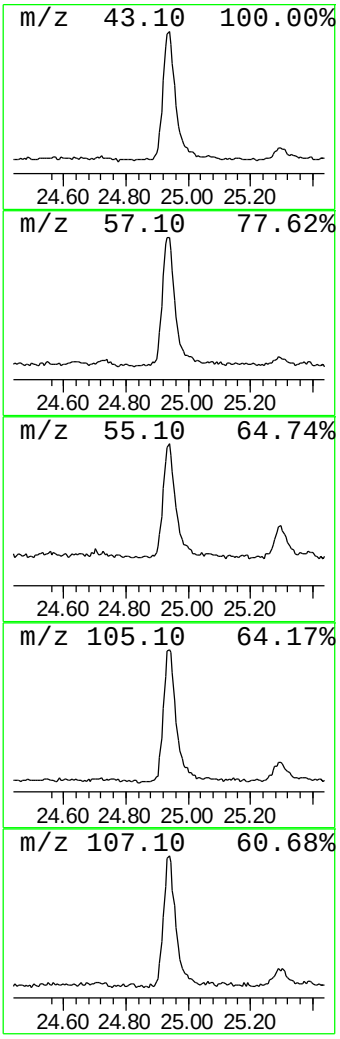
****

Peak Number 9 17-(1,5-Dimethylhexyl)-10,1... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.94	32.80 ng/ul	6227820	Perylene-d12	23.63

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	17-(1,5-Dimethylhexyl)-10,13-dim...	386	C27H46O	1000210-38-4	99
2	Cholesterol	386	C27H46O	000057-88-5	99
3	26-Nor-5-cholesten-3.beta.-ol-25...	386	C26H42O2	007494-34-0	99
4	26-Nor-5-cholesten-3.beta.-ol-25...	386	C26H42O2	007494-34-0	99
5	Cholesterol	386	C27H46O	000057-88-5	96





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM081916\
Data File : BM007231.D
Acq On : 19 Aug 2016 11:30
Operator : UM/SJ
Sample : H4445-10
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : E5N29

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM081116.M
Quant Title : SVOA 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
(DEL) Alkane: Str...	16.17	2.8	ng/ul	471028	4	17.17	3380080	20.0
unknown-01	17.88	14.8	ng/ul	2504970	4	17.17	3380080	20.0
n-Hexadecanoic acid	18.06	2.3	ng/ul	389205	4	17.17	3380080	20.0
4H-Cyclopenta[def...	18.24	2.6	ng/ul	437995	4	17.17	3380080	20.0
Cyclopenta(def)ph...	19.11	2.2	ng/ul	367399	4	17.17	3380080	20.0
Cyclopenta[cd]pyrene	21.08	2.1	ng/ul	846712	5	21.36	7958740	20.0
Benzo[e]pyrene	23.44	9.0	ng/ul	1714730	6	23.63	3797710	20.0
17-(1,5-Dimethylh...	24.94	32.8	ng/ul	6227820	6	23.63	3797710	20.0