LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG021916\
Data File : BG021000.D
Acq On : 20 Feb 2016 9:21
Operator : SJ/UM
Sample : H1520-01
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : 40055(0-2)

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:\HPCHEM1\BNA_G\METHODS\8270-BG021116.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	3.239	63	68	78	rBV	24144	41670	3.34%	0.327%
2	5.312	414	421	432	rBV	65318	100892	8.09%	0.791%
3	5.794	496	503	515	rBV	330061	514551	41.26%	4.034%
4	7.410	770	778	789	rBV	348811	601887	48.26%	4.718%
5	7.785	834	842	855	rBV	367054	623371	49.99%	4.887%
6	8.261	916	923	930	rVB	60052	102204	8.20%	0.801%
7	8.584	971	978	991	rVB	240269	402175	32.25%	3.153%
8	9.430	1113	1122	1132	rBV	215232	375075	30.08%	2.940%
9	9.524	1132	1138	1144	rVB2	9353	15601	1.25%	0.122%
10	11.087	1395	1404	1409	rBV	104483	187407	15.03%	1.469%
11	13.501	1807	1815	1823	rBV	627198	928224	74.43%	7.277%
12	14.312	1947	1953	1959	rBV	148457	208724	16.74%	1.636%
13	14.741	2018	2026	2030	rBV	19454	25077	2.01%	0.197%
14	14.870	2042	2048	2054	rBV2	195637	305588	24.50%	2.396%
15	14.935	2054	2059	2066	rVB	41018	62492	5.01%	0.490%
16	15.264	2107	2115	2124	rVB	18946	35642	2.86%	0.279%
17	15.681	2183	2186	2192	rVB	24791	33326	2.67%	0.261%
18	15.910	2219	2225	2234	rVB	43299	65517	5.25%	0.514%
19	16.074	2248	2253	2259	rVB5	10168	18766	1.50%	0.147%
20	16.350	2294	2300	2312	rVB3	506603	757482	60.74%	5.938%
21	16.544	2328	2333	2342	rBV	25498	48125	3.86%	0.377%
22	17.331	2461	2467	2473	rBV2	18237	26239	2.10%	0.206%
23	17.425	2479	2483	2489	rVB	14811	21122	1.69%	0.166%
24	17.608	2505	2514	2517	rBV	217059	332043	26.63%	2.603%
25	17.649	2517	2521	2528	rVV	329546	487686	39.11%	3.823%
26	17.737	2531	2536	2542	rVB	87838	130802	10.49%	1.025%
27	18.001	2576	2581	2588	rVB	21952	35570	2.85%	0.279%
28	18.477	2657	2662	2666	rBV	22223	34469	2.76%	0.270%
29	18.524	2666	2670	2676	rVB	32465	46187	3.70%	0.362%
30	18.600	2679	2683	2688	rVB	14004	19507	1.56%	0.153%
31	18.671	2688	2695	2699	rBV2	48084	84060	6.74%	0.659%
32	18.964	2737	2745	2748	rBV	17551	23556	1.89%	0.185%
33	19.370	2809	2814	2821	rBV2	8915	16140	1.29%	0.127%
34	19.640	2854	2860	2866	rBV	456981	619506	49.68%	4.856%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG021916\
Data File : BG021000.D
Acq On : 20 Feb 2016 9:21
Operator : SJ/UM
Sample : H1520-01
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : 40055(0-2)

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:\HPCHEM1\BNA_G\METHODS\8270-BG021116.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	19.881	2894	2901	2909	rVB2	10974	20071	1.61%	0.157%
36	19.969	2909	2916	2917	rBV2	77403	109938	8.82%	0.862%
37	19.998	2917	2921	2929	rVV	333649	495489	39.73%	3.884%
38	20.063	2929	2932	2939	rVB2	13566	20632	1.65%	0.162%
39	20.186	2944	2953	2958	rVV	1006953	1247055	100.00%	9.776%
40	20.310	2968	2974	2981	rVV3	15840	39268	3.15%	0.308%
41	20.445	2990	2997	2998	rBV4	11230	16834	1.35%	0.132%
42	20.480	2999	3003	3009	rVB	64951	96520	7.74%	0.757%
43	20.580	3015	3020	3024	rBV	69783	94753	7.60%	0.743%
44	20.639	3024	3030	3033	rVV2	22964	43931	3.52%	0.344%
45	20.674	3033	3036	3040	rVV	20069	26399	2.12%	0.207%
46	20.780	3048	3054	3058	rBV3	13447	23025	1.85%	0.180%
47	20.827	3058	3062	3071	rVB3	12416	24143	1.94%	0.189%
48	21.203	3121	3126	3132	rBV6	8569	18937	1.52%	0.148%
49	21.256	3132	3135	3141	rVB3	7838	14368	1.15%	0.113%
50	21.449	3160	3168	3171	rBV	22794	40173	3.22%	0.315%
51	21.490	3171	3175	3180	rVV2	42231	71772	5.76%	0.563%
52	21.543	3180	3184	3189	rVV3	26665	50253	4.03%	0.394%
53	21.584	3189	3191	3199	rVB4	8856	15526	1.25%	0.122%
54	21.878	3228	3241	3247	rBV2	278183	765842	61.41%	6.004%
55	21.931	3247	3250	3263	rVB	142497	233733	18.74%	1.832%
56	22.096	3272	3278	3284	rVB	31998	57360	4.60%	0.450%
57	22.237	3297	3302	3308	rVB2	13161	27635	2.22%	0.217%
58	22.307	3308	3314	3321	rBV3	24907	48937	3.92%	0.384%
59	22.642	3364	3371	3376	rBV2	15021	31453	2.52%	0.247%
60	22.718	3377	3384	3390	rVB4	11606	24400	1.96%	0.191%
61	22.865	3404	3409	3414	rVB4	12140	23696	1.90%	0.186%
62	22.936	3414	3421	3423	rVV4	11679	22947	1.84%	0.180%
63	22.983	3423	3429	3436	rVB3	19995	44645	3.58%	0.350%
64	23.071	3438	3444	3451	rVB7	8348	21041	1.69%	0.165%
65	23.617	3532	3537	3542	rVB3	11307	18447	1.48%	0.145%
66	23.787	3560	3566	3575	rVB6	7525	17345	1.39%	0.136%
67	24.181	3623	3633	3641	rBV3	94443	330778	26.52%	2.593%
68	24.451	3671	3679	3687	rVB	21587	52852	4.24%	0.414%
69	24.939	3752	3762	3775	rVB2	54622	159751	12.81%	1.252%
70	25.091	3778	3788	3801	rVB	88168	245007	19.65%	1.921%
71	25.256	3805	3816	3824	rVV2	125957	372114	29.84%	2.917%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG021916\
Data File : BG021000.D
Acq On : 20 Feb 2016 9:21
Operator : SJ/UM
Sample : H1520-01
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : 40055(0-2)

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:\HPCHEM1\BNA_G\METHODS\8270-BG021116.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	25.332	3824	3829	3845	rVB4	25127	76554	6.14%	0.600%
73	26.443	4013	4018	4026	rVB6	9233	26449	2.12%	0.207%
74	29.098	4460	4470	4496	rVB4	32929	175961	14.11%	1.379%
75	29.609	4545	4557	4569	rBV6	12353	53272	4.27%	0.418%
76	30.314	4662	4677	4694	rBV3	24649	126338	10.13%	0.990%

Sum of corrected areas: 12756327

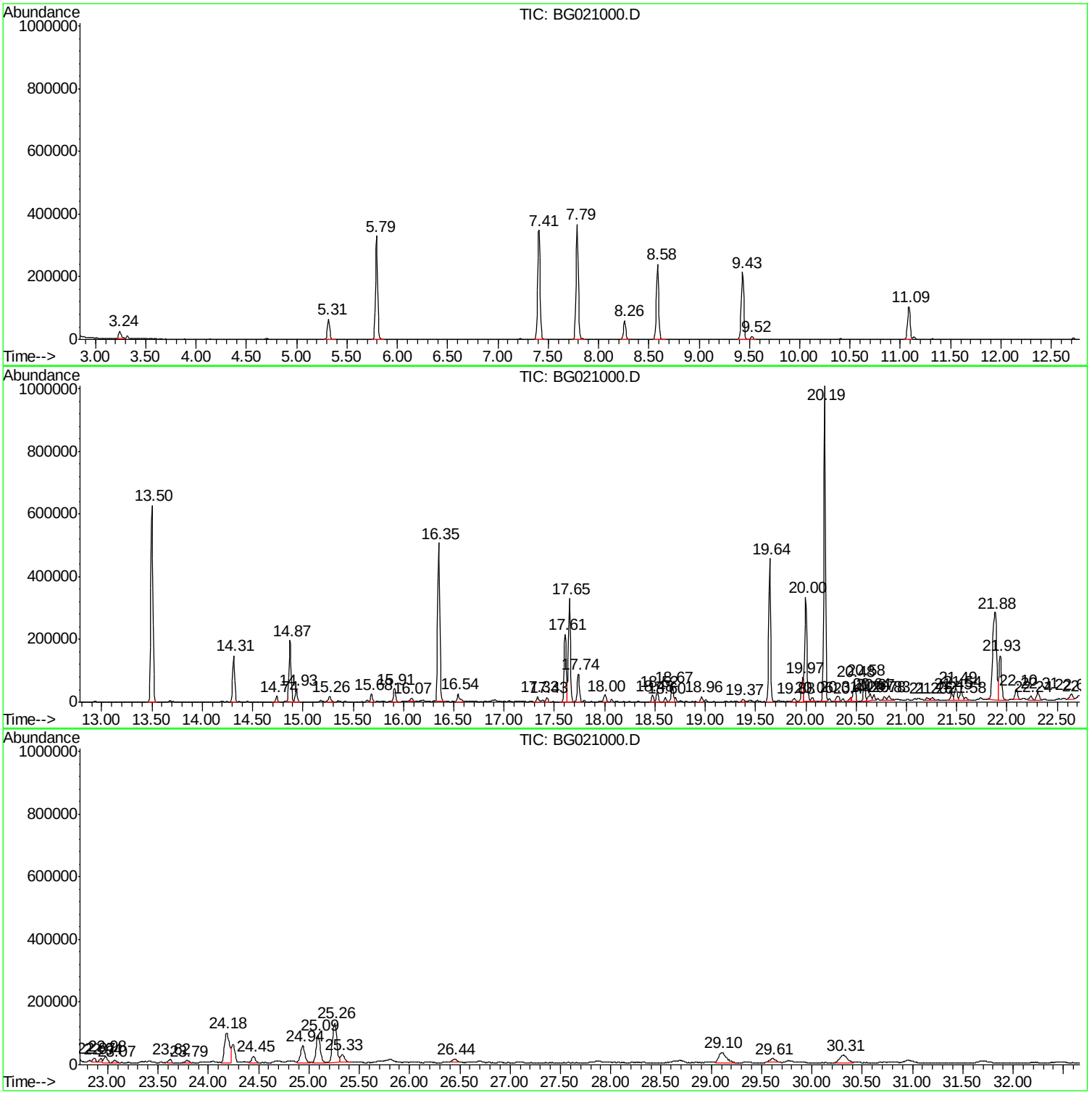
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA G\DATA\BG021916\
Data File : BG021000.D
Acq On : 20 Feb 2016 9:21
Operator : SJ/UM
Sample : H1520-01
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : 40055(0-2)

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG021116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA G\DATA\BG021916\
Data File : BG021000.D
Acq On : 20 Feb 2016 9:21
Operator : SJ/UM
Sample : H1520-01
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : 40055(0-2)

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG021116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

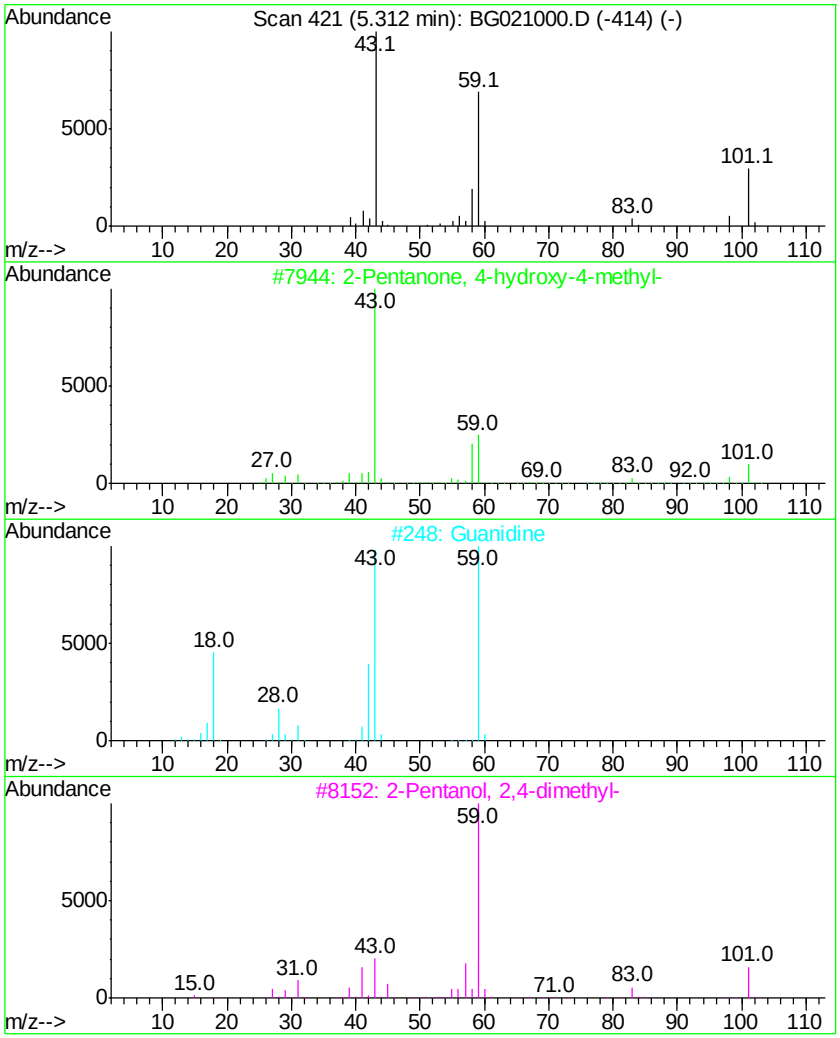
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

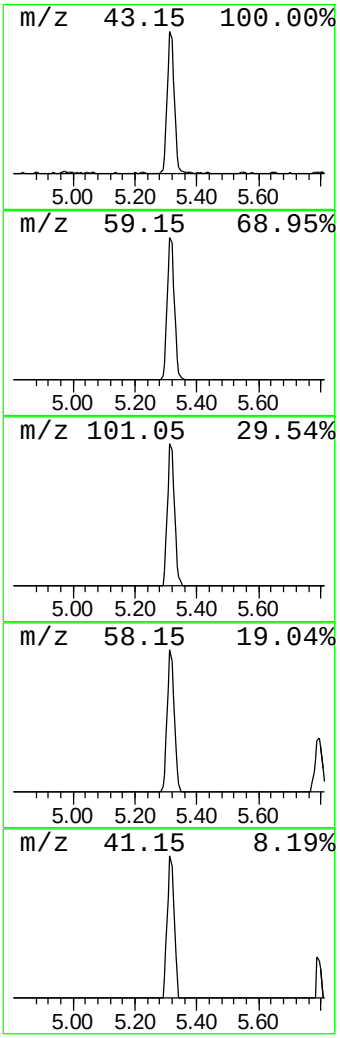
****

Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.31	19.74 ng	100892	1,4-Dichlorobenzene-d4	8.26

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	53
2	Guanidine	59	CH5N3	000113-00-8	38
3	2-Pentanol, 2,4-dimethyl-	116	C7H16O	000625-06-9	23
4	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	12
5	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG021916\
Data File : BG021000.D
Acq On : 20 Feb 2016 9:21
Operator : SJ/UM
Sample : H1520-01
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : 40055(0-2)

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG021116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

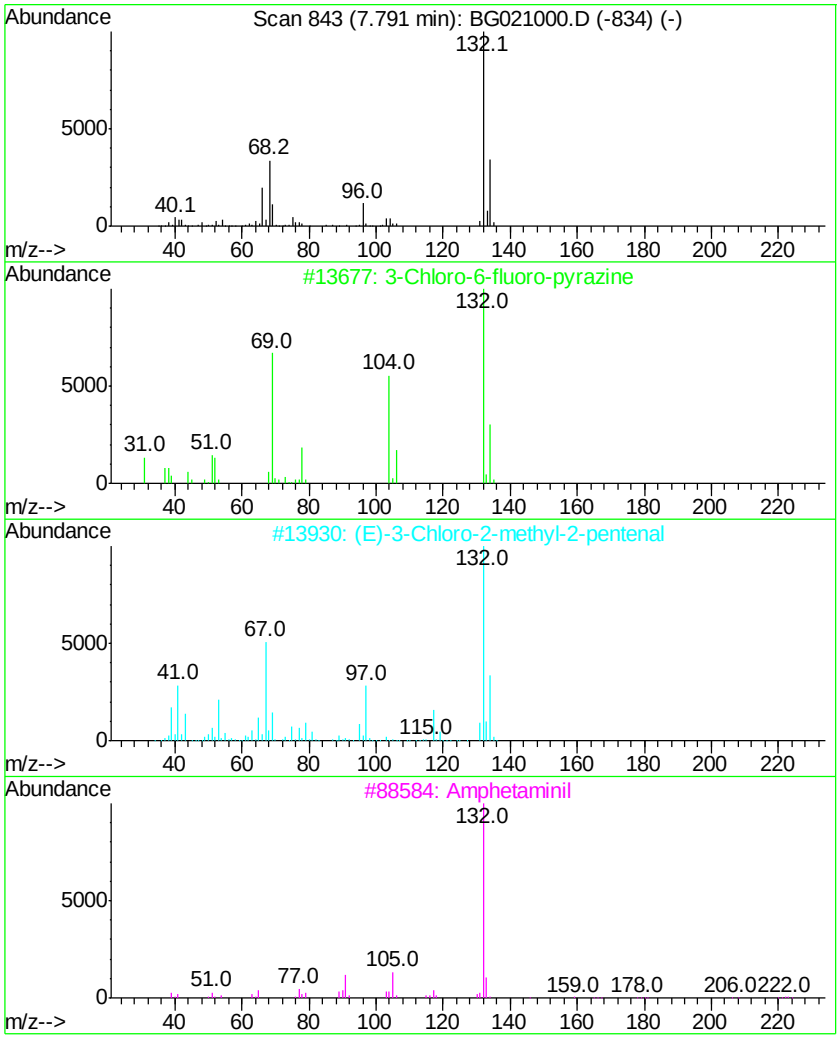
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

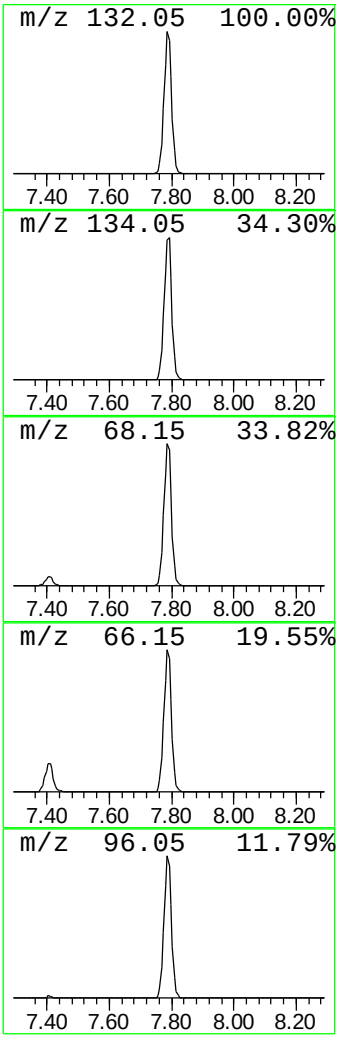
****

Peak Number 3 unknown7.79 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.79	121.99 ng	623371	1,4-Dichlorobenzene-d4	8.26

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	35
2	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	25
3	Amphetaminil	250	C17H18N2	017590-01-1	12
4	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	9
5	Xenon	132	Xe	007440-63-3	9





Data Path : Z:\HPCHEM1\BNA G\DATA\BG021916\
Data File : BG021000.D
Acq On : 20 Feb 2016 9:21
Operator : SJ/UM
Sample : H1520-01
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : 40055(0-2)

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG021116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

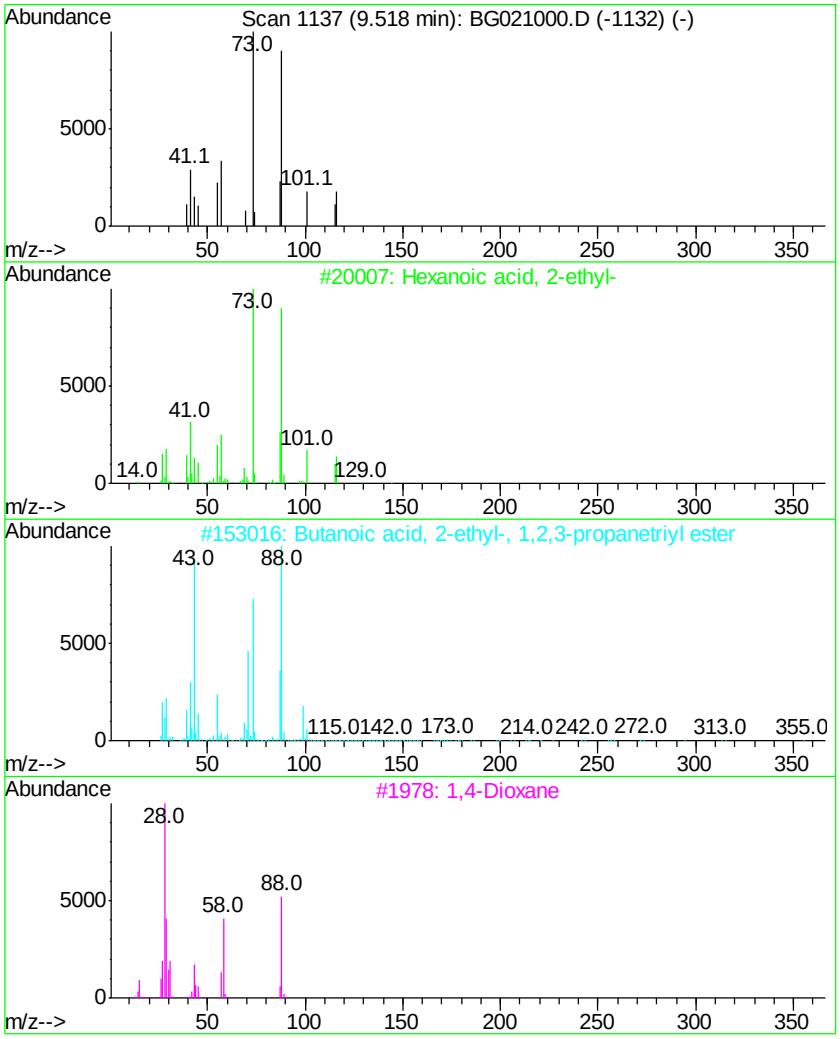
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

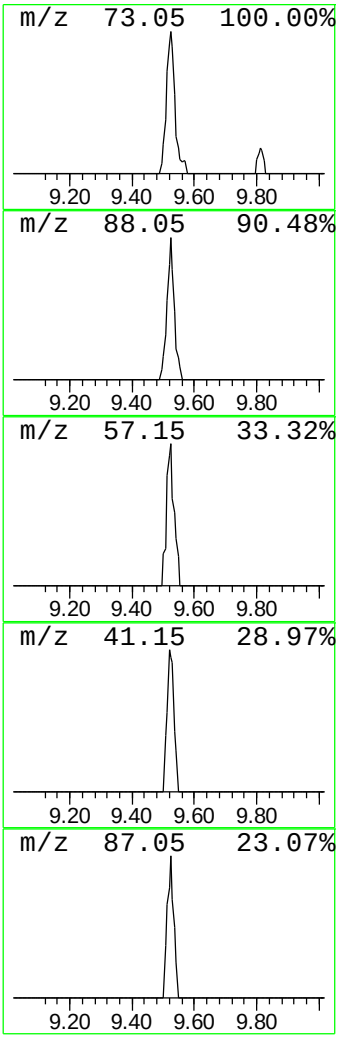
****

Peak Number 5 Hexanoic acid, 2-ethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.52	3.05 ng	15601	1,4-Dichlorobenzene-d4	8.26

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexanoic acid, 2-ethyl-	144	C8H16O2	000149-57-5	83
2	Butanoic acid, 2-ethyl-, 1,2,3-p...	386	C21H38O6	056554-54-2	38
3	1,4-Dioxane	88	C4H8O2	000123-91-1	7
4	Urea, butyl-	116	C5H12N2O	000592-31-4	5
5	Sulfide, allyl methyl	88	C4H8S	010152-76-8	5





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG021916\
Data File : BG021000.D
Acq On : 20 Feb 2016 9:21
Operator : SJ/UM
Sample : H1520-01
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : 40055(0-2)

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG021116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

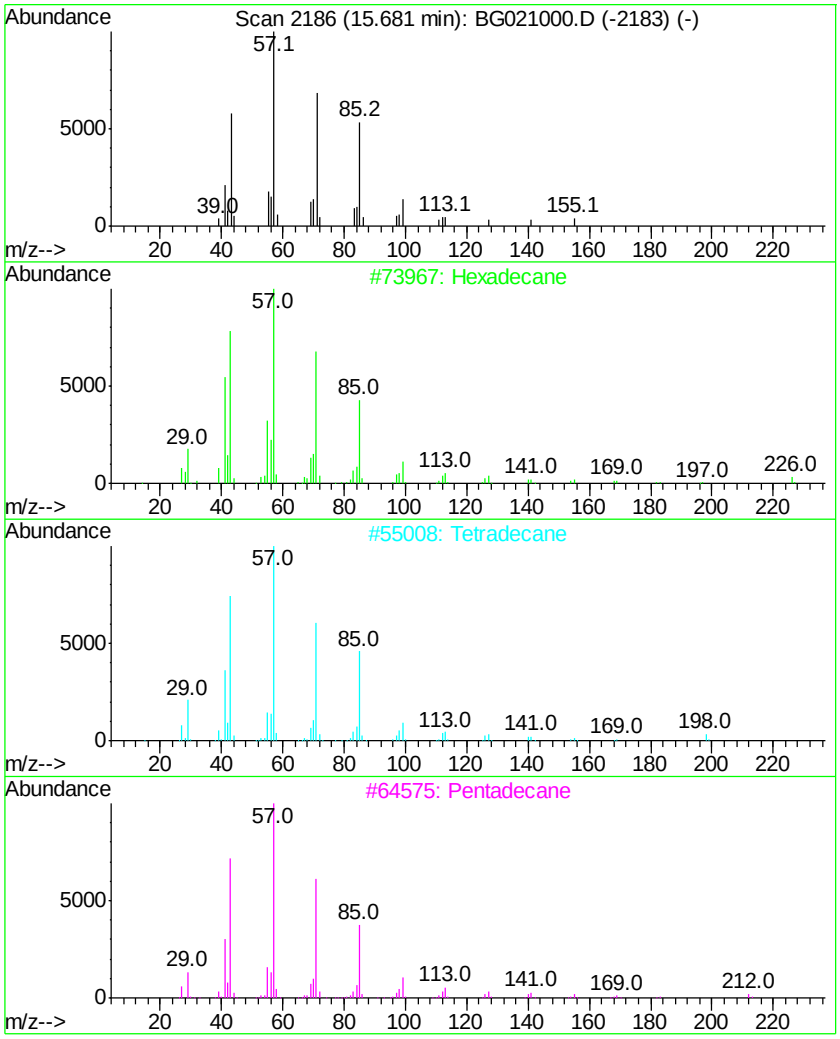
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

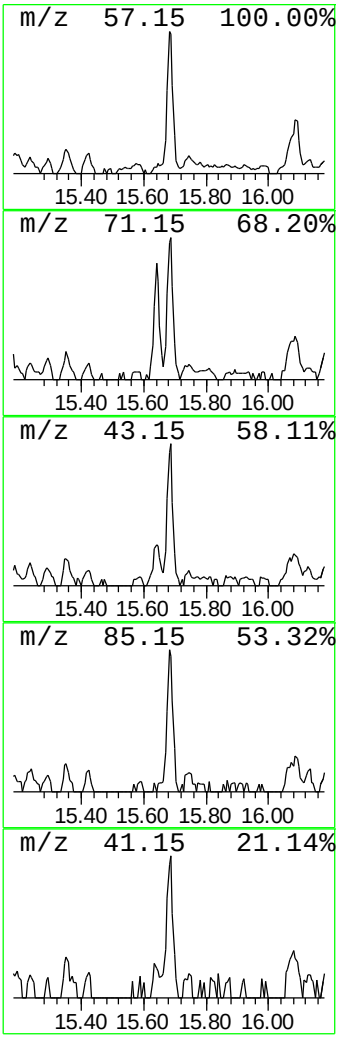
****

Peak Number 6 Hexadecane Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.68	2.18 ng	33326	Acenaphthene-d10	14.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	90
2	Tetradecane	198	C14H30	000629-59-4	90
3	Pentadecane	212	C15H32	000629-62-9	80
4	Decane, 2,3,5-trimethyl-	184	C13H28	062238-11-3	80
5	Heptadecane	240	C17H36	000629-78-7	78





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG021916\
Data File : BG021000.D
Acq On : 20 Feb 2016 9:21
Operator : SJ/UM
Sample : H1520-01
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : 40055(0-2)

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG021116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

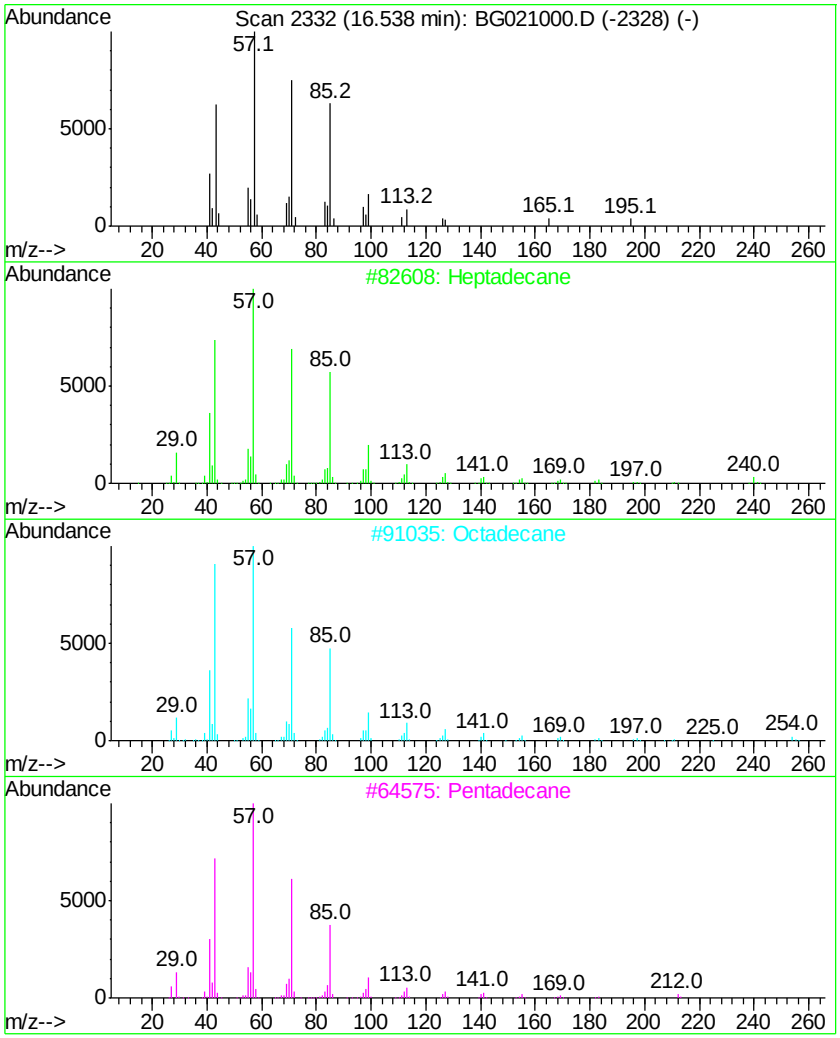
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

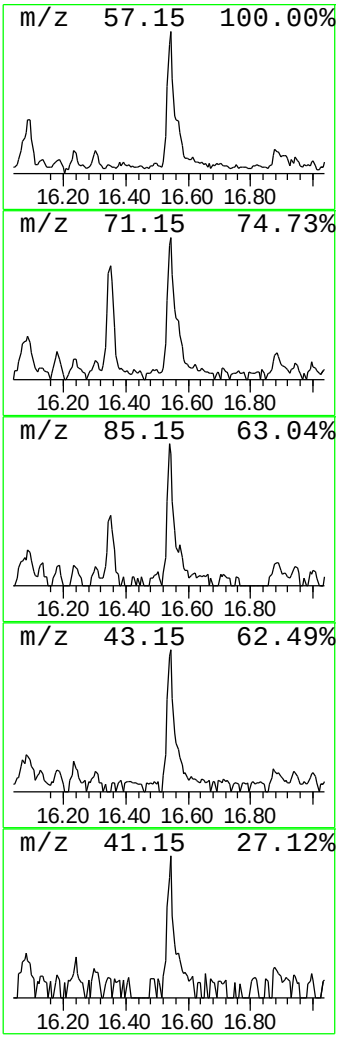
****

Peak Number 7 Heptadecane Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.54	2.90 ng	48125	Phenanthrene-d10	17.61

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecane	240	C17H36	000629-78-7	91
2	Octadecane	254	C18H38	000593-45-3	86
3	Pentadecane	212	C15H32	000629-62-9	86
4	Heneicosane	296	C21H44	000629-94-7	86
5	Heptadecane, 8-methyl-	254	C18H38	013287-23-5	80





Data Path : Z:\HPCHEM1\BNA G\DATA\BG021916\
Data File : BG021000.D
Acq On : 20 Feb 2016 9:21
Operator : SJ/UM
Sample : H1520-01
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : 40055(0-2)

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG021116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

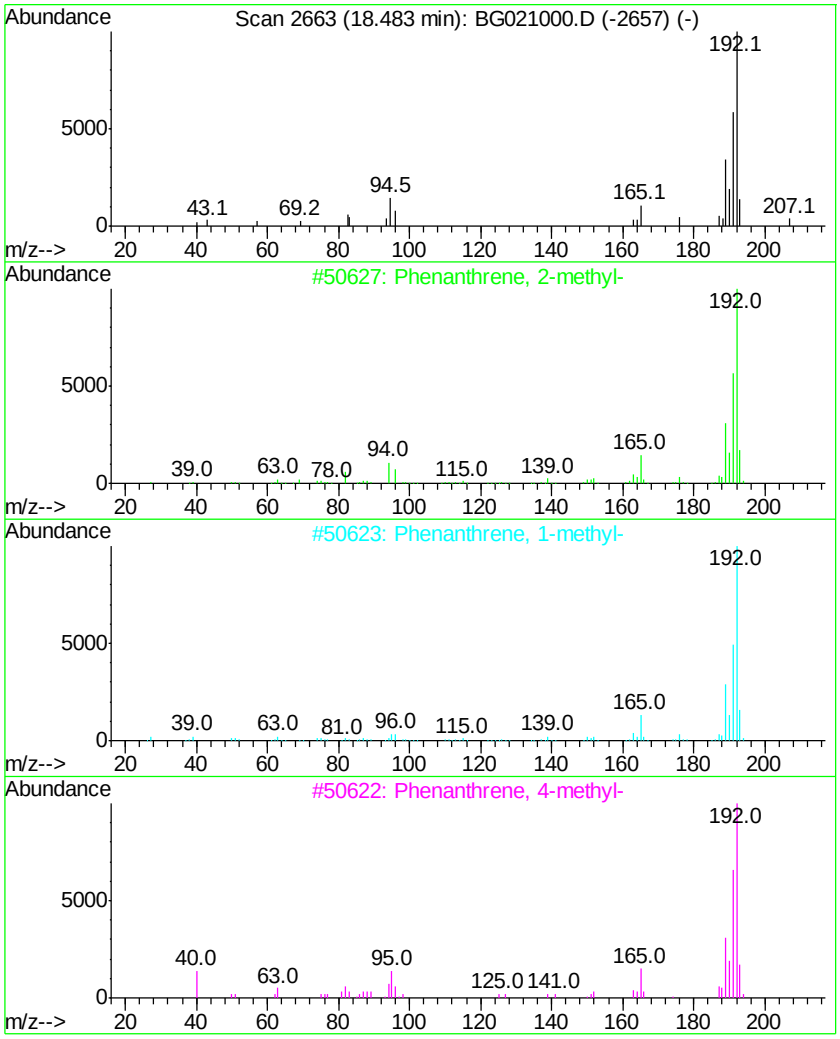
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

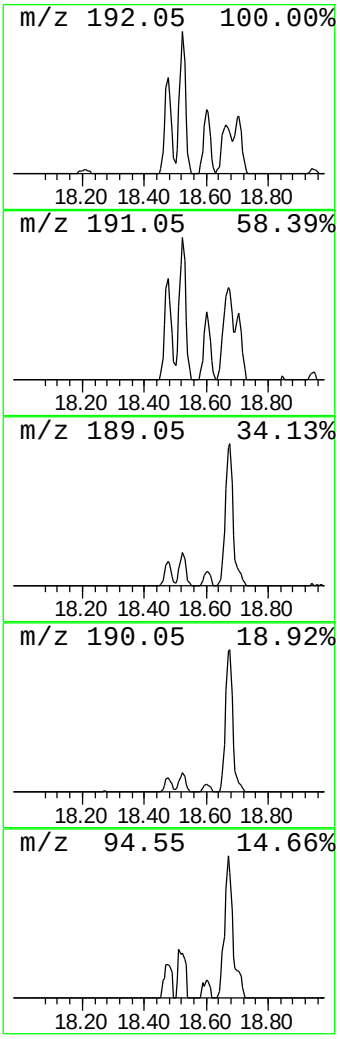
****

Peak Number 8 Phenanthrene, 2-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.48	2.08 ng	34469	Phenanthrene-d10	17.61

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	95
3	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	94
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91





Data Path : Z:\HPCHEM1\BNA G\DATA\BG021916\
Data File : BG021000.D
Acq On : 20 Feb 2016 9:21
Operator : SJ/UM
Sample : H1520-01
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : 40055(0-2)

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG021116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

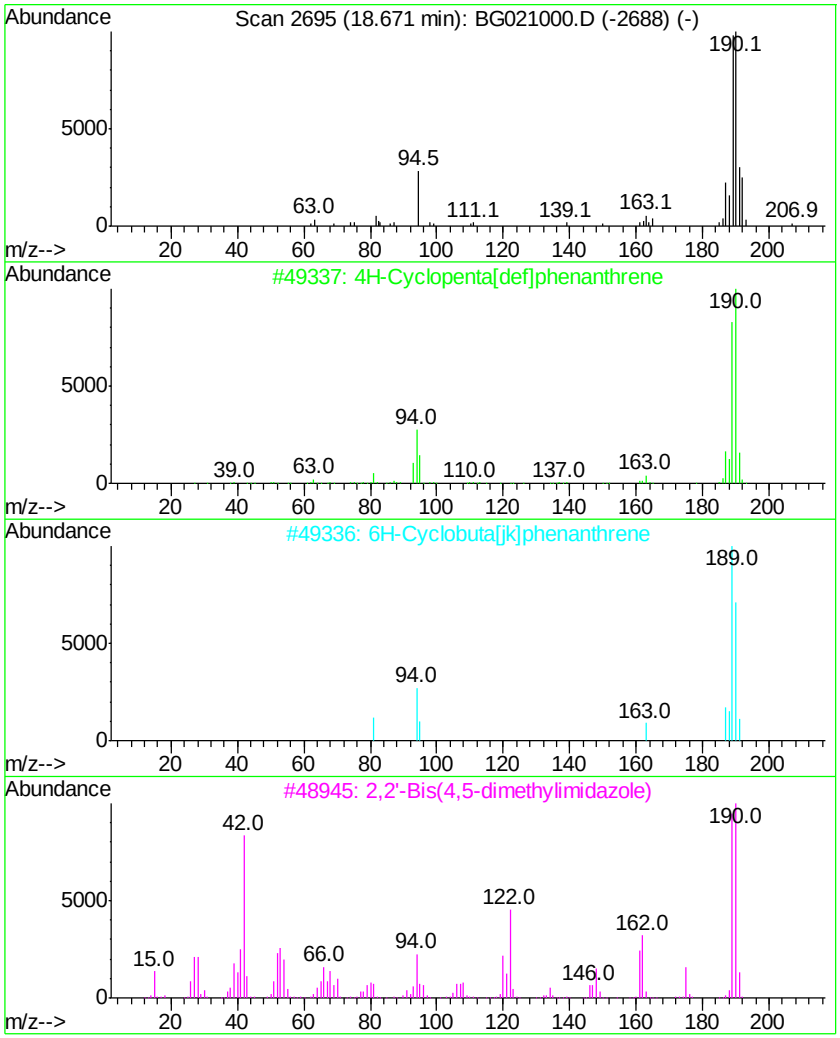
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

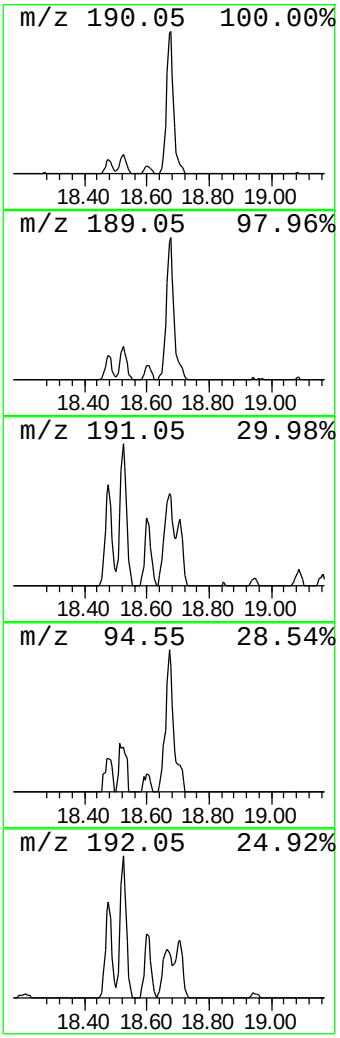
****

Peak Number 10 4H-Cyclopenta[def]phenanthrene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.67	5.06 ng	84060	Phenanthrene-d10	17.61

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	64
3	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	42
4	4-(4-Chlorophenyl)pyridine	189	C11H8ClN	005957-96-0	25
5	4,4'-Difluorobiphenyl	190	C12H8F2	000398-23-2	23





Data Path : Z:\HPCHEM1\BNA G\DATA\BG021916\
Data File : BG021000.D
Acq On : 20 Feb 2016 9:21
Operator : SJ/UM
Sample : H1520-01
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : 40055(0-2)

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG021116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

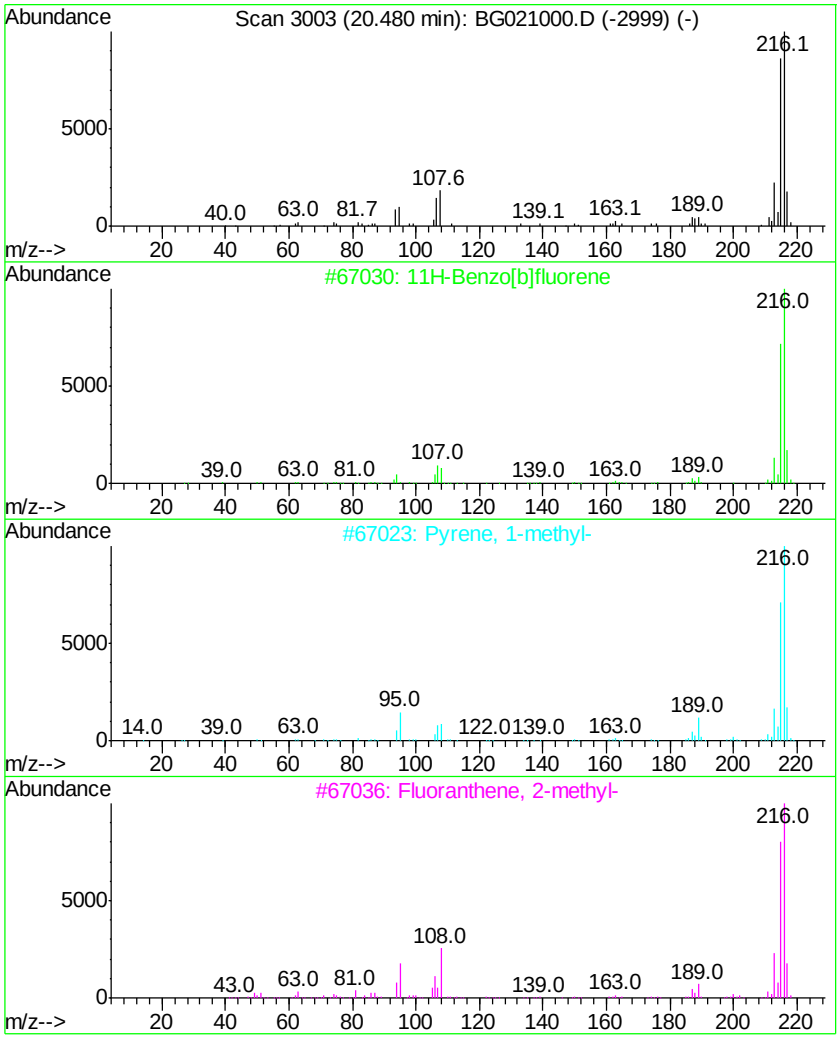
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

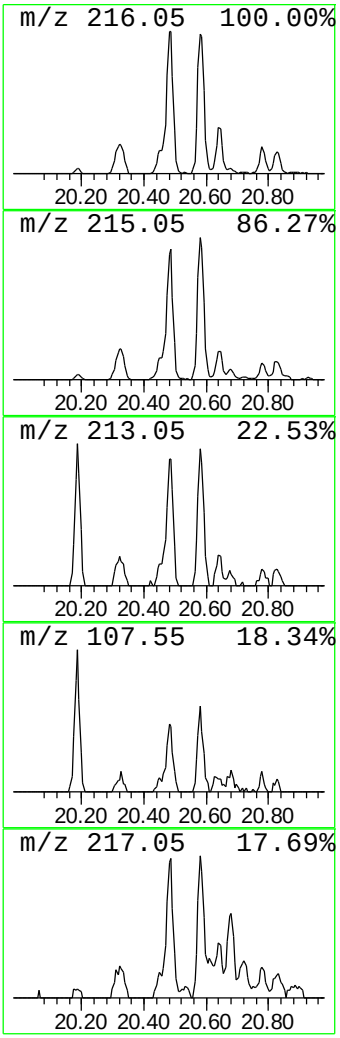
****

Peak Number 11 11H-Benzo[b]fluorene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.48	2.52 ng	96520	Chrysene-d12	21.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	87
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	76





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG021916\
Data File : BG021000.D
Acq On : 20 Feb 2016 9:21
Operator : SJ/UM
Sample : H1520-01
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : 40055(0-2)

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG021116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

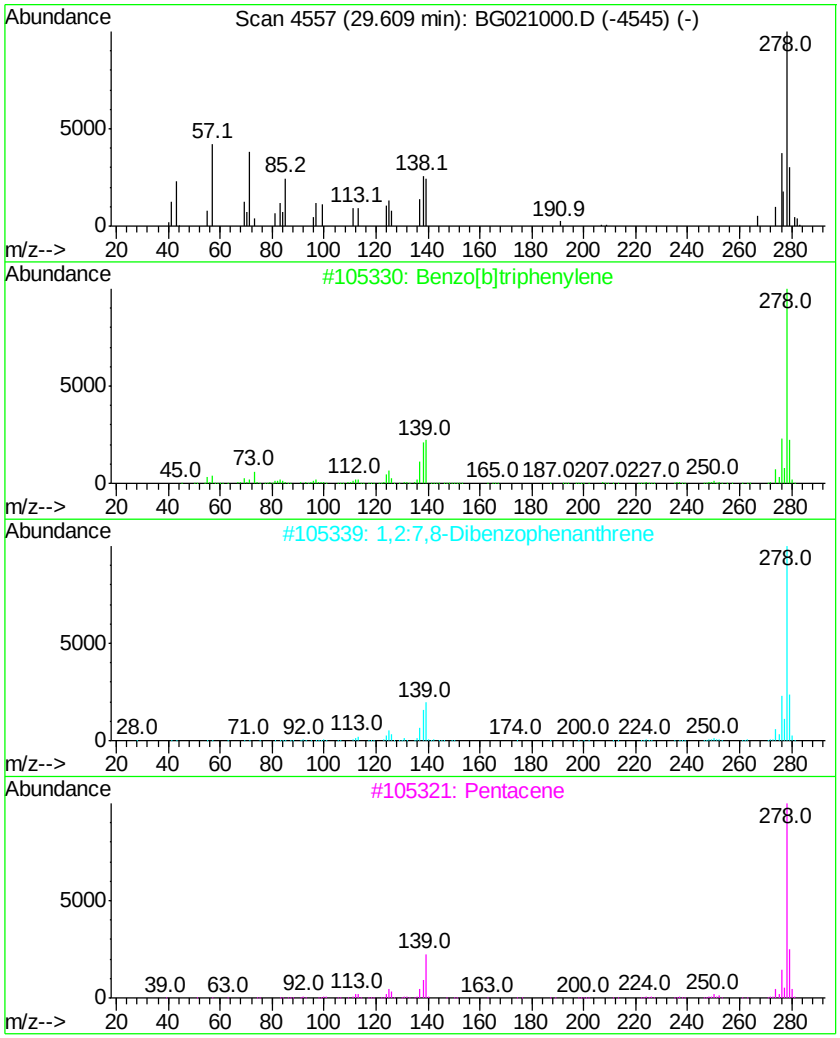
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

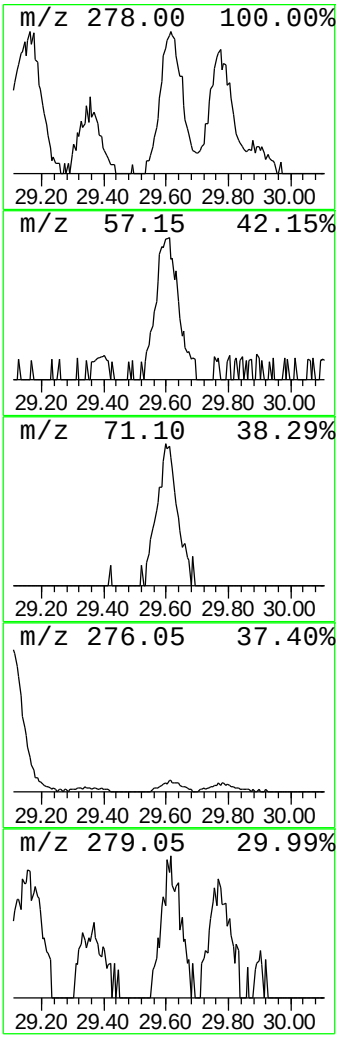
****

Peak Number 16 Benzo[b]triphenylene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
29.61	2.86 ng	53272	Perylene-d12	25.26

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]triphenylene	278	C22H14	000215-58-7	78
2	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	74
3	Pentacene	278	C22H14	000135-48-8	53
4	Dibenzo[b,h][1,6]naphthyridine, ...	278	C17H11ClN2	004240-91-9	50
5	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	49





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG021916\
Data File : BG021000.D
Acq On : 20 Feb 2016 9:21
Operator : SJ/UM
Sample : H1520-01
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : 40055(0-2)

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG021116.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
2-Pentanone, 4-hy...	5.31	19.7	ng	100892	1	8.26	102204	20.0
unknown7.79	7.79	122.0	ng	623371	1	8.26	102204	20.0
Hexanoic acid, 2-...	9.52	3.0	ng	15601	1	8.26	102204	20.0
Hexadecane	15.68	2.2	ng	33326	3	14.87	305588	20.0
Heptadecane	16.54	2.9	ng	48125	4	17.61	332043	20.0
Phenanthrene, 2-m...	18.48	2.1	ng	34469	4	17.61	332043	20.0
4H-Cyclopenta[def...	18.67	5.1	ng	84060	4	17.61	332043	20.0
11H-Benzo[b]fluorene	20.48	2.5	ng	96520	5	21.88	765842	20.0
Benzo[b]triphenylene	29.61	2.9	ng	53272	6	25.26	372114	20.0