LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG071616\
Data File : BG023152.D
Acq On : 16 Jul 2016 18:23
Operator : UM/SJ
Sample : H3951-17
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : LSS-SB-SB06(0-2ft)

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-BG070816.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	2.894	6	9	25	rVB5	255642	685840	14.73%	1.389%
2	3.041	29	34	45	rVB	971156	1422767	30.55%	2.881%
3	3.188	54	59	73	rVB	139607	313591	6.73%	0.635%
4	5.221	400	405	411	rBV	262728	406395	8.73%	0.823%
5	5.697	479	486	495	rBV	1136691	1877114	40.31%	3.801%
6	7.307	752	760	769	rBV	1379968	2447407	52.56%	4.956%
7	7.683	813	824	832	rBV	1304744	2309699	49.60%	4.677%
8	8.153	897	904	912	rVB	544145	935681	20.09%	1.895%
9	8.476	952	959	966	rBV	1020069	1785216	38.34%	3.615%
10	9.322	1096	1103	1113	rBV	917957	1684896	36.18%	3.412%
11	10.979	1378	1385	1392	rBV	783899	1447790	31.09%	2.932%
12	12.853	1697	1704	1709	rBV3	24493	49992	1.07%	0.101%
13	13.417	1791	1800	1808	rBV	2372913	3798619	81.57%	7.692%
14	14.122	1912	1920	1924	rBV4	43580	89505	1.92%	0.181%
15	14.240	1933	1940	1946	rBV	656166	965883	20.74%	1.956%
16	14.357	1955	1960	1964	rBV6	28326	50328	1.08%	0.102%
17	14.522	1983	1988	1994	rBV4	35954	71173	1.53%	0.144%
18	14.798	2024	2035	2042	rBV3	1185747	1993538	42.81%	4.037%
19	14.863	2042	2046	2052	rVB2	55955	96209	2.07%	0.195%
20	15.192	2098	2102	2108	rVB4	51947	93076	2.00%	0.188%
21	15.268	2111	2115	2122	rVB7	37026	65236	1.40%	0.132%
22	15.409	2129	2139	2144	rBV8	41035	102424	2.20%	0.207%
23	15.574	2162	2167	2171	rBV5	33698	66158	1.42%	0.134%
24	15.615	2171	2174	2179	rVB3	67398	85027	1.83%	0.172%
25	15.844	2207	2213	2220	rBV3	66871	120031	2.58%	0.243%
26	16.132	2257	2262	2267	rVB8	26795	50904	1.09%	0.103%
27	16.290	2282	2289	2297	rBV	1697906	2624667	56.36%	5.315%
28	16.484	2317	2322	2333	rBV3	218649	441927	9.49%	0.895%
29	17.207	2441	2445	2451	rVB3	39950	63501	1.36%	0.129%
30	17.277	2453	2457	2461	rBV3	108927	146728	3.15%	0.297%
31	17.371	2469	2473	2479	rVB2	67471	126166	2.71%	0.255%
32	17.554	2498	2504	2508	rBV2	1449015	2253509	48.39%	4.563%
33	17.595	2508	2511	2517	rVB	803058	1161607	24.94%	2.352%
34	17.689	2523	2527	2531	rVB	132968	191382	4.11%	0.388%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG071616\
Data File : BG023152.D
Acq On : 16 Jul 2016 18:23
Operator : UM/SJ
Sample : H3951-17
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : LSS-SB-SB06(0-2ft)

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-BG070816.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	18.018	2580	2583	2587	rVB5	65744	86571	1.86%	0.175%
36	18.129	2599	2602	2609	rVB	70150	117852	2.53%	0.239%
37	18.423	2647	2652	2657	rBV2	349089	612062	13.14%	1.239%
38	18.476	2657	2661	2667	rVB2	253368	418732	8.99%	0.848%
39	18.623	2680	2686	2690	rBV2	250788	507265	10.89%	1.027%
40	18.964	2741	2744	2751	rVB8	109603	179459	3.85%	0.363%
41	19.216	2784	2787	2791	rBV3	100734	154767	3.32%	0.313%
42	19.334	2804	2807	2812	rVB3	202231	286464	6.15%	0.580%
43	19.604	2848	2853	2859	rVB	1286729	1940714	41.67%	3.930%
44	19.963	2910	2914	2920	rVB	1307746	1926515	41.37%	3.901%
45	20.151	2941	2946	2951	rBV	3491641	4656846	100.00%	9.429%
46	21.713	3208	3212	3218	rVB	1606282	2275717	48.87%	4.608%
47	21.854	3229	3236	3241	rBV2	1546032	3426305	73.58%	6.938%
48	23.370	3490	3494	3504	rVB3	478196	1047680	22.50%	2.121%
49	25.239	3806	3812	3823	rVB	628119	1725343	37.05%	3.494%

Sum of corrected areas: 49386278

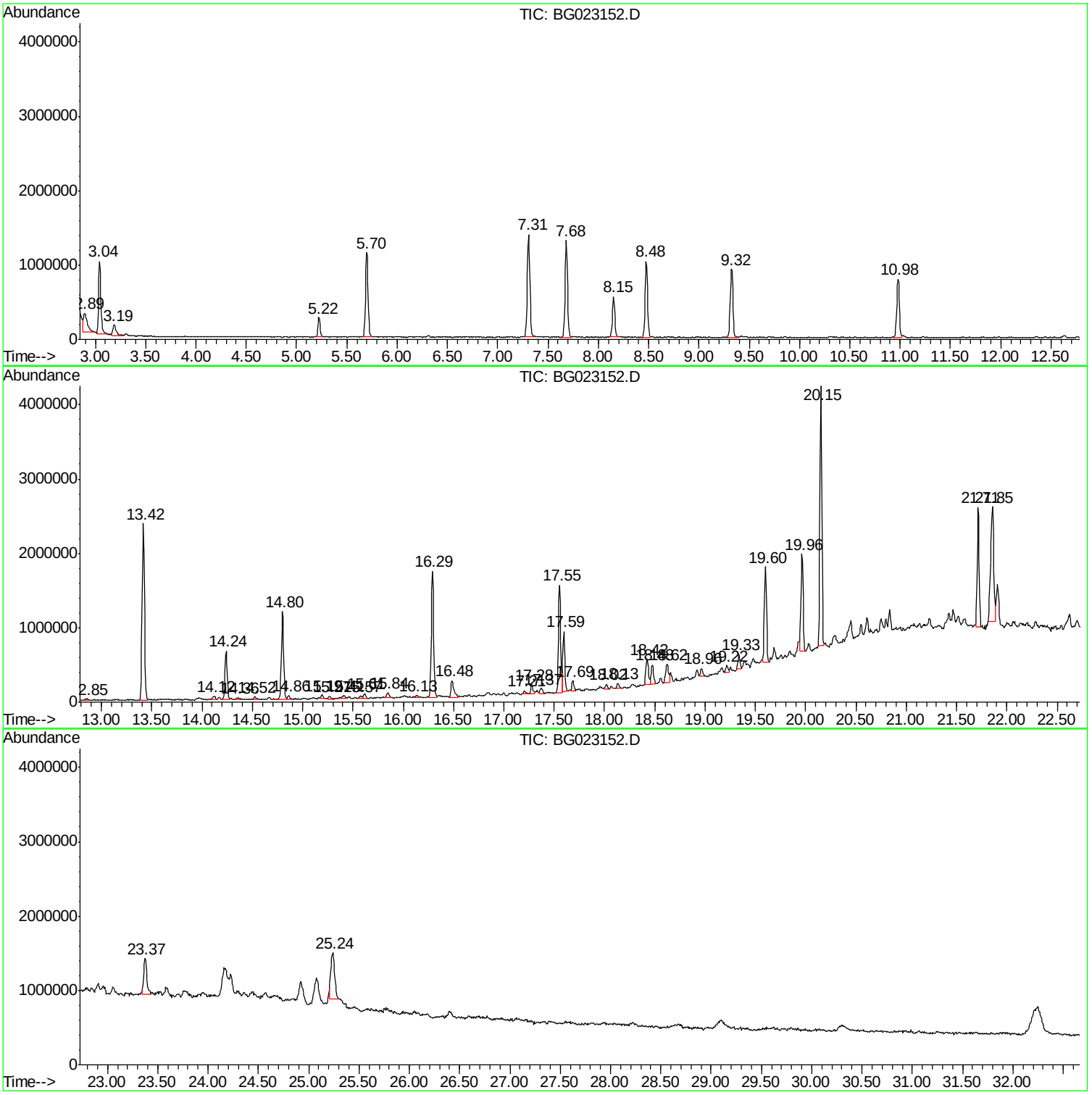
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG071616\
Data File : BG023152.D
Acq On : 16 Jul 2016 18:23
Operator : UM/SJ
Sample : H3951-17
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
LSS-SB-SB06(0-2ft)

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG070816.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG071616\
Data File : BG023152.D
Acq On : 16 Jul 2016 18:23
Operator : UM/SJ
Sample : H3951-17
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : LSS-SB-SB06(0-2ft)

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG070816.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

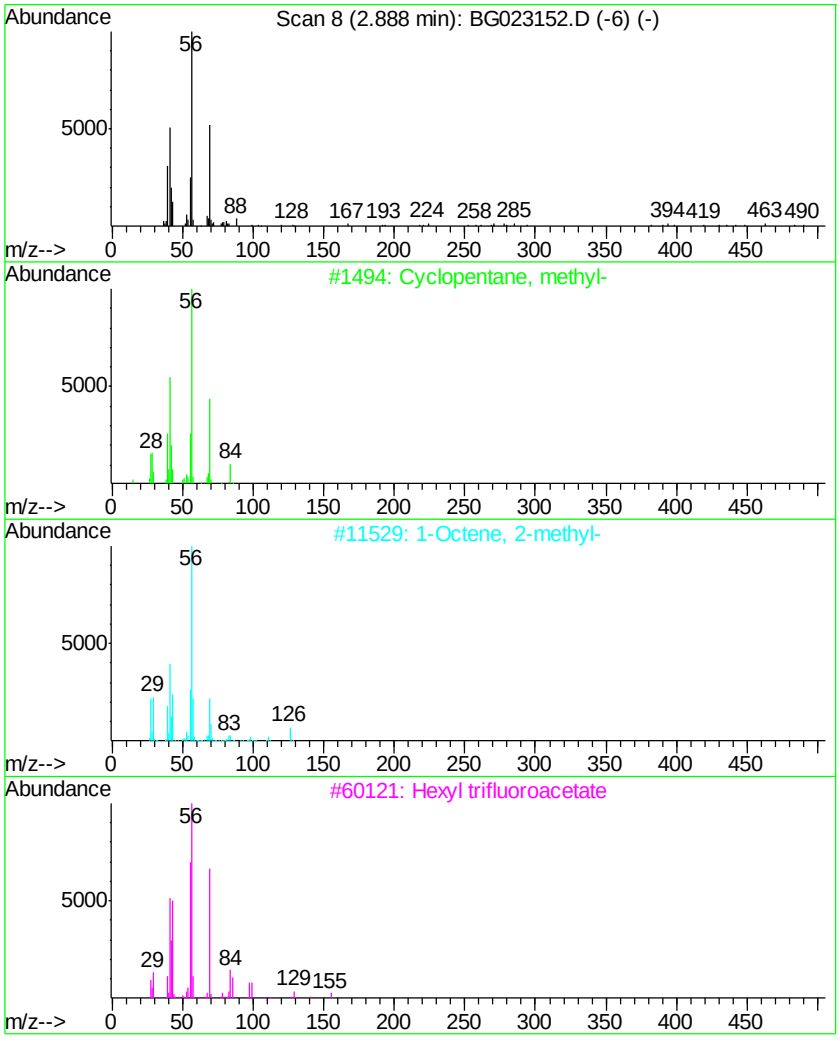
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

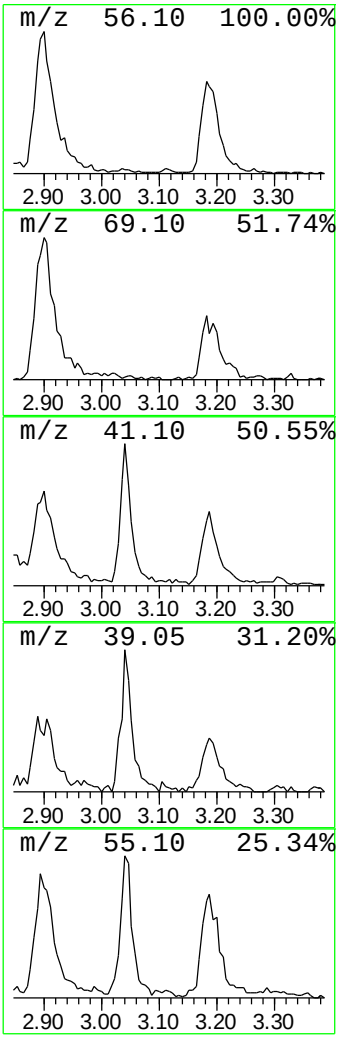
****

Peak Number 1 Cyclopentane, methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.89	14.66 ng	685840	1,4-Dichlorobenzene-d4	8.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	50
2	1-Octene, 2-methyl-	126	C9H18	004588-18-5	9
3	Hexyl trifluoroacetate	198	C8H13F3O2	000400-61-3	9
4	1-Hexene, 2,5-dimethyl-	112	C8H16	006975-92-4	9
5	1-Heptene, 2-methyl-	112	C8H16	015870-10-7	9





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG071616\
Data File : BG023152.D
Acq On : 16 Jul 2016 18:23
Operator : UM/SJ
Sample : H3951-17
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : LSS-SB-SB06(0-2ft)

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG070816.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

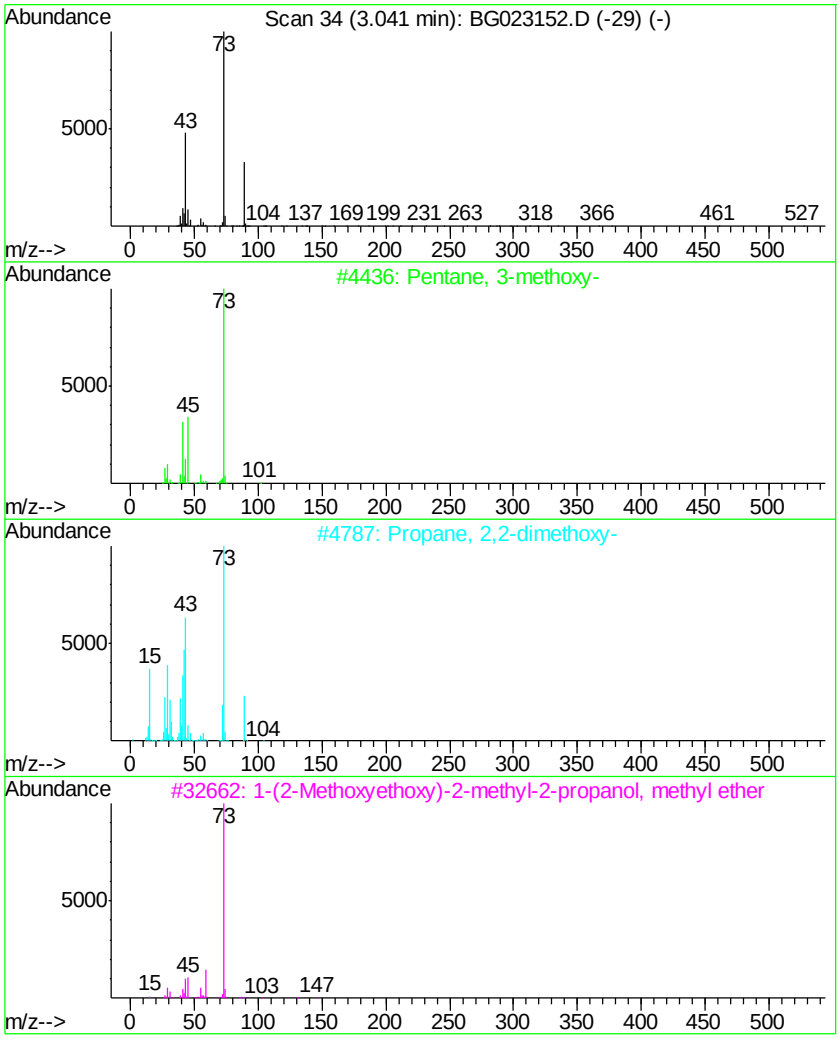
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

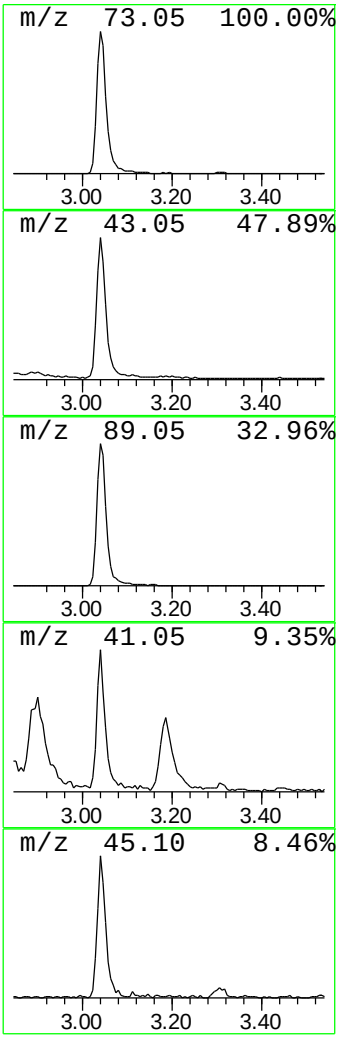
****

Peak Number 2 unknown3.04 Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.04	30.41 ng	1422770	1,4-Dichlorobenzene-d4	8.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	9
2	Propane, 2,2-dimethoxy-	104	C5H12O2	000077-76-9	9
3	1-(2-Methoxyethoxy)-2-methyl-2-p...	162	C8H18O3	1000364-24-4	9
4	Propane, 2-methoxy-2-methyl-	88	C5H12O	001634-04-4	9
5	2-Hydroxy-2-methylbutyric acid	118	C5H10O3	003739-30-8	9





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG071616\
Data File : BG023152.D
Acq On : 16 Jul 2016 18:23
Operator : UM/SJ
Sample : H3951-17
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
LSS-SB-SB06(0-2ft)

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG070816.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

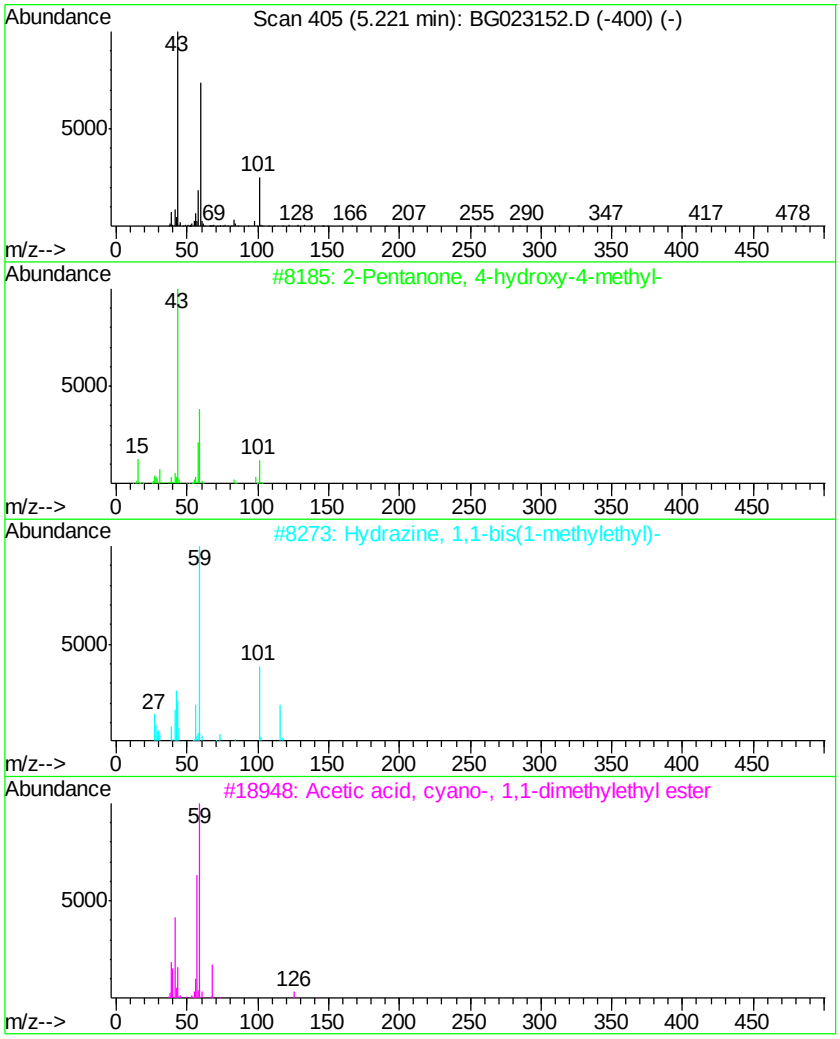
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

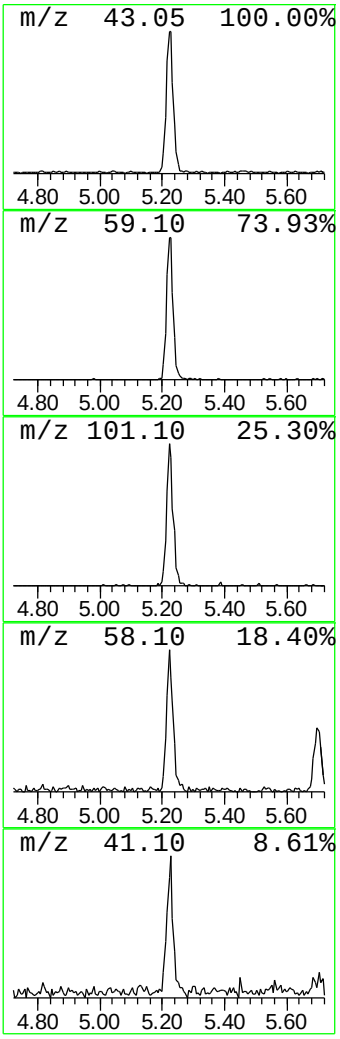
****

Peak Number 4 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.22	8.69 ng	406395	1,4-Dichlorobenzene-d4	8.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2	Hydrazine, 1,1-bis(1-methylethyl)-	116	C6H16N2	000921-14-2	38
3	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	37
4	Propane, 1-ethoxy-2-methyl-	102	C6H14O	000627-02-1	37
5	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	33





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG071616\
Data File : BG023152.D
Acq On : 16 Jul 2016 18:23
Operator : UM/SJ
Sample : H3951-17
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : LSS-SB-SB06(0-2ft)

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG070816.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

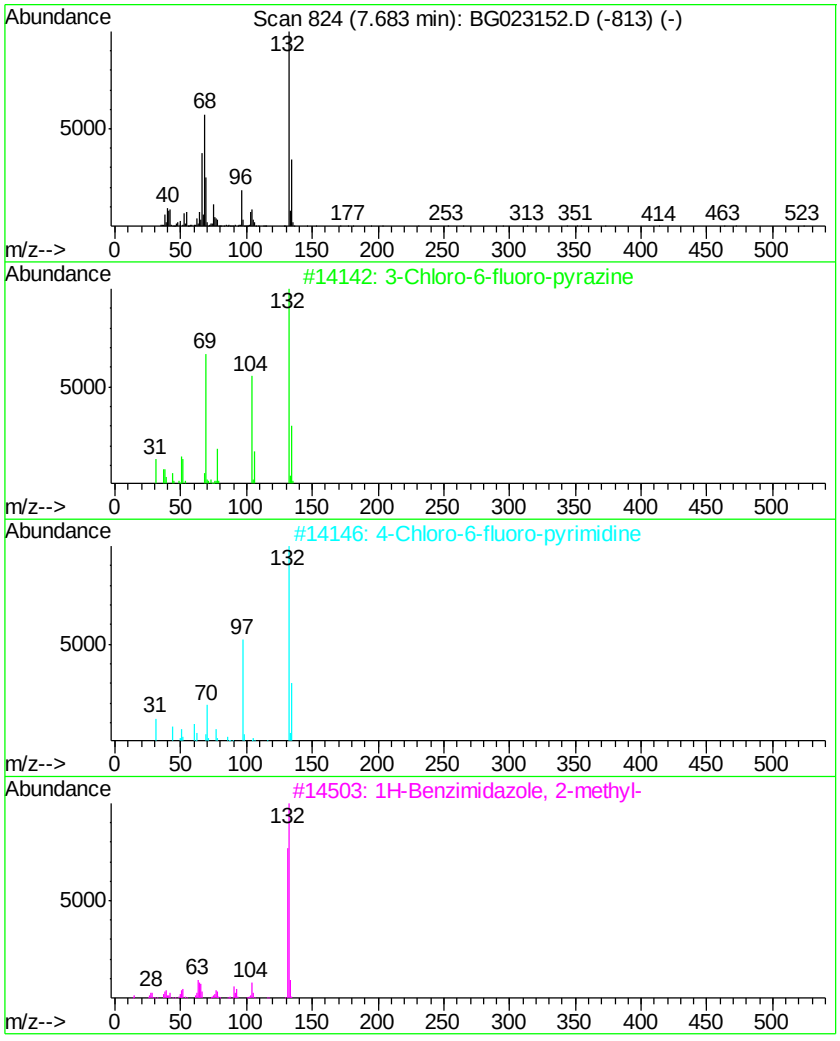
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

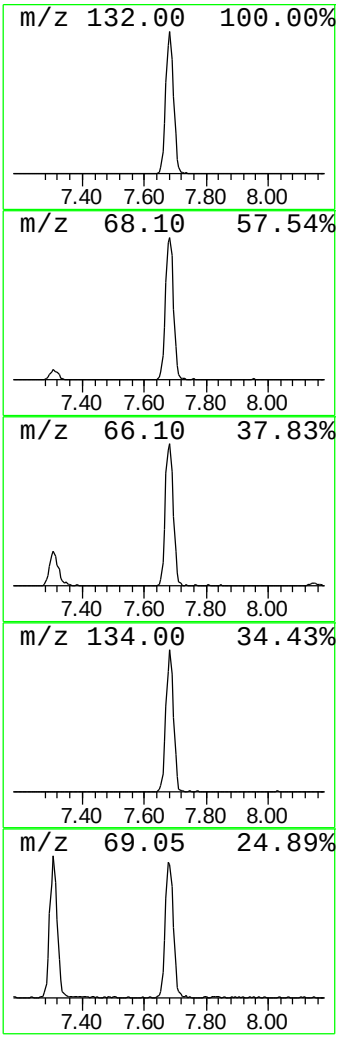
****

Peak Number 5 unknown7.68 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.68	49.37 ng	2309700	1,4-Dichlorobenzene-d4	8.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
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	2-Cyclohexen-1-one	96	C6H8O	000930-68-7	10





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG071616\
Data File : BG023152.D
Acq On : 16 Jul 2016 18:23
Operator : UM/SJ
Sample : H3951-17
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : LSS-SB-SB06(0-2ft)

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG070816.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

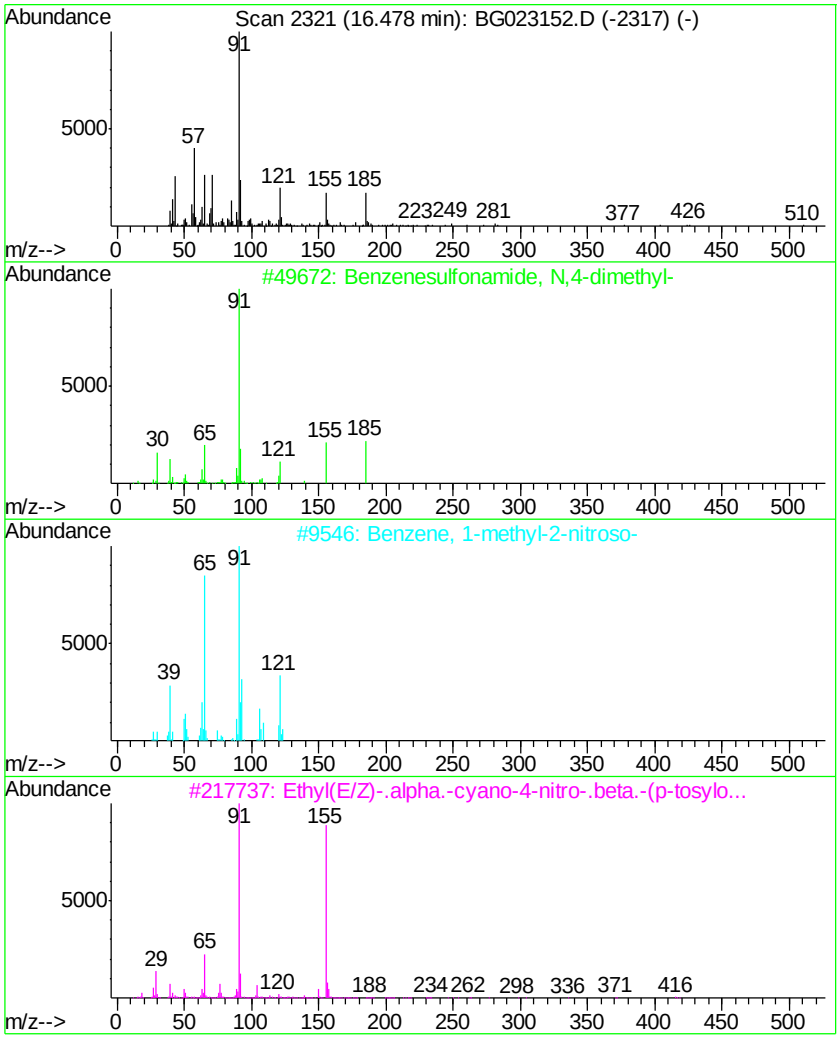
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

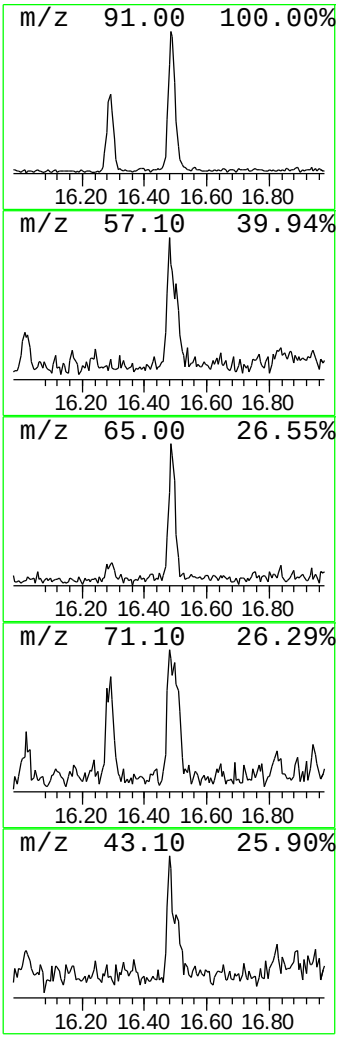
****

Peak Number 7 Benzenesulfonamide, N,4-dim... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.48	3.92 ng	441927	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzenesulfonamide, N,4-dimethyl-	185	C8H11NO2S	000640-61-9	91
2	Benzene, 1-methyl-2-nitroso-	121	C7H7NO	000611-23-4	53
3	Ethyl(E/Z)-.alpha.-cyano-4-nitro...	416	C19H16N2O7S	1000287-26-8	38
4	Benzoic acid, 3-(4-tolylsulfonyl...	291	C14H13NO4S	1000294-09-8	38
5	4-Methyl-N-(1H-tetrazol-5-yl)-be...	239	C8H9N5O2S	006455-80-7	38





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG071616\
Data File : BG023152.D
Acq On : 16 Jul 2016 18:23
Operator : UM/SJ
Sample : H3951-17
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : LSS-SB-SB06(0-2ft)

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG070816.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

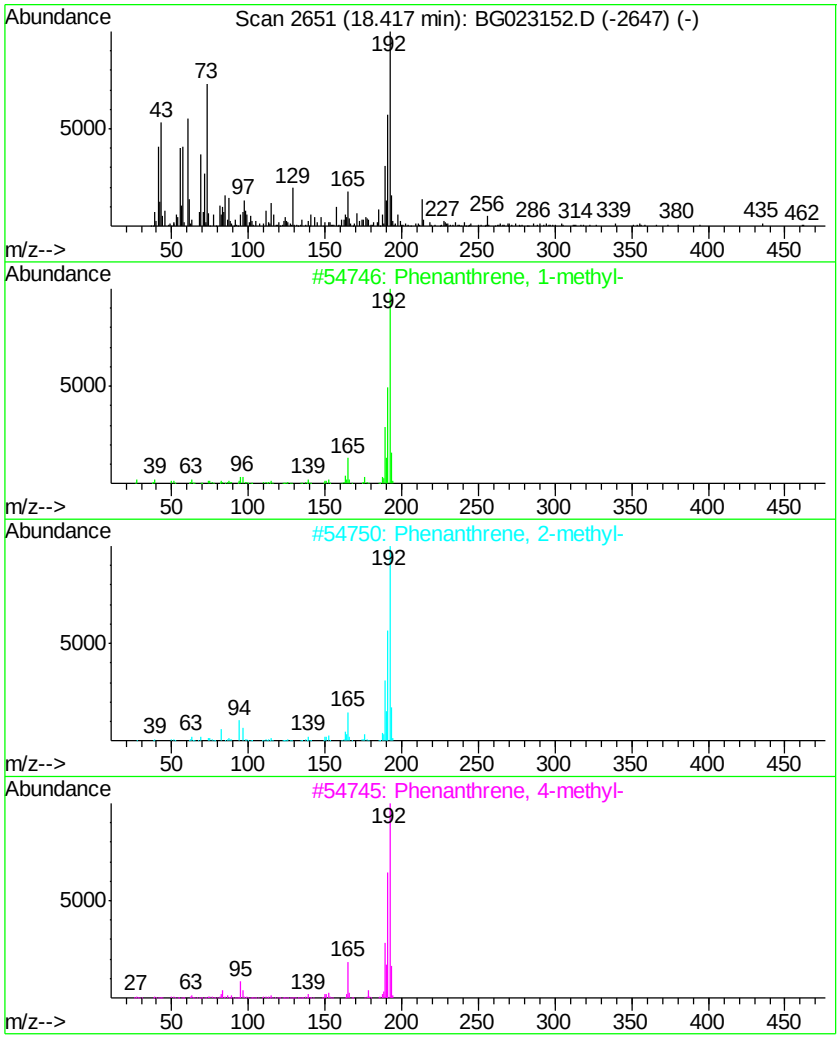
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

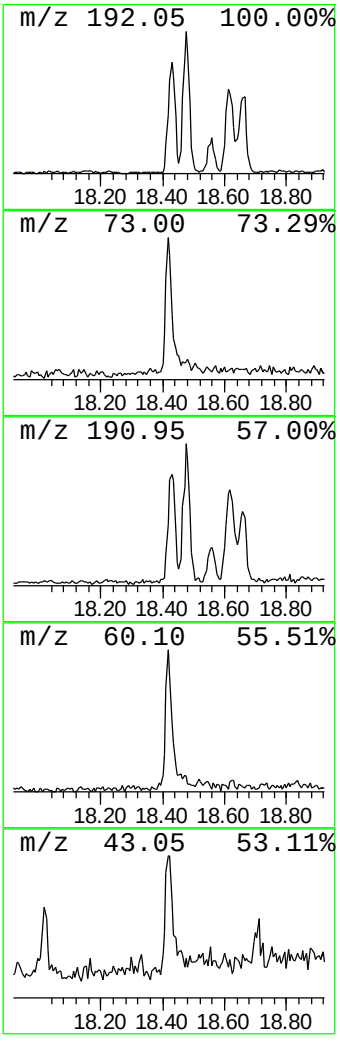
****

Peak Number 8 Phenanthrene, 1-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.42	5.43 ng	612062	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
3	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	91
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	89
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	86





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG071616\
Data File : BG023152.D
Acq On : 16 Jul 2016 18:23
Operator : UM/SJ
Sample : H3951-17
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : LSS-SB-SB06(0-2ft)

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG070816.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

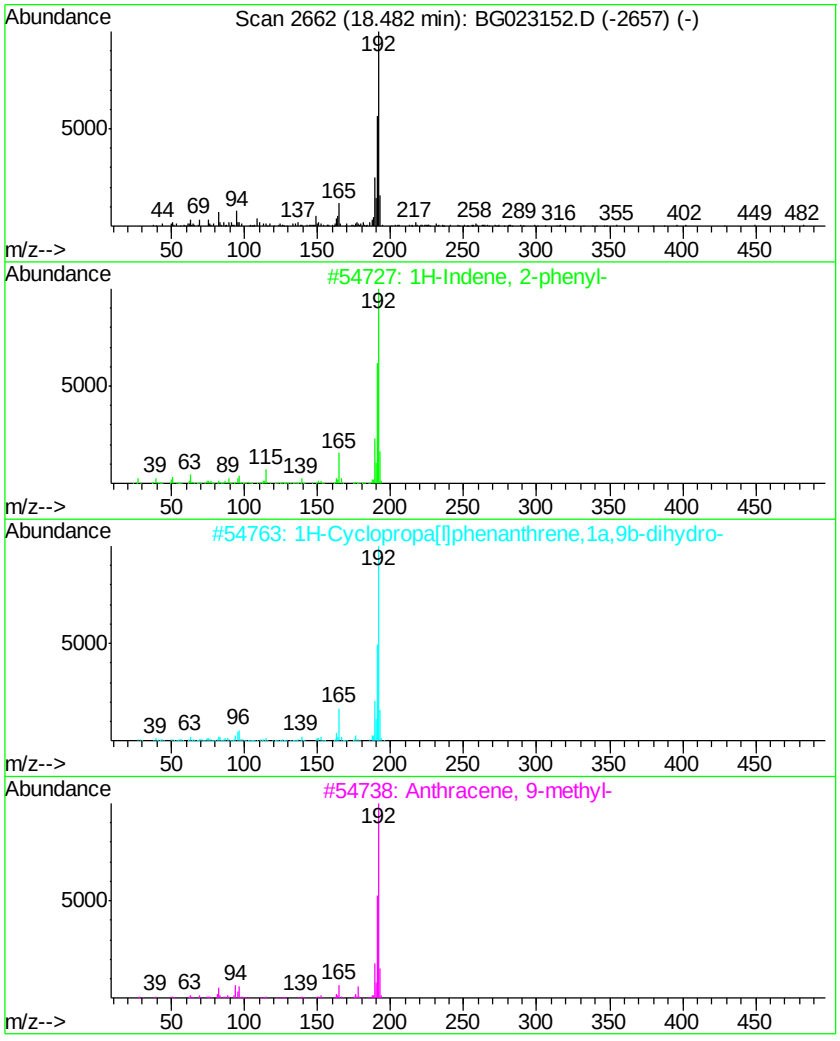
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

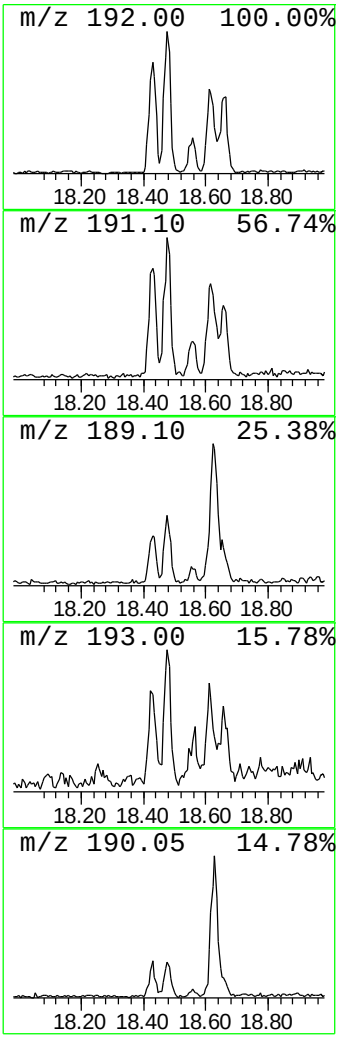
****

Peak Number 9 1H-Indene, 2-phenyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.48	3.72 ng	418732	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	81
2	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	81
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	81
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	81
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	81





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG071616\
Data File : BG023152.D
Acq On : 16 Jul 2016 18:23
Operator : UM/SJ
Sample : H3951-17
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : LSS-SB-SB06(0-2ft)

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG070816.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

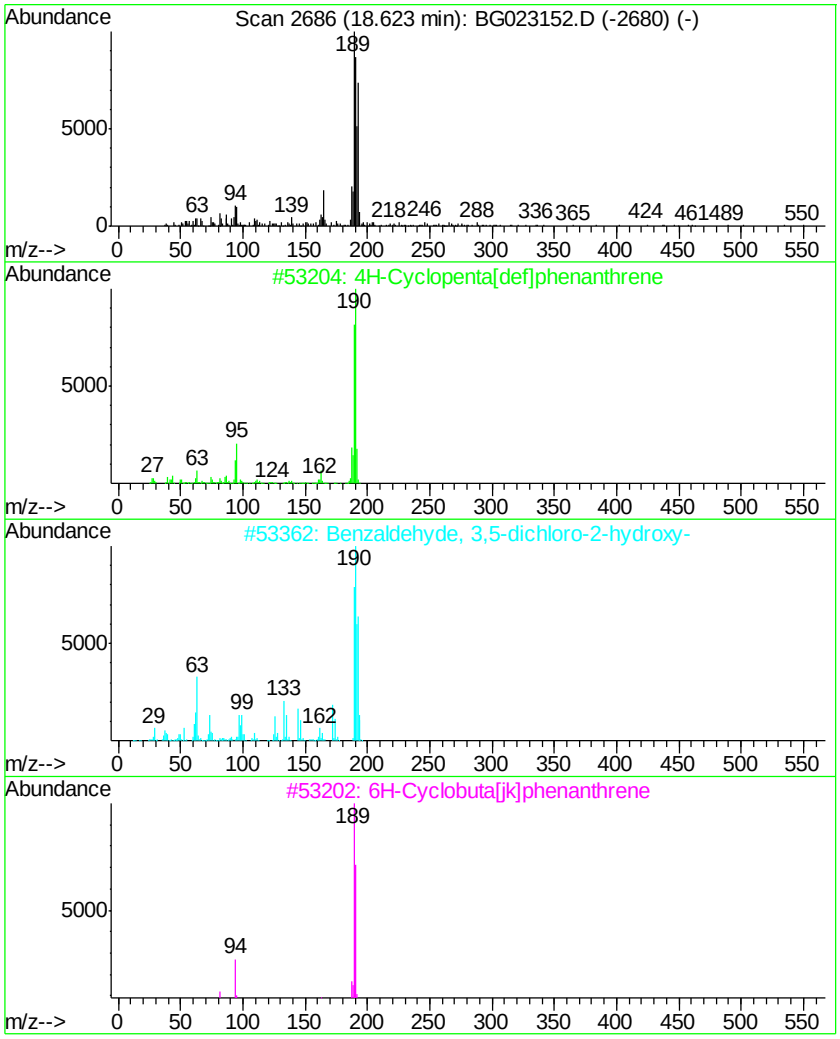
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

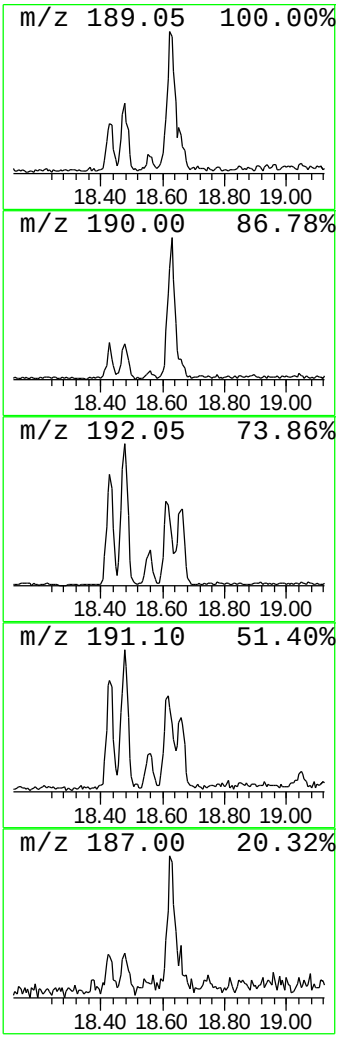
****

Peak Number 10 4H-Cyclopenta[def]phenanthrene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.62	4.50 ng	507265	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	55
2	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	53
3	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	47
4	Naphtho[1,2-b]norbornadiene	192	C15H12	1000210-14-8	42
5	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	42





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Data File : BG023152.D
Acq On : 16 Jul 2016 18:23
Operator : UM/SJ
Sample : H3951-17
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : LSS-SB-SB06(0-2ft)

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG070816.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

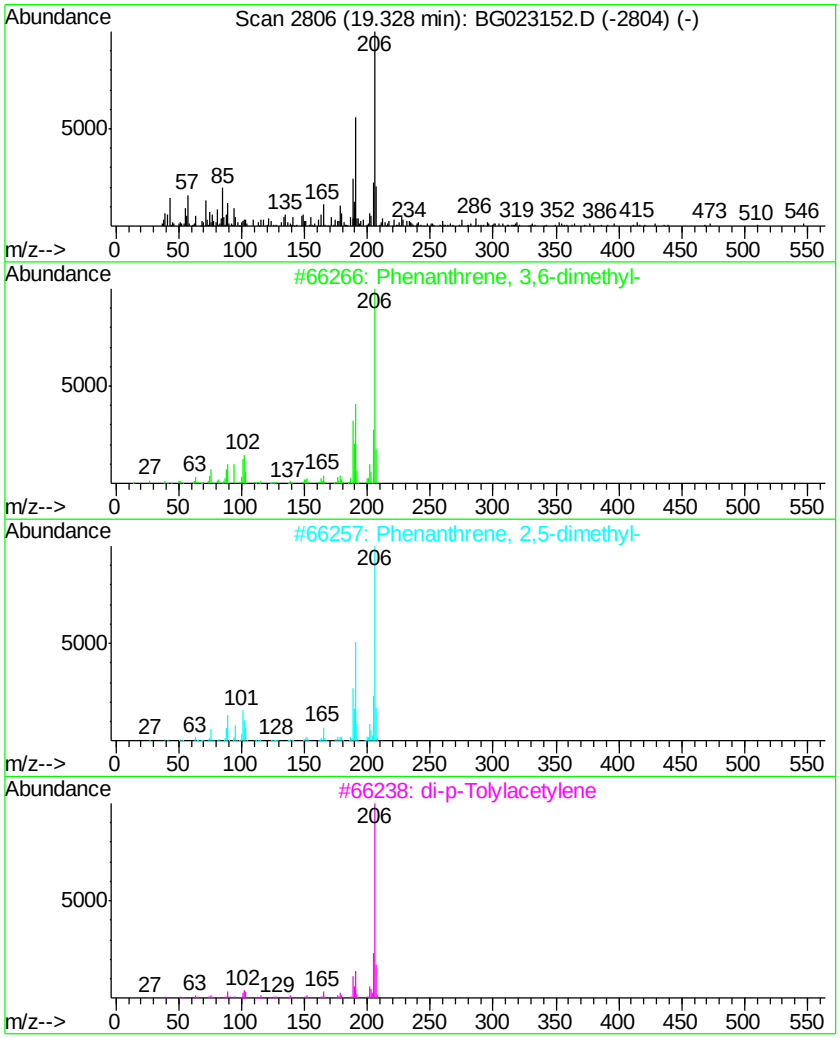
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

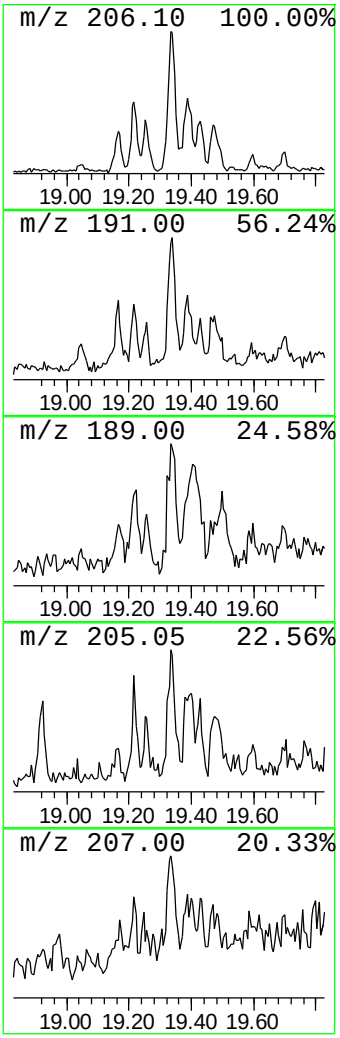
****

Peak Number 11 Phenanthrene, 3,6-dimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.33	2.54 ng	286464	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	94
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	90
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	90
5	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	87





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG071616\
Data File : BG023152.D
Acq On : 16 Jul 2016 18:23
Operator : UM/SJ
Sample : H3951-17
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : LSS-SB-SB06(0-2ft)

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG070816.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

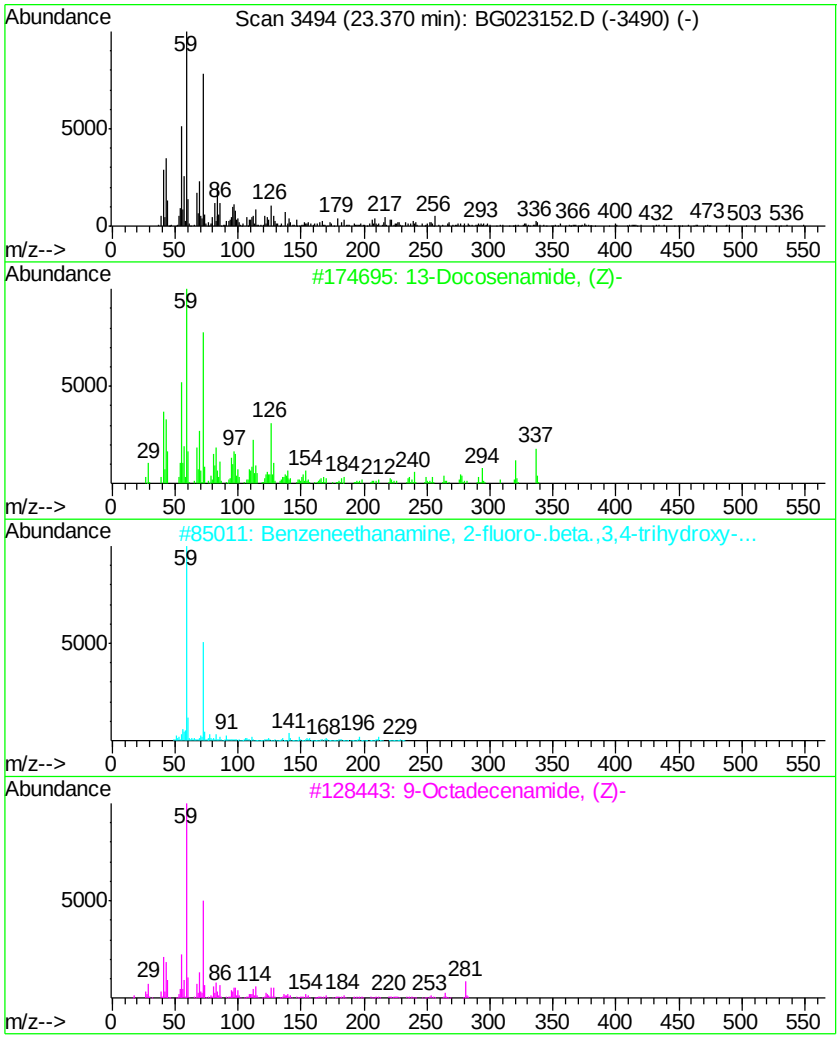
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

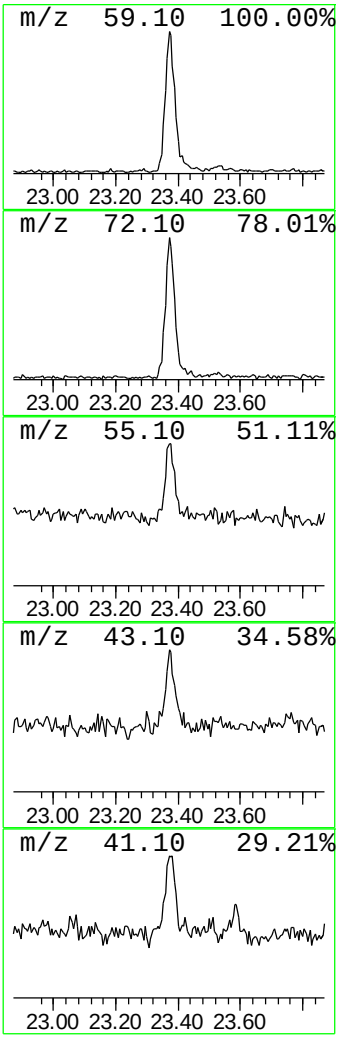
****

Peak Number 12 13-Docosenamide, (Z)- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.37	6.12 ng	1047680	Chrysene-d12	21.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	13-Docosenamide, (Z)-	337	C22H43NO	000112-84-5	87
2	Benzeneethanamine, 2-fluoro-.bet...	229	C11H16FNO3	061338-98-5	64
3	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	52
4	Pentadecanamide, 15-bromo-	319	C15H30BrNO	1000163-86-1	38
5	Bicyclo[3.2.1]heptane, 1-methoxy-	126	C8H14O	1000156-43-7	38





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG071616\
Data File : BG023152.D
Acq On : 16 Jul 2016 18:23
Operator : UM/SJ
Sample : H3951-17
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : LSS-SB-SB06(0-2ft)

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG070816.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
Cyclopentane, met...	2.89	14.7	ng	685840	1	8.15	935681	20.0
unknown3.04	3.04	30.4	ng	1422770	1	8.15	935681	20.0
2-Pentanone, 4-hy...	5.22	8.7	ng	406395	1	8.15	935681	20.0
unknown7.68	7.68	49.4	ng	2309700	1	8.15	935681	20.0
Benzenesulfonamid...	16.48	3.9	ng	441927	4	17.55	2253510	20.0
Phenanthrene, 1-m...	18.42	5.4	ng	612062	4	17.55	2253510	20.0
1H-Indene, 2-phenyl-	18.48	3.7	ng	418732	4	17.55	2253510	20.0
4H-Cyclopenta[def...	18.62	4.5	ng	507265	4	17.55	2253510	20.0
Phenanthrene, 3,6...	19.33	2.5	ng	286464	4	17.55	2253510	20.0
13-Docosenamide, ...	23.37	6.1	ng	1047680	5	21.86	3426310	20.0