LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050815\
Data File : BF079105.D
Acq On : 10 May 2015 3:05
Operator : TP/IZ
Sample : G2155-02
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-46AS

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_F\METHODS\8270-BF043015.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	1.484	24	26	29	rVB	5008433	7152046	100.00%	20.864%
2	1.621	34	38	41	rVB	202539	364378	5.09%	1.063%
3	1.747	47	49	52	rBV	217554	297573	4.16%	0.868%
4	1.804	52	54	58	rVV	236741	310329	4.34%	0.905%
5	1.873	58	60	95	rVB	1630122	3102915	43.38%	9.052%
6	5.119	343	344	352	rVB	75039	109150	1.53%	0.318%
7	5.622	385	388	391	rBV	1566417	1582503	22.13%	4.616%
8	6.879	496	498	501	rBV	1771527	1605854	22.45%	4.685%
9	7.028	509	511	514	rBV	1556010	1728388	24.17%	5.042%
10	7.325	534	537	539	rBV	342030	449306	6.28%	1.311%
11	7.508	550	553	555	rVB	1525940	1370731	19.17%	3.999%
12	8.010	594	597	599	rBV	1231771	1068303	14.94%	3.116%
13	8.891	672	674	676	rBV	486970	601948	8.42%	1.756%
14	10.239	790	792	795	rBV	2187490	2035406	28.46%	5.938%
15	10.742	834	836	839	rBV	109564	103606	1.45%	0.302%
16	11.074	863	865	867	rBV	667798	641210	8.97%	1.871%
17	12.057	948	951	953	rBV	980459	1200596	16.79%	3.502%
18	12.914	1024	1026	1028	rBV	557752	696041	9.73%	2.030%
19	12.948	1028	1029	1031	rVB	367745	273756	3.83%	0.799%
20	13.005	1033	1034	1037	rVB	73383	92872	1.30%	0.271%
21	13.680	1091	1093	1095	rBV	80497	93484	1.31%	0.273%
22	13.920	1112	1114	1119	rVB2	41938	73857	1.03%	0.215%
23	14.423	1156	1158	1161	rBV	597757	681388	9.53%	1.988%
24	14.708	1179	1183	1185	rBV	633151	718798	10.05%	2.097%
25	14.914	1198	1201	1204	rVB	2220584	2165730	30.28%	6.318%
26	14.994	1204	1208	1210	rBV2	40531	80457	1.12%	0.235%
27	15.120	1213	1219	1222	rBV2	62439	147994	2.07%	0.432%
28	15.245	1229	1230	1232	rVV	64196	78065	1.09%	0.228%
29	15.543	1254	1256	1259	rBV3	44380	87334	1.22%	0.255%
30	15.748	1272	1274	1278	rVB	38889	73458	1.03%	0.214%
31	15.897	1284	1287	1289	rBV2	51627	102874	1.44%	0.300%
32	15.931	1289	1290	1293	rVV2	55139	102687	1.44%	0.300%
33	16.080	1300	1303	1307	rBV2	185867	288386	4.03%	0.841%
34	16.206	1309	1314	1316	rVV2	797371	1272173	17.79%	3.711%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050815\
Data File : BF079105.D
Acq On : 10 May 2015 3:05
Operator : TP/IZ
Sample : G2155-02
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-46AS

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_F\METHODS\8270-BF043015.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	16.240	1316	1317	1322	rVB	385415	373015	5.22%	1.088%
36	16.331	1322	1325	1327	rBV2	60502	94845	1.33%	0.277%
37	16.880	1371	1373	1377	rVB3	55393	106397	1.49%	0.310%
38	17.474	1422	1425	1430	rBV	339318	727141	10.17%	2.121%
39	17.589	1433	1435	1437	rVB	69567	74780	1.05%	0.218%
40	17.783	1450	1452	1455	rVB	205463	243083	3.40%	0.709%
41	17.851	1455	1458	1461	rBV	249606	345584	4.83%	1.008%
42	17.920	1461	1464	1466	rBV	477638	741336	10.37%	2.163%
43	18.480	1510	1513	1515	rBV	43331	83429	1.17%	0.243%
44	19.394	1590	1593	1599	rVB2	132457	294465	4.12%	0.859%
45	19.577	1606	1609	1612	rBV2	48067	142157	1.99%	0.415%
46	19.829	1627	1631	1641	rVB	124911	300272	4.20%	0.876%

Sum of corrected areas: 34280100

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050815\
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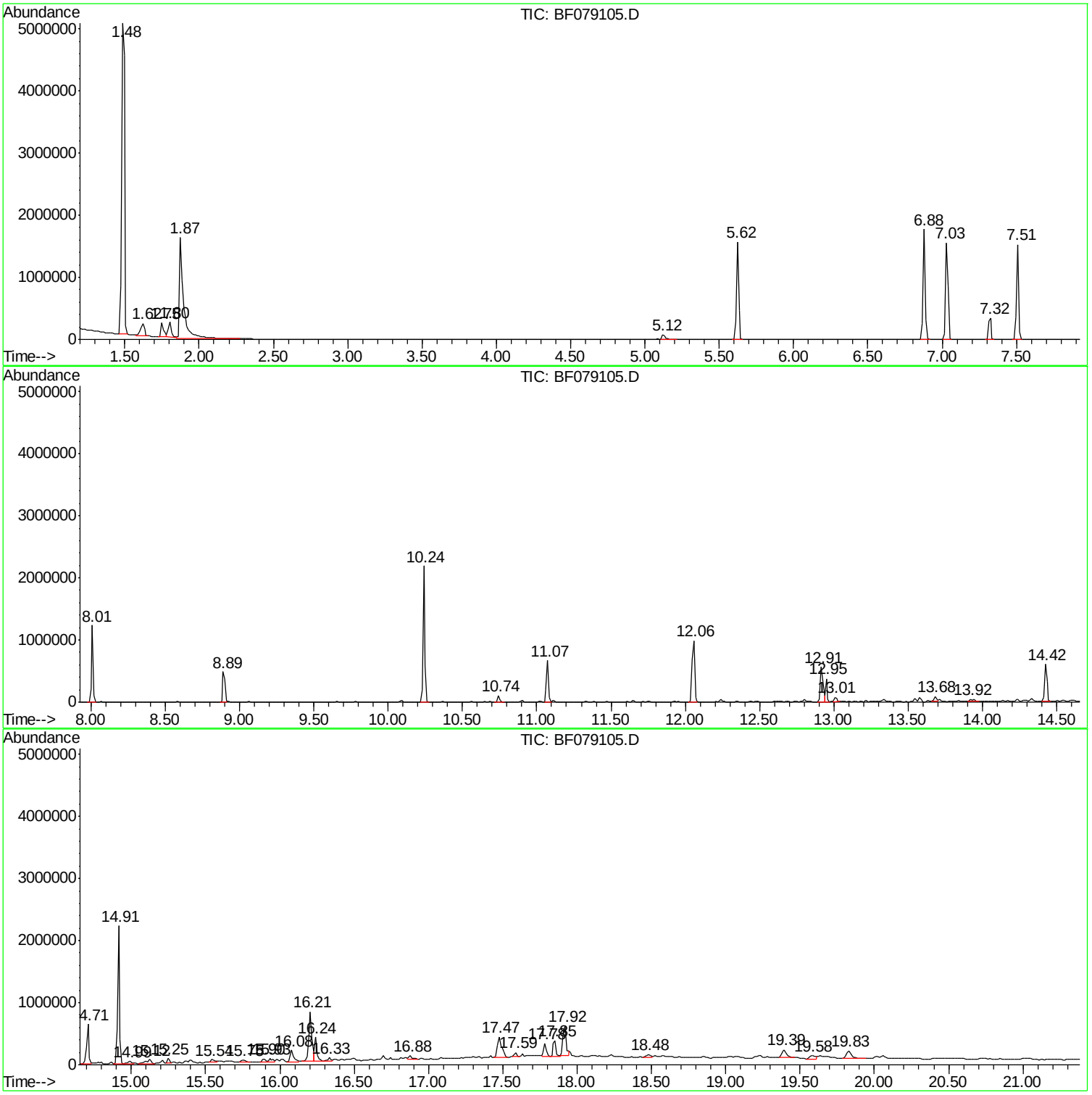
Acq On : 10 May 2015 3:05
Operator : TP/IZ
Sample : G2155-02
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-46AS

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050815\
Data File : BF079105.D
Acq On : 10 May 2015 3:05
Operator : TP/IZ
Sample : G2155-02
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-46AS

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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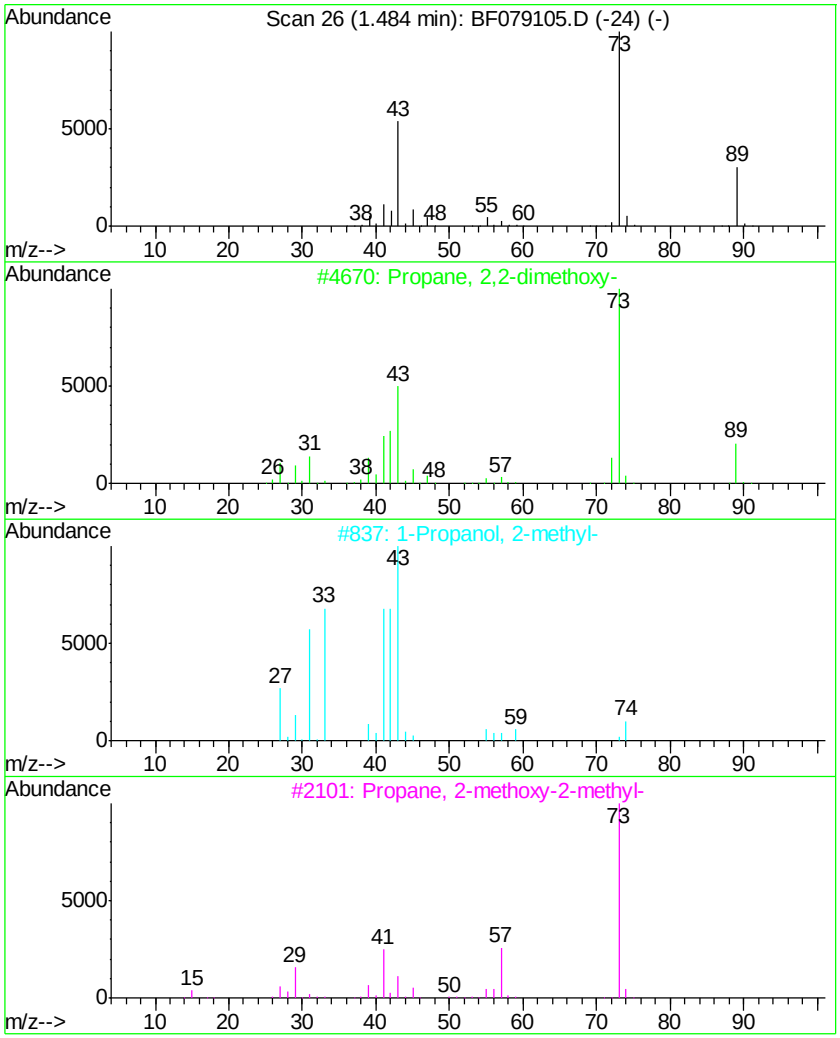
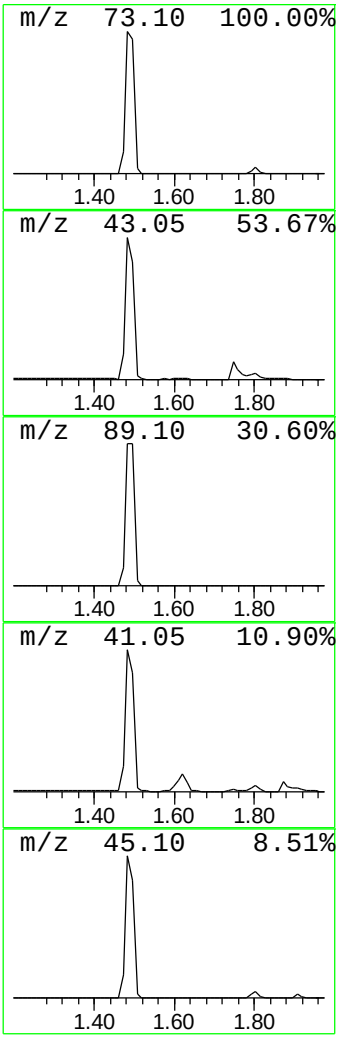
Peak Number 1 Propane, 2,2-dimethoxy- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.48	318.36 ng	7152050	1,4-Dichlorobenzene-d4	7.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propane, 2,2-dimethoxy-	104	C5H12O2	000077-76-9	56
2	1-Propanol, 2-methyl-	74	C4H10O	000078-83-1	9
3	Propane, 2-methoxy-2-methyl-	88	C5H12O	001634-04-4	9
4	Propanoic acid, 2-methyl-, propy...	130	C7H14O2	000644-49-5	9
5	2-Butanone, 3-methoxy-3-methyl-	116	C6H12O2	036687-98-6	9





Data Path : Z:\HPCHEM1\BNA F\DATA\BF050815\
Data File : BF079105.D
Acq On : 10 May 2015 3:05
Operator : TP/IZ
Sample : G2155-02
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-46AS

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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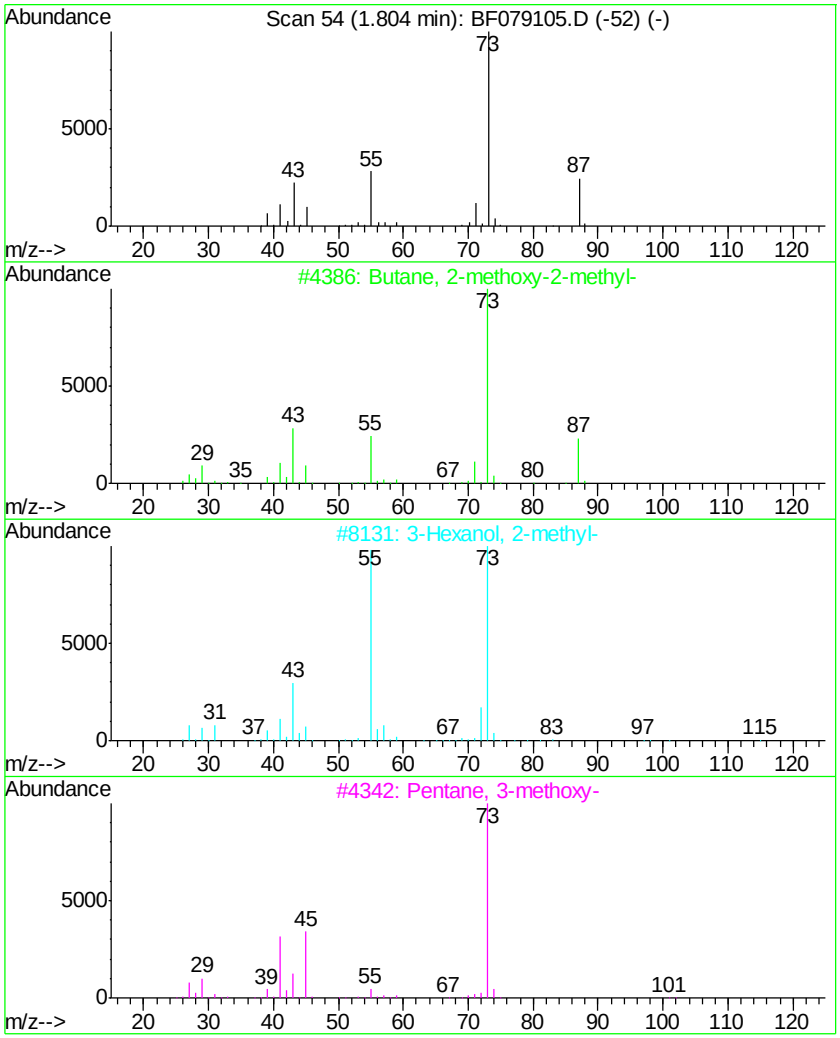
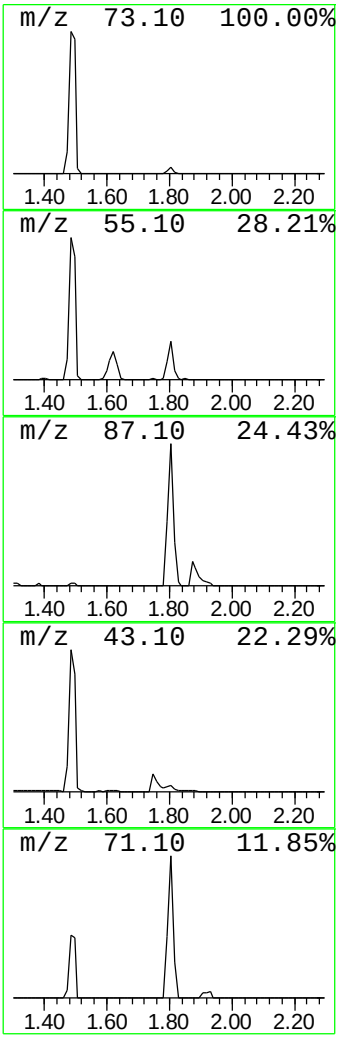
Peak Number 4 Butane, 2-methoxy-2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.80	13.81 ng	310329	1,4-Dichlorobenzene-d4	7.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	3-Hexanol, 2-methyl-	116	C7H16O	000617-29-8	23
3	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	12
4	Silane, tetramethyl-	88	C4H12Si	000075-76-3	9
5	N-Ethylformamide	73	C3H7NO	000627-45-2	9





Data Path : Z:\HPCHEM1\BNA F\DATA\BF050815\
Data File : BF079105.D
Acq On : 10 May 2015 3:05
Operator : TP/IZ
Sample : G2155-02
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-46AS

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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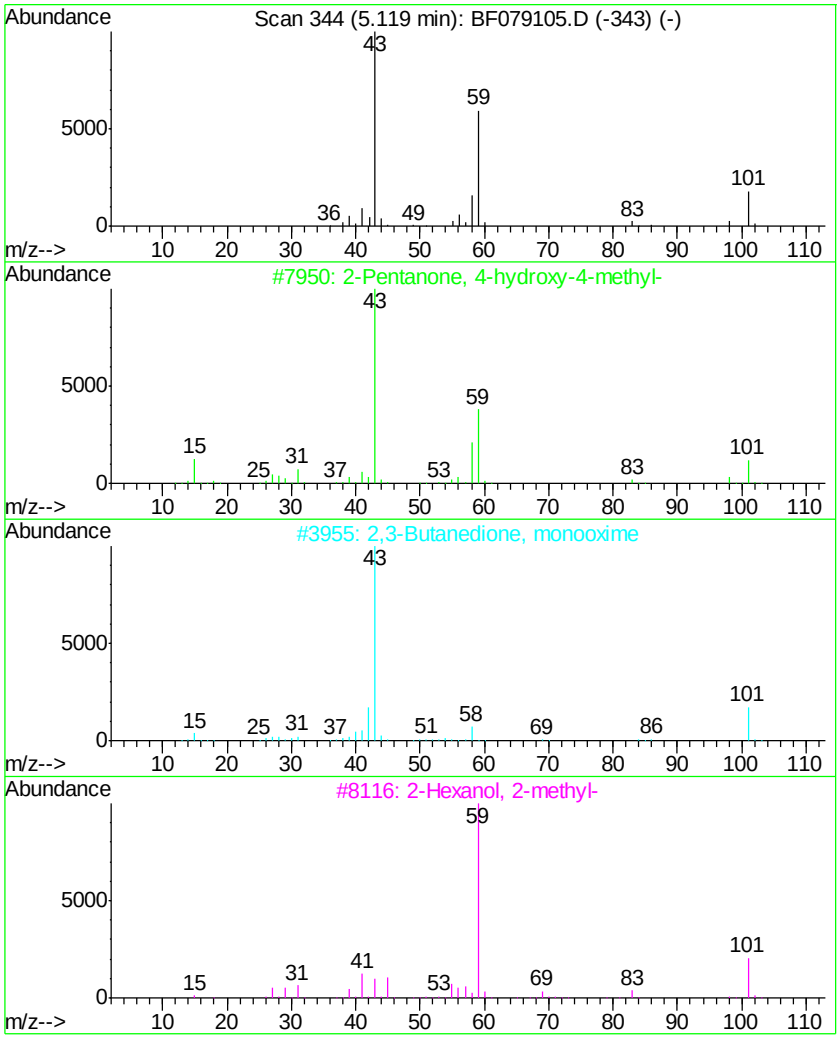
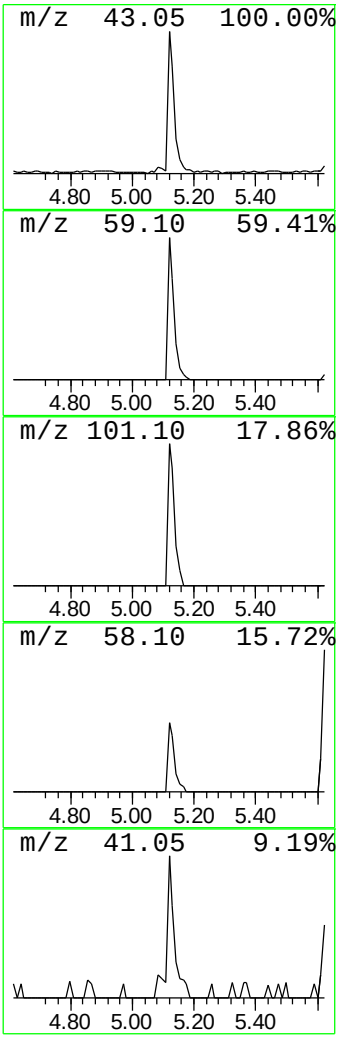
Peak Number 6 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.12	4.86 ng	109150	1,4-Dichlorobenzene-d4	7.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	64
2	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	35
3	2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	28
4	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	23
5	Butane, 1-ethoxy-	102	C6H14O	000628-81-9	9





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050815\
Data File : BF079105.D
Acq On : 10 May 2015 3:05
Operator : TP/IZ
Sample : G2155-02
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-46AS

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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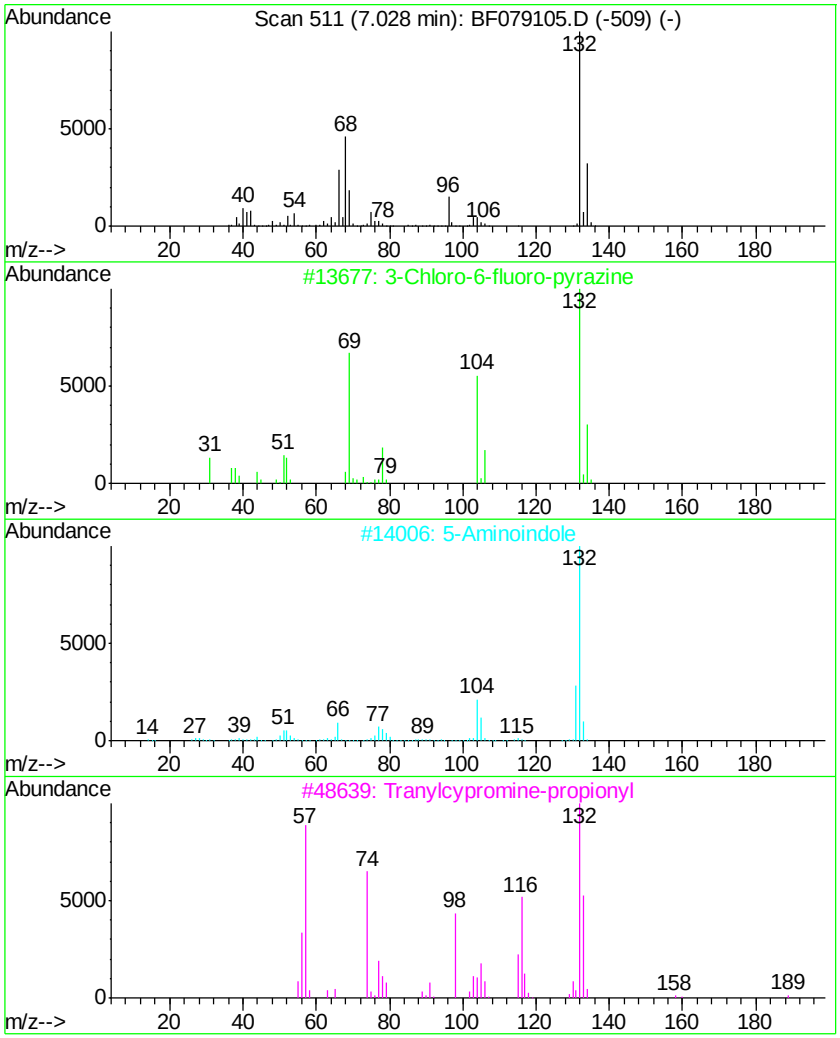
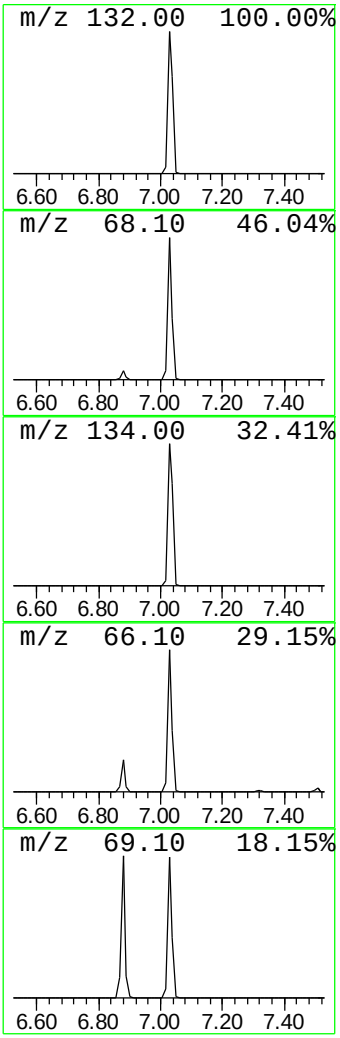
Peak Number 7 unknown7.03 Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.03	76.94 ng	1728390	1,4-Dichlorobenzene-d4	7.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2	5-Aminoindole	132	C8H8N2	005192-03-0	12
3	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10
4	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	9
5	Bicyclo[4.2.0]octa-1,3,5-triene,...	132	C10H12	028749-81-7	9





Data Path : Z:\HPCHEM1\BNA F\DATA\BF050815\
Data File : BF079105.D
Acq On : 10 May 2015 3:05
Operator : TP/IZ
Sample : G2155-02
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-46AS

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

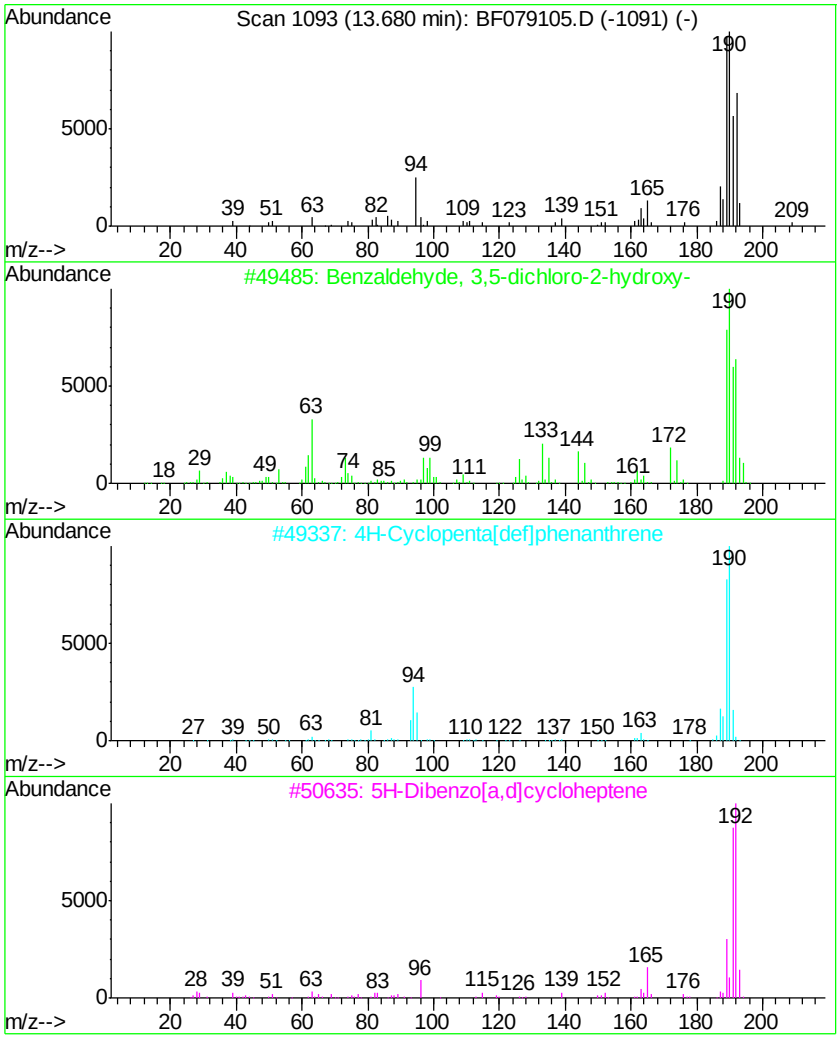
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

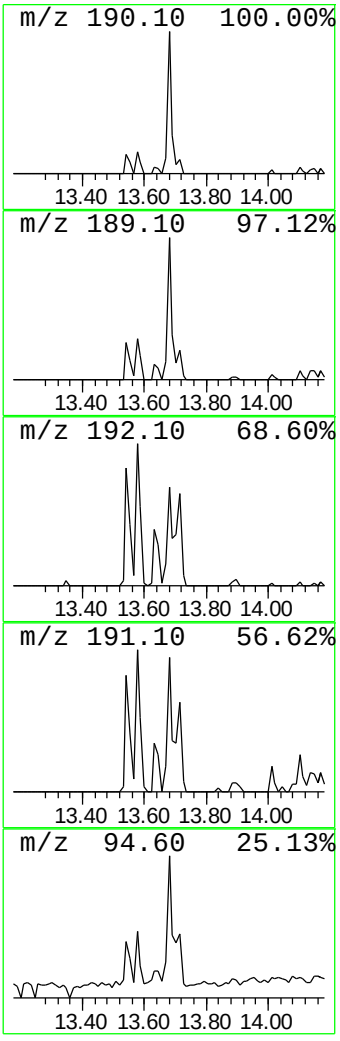
****

Peak Number 9 Benzaldehyde, 3,5-dichloro-... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.68	2.69 ng	93484	Phenanthrene-d10	12.91

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	64
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	58
3	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	30
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	30
5	3-Bromo-2-furoic acid	190	C5H3BrO3	014903-90-3	27





Data Path : Z:\HPCHEM1\BNA F\DATA\BF050815\
Data File : BF079105.D
Acq On : 10 May 2015 3:05
Operator : TP/IZ
Sample : G2155-02
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-46AS

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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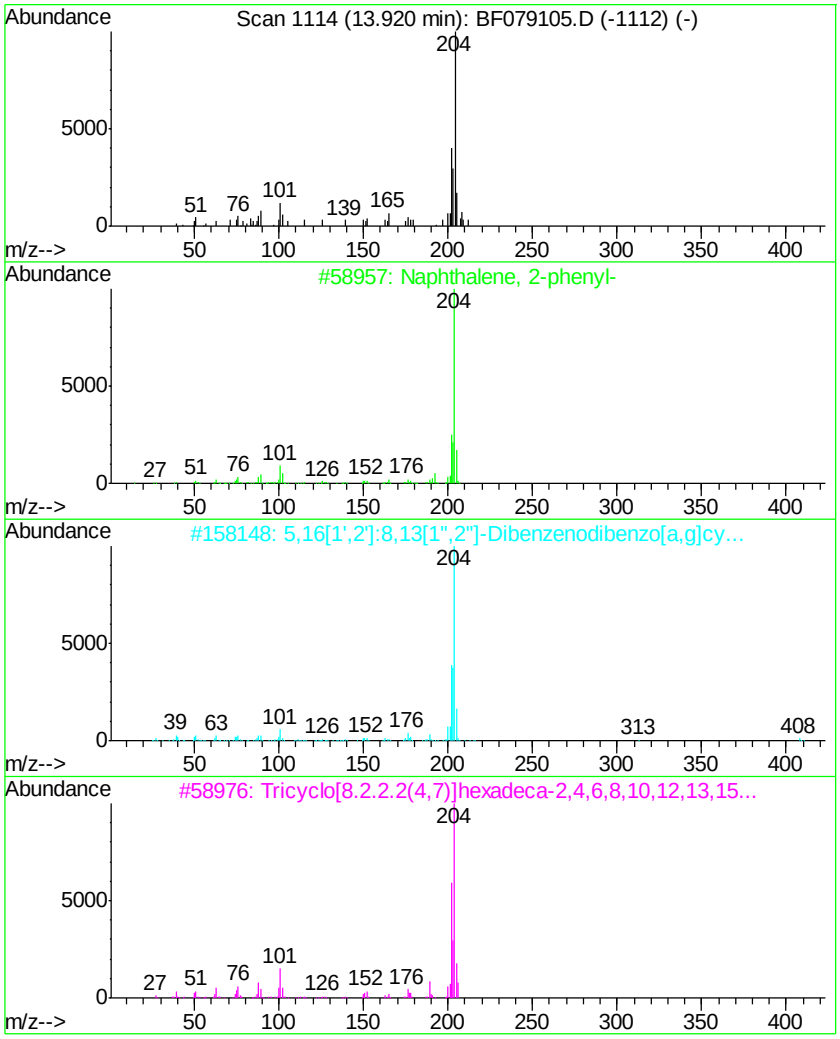
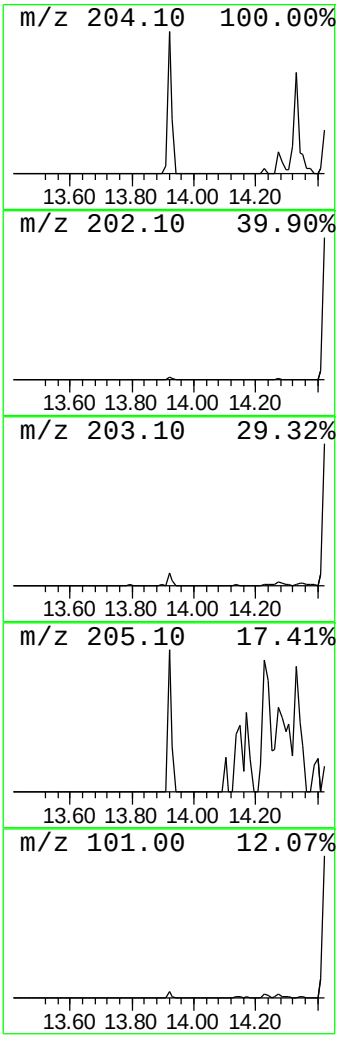
Peak Number 10 Naphthalene, 2-phenyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.92	2.12 ng	73857	Phenanthrene-d10	12.91

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	86
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	78
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	70
4	2-Phenylnaphthalene	204	C16H12	035465-71-5	64
5	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	58





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Operator : TP/IZ
Sample : G2155-02
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-46AS

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

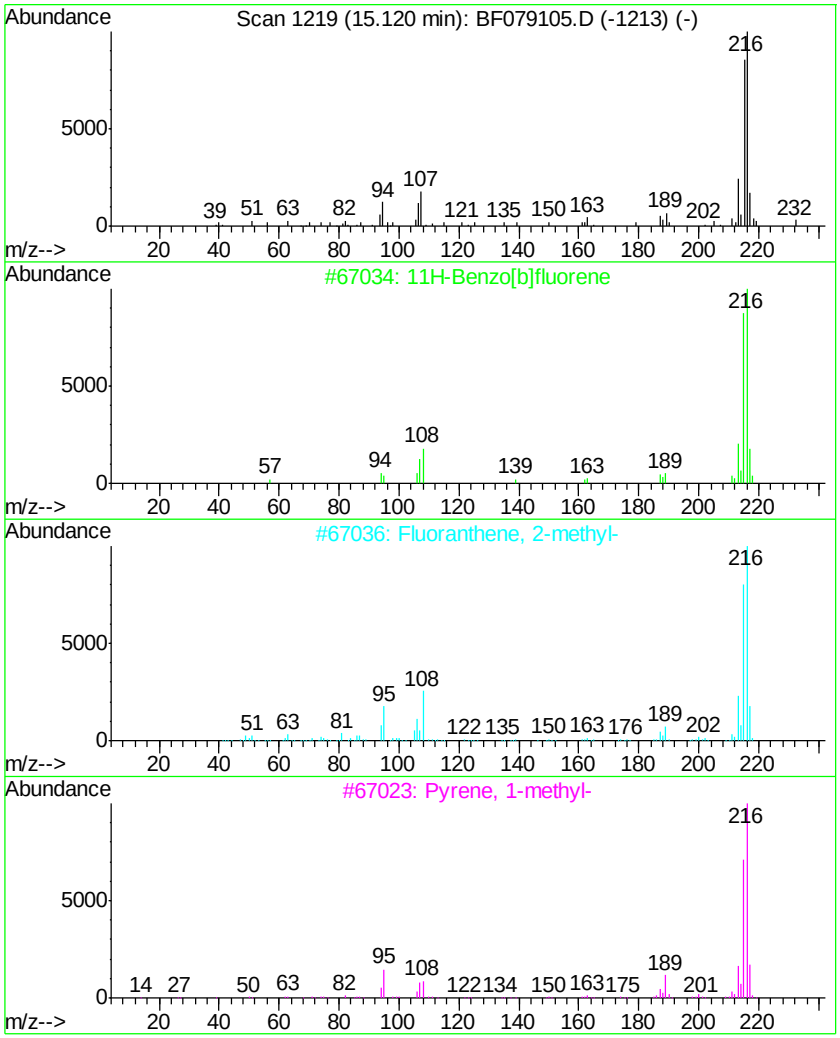
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

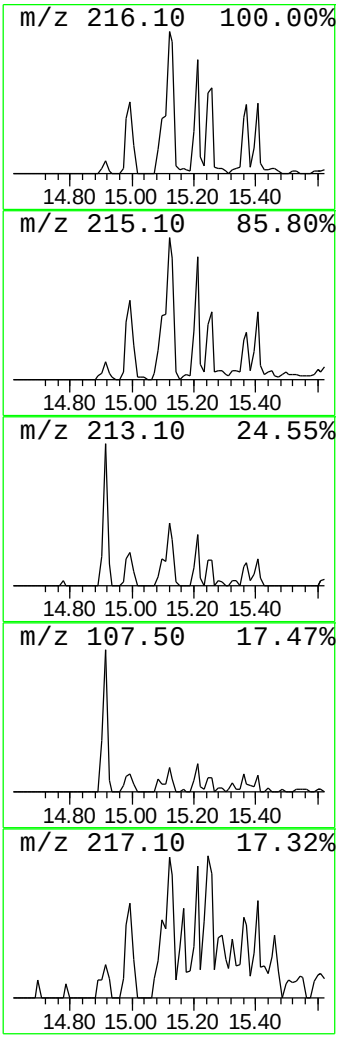
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.12	2.33 ng	147994	Chrysene-d12	16.21

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	94
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	87
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	87
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	81
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	81





Data Path : Z:\HPCHEM1\BNA F\DATA\BF050815\
Data File : BF079105.D
Acq On : 10 May 2015 3:05
Operator : TP/IZ
Sample : G2155-02
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-46AS

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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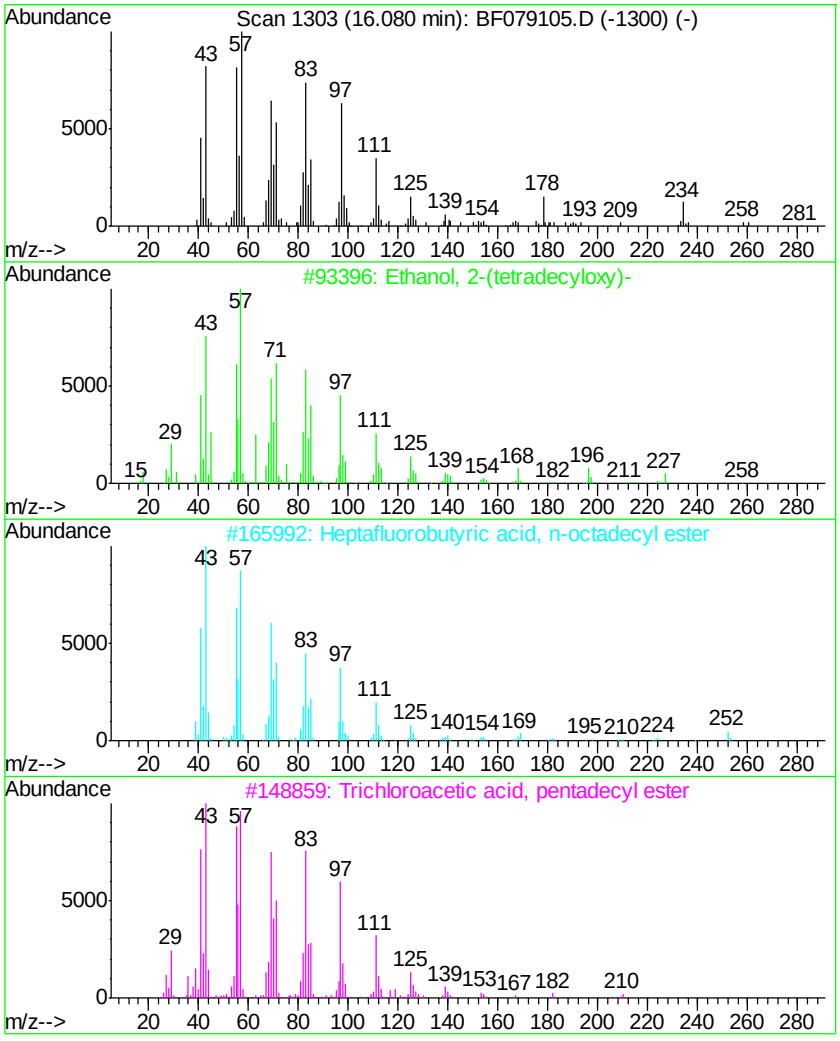
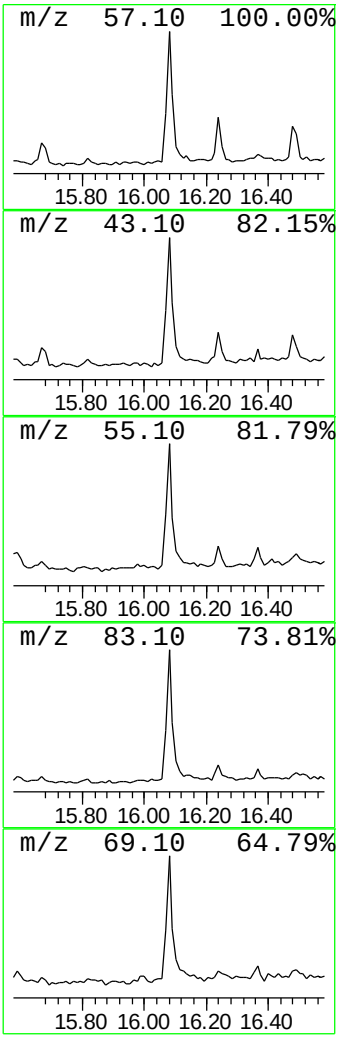
Peak Number 12 Ethanol, 2-(tetradecyloxy)- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.08	4.53 ng	288386	Chrysene-d12	16.21

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanol, 2-(tetradecyloxy)-	258	C16H34O2	002136-70-1	90
2	Heptafluorobutyric acid, n-octad...	466	C22H37F7O2	000400-57-7	90
3	Trichloroacetic acid, pentadecyl...	372	C17H31Cl3O2	074339-53-0	90
4	2- Chloropropionic acid, octadec...	360	C21H41ClO2	088104-31-8	87
5	1-Tetracosanol	354	C24H50O	000506-51-4	87





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Acq On : 10 May 2015 3:05
Operator : TP/IZ
Sample : G2155-02
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-46AS

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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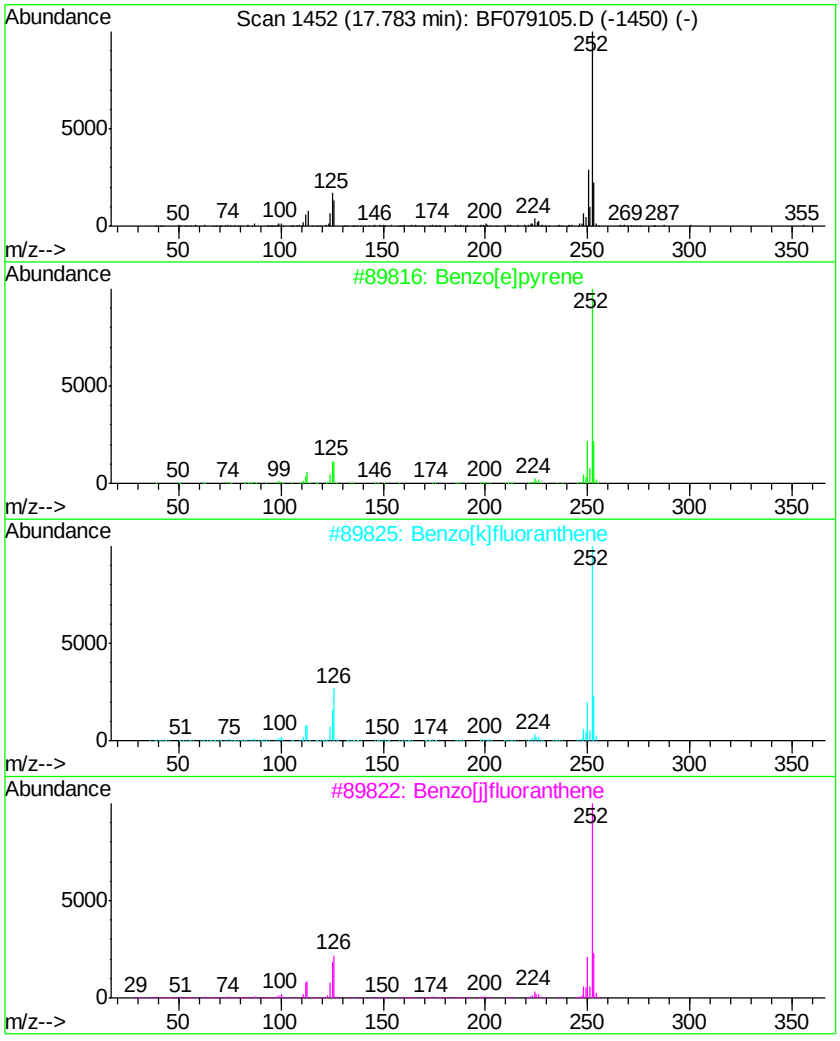
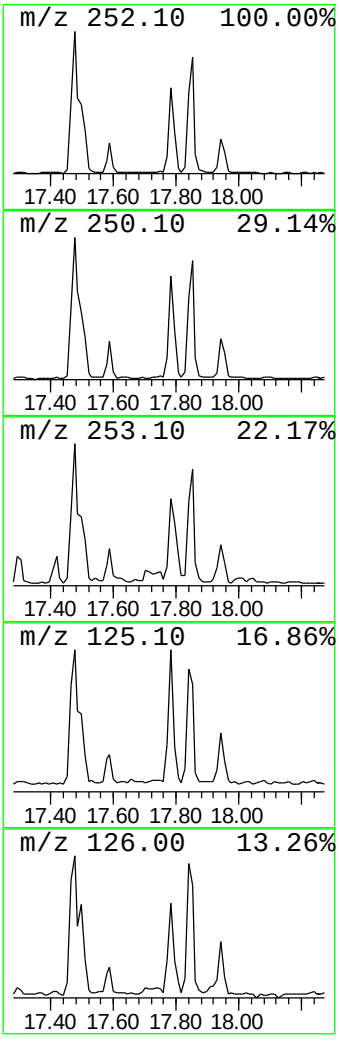
Peak Number 14 Benzo[e]pyrene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.78	6.56 ng	243083	Perylene-d12	17.92

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	94
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93
3	Benzo[j]fluoranthene	252	C20H12	000205-82-3	93
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
5	Benzo[a]pyrene	252	C20H12	000050-32-8	92





Data Path : Z:\HPCHEM1\BNA F\DATA\BF050815\
Data File : BF079105.D
Acq On : 10 May 2015 3:05
Operator : TP/IZ
Sample : G2155-02
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-46AS

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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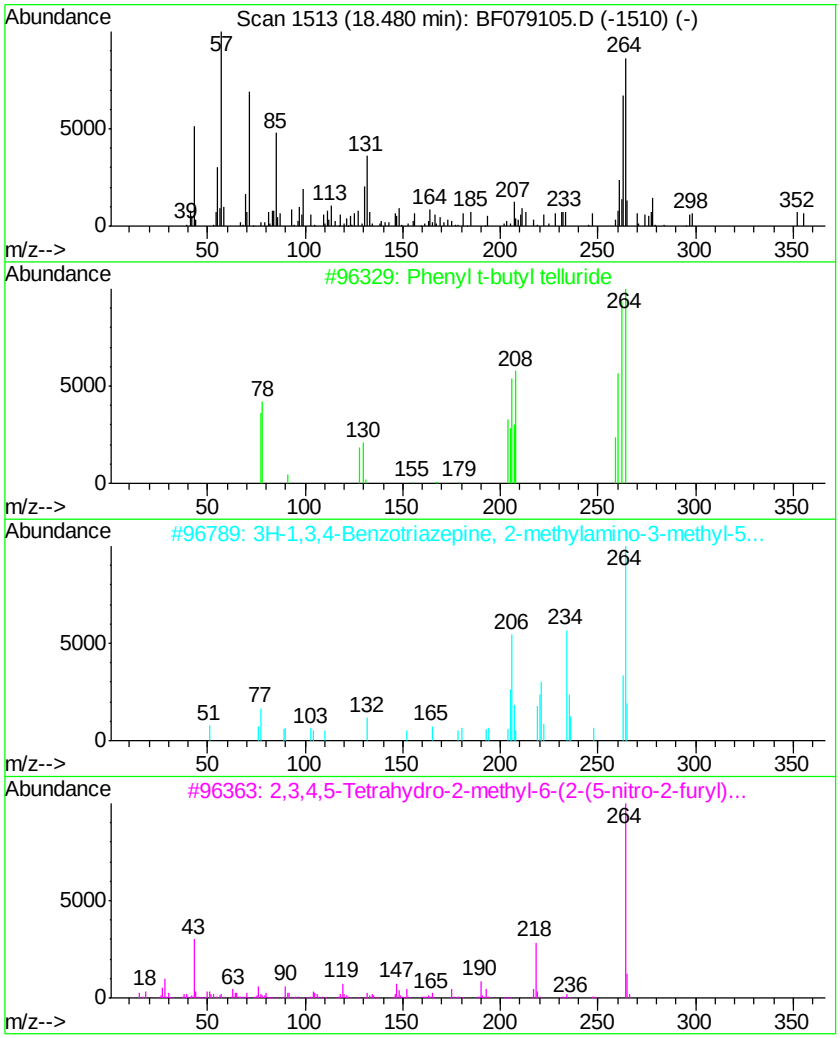
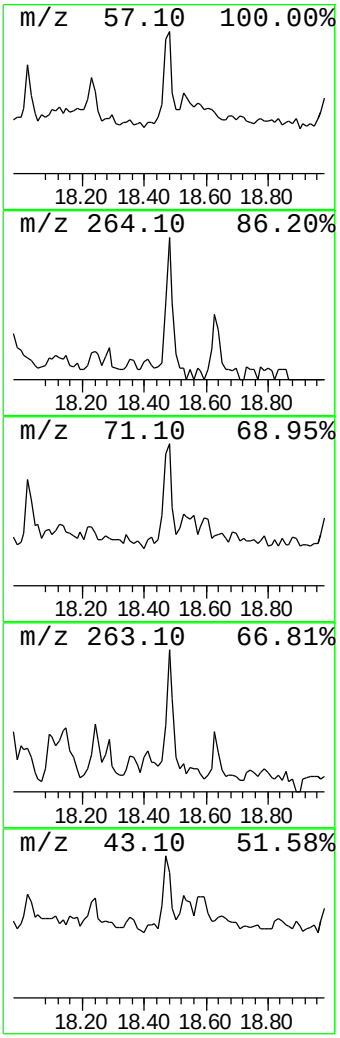
Peak Number 15 unknown18.48 Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.48	2.25 ng	83429	Perylene-d12	17.92

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenyl t-butyl telluride	264	C10H14Te	083817-38-3	38
2	3H-1,3,4-Benzotriazepine, 2-meth...	264	C16H16N4	121364-85-0	25
3	2,3,4,5-Tetrahydro-2-methyl-6-(2...	264	C10H8N4O5	017427-31-5	14
4	3-Hydroxycinnamic acid, ethyl es...	264	C14H20O3Si	1000071-70-0	14
5	Dodecane, 1-iodo-	296	C12H25I	004292-19-7	11





Data Path : Z:\HPCHEM1\BNA F\DATA\BF050815\
Data File : BF079105.D
Acq On : 10 May 2015 3:05
Operator : TP/IZ
Sample : G2155-02
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-46AS

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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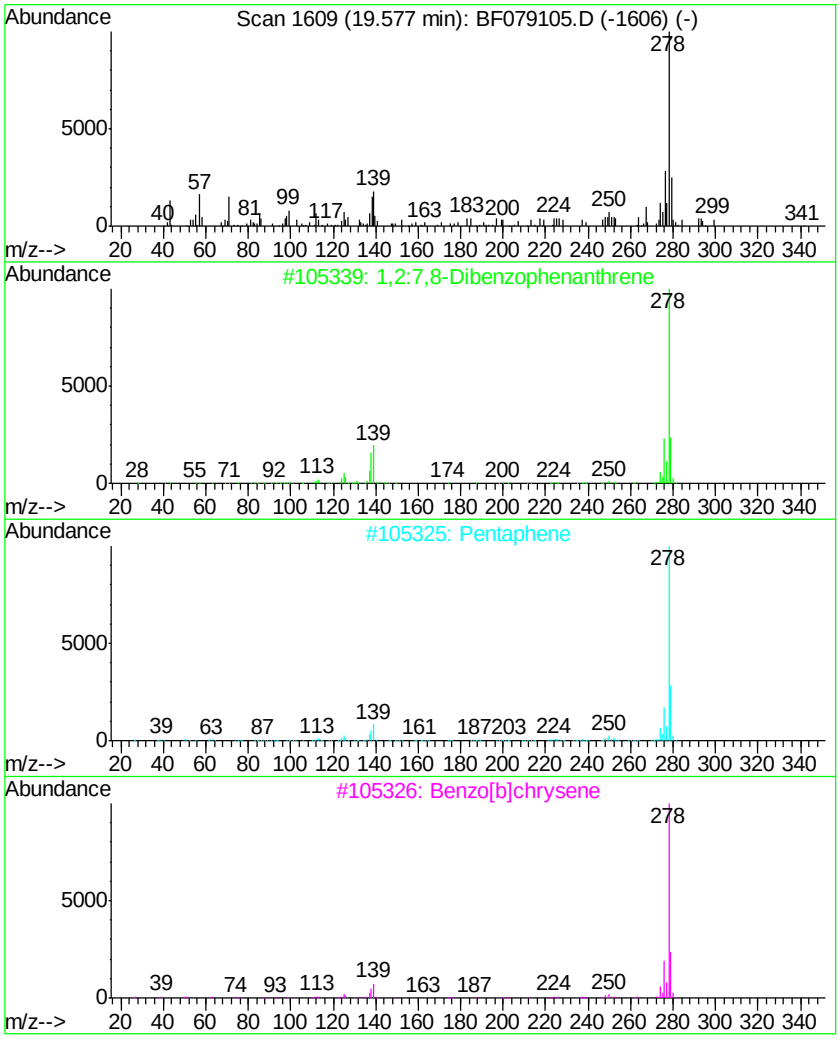
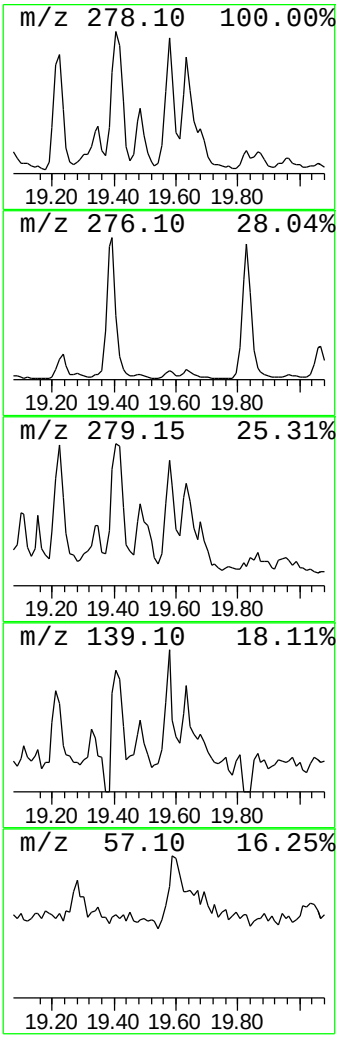
Peak Number 16 1,2:7,8-Dibenzophenanthrene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.58	3.84 ng	142157	Perylene-d12	17.92

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	96
2	Pentaphene	278	C22H14	000222-93-5	93
3	Benzo[b]chrysene	278	C22H14	000214-17-5	83
4	Naphtho[1,2-a]anthracene	278	C22H14	000195-06-2	83
5	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	83





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050815\
Data File : BF079105.D
Acq On : 10 May 2015 3:05
Operator : TP/IZ
Sample : G2155-02
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-46AS

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.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
Propane, 2,2-dime...	1.48	318.4	ng	7152050	1	7.32	449306	20.0
Butane, 2-methoxy...	1.80	13.8	ng	310329	1	7.32	449306	20.0
2-Pentanone, 4-hy...	5.12	4.9	ng	109150	1	7.32	449306	20.0
unknown7.03	7.03	76.9	ng	1728390	1	7.32	449306	20.0
Benzaldehyde, 3,5...	13.68	2.7	ng	93484	4	12.91	696041	20.0
Naphthalene, 2-ph...	13.92	2.1	ng	73857	4	12.91	696041	20.0
11H-Benzo[b]fluorene	15.12	2.3	ng	147994	5	16.21	1272170	20.0
Ethanol, 2-(tetra...	16.08	4.5	ng	288386	5	16.21	1272170	20.0
Benzo[e]pyrene	17.78	6.6	ng	243083	6	17.92	741336	20.0
unknown18.48	18.48	2.3	ng	83429	6	17.92	741336	20.0
1,2:7,8-Dibenzoph...	19.58	3.8	ng	142157	6	17.92	741336	20.0