LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070618\
Data File : BF107187.D
Acq On : 6 Jul 2018 21:39
Operator : JU/SJ
Sample : J3874-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 2018-NYSEG-MCMASTER-PH4-5(0-

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_F\METHODS\8270-BF061918.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	5.184	476	484	504	rBB	135873	170859	7.33%	0.803%
2	5.590	549	553	572	rVB	1148919	1097352	47.09%	5.158%
3	6.596	718	724	734	rBV	1027326	1142458	49.02%	5.370%
4	6.725	741	746	750	rBV	1262247	1108332	47.56%	5.210%
5	6.943	777	783	789	rBV	394709	337513	14.48%	1.587%
6	7.101	803	810	817	rVB	989110	873731	37.49%	4.107%
7	7.513	875	880	894	rBV	717493	725493	31.13%	3.410%
8	8.225	997	1001	1027	rVB	402872	422366	18.12%	1.985%
9	9.301	1178	1184	1192	rBV	1225202	1088013	46.69%	5.114%
10	9.695	1245	1251	1260	rVB	155188	151610	6.51%	0.713%
11	9.984	1294	1300	1310	rVB	419676	418611	17.96%	1.968%
12	10.783	1429	1436	1447	rBV	692355	672825	28.87%	3.163%
13	11.483	1550	1555	1557	rBV	388088	382975	16.43%	1.800%
14	11.507	1557	1559	1564	rVV	239369	199906	8.58%	0.940%
15	11.554	1564	1567	1577	rVB	76176	90259	3.87%	0.424%
16	12.013	1642	1645	1649	rVB	84582	71588	3.07%	0.337%
17	12.095	1656	1659	1666	rBV2	86271	149416	6.41%	0.702%
18	12.413	1710	1713	1718	rBV2	73781	78499	3.37%	0.369%
19	12.530	1730	1733	1737	rBV2	66471	77516	3.33%	0.364%
20	12.701	1758	1762	1765	rBV	739617	681063	29.22%	3.201%
21	12.930	1794	1801	1806	rVV2	622131	708242	30.39%	3.329%
22	13.060	1814	1823	1832	rBV	1000040	1015981	43.59%	4.776%
23	13.142	1832	1837	1843	rBV4	61351	122199	5.24%	0.574%
24	13.201	1843	1847	1849	rVV	91409	80432	3.45%	0.378%
25	13.260	1849	1857	1861	rVB2	86718	164797	7.07%	0.775%
26	13.324	1861	1868	1870	rBV	70593	75887	3.26%	0.357%
27	13.360	1870	1874	1881	rVB2	88567	142605	6.12%	0.670%
28	13.489	1893	1896	1905	rVB2	58691	81909	3.51%	0.385%
29	13.607	1914	1916	1936	rBV10	22878	95386	4.09%	0.448%
30	13.772	1941	1944	1958	rVV	87582	121734	5.22%	0.572%
31	13.883	1958	1963	1965	rVV	58688	75214	3.23%	0.354%
32	13.936	1969	1972	1977	rVV2	95487	128246	5.50%	0.603%
33	14.077	1987	1996	1999	rBV2	36097	79515	3.41%	0.374%
34	14.130	1999	2005	2008	rVV2	581451	875874	37.58%	4.117%

LSC Area Percent Report

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Operator : JU/SJ
Sample : J3874-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 2018-NYSEG-MCMASTER-PH4-5(0-

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_F\METHODS\8270-BF061918.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	14.160	2008	2010	2021	rVV	368858	335338	14.39%	1.576%
36	14.289	2030	2032	2063	rVB7	27529	130432	5.60%	0.613%
37	14.524	2068	2072	2075	rVV	124978	206706	8.87%	0.972%
38	14.560	2075	2078	2091	rVV4	101250	410907	17.63%	1.932%
39	14.654	2091	2094	2156	rVV8	90188	1246786	53.50%	5.861%
40	15.036	2157	2159	2184	rVV5	78960	481512	20.66%	2.263%
41	15.213	2184	2189	2205	rVV	232549	735075	31.54%	3.455%
42	15.324	2205	2208	2239	rVV2	78135	543661	23.33%	2.556%
43	15.530	2239	2243	2251	rVV	131059	290583	12.47%	1.366%
44	15.601	2251	2255	2262	rVV	184753	351331	15.08%	1.651%
45	15.666	2262	2266	2528	rVV2	264603	2330540	100.00%	10.955%
46	17.242	2528	2534	2611	rVV3	59353	309308	13.27%	1.454%
47	17.724	2611	2616	2827	rVB	36160	193230	8.29%	0.908%

Sum of corrected areas: 21273815

LSC Report - Integrated Chromatogram

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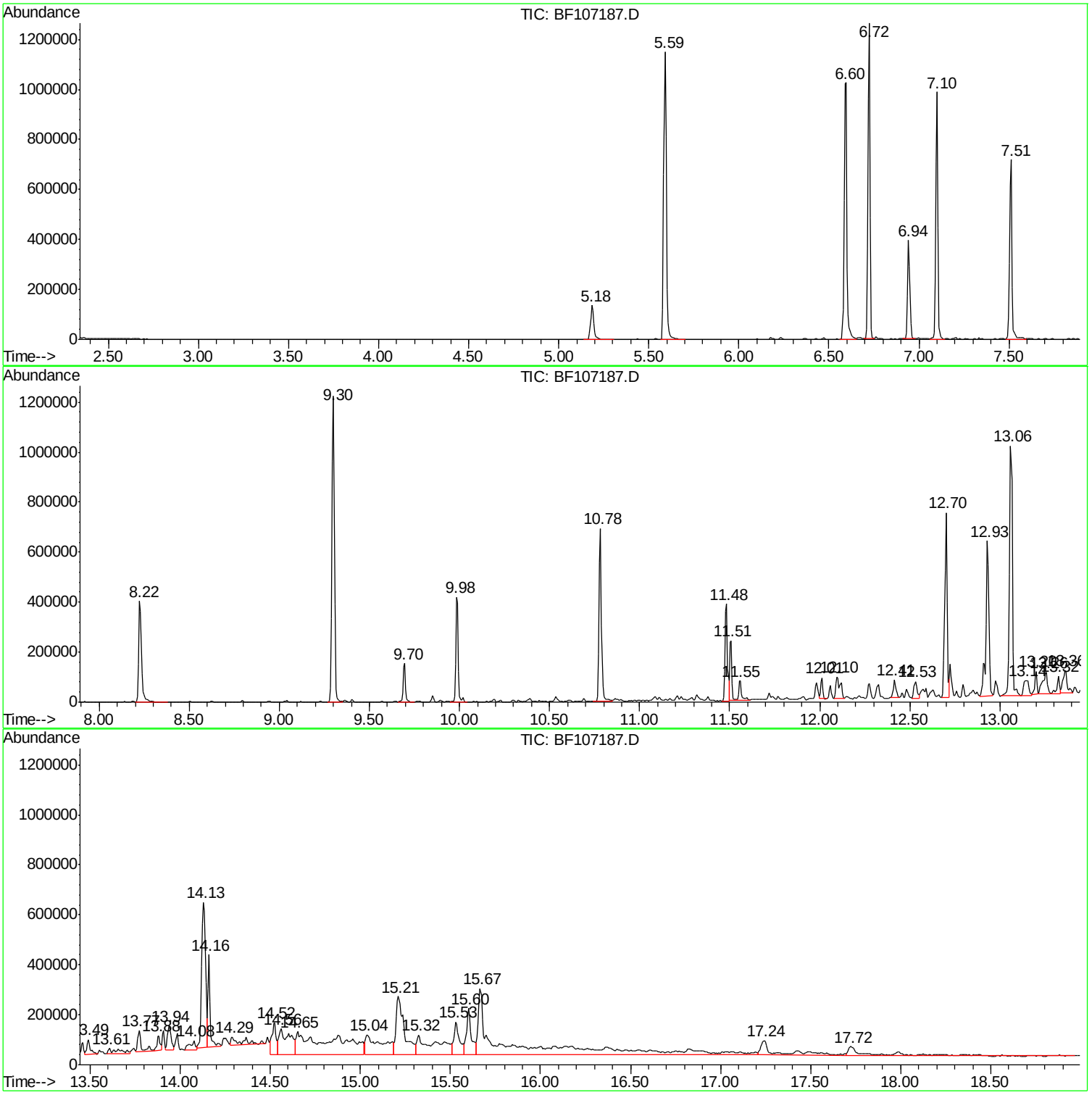
Sample : J3874-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
2018-NYSEG-MCMASTER-PH4-5(0-

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070618\
Data File : BF107187.D
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Instrument : BNA_F
ClientSampleId : 2018-NYSEG-MCMASTER-PH4-5(0-

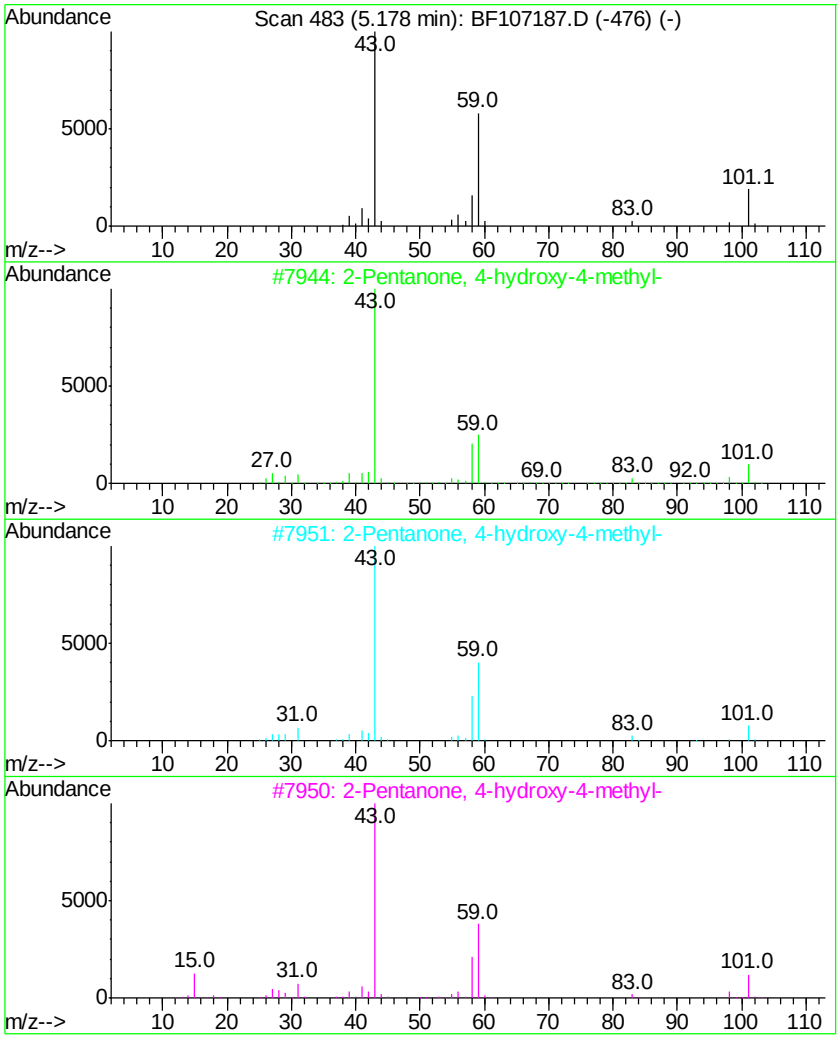
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

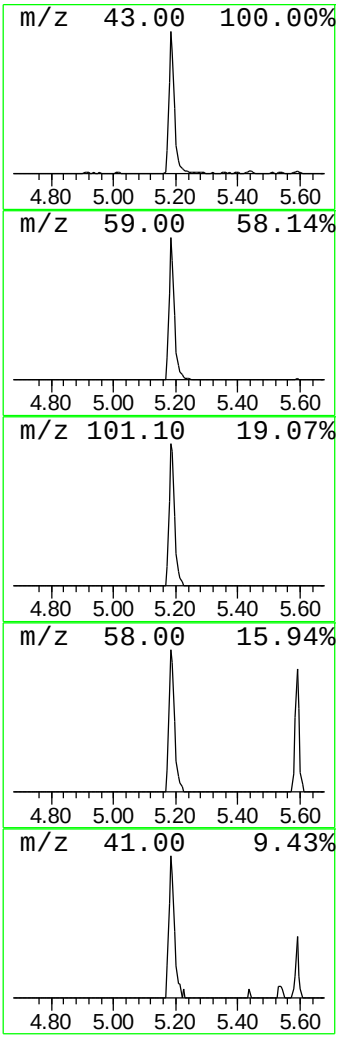
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: RTEINT.P

****
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.18	10.12 ng	170859	1,4-Dichlorobenzene-d4	6.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	64
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
3	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	40
4	3-Hexanol	102	C6H14O	000623-37-0	28
5	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	25





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Instrument : BNA_F
ClientSampleId : 2018-NYSEG-MCMASTER-PH4-5(0-

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

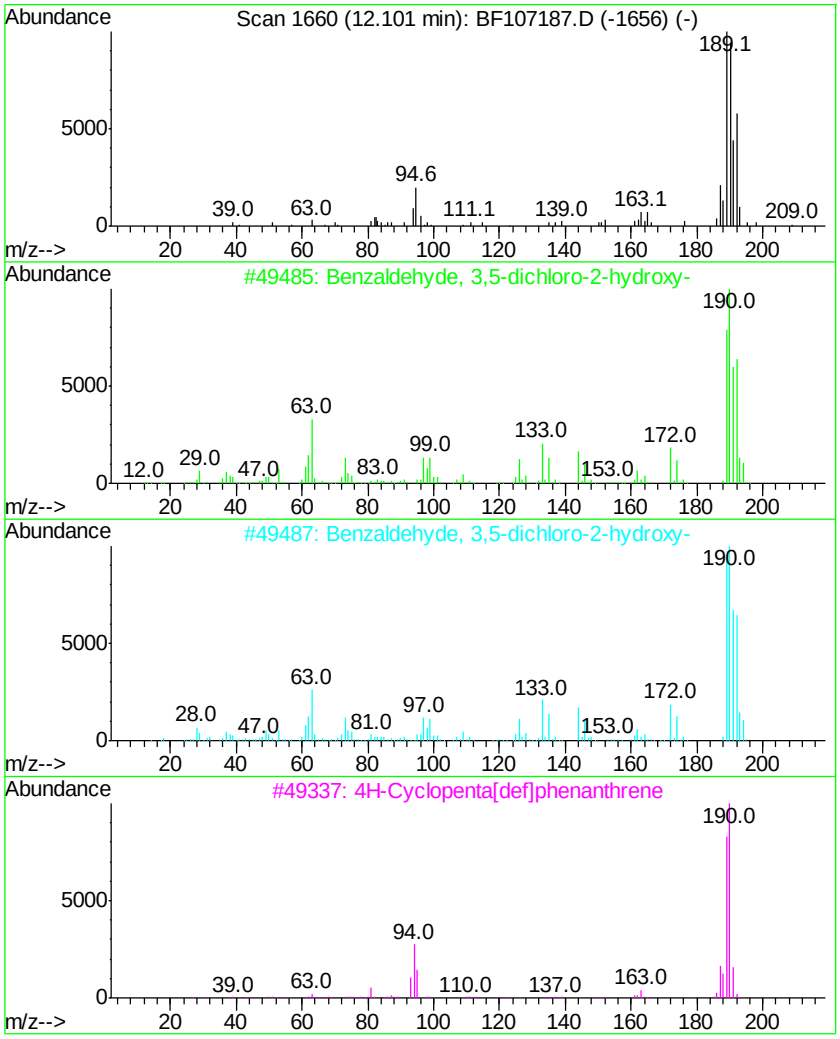
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: RTEINT.P

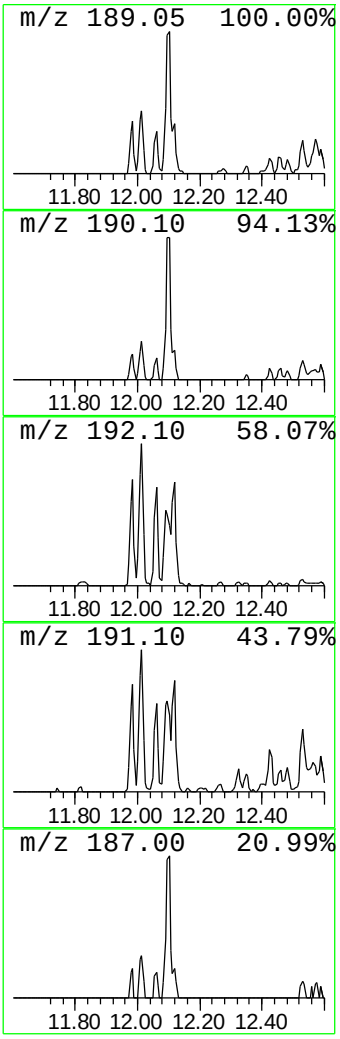
****

Peak Number 2 Benzaldehyde, 3,5-dichloro-... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.10	7.80 ng	149416	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	72
2	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	72
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	70
4	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	53
5	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	43





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Acq On : 6 Jul 2018 21:39
Operator : JU/SJ
Sample : J3874-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 2018-NYSEG-MCMASTER-PH4-5(0-

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

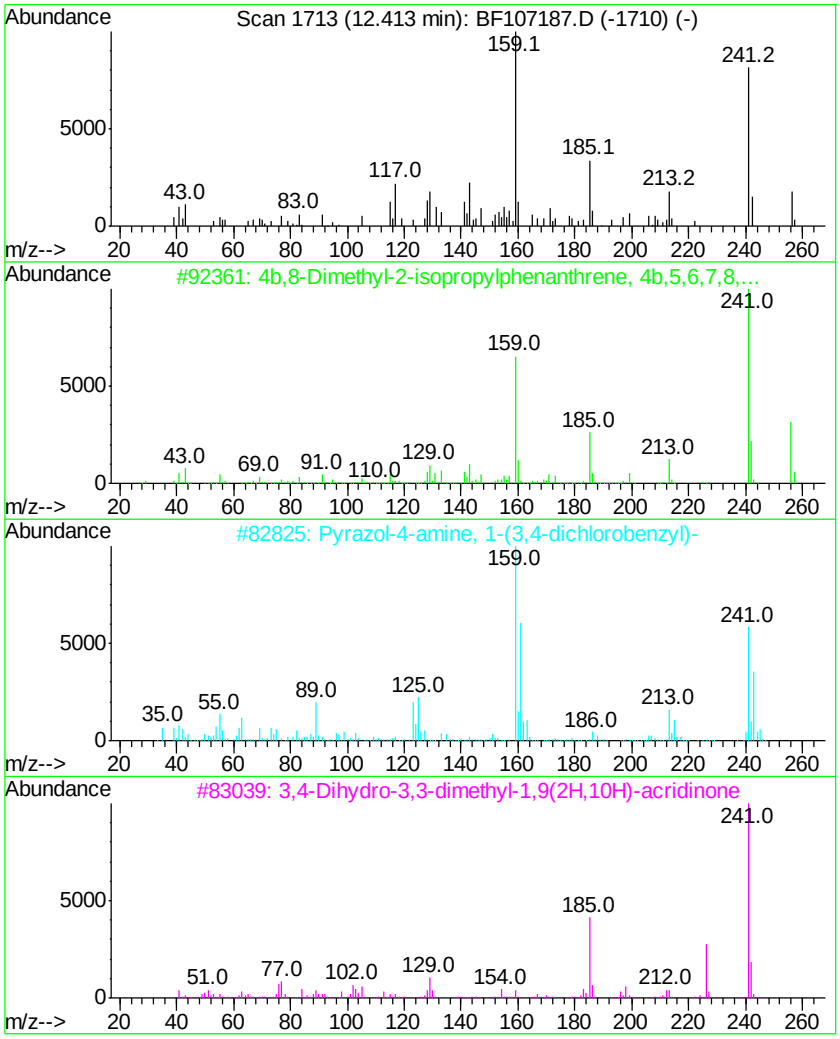
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: RTEINT.P

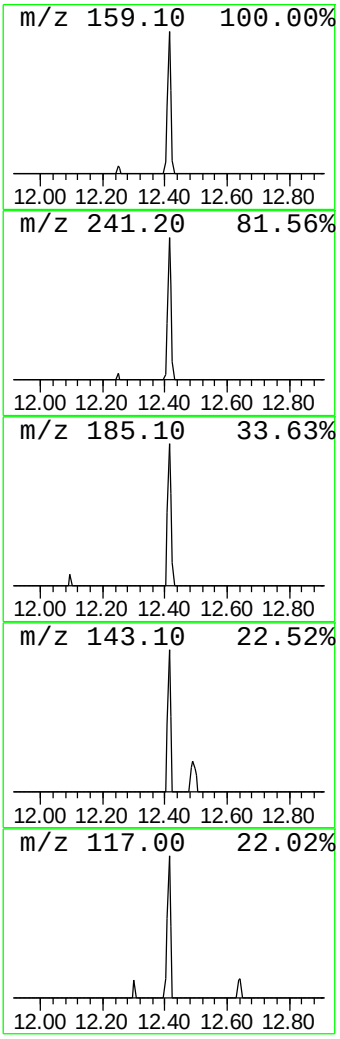
****

Peak Number 3 4b,8-Dimethyl-2-isopropylph... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.41	4.10 ng	78499	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4b,8-Dimethyl-2-isopropylphenant...	256	C19H28	1000197-14-1	95
2	Pyrazol-4-amine, 1-(3,4-dichloro...	241	C10H9Cl2N3	1000273-77-4	53
3	3,4-Dihydro-3,3-dimethyl-1,9(2H,...	241	C15H15NO2	1000212-95-2	41
4	s-Indacen-1(2H)-one, 3,5,6,7-tet...	256	C18H24O	038754-94-8	38
5	As-Indacene, 1,2,3,6,7,8-hexahyd...	256	C19H28	017465-47-3	35





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070618\
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Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
2018-NYSEG-MCMASTER-PH4-5(0-

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

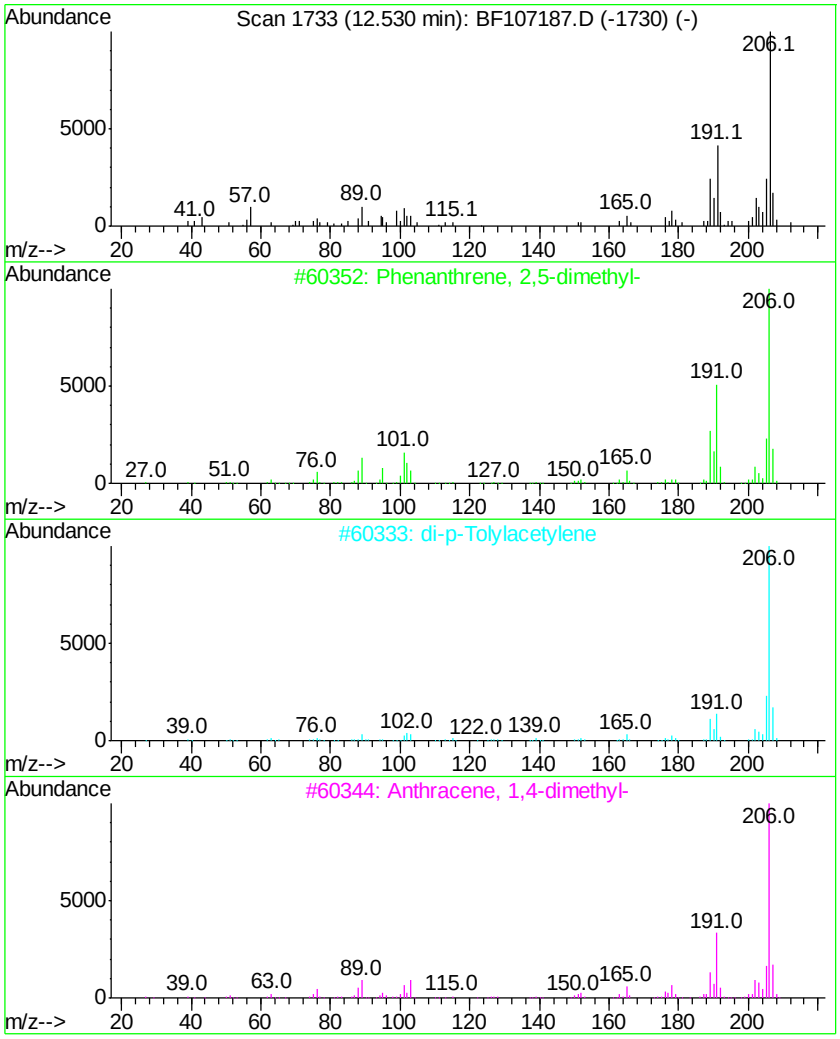
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: RTEINT.P

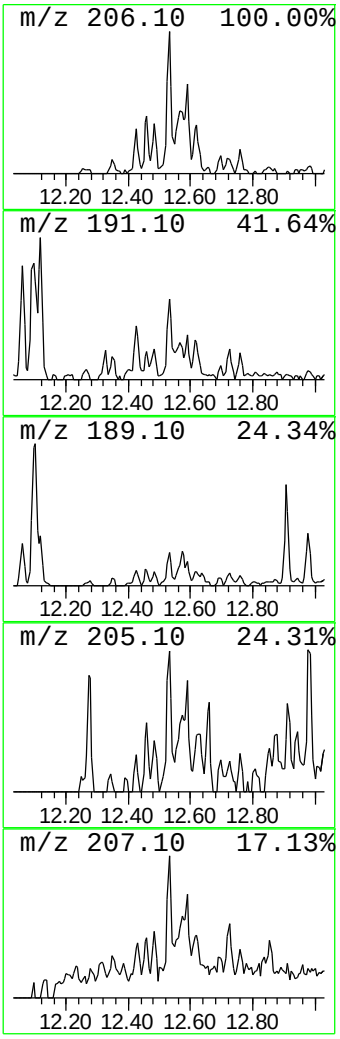
****

Peak Number 4 Phenanthrene, 2,5-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.53	4.05 ng	77516	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	95
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	94
3	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	94
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	93
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	93





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Sample : J3874-01
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ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
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TIC Library : C:\DATABASE\NIST02.L
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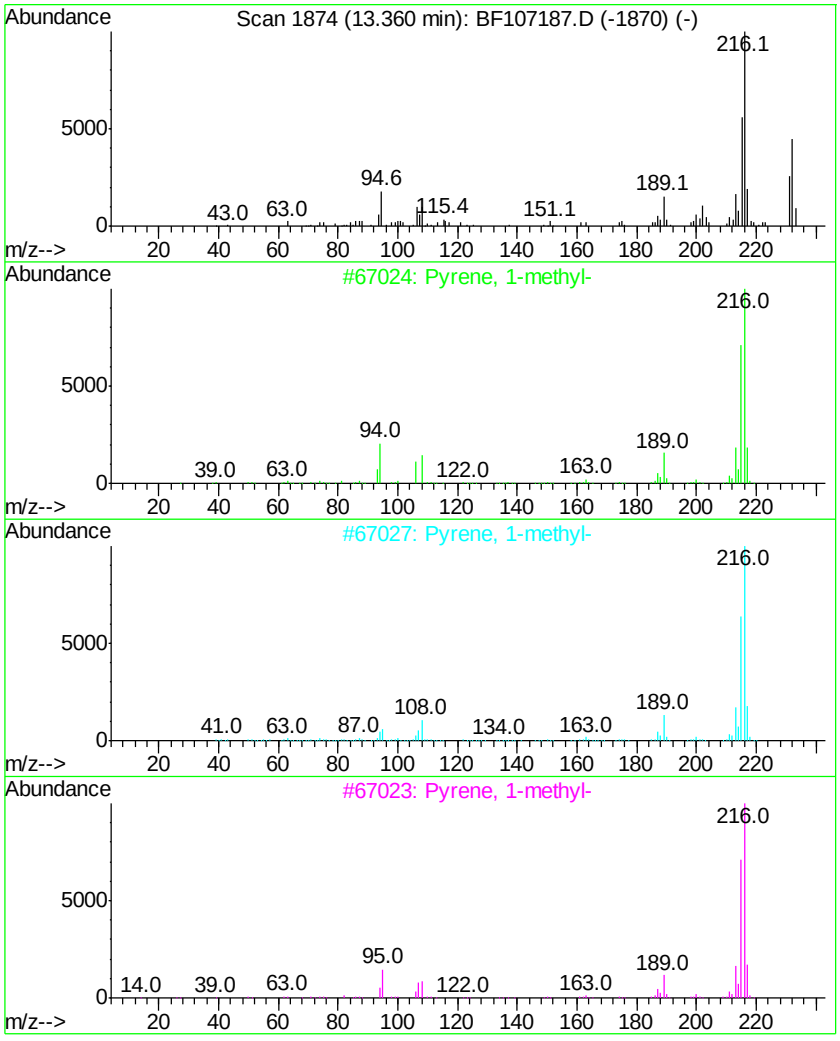
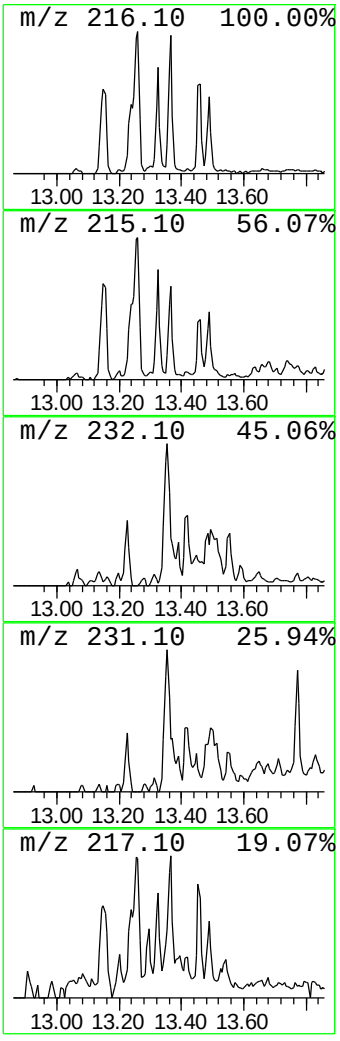
****

Peak Number 7 Pyrene, 1-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.36	3.26 ng	142605	Chrysene-d12	14.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	95
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	92
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	91
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	83





Library Search Compound Report

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ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 2018-NYSEG-MCMASTER-PH4-5(0-

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
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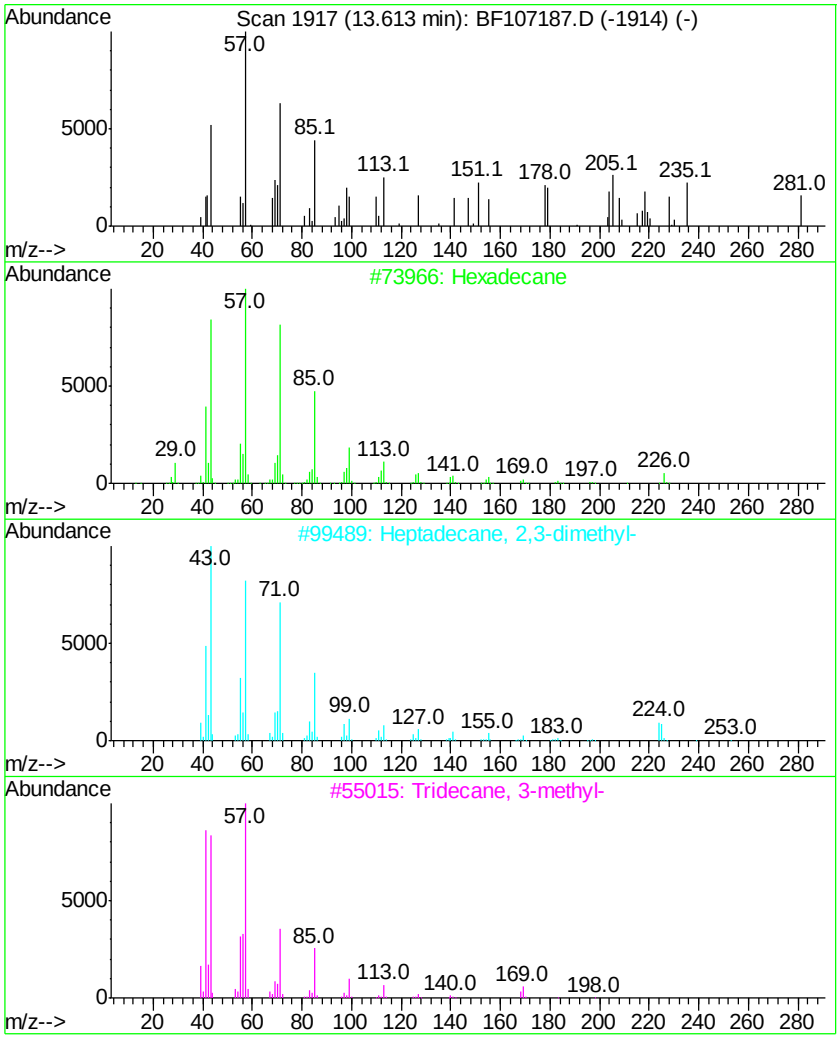
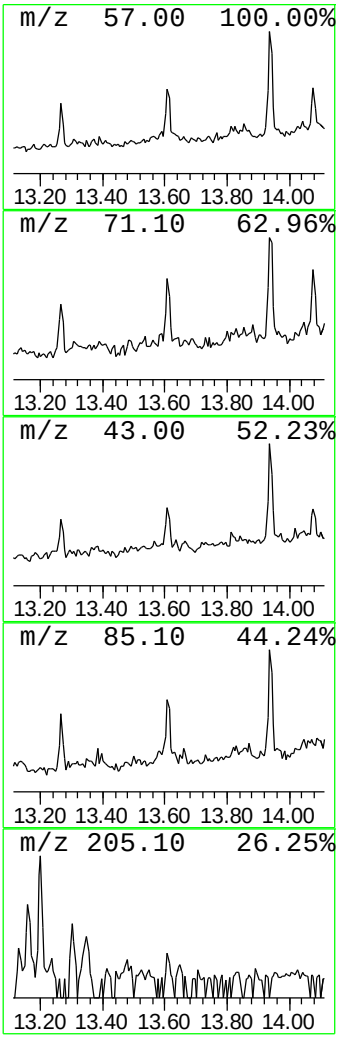
****

Peak Number 8 unknown13.61 Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.61	2.18 ng	95386	Chrysene-d12	14.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	35
2	Heptadecane, 2,3-dimethyl-	268	C19H40	061868-03-9	22
3	Tridecane, 3-methyl-	198	C14H30	006418-41-3	14
4	Heneicosane	296	C21H44	000629-94-7	14
5	Hexadecane	226	C16H34	000544-76-3	14





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

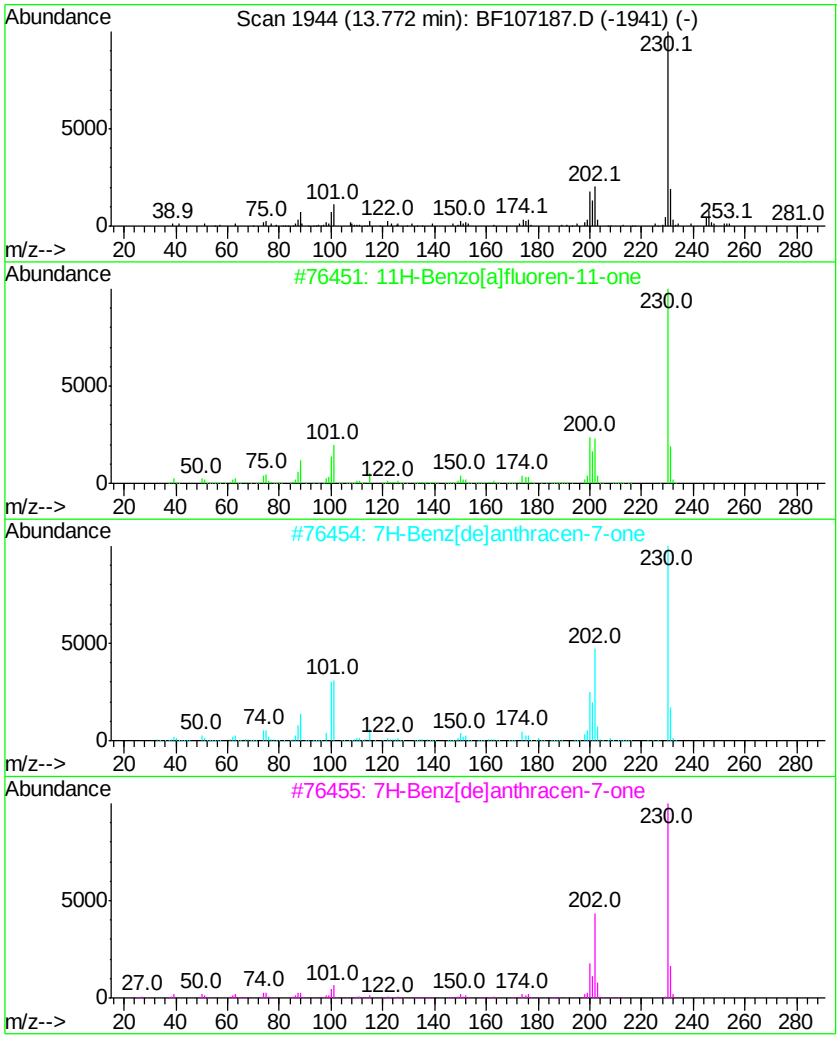
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: RTEINT.P

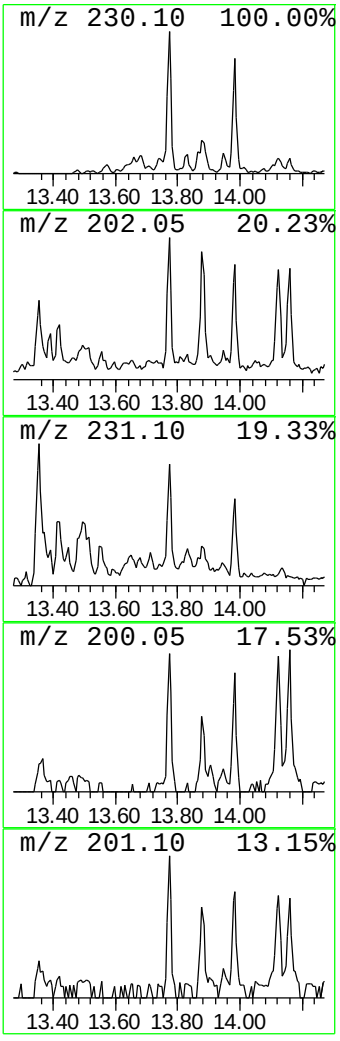
****

Peak Number 9 11H-Benzo[a]fluoren-11-one Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.77	2.78 ng	121734	Chrysene-d12	14.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	97
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	90
3	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	89
4	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	83
5	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	76





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070618\
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Sample : J3874-01
Misc :
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Instrument : BNA_F
ClientSampleId : 2018-NYSEG-MCMASTER-PH4-5(0-

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

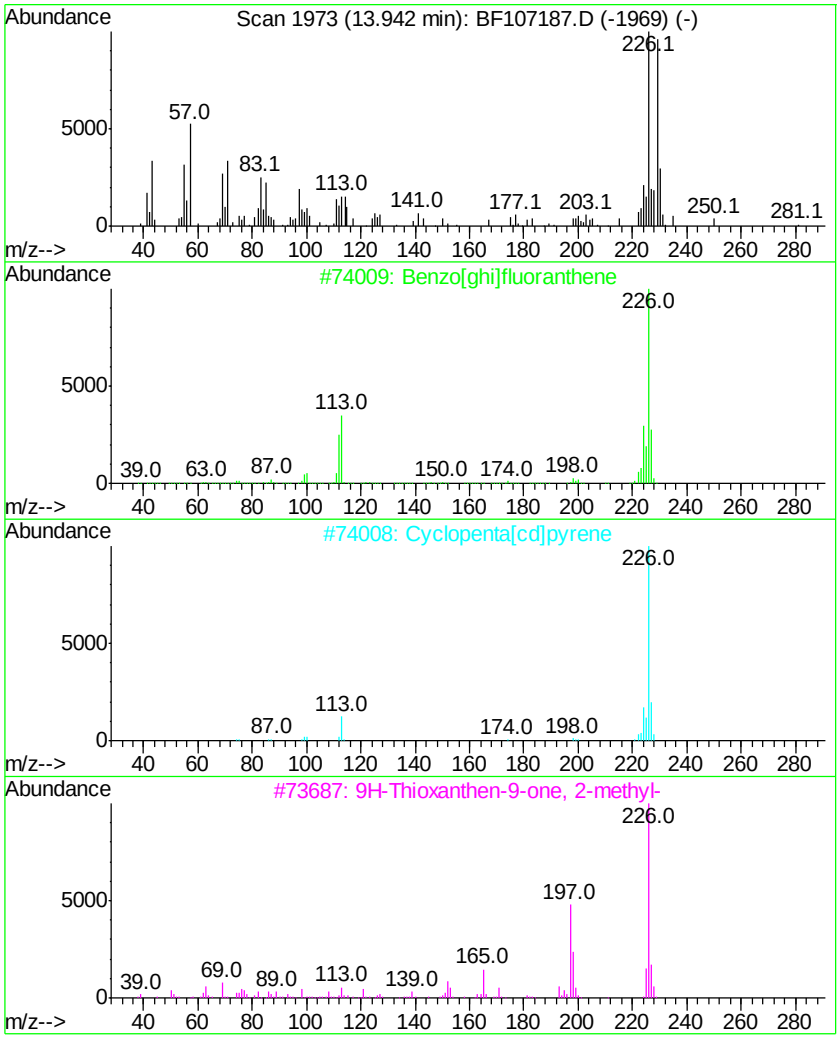
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: RTEINT.P

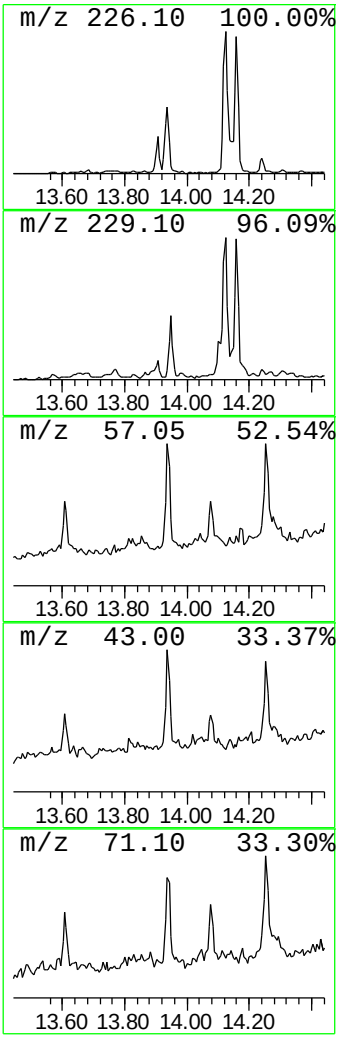
****

Peak Number 10 Benzo[ghi]fluoranthene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.94	2.93 ng	128246	Chrysene-d12	14.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[ghi]fluoranthene	226	C18H10	000203-12-3	62
2	Cyclopenta[cd]pyrene	226	C18H10	027208-37-3	58
3	9H-Thioxanthen-9-one, 2-methyl-	226	C14H10OS	015774-82-0	50
4	5(10H)-Pyrido[3,4-b]quinolone, 7...	226	C13H10N2O2	1000256-99-5	50
5	1,3-Diamino-5,6-dihydro-9-methyl...	226	C13H14N4	037436-39-8	40





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Data File : BF107187.D
Acq On : 6 Jul 2018 21:39
Operator : JU/SJ
Sample : J3874-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 2018-NYSEG-MCMASTER-PH4-5(0-

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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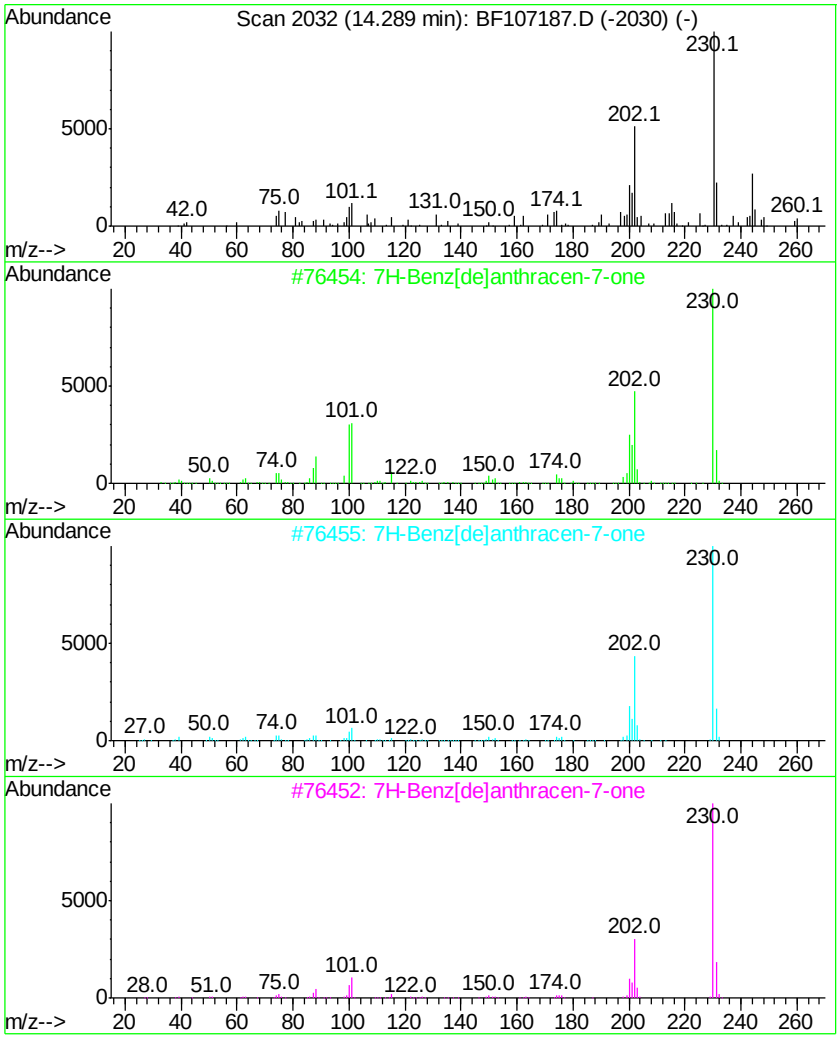
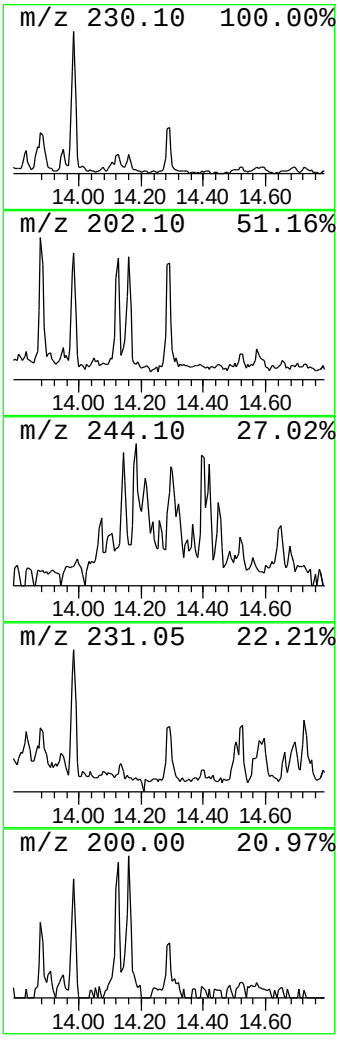
Peak Number 11 7H-Benz[de]anthracen-7-one Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.29	2.98 ng	130432	Chrysene-d12	14.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	70
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	68
3	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	68
4	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	64
5	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	50





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Operator : JU/SJ
Sample : J3874-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 2018-NYSEG-MCMASTER-PH4-5(0-

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
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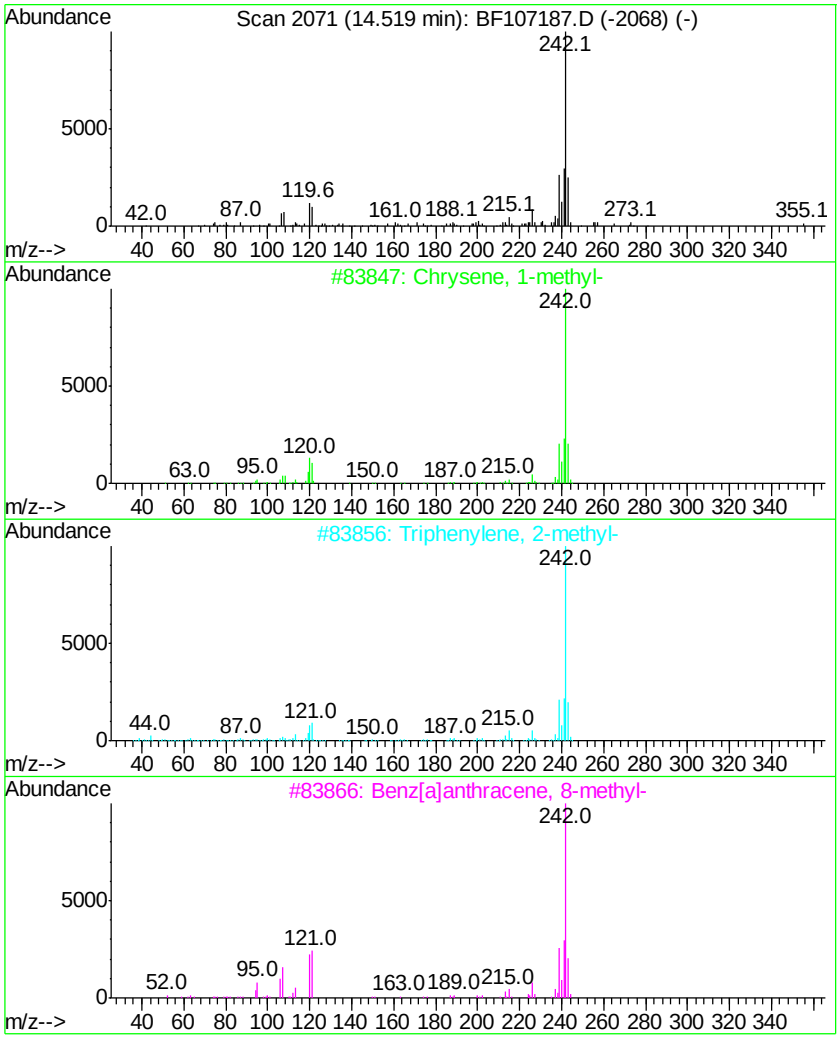
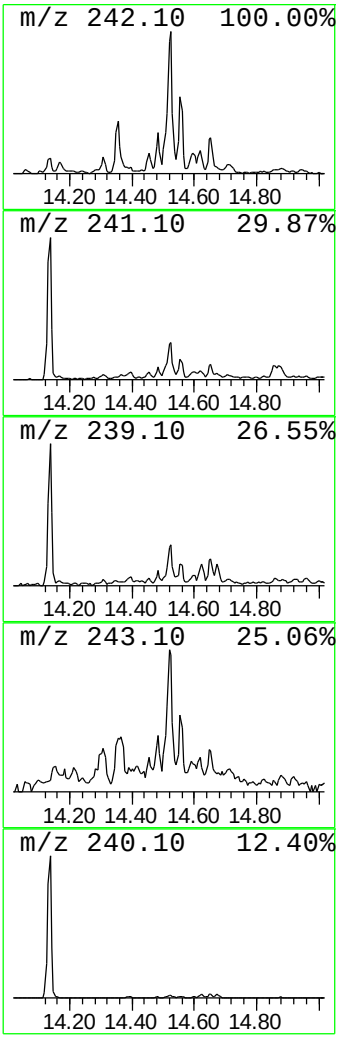
Peak Number 12 Chrysene, 1-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.52	4.72 ng	206706	Chrysene-d12	14.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Chrysene, 1-methyl-	242	C19H14	003351-28-8	91
2	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	90
3	Benz[a]anthracene, 8-methyl-	242	C19H14	002381-31-9	89
4	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	86
5	Chrysene, 2-methyl-	242	C19H14	003351-32-4	86





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Operator : JU/SJ
Sample : J3874-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 2018-NYSEG-MCMASTER-PH4-5(0-

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
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TIC Integration Parameters: RTEINT.P

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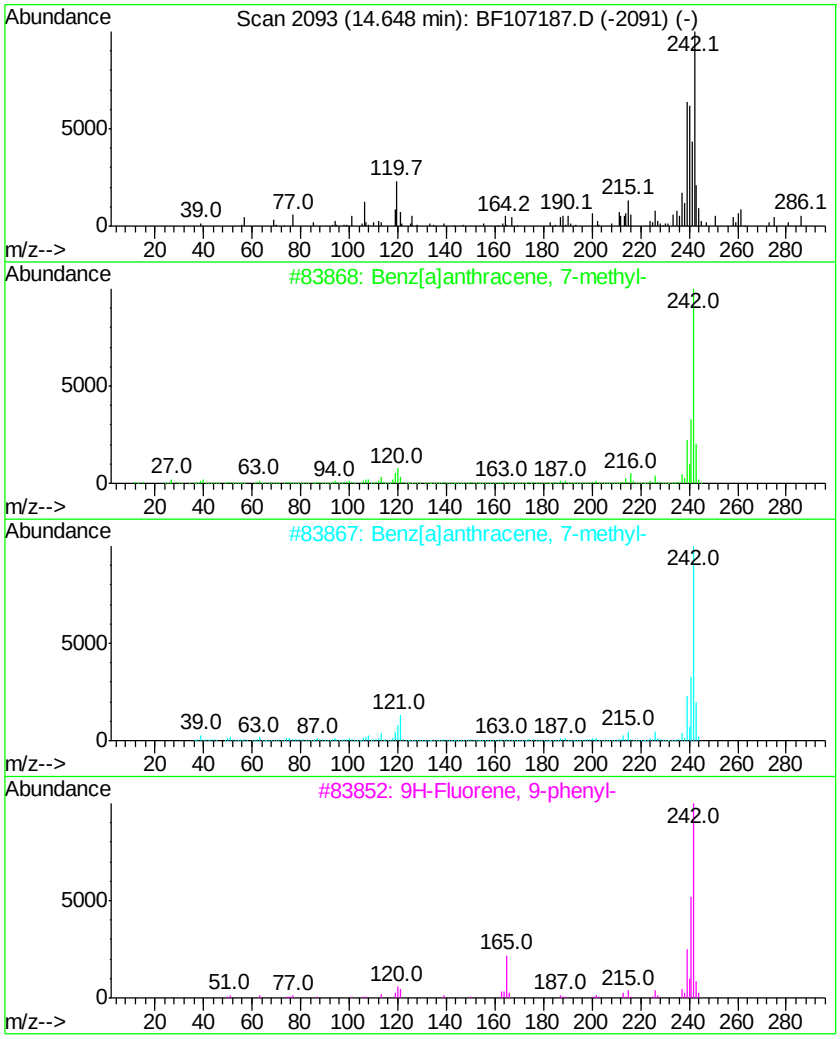
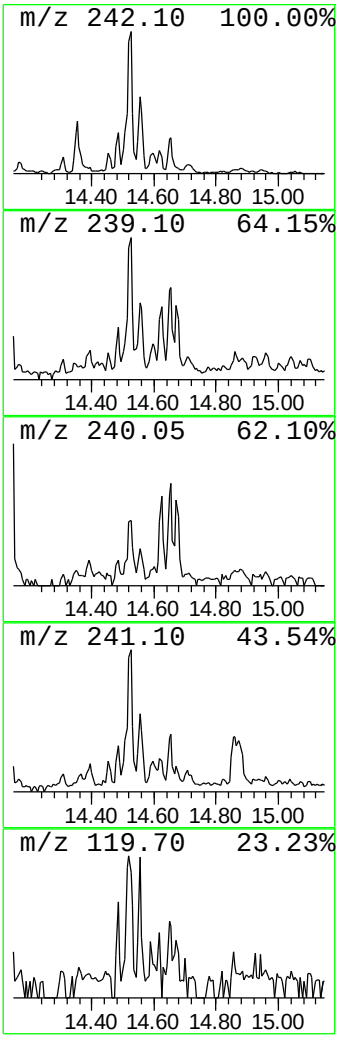
Peak Number 14 unknown14.65 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.65	28.47 ng	1246790	Chrysene-d12	14.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	49
2	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	46
3	9H-Fluorene, 9-phenyl-	242	C19H14	000789-24-2	46
4	9H-Fluorene, 9-phenyl-	242	C19H14	000789-24-2	46
5	Benz[a]anthracene, 12-methyl-	242	C19H14	002422-79-9	45





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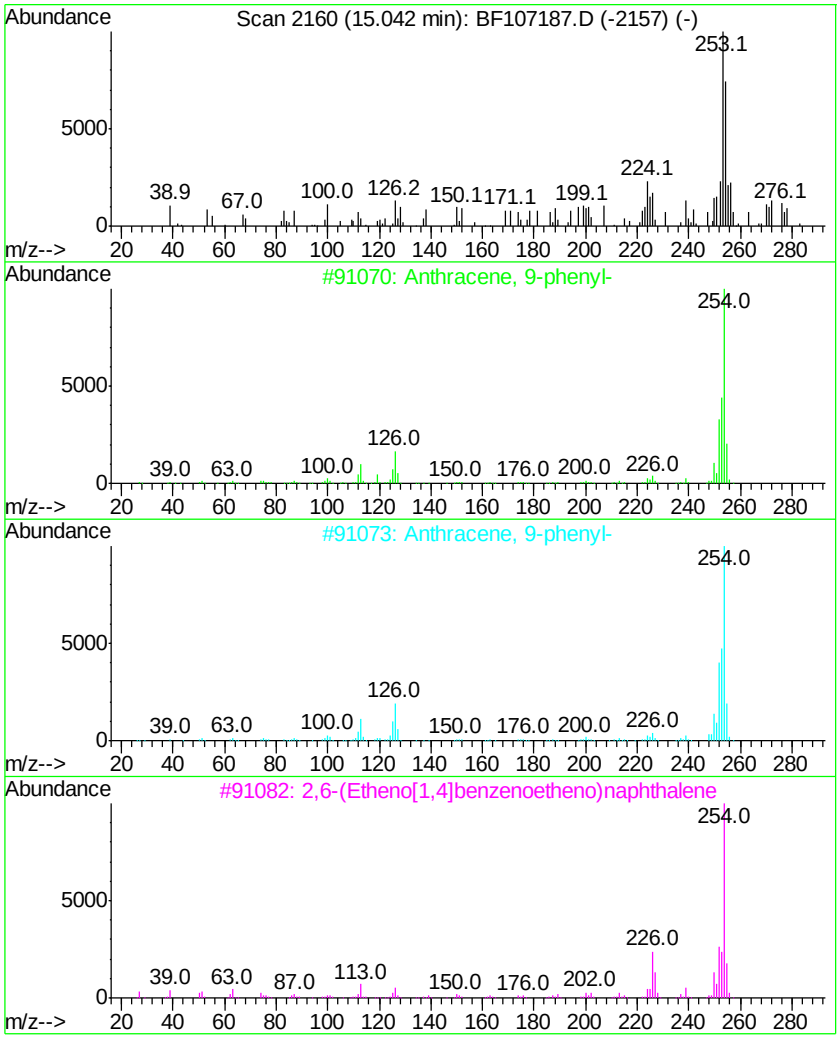
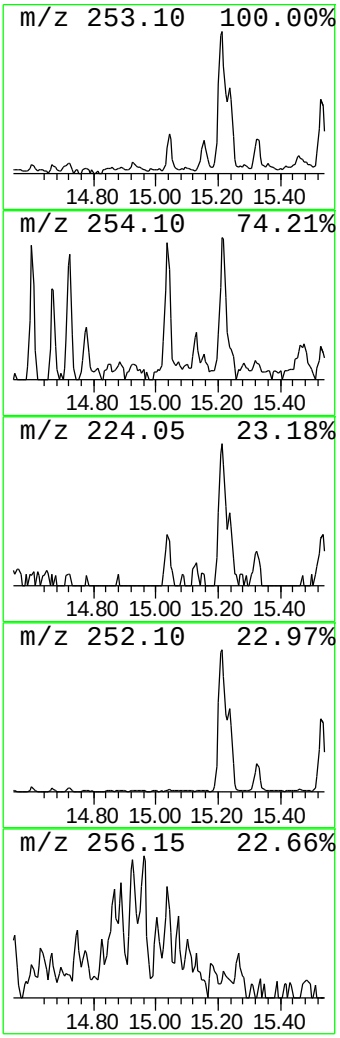
Peak Number 15 Anthracene, 9-phenyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.04	4.13 ng	481512	Perylene-d12	15.67

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 9-phenyl-	254	C20H14	000602-55-1	52
2	Anthracene, 9-phenyl-	254	C20H14	000602-55-1	49
3	2,6-(Etheno[1,4]benzenoetheno)na...	254	C20H14	117054-70-3	47
4	1,1'-Binaphthalene	254	C20H14	000604-53-5	47
5	1H-Pyrazole, 3-(4-chlorophenyl)-...	254	C15H11ClN2	033064-19-6	43





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070618\
Data File : BF107187.D
Acq On : 6 Jul 2018 21:39
Operator : JU/SJ
Sample : J3874-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 2018-NYSEG-MCMASTER-PH4-5(0-

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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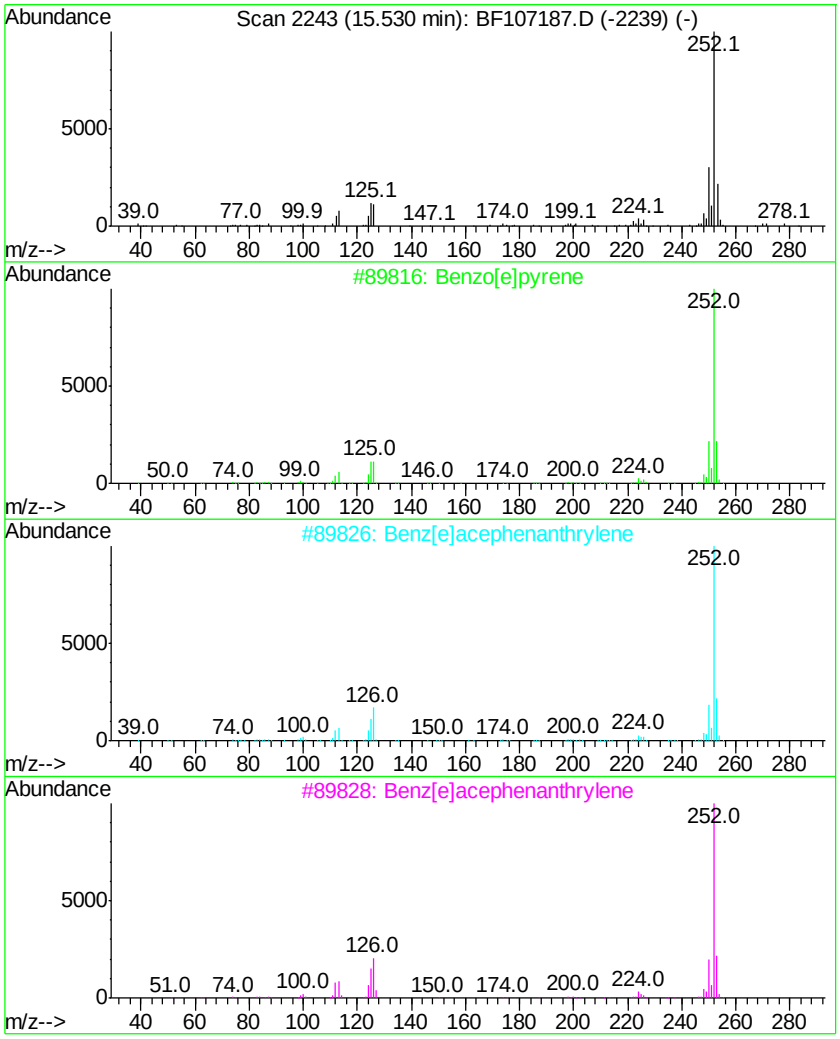
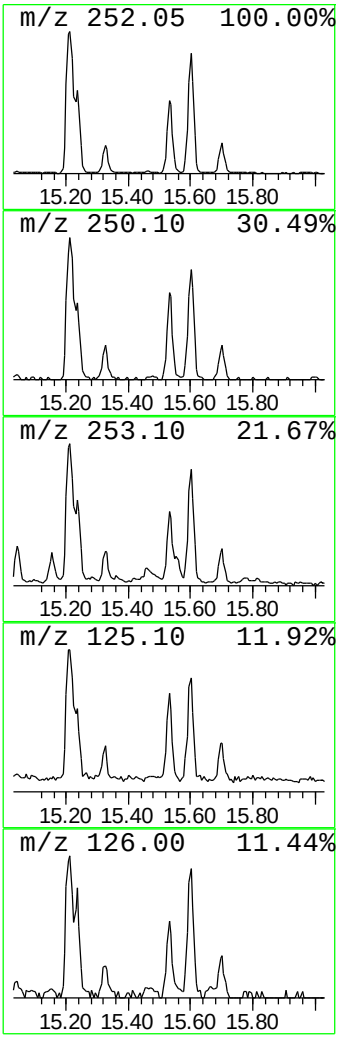
Peak Number 17 Benzo[e]pyrene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.53	2.49 ng	290583	Perylene-d12	15.67

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	95
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	95
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	94
5	Perylene	252	C20H12	000198-55-0	94





Tentatively Identified Compound (LSC) summary

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Data File : BF107187.D
Acq On : 6 Jul 2018 21:39
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Instrument : BNA_F
ClientSampleId : 2018-NYSEG-MCMASTER-PH4-5(0-

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-hy...	5.18	10.1	ng	170859	1	6.94	337513	20.0
Benzaldehyde, 3,5...	12.10	7.8	ng	149416	4	11.48	382975	20.0
4b,8-Dimethyl-2-i...	12.41	4.1	ng	78499	4	11.48	382975	20.0
Phenanthrene, 2,5...	12.53	4.0	ng	77516	4	11.48	382975	20.0
Pyrene, 1-methyl-	13.36	3.3	ng	142605	5	14.14	875874	20.0
unknown13.61	13.61	2.2	ng	95386	5	14.14	875874	20.0
11H-Benzo[a]fluor...	13.77	2.8	ng	121734	5	14.14	875874	20.0
Benzo[ghi]fluoran...	13.94	2.9	ng	128246	5	14.14	875874	20.0
7H-Benz[de]anthra...	14.29	3.0	ng	130432	5	14.14	875874	20.0
Chrysene, 1-methyl-	14.52	4.7	ng	206706	5	14.14	875874	20.0
unknown14.65	14.65	28.5	ng	1246790	5	14.14	875874	20.0
Anthracene, 9-phe...	15.04	4.1	ng	481512	6	15.67	2330540	20.0
Benzo[e]pyrene	15.53	2.5	ng	290583	6	15.67	2330540	20.0