LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF053019\
Data File : BF114683.D
Acq On : 31 May 2019 1:39
Operator : HP/JU
Sample : K3002-03 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : COMP-Z3-20190420

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-BF052919.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	3.640	258	264	270	rBV	30535	49461	1.62%	0.111%
2	4.869	470	473	481	rVB3	22381	35639	1.17%	0.080%
3	5.293	541	545	549	rVB	1929609	1648614	54.10%	3.699%
4	5.957	655	658	660	rBV	37643	34557	1.13%	0.078%
5	6.234	699	705	714	rVB4	46058	94445	3.10%	0.212%
6	6.322	714	720	725	rBV	2256252	1804327	59.21%	4.049%
7	6.457	739	743	747	rBV	2024981	1898691	62.31%	4.260%
8	6.528	752	755	757	rVV	62349	52975	1.74%	0.119%
9	6.551	757	759	764	rVB2	152742	122952	4.03%	0.276%
10	6.698	780	784	787	rVB	2556675	2054258	67.41%	4.609%
11	6.728	787	789	792	rVB2	92244	79195	2.60%	0.178%
12	6.763	792	795	800	rBV3	41840	63354	2.08%	0.142%
13	6.851	806	810	814	rBV	1947186	1510833	49.58%	3.390%
14	6.981	830	832	836	rVB2	48177	60869	2.00%	0.137%
15	7.022	836	839	842	rVB2	67170	55518	1.82%	0.125%
16	7.057	842	845	849	rBV	44873	42489	1.39%	0.095%
17	7.098	849	852	855	rVV2	86815	71021	2.33%	0.159%
18	7.139	855	859	863	rVV3	31010	39914	1.31%	0.090%
19	7.251	870	878	881	rBV	1276821	1100474	36.11%	2.469%
20	7.316	886	889	891	rVB	251746	212633	6.98%	0.477%
21	7.351	891	895	899	rBV4	39371	61251	2.01%	0.137%
22	7.498	918	920	927	rVB4	57550	73000	2.40%	0.164%
23	7.722	953	958	961	rBV4	34456	48235	1.58%	0.108%
24	7.816	971	974	978	rVB3	72056	76671	2.52%	0.172%
25	7.975	998	1001	1004	rBV	3132052	2743602	90.03%	6.156%
26	7.998	1004	1005	1008	rVV	432536	221338	7.26%	0.497%
27	8.045	1008	1013	1018	rVB3	42198	60347	1.98%	0.135%
28	8.422	1073	1077	1080	rBV2	33623	41721	1.37%	0.094%
29	8.586	1102	1105	1108	rBV	60480	47701	1.57%	0.107%
30	8.686	1118	1122	1126	rVB	233892	181161	5.94%	0.406%
31	8.786	1134	1139	1143	rBV	218322	178608	5.86%	0.401%
32	9.051	1180	1184	1187	rBV	2605698	2070052	67.93%	4.645%
33	9.145	1196	1200	1204	rBV	159102	150186	4.93%	0.337%
34	9.245	1215	1217	1223	rVB	48581	51224	1.68%	0.115%

LSC Area Percent Report

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Acq On : 31 May 2019 1:39
Operator : HP/JU
Sample : K3002-03 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : COMP-Z3-20190420

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-BF052919.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	9.310	1224	1228	1232	rBV	97036	129050	4.23%	0.290%
36	9.386	1235	1241	1243	rVV	145926	148935	4.89%	0.334%
37	9.410	1243	1245	1248	rVV	96382	79252	2.60%	0.178%
38	9.439	1248	1250	1253	rVV	253752	233712	7.67%	0.524%
39	9.498	1257	1260	1262	rVV2	62338	62701	2.06%	0.141%
40	9.580	1271	1274	1278	rBV	130954	112895	3.70%	0.253%
41	9.675	1287	1290	1293	rVB	98543	75046	2.46%	0.168%
42	9.722	1293	1298	1301	rBV	3066936	2675758	87.81%	6.004%
43	9.757	1301	1304	1307	rVB	301415	281481	9.24%	0.632%
44	9.828	1312	1316	1318	rBV3	42556	57873	1.90%	0.130%
45	9.928	1329	1333	1336	rVB	285443	270559	8.88%	0.607%
46	9.969	1336	1340	1342	rBV	53862	48237	1.58%	0.108%
47	9.998	1342	1345	1348	rBV2	52746	58000	1.90%	0.130%
48	10.039	1349	1352	1355	rVV2	49114	61839	2.03%	0.139%
49	10.069	1355	1357	1359	rVB	50959	37541	1.23%	0.084%
50	10.133	1364	1368	1372	rBV4	41607	67786	2.22%	0.152%
51	10.175	1372	1375	1378	rVB	88562	74204	2.44%	0.167%
52	10.263	1387	1390	1393	rBV	260032	218908	7.18%	0.491%
53	10.333	1397	1402	1404	rBV2	57174	75064	2.46%	0.168%
54	10.398	1408	1413	1415	rVV3	56292	69448	2.28%	0.156%
55	10.422	1415	1417	1423	rVB	104437	123348	4.05%	0.277%
56	10.504	1427	1431	1435	rBV	1191699	1069689	35.10%	2.400%
57	10.645	1451	1455	1456	rBV3	107911	114158	3.75%	0.256%
58	10.810	1479	1483	1486	rBV3	67000	77817	2.55%	0.175%
59	10.839	1486	1488	1492	rVV2	56392	49421	1.62%	0.111%
60	10.892	1495	1497	1500	rVB2	44188	43038	1.41%	0.097%
61	10.945	1501	1506	1507	rBV3	51131	75291	2.47%	0.169%
62	10.963	1507	1509	1513	rVV3	55555	59202	1.94%	0.133%
63	10.998	1513	1515	1520	rVB3	50679	60245	1.98%	0.135%
64	11.051	1521	1524	1527	rBV2	70942	91591	3.01%	0.206%
65	11.092	1528	1531	1534	rVV2	221619	191473	6.28%	0.430%
66	11.122	1534	1536	1542	rVB2	63194	55578	1.82%	0.125%
67	11.198	1545	1549	1551	rBV	3033316	2652228	87.03%	5.951%
68	11.222	1551	1553	1556	rVV	1622468	1216300	39.91%	2.729%
69	11.269	1558	1561	1565	rVB	516499	410557	13.47%	0.921%
70	11.304	1565	1567	1571	rBV4	67619	78927	2.59%	0.177%
71	11.422	1585	1587	1591	rVB	88151	70036	2.30%	0.157%

LSC Area Percent Report

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Acq On : 31 May 2019 1:39
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Sample : K3002-03 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : COMP-Z3-20190420

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
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Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF052919.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	11.516	1601	1603	1608	rVB3	85267	104592	3.43%	0.235%
73	11.610	1617	1619	1623	rVB	42763	38891	1.28%	0.087%
74	11.698	1631	1634	1636	rBV	220720	176006	5.78%	0.395%
75	11.727	1636	1639	1643	rVB	236415	266568	8.75%	0.598%
76	11.769	1644	1646	1649	rVB	128695	112188	3.68%	0.252%
77	11.810	1649	1653	1655	rBV	463997	487736	16.01%	1.094%
78	11.922	1669	1672	1675	rBV3	68490	74533	2.45%	0.167%
79	11.992	1681	1684	1686	rBV	174892	158277	5.19%	0.355%
80	12.145	1707	1710	1713	rBV2	85055	86258	2.83%	0.194%
81	12.245	1724	1727	1730	rBV	134642	138987	4.56%	0.312%
82	12.280	1731	1733	1735	rVV2	78637	66727	2.19%	0.150%
83	12.304	1735	1737	1739	rVV2	70112	51334	1.68%	0.115%
84	12.404	1750	1754	1758	rBV	2640807	2247121	73.74%	5.042%
85	12.457	1759	1763	1768	rBV2	374205	407985	13.39%	0.915%
86	12.521	1771	1774	1777	rBV4	103668	137203	4.50%	0.308%
87	12.627	1787	1792	1795	rBV	2407697	2349518	77.10%	5.272%
88	12.674	1798	1800	1803	rVV	103181	91701	3.01%	0.206%
89	12.751	1810	1813	1814	rBV	143457	130507	4.28%	0.293%
90	12.774	1814	1817	1824	rVB	2225152	2015660	66.14%	4.523%
91	12.933	1842	1844	1845	rBV	128108	105457	3.46%	0.237%
92	12.957	1845	1848	1852	rVB2	348169	338658	11.11%	0.760%
93	13.021	1856	1859	1862	rBV	318782	330282	10.84%	0.741%
94	13.057	1863	1865	1868	rVV	218471	194453	6.38%	0.436%
95	13.151	1879	1881	1884	rBV	127765	106393	3.49%	0.239%
96	13.821	1990	1995	1997	rBV2	2421222	3047376	100.00%	6.838%
97	13.845	1997	1999	2001	rVB	743104	555571	18.23%	1.247%
98	14.821	2162	2165	2167	rBV	499200	605348	19.86%	1.358%
99	15.151	2218	2221	2224	rBV	465684	458255	15.04%	1.028%
100	15.210	2228	2231	2235	rVB	1252013	1368133	44.90%	3.070%

Sum of corrected areas: 44566222

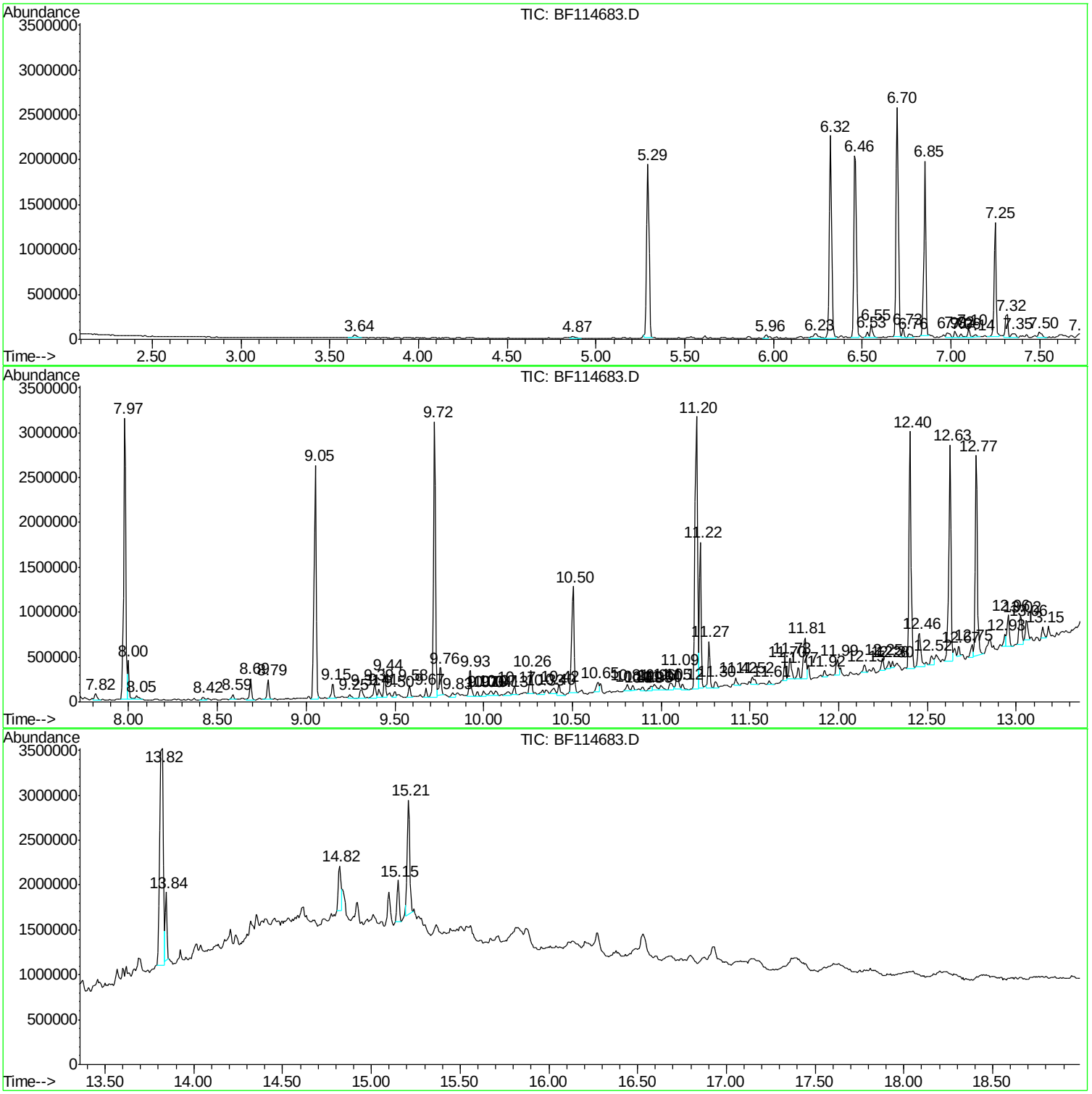
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF053019\
Data File : BF114683.D
Acq On : 31 May 2019 1:39
Operator : HP/JU
Sample : K3002-03 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
COMP-Z3-20190420

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF052919.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:\SVOASRV\HPCHEM1\BNA_F\DATA\BF053019\
Data File : BF114683.D
Acq On : 31 May 2019 1:39
Operator : HP/JU
Sample : K3002-03 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : COMP-Z3-20190420

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF052919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

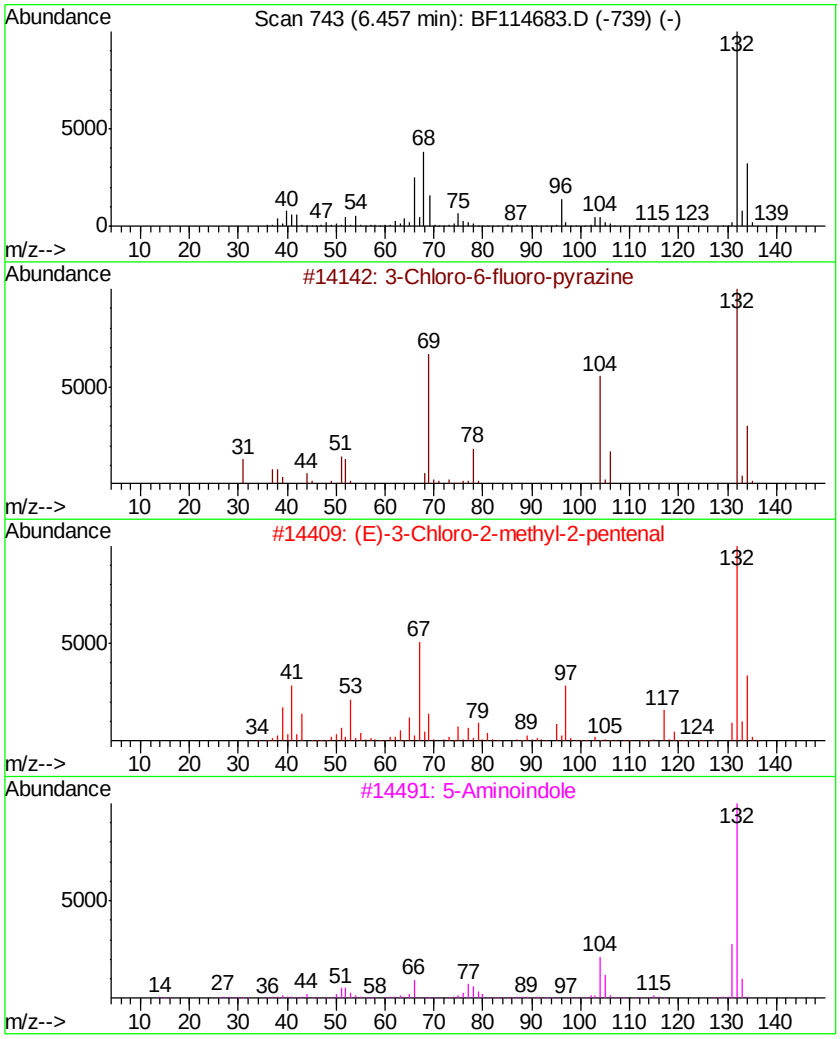
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

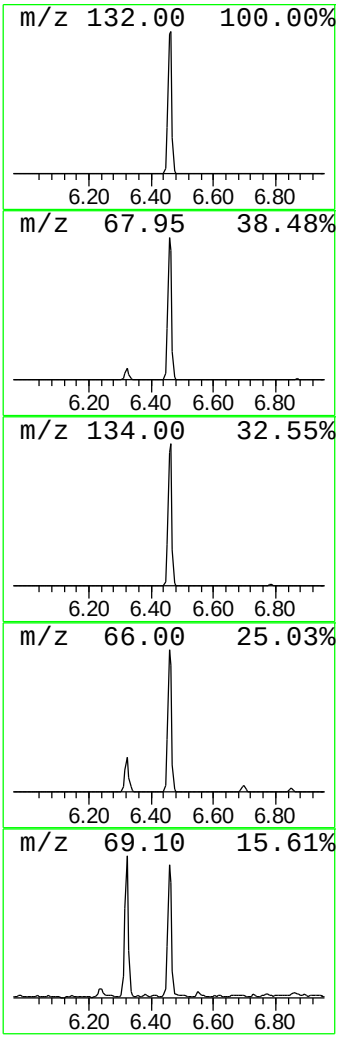
****

Peak Number 1 unknown6.46 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.46	18.49 ng	1898690	1,4-Dichlorobenzene-d4	6.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	16
3	5-Aminoindole	132	C8H8N2	005192-03-0	12
4	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10
5	4-Methylpyrrolo[1,2-a]pyrazine	132	C8H8N2	064608-60-2	9





Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF053019\
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Misc :
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Instrument : BNA_F
ClientSampleId : COMP-Z3-20190420

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF052919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

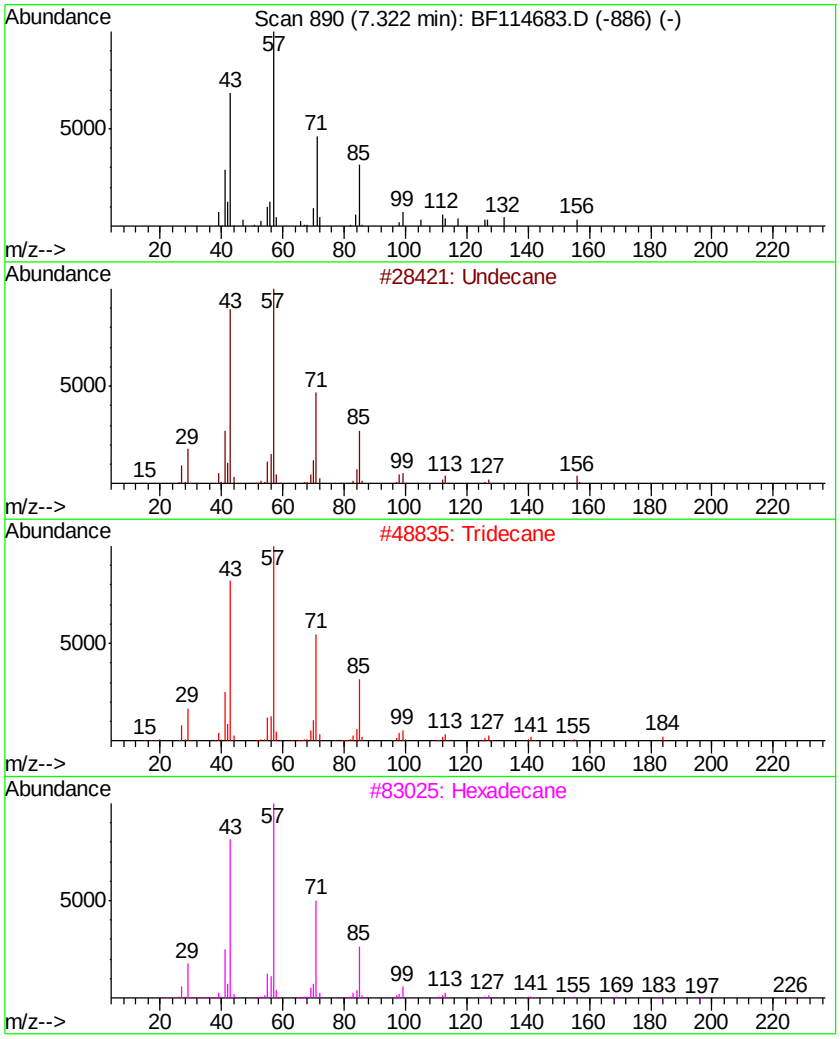
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

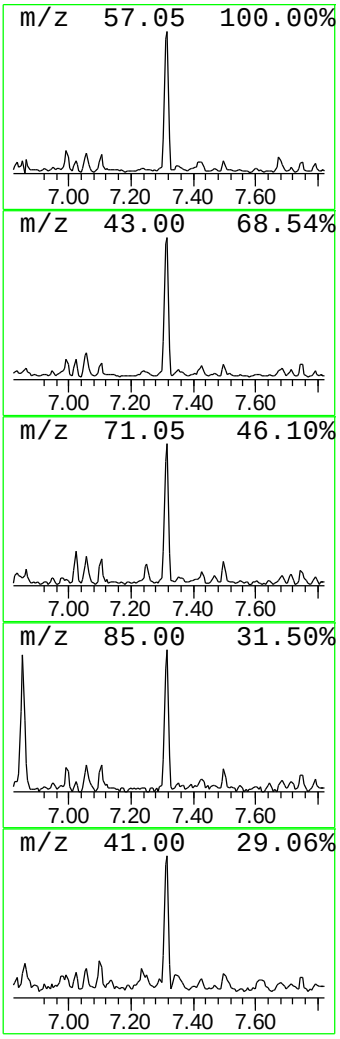
****

Peak Number 3 Undecane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.32	2.07 ng	212633	1,4-Dichlorobenzene-d4	6.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane	156	C11H24	001120-21-4	95
2	Tridecane	184	C13H28	000629-50-5	90
3	Hexadecane	226	C16H34	000544-76-3	90
4	Tetradecane	198	C14H30	000629-59-4	83
5	Decane, 2,3,6-trimethyl-	184	C13H28	062238-12-4	64





Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF053019\
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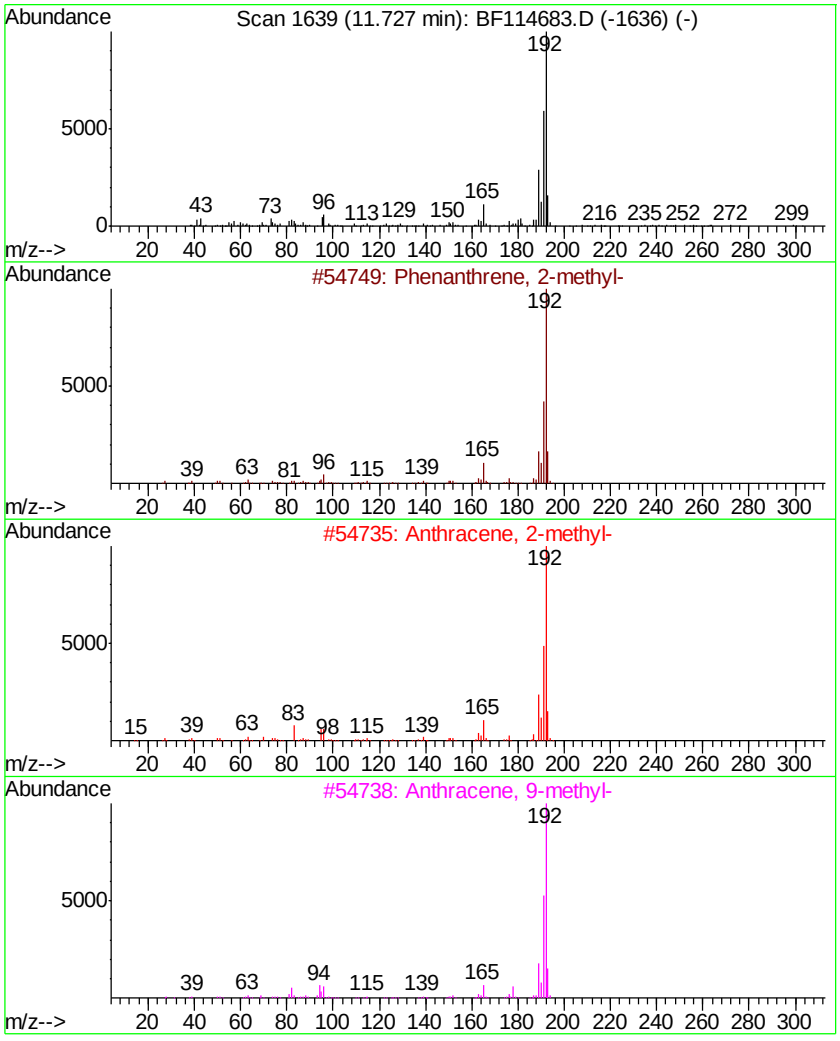
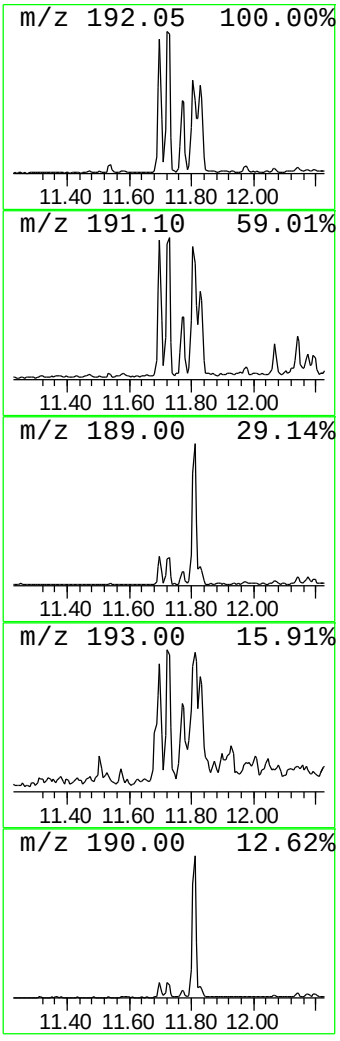
****

Peak Number 4 Phenanthrene, 2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.73	2.01 ng	266568	Phenanthrene-d10	11.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	94
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	94
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93





Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF053019\
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Misc :
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Instrument : BNA_F
ClientSampleId : COMP-Z3-20190420

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF052919.M
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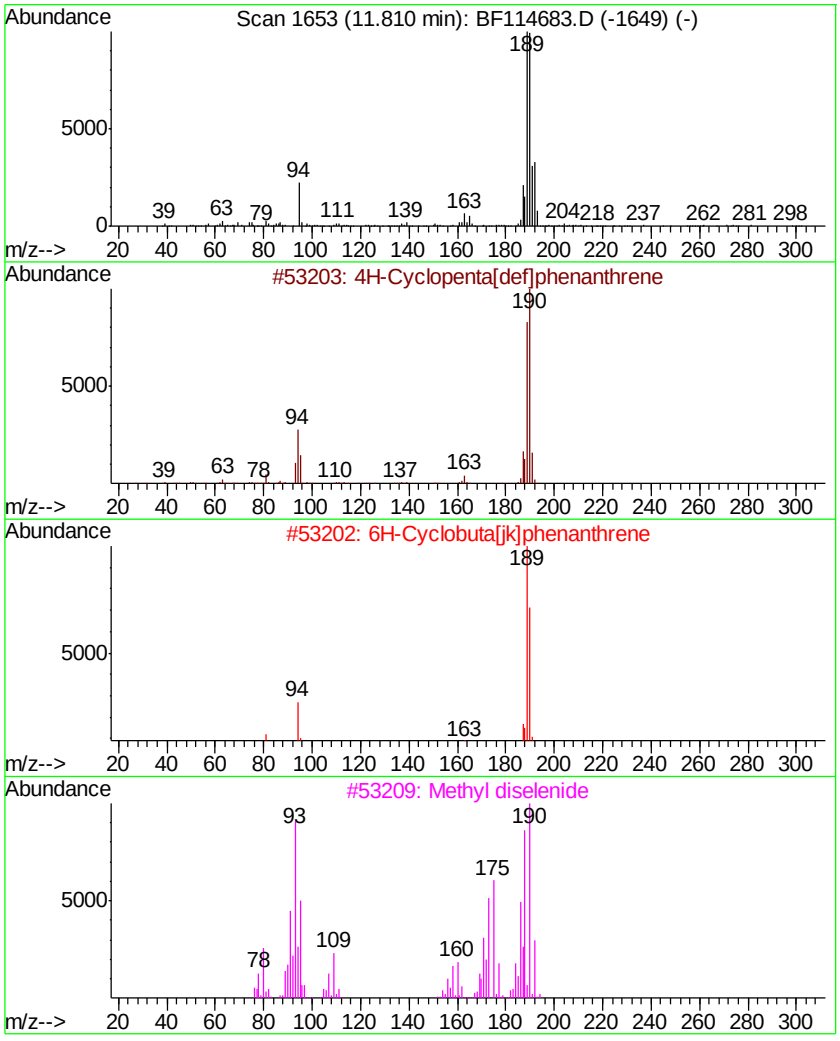
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

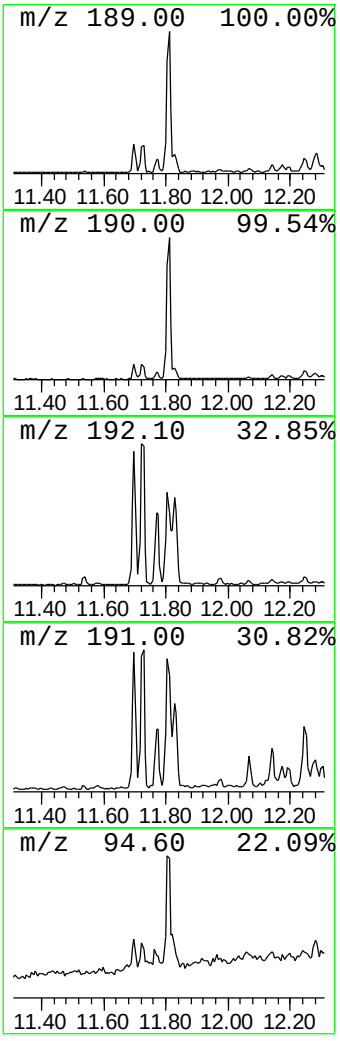
****

Peak Number 5 4H-Cyclopenta[def]phenanthrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.81	3.68 ng	487736	Phenanthrene-d10	11.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	81
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	64
3	Methyl diselenide	190	C2H6Se2	007101-31-7	49
4	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	45
5	2,6-Dichlorobenzaldoxime	189	C7H5Cl2NO	025185-95-9	30





Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF053019\
Data File : BF114683.D
Acq On : 31 May 2019 1:39
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Sample : K3002-03 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : COMP-Z3-20190420

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF052919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

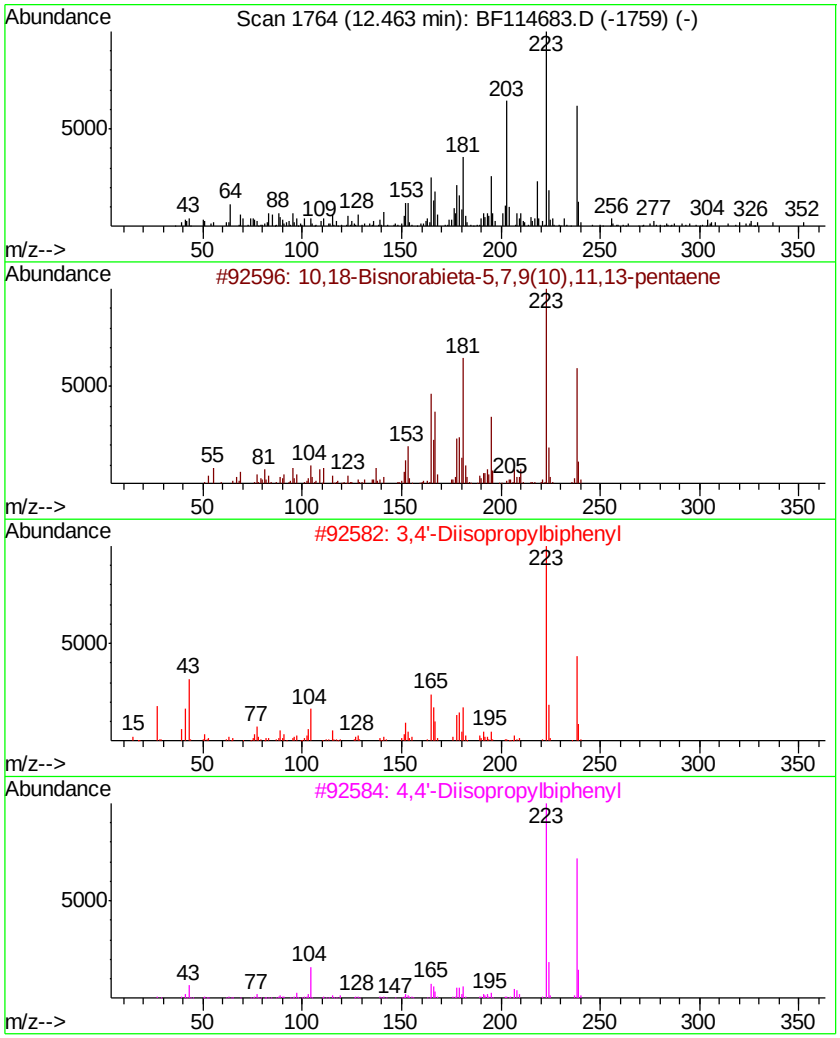
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

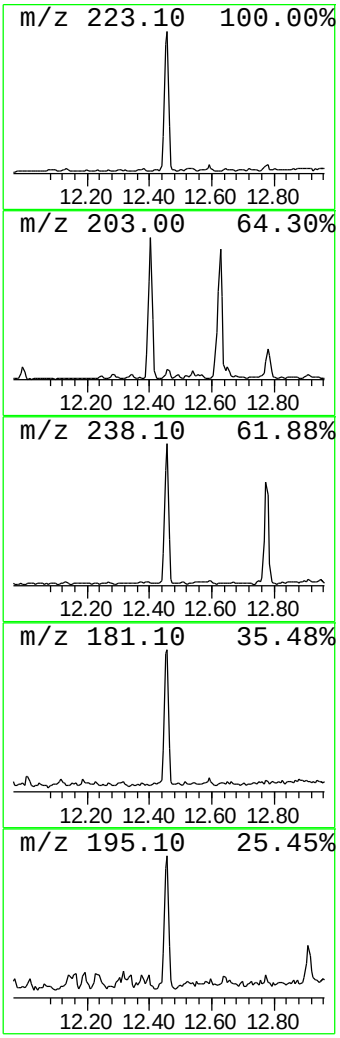
****

Peak Number 6 10,18-Bisnorabieta-5,7,9(10... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.46	3.08 ng	407985	Phenanthrene-d10	11.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	10,18-Bisnorabieta-5,7,9(10),11,...	238	C18H22	006566-19-4	99
2	3,4'-Diisopropylbiphenyl	238	C18H22	061434-46-6	83
3	4,4'-Diisopropylbiphenyl	238	C18H22	018970-30-4	64
4	3,3'-Diacetylbiphenyl	238	C16H14O2	094113-07-2	55
5	9,10-Anthracenedione, 1-amino-	223	C14H9NO2	000082-45-1	46





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Acq On : 31 May 2019 1:39
Operator : HP/JU
Sample : K3002-03 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : COMP-Z3-20190420

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF052919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

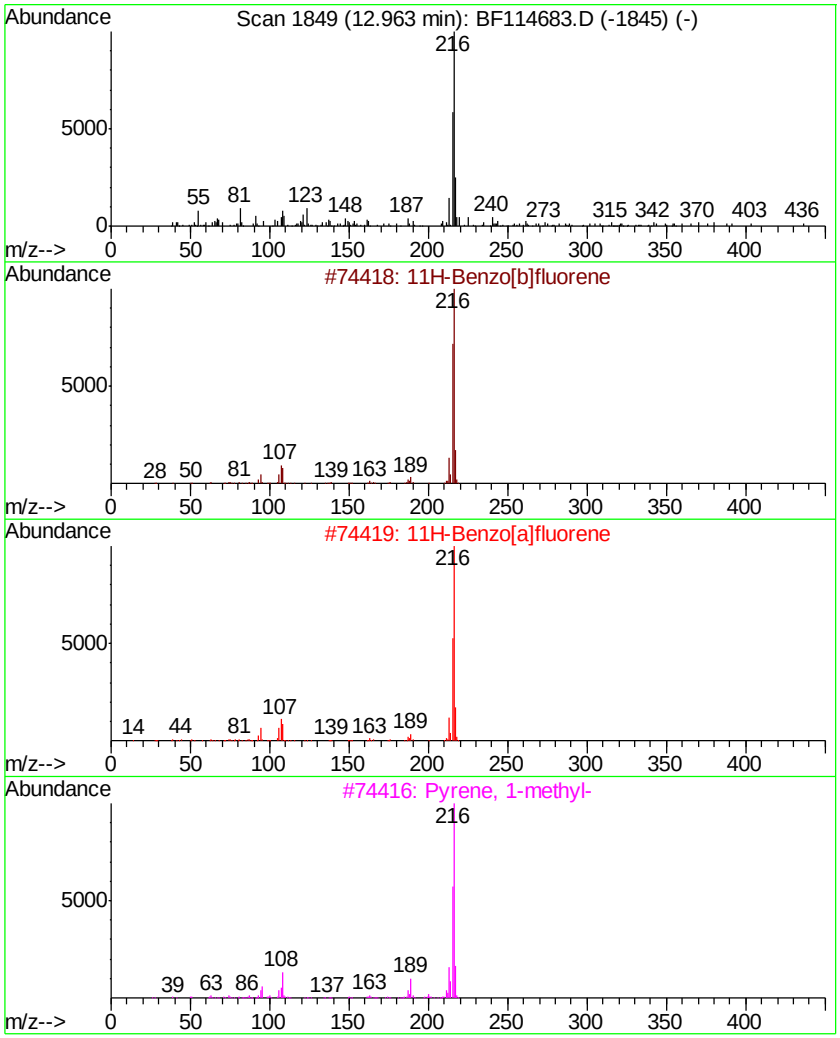
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

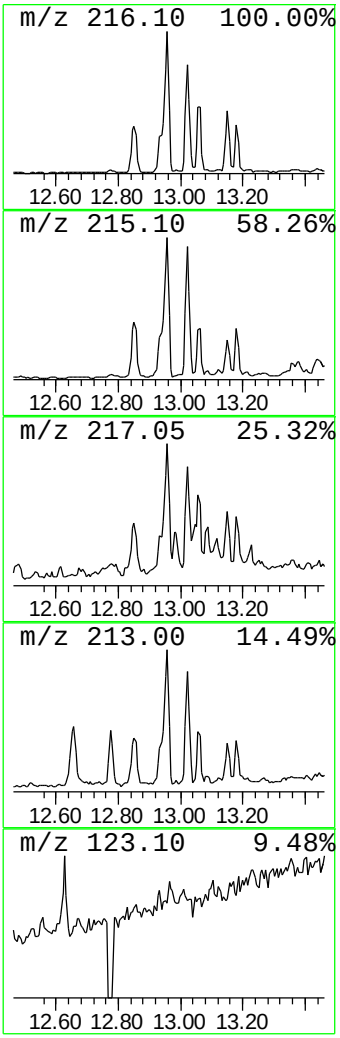
****

Peak Number 7 11H-Benzo[b]fluorene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.96	2.22 ng	338658	Chrysene-d12	13.82

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	94
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	90
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	87
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	83
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	64





Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF053019\
Data File : BF114683.D
Acq On : 31 May 2019 1:39
Operator : HP/JU
Sample : K3002-03 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : COMP-Z3-20190420

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF052919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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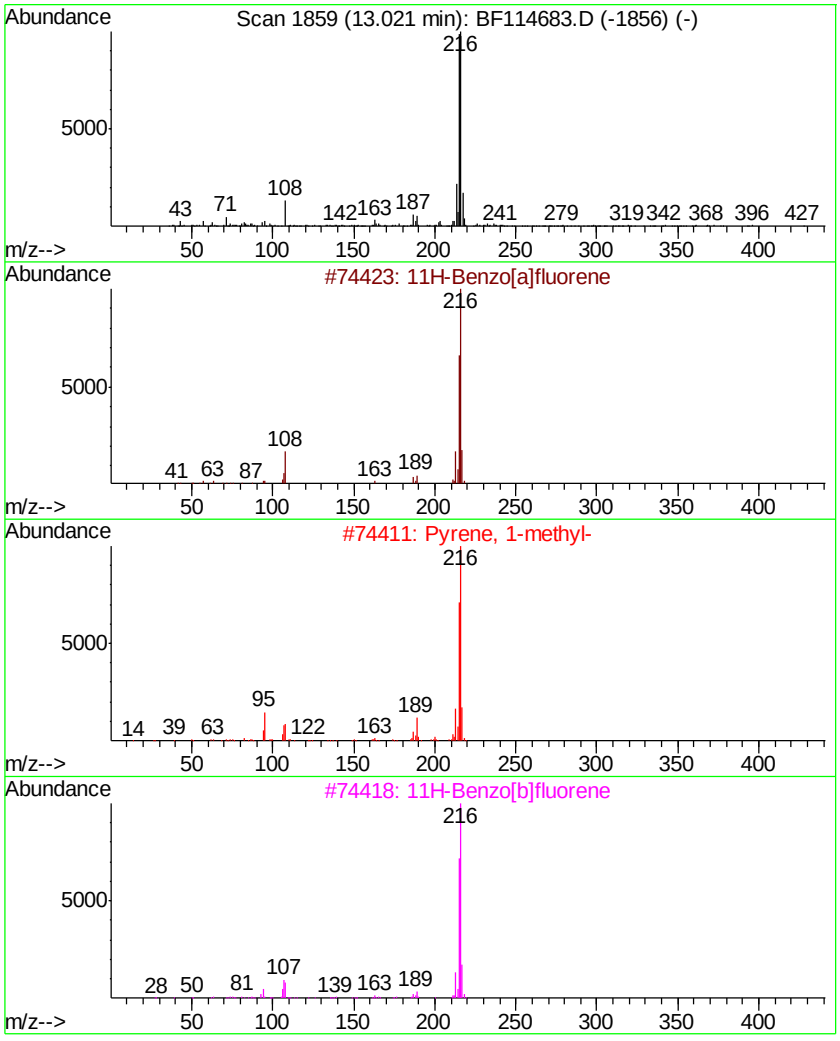
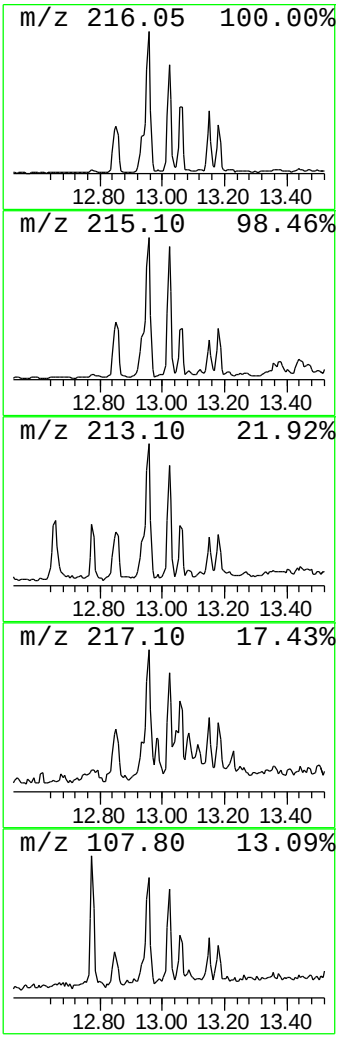
Peak Number 8 11H-Benzo[a]fluorene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.02	2.17 ng	330282	Chrysene-d12	13.82

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	92
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	91
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	83
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	62





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF053019\
Data File : BF114683.D
Acq On : 31 May 2019 1:39
Operator : HP/JU
Sample : K3002-03 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : COMP-Z3-20190420

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF052919.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
unknown6.46	6.46	18.5	ng	1898690	1	6.70	2054260	20.0
Undecane	7.32	2.1	ng	212633	1	6.70	2054260	20.0
Phenanthrene, 2-m...	11.73	2.0	ng	266568	4	11.20	2652230	20.0
4H-Cyclopenta[def...	11.81	3.7	ng	487736	4	11.20	2652230	20.0
10,18-Bisnorabiet...	12.46	3.1	ng	407985	4	11.20	2652230	20.0
11H-Benzo[b]fluorene	12.96	2.2	ng	338658	5	13.82	3047380	20.0
11H-Benzo[a]fluorene	13.02	2.2	ng	330282	5	13.82	3047380	20.0