LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051219\
Data File : BF114202.D
Acq On : 12 May 2019 19:32
Operator : JU/SJ
Sample : K2768-17
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS016-0002-01

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-BF051019.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	2.128	3	7	19	rVB	1368999	1897617	31.10%	1.834%
2	5.075	505	508	517	rVB	140234	171657	2.81%	0.166%
3	5.487	573	578	600	rBV	5788951	5779933	94.72%	5.585%
4	6.498	745	750	753	rBV	6063871	6102311	100.00%	5.896%
5	6.628	768	772	775	rBV	6305295	6019343	98.64%	5.816%
6	6.851	807	810	814	rBV	1873257	1488513	24.39%	1.438%
7	7.010	833	837	840	rBV	5301809	4538037	74.37%	4.385%
8	7.416	901	906	909	rBV	4178621	4012384	65.75%	3.877%
9	8.134	1024	1028	1031	rBV	2213738	1852049	30.35%	1.789%
10	8.775	1131	1137	1144	rVB	67079	111256	1.82%	0.107%
11	9.204	1206	1210	1214	rBV	5846630	5284676	86.60%	5.106%
12	9.598	1274	1277	1286	rVB	1143756	1008192	16.52%	0.974%
13	9.745	1298	1302	1306	rBV	573966	488498	8.01%	0.472%
14	9.886	1322	1326	1330	rBV	2359756	1958923	32.10%	1.893%
15	10.445	1416	1421	1426	rVB2	73292	115676	1.90%	0.112%
16	10.675	1455	1460	1464	rBV	3859605	3661697	60.01%	3.538%
17	10.798	1476	1481	1487	rVB4	122455	149001	2.44%	0.144%
18	10.980	1508	1512	1515	rBV3	68272	115390	1.89%	0.111%
19	11.133	1535	1538	1541	rVB	108107	87748	1.44%	0.085%
20	11.269	1558	1561	1565	rVB	137926	138407	2.27%	0.134%
21	11.369	1575	1578	1580	rVV	2149645	1959521	32.11%	1.893%
22	11.392	1580	1582	1589	rVV	1430466	1325489	21.72%	1.281%
23	11.445	1589	1591	1594	rVB	263856	203492	3.33%	0.197%
24	11.475	1594	1596	1600	rBV2	76547	89379	1.46%	0.086%
25	11.663	1622	1628	1631	rVV2	247817	322078	5.28%	0.311%
26	11.704	1632	1635	1639	rVV	172936	161844	2.65%	0.156%
27	11.763	1642	1645	1647	rVV2	85116	90863	1.49%	0.088%
28	11.827	1653	1656	1660	rBV3	89297	108705	1.78%	0.105%
29	11.874	1660	1664	1665	rVV	508744	469184	7.69%	0.453%
30	11.898	1665	1668	1674	rVV2	1124456	1158882	18.99%	1.120%
31	11.945	1674	1676	1679	rVV	146651	155802	2.55%	0.151%
32	11.980	1679	1682	1685	rVV2	845705	934224	15.31%	0.903%
33	12.004	1685	1686	1691	rVV	464529	366263	6.00%	0.354%
34	12.069	1692	1697	1701	rVV5	69064	162942	2.67%	0.157%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051219\
Data File : BF114202.D
Acq On : 12 May 2019 19:32
Operator : JU/SJ
Sample : K2768-17
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS016-0002-01

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-BF051019.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	12.104	1701	1703	1706	rVV	149389	134882	2.21%	0.130%
36	12.169	1710	1714	1716	rVV	461045	489794	8.03%	0.473%
37	12.192	1716	1718	1724	rVB2	497430	508004	8.32%	0.491%
38	12.316	1737	1739	1742	rVV	169586	169520	2.78%	0.164%
39	12.351	1742	1745	1746	rVV	183347	173954	2.85%	0.168%
40	12.374	1746	1749	1751	rVB2	148628	136132	2.23%	0.132%
41	12.422	1751	1757	1760	rBV2	680168	797946	13.08%	0.771%
42	12.457	1760	1763	1765	rVV2	385691	464518	7.61%	0.449%
43	12.480	1765	1767	1769	rVV	254233	196804	3.23%	0.190%
44	12.510	1769	1772	1776	rVV3	481878	571244	9.36%	0.552%
45	12.586	1780	1785	1788	rVV	2656193	2365487	38.76%	2.286%
46	12.627	1789	1792	1794	rVV	184811	187109	3.07%	0.181%
47	12.651	1794	1796	1798	rVV	133341	122086	2.00%	0.118%
48	12.680	1798	1801	1804	rVV	674967	606653	9.94%	0.586%
49	12.716	1804	1807	1809	rVV2	208788	217028	3.56%	0.210%
50	12.751	1809	1813	1819	rVV2	255505	416930	6.83%	0.403%
51	12.816	1819	1824	1830	rVV	4082460	3973588	65.12%	3.839%
52	12.869	1830	1833	1837	rVB2	226024	263538	4.32%	0.255%
53	12.951	1841	1847	1857	rVB	4222349	4244666	69.56%	4.101%
54	13.033	1857	1861	1867	rBV2	507806	801906	13.14%	0.775%
55	13.086	1867	1870	1872	rBV3	139741	118855	1.95%	0.115%
56	13.121	1872	1876	1877	rVV2	463626	570079	9.34%	0.551%
57	13.139	1877	1879	1882	rVV	644899	590314	9.67%	0.570%
58	13.186	1884	1887	1888	rVV2	133553	123597	2.03%	0.119%
59	13.210	1888	1891	1894	rVV	266351	283399	4.64%	0.274%
60	13.245	1894	1897	1905	rVB	716584	678216	11.11%	0.655%
61	13.310	1905	1908	1910	rBV3	156720	156459	2.56%	0.151%
62	13.339	1910	1913	1915	rVV	723544	604043	9.90%	0.584%
63	13.369	1915	1918	1921	rVB	599381	502760	8.24%	0.486%
64	13.457	1930	1933	1936	rVB4	151284	153577	2.52%	0.148%
65	13.516	1940	1943	1945	rBV3	80222	101653	1.67%	0.098%
66	13.651	1963	1966	1971	rVB	411703	472472	7.74%	0.457%
67	13.757	1979	1984	1987	rBV2	452710	646688	10.60%	0.625%
68	13.786	1987	1989	1991	rVV	580796	458925	7.52%	0.443%
69	13.816	1991	1994	1996	rVV	431787	402934	6.60%	0.389%
70	13.845	1996	1999	2005	rVB3	1224029	1529921	25.07%	1.478%
71	13.927	2011	2013	2020	rBV3	75368	138692	2.27%	0.134%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051219\
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Acq On : 12 May 2019 19:32
Operator : JU/SJ
Sample : K2768-17
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS016-0002-01

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-BF051019.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	14.010	2022	2027	2030	rVV2	2529515	4024499	65.95%	3.889%
73	14.039	2030	2032	2037	rVV	2310223	2009906	32.94%	1.942%
74	14.098	2040	2042	2046	rBV2	125252	177053	2.90%	0.171%
75	14.133	2046	2048	2050	rVV2	144459	162085	2.66%	0.157%
76	14.157	2050	2052	2062	rVB	690572	936927	15.35%	0.905%
77	14.268	2069	2071	2074	rBV4	116994	104567	1.71%	0.101%
78	14.363	2085	2087	2089	rBV	187859	177107	2.90%	0.171%
79	14.404	2089	2094	2097	rVV	645826	910003	14.91%	0.879%
80	14.433	2097	2099	2103	rVV2	484855	573009	9.39%	0.554%
81	14.480	2103	2107	2112	rVV3	916201	1437152	23.55%	1.389%
82	14.527	2112	2115	2117	rVV2	477282	531291	8.71%	0.513%
83	14.545	2117	2118	2122	rVV	386509	377195	6.18%	0.364%
84	14.598	2124	2127	2130	rVB	317768	296130	4.85%	0.286%
85	14.827	2163	2166	2168	rVB2	204515	191389	3.14%	0.185%
86	14.857	2168	2171	2174	rBV	435579	407236	6.67%	0.393%
87	14.927	2181	2183	2185	rVB	165495	121422	1.99%	0.117%
88	15.063	2201	2206	2212	rBV	1685581	3108703	50.94%	3.004%
89	15.121	2212	2216	2218	rVV2	357680	404056	6.62%	0.390%
90	15.163	2218	2223	2228	rVB2	422589	703333	11.53%	0.680%
91	15.363	2252	2257	2263	rBV	1431686	1765888	28.94%	1.706%
92	15.427	2263	2268	2272	rBV	1714687	2087377	34.21%	2.017%
93	15.486	2273	2278	2282	rBV	1299592	1784349	29.24%	1.724%
94	15.698	2310	2314	2321	rVB4	303418	453542	7.43%	0.438%
95	15.927	2349	2353	2357	rBV3	282940	422469	6.92%	0.408%
96	15.986	2359	2363	2370	rVV3	228574	554315	9.08%	0.536%
97	16.045	2370	2373	2378	rVB	201599	294971	4.83%	0.285%
98	16.721	2484	2488	2493	rBV3	167187	312847	5.13%	0.302%
99	16.957	2522	2528	2535	rVB2	637343	1182899	19.38%	1.143%
100	17.398	2598	2603	2613	rVB	532902	1119779	18.35%	1.082%

Sum of corrected areas: 103495848

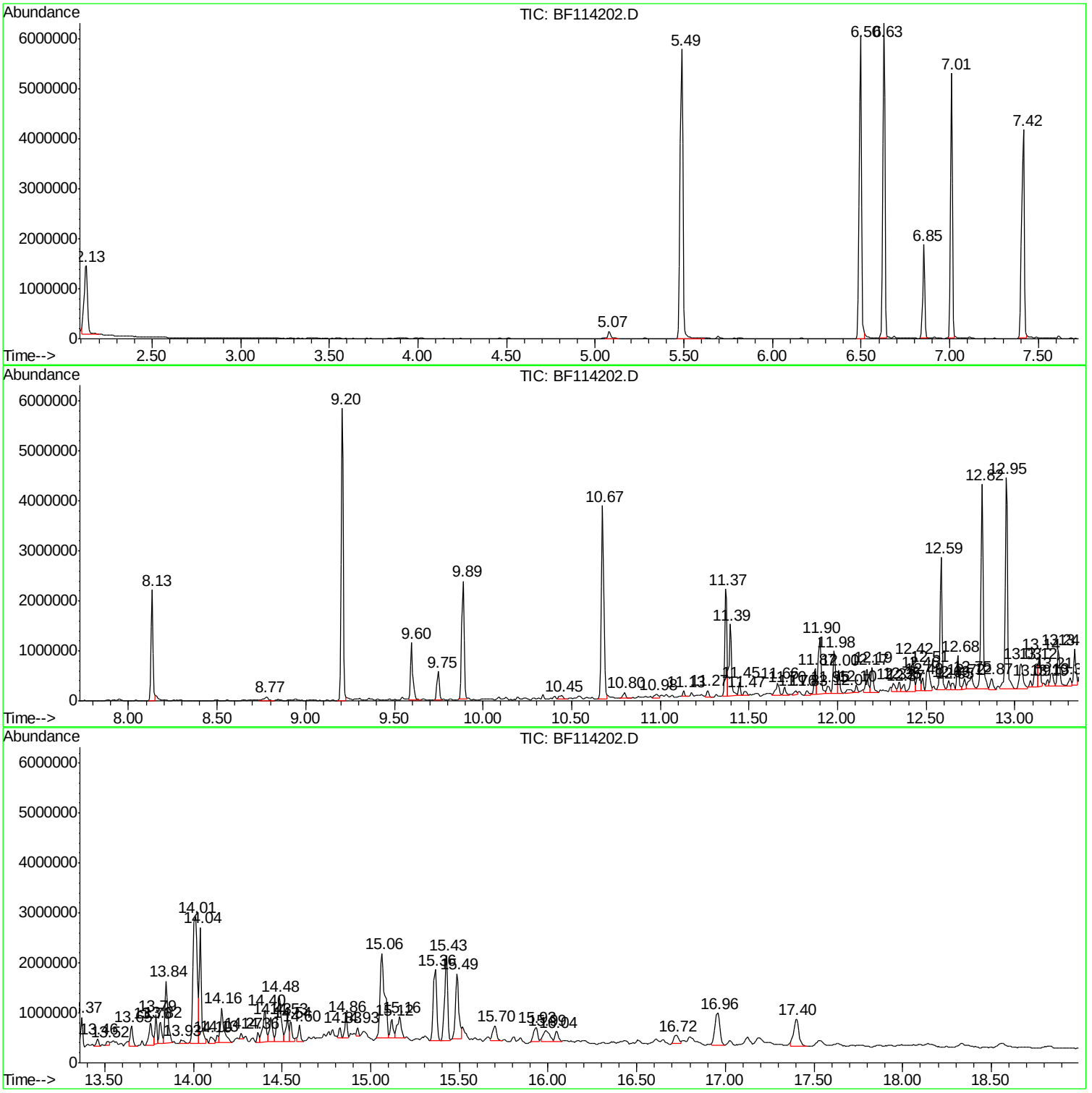
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051219\
Data File : BF114202.D
Acq On : 12 May 2019 19:32
Operator : JU/SJ
Sample : K2768-17
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
P026-SS016-0002-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.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\BF051219\
Data File : BF114202.D
Acq On : 12 May 2019 19:32
Operator : JU/SJ
Sample : K2768-17
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS016-0002-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

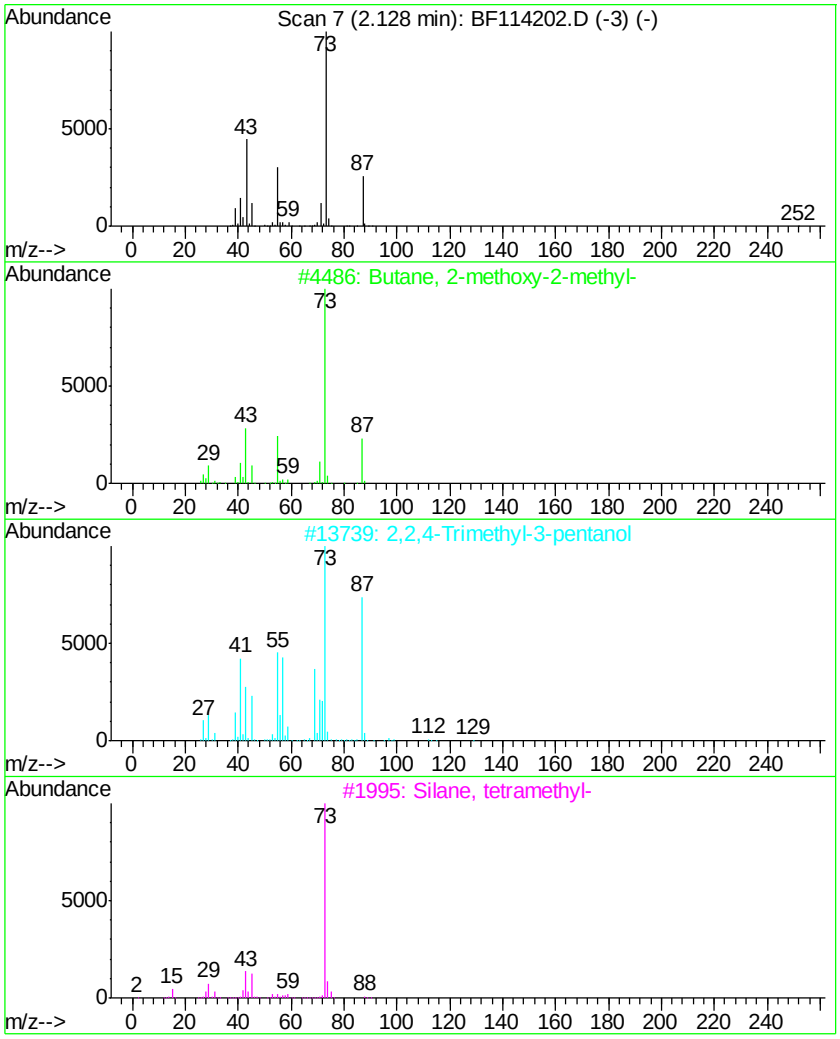
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

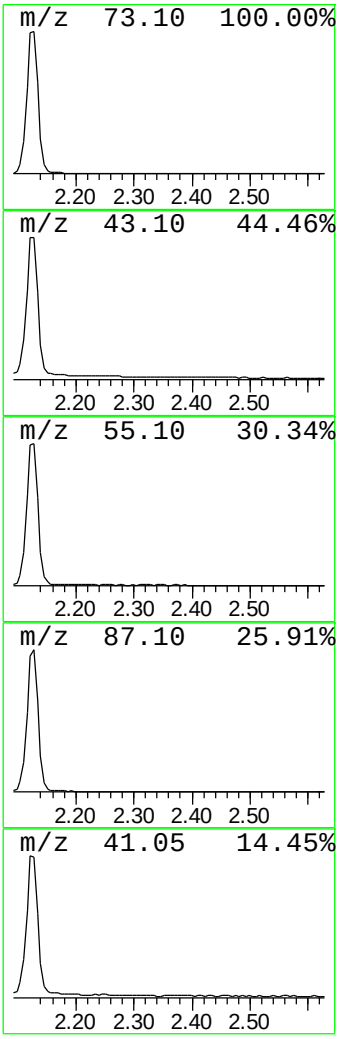
****

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.13	25.50 ng	1897620	1,4-Dichlorobenzene-d4	6.85

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	40
3	Silane, tetramethyl-	88	C4H12Si	000075-76-3	32
4	3-Pentanol, 2,4-dimethyl-	116	C7H16O	000600-36-2	23
5	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	23





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051219\
Data File : BF114202.D
Acq On : 12 May 2019 19:32
Operator : JU/SJ
Sample : K2768-17
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS016-0002-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

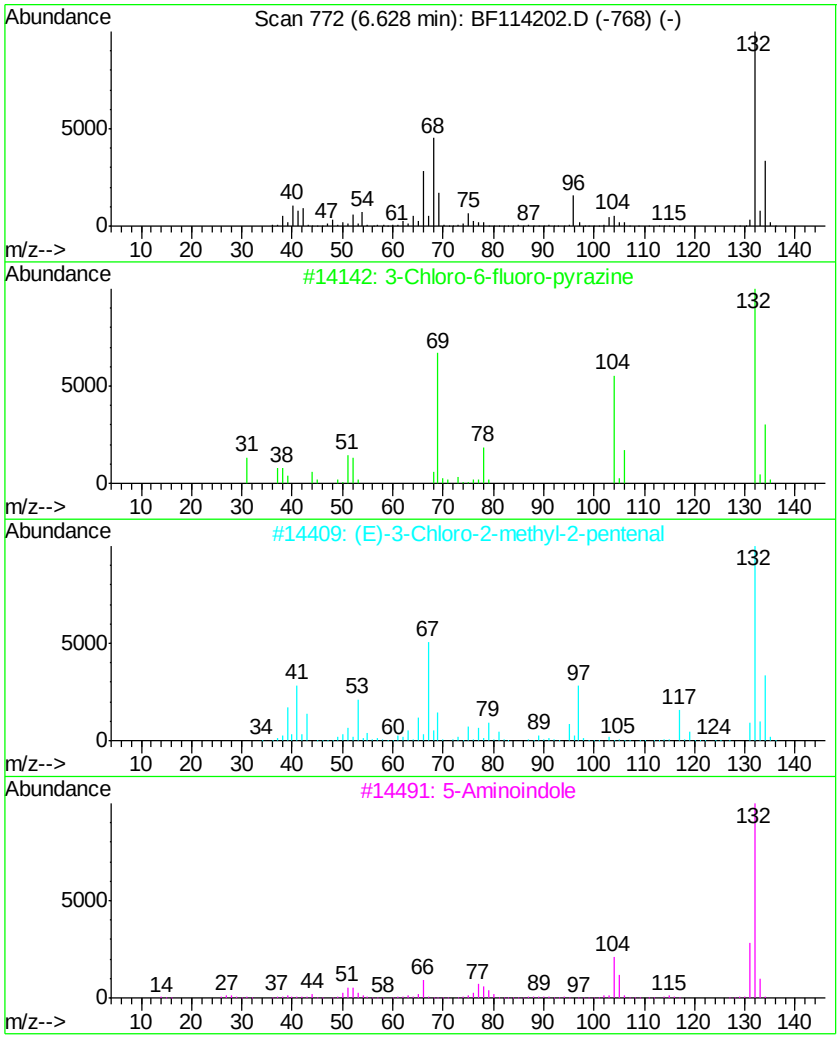
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

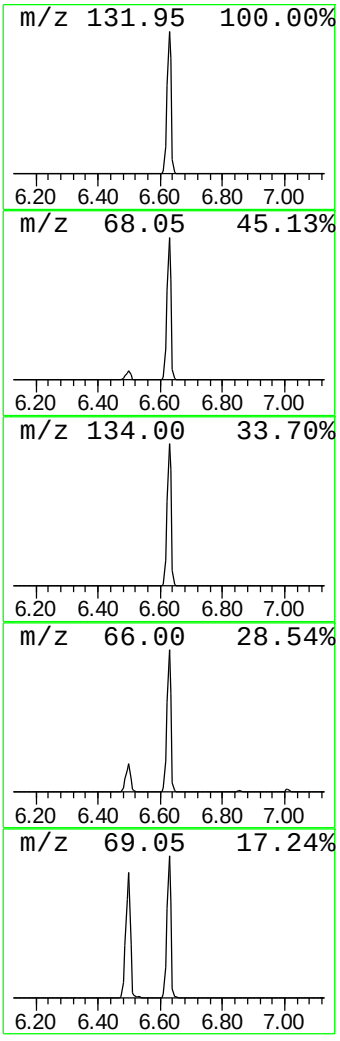
****

Peak Number 2 unknown6.63 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.63	80.88 ng	6019340	1,4-Dichlorobenzene-d4	6.85

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	1,3,5-Trifluorobenzene	132	C6H3F3	000372-38-3	9





Library Search Compound Report

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Data File : BF114202.D
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Misc :
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Instrument : BNA_F
ClientSampleId : P026-SS016-0002-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

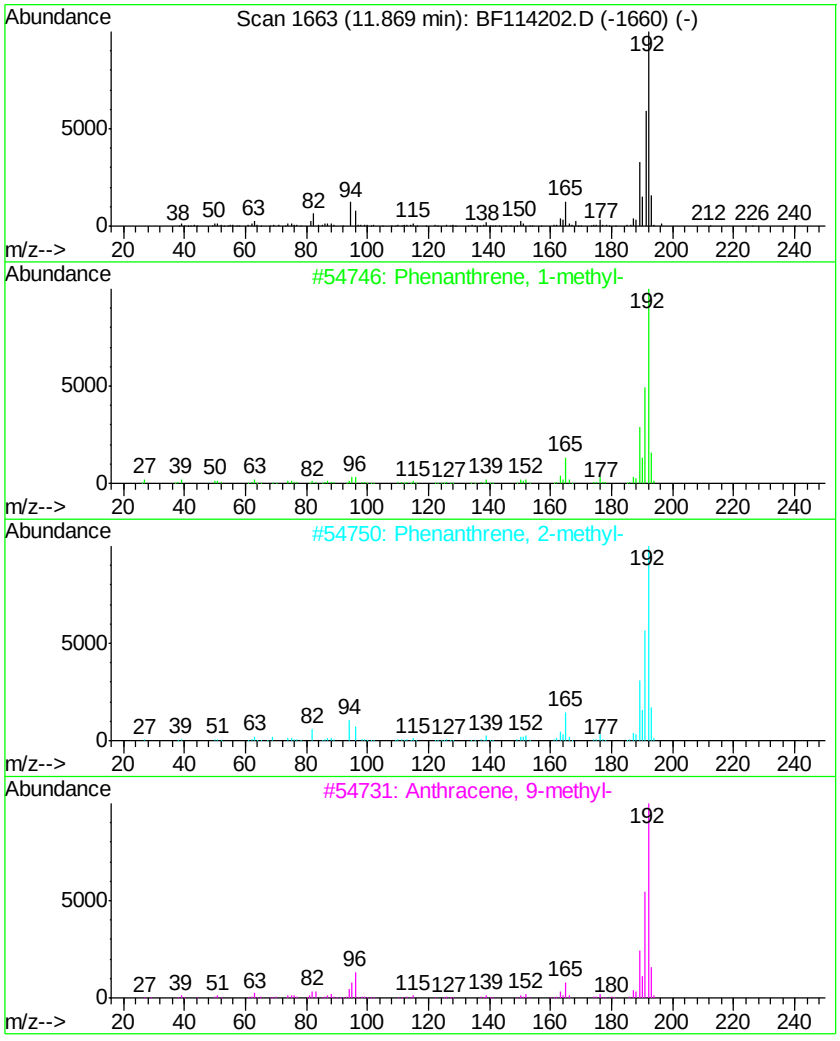
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

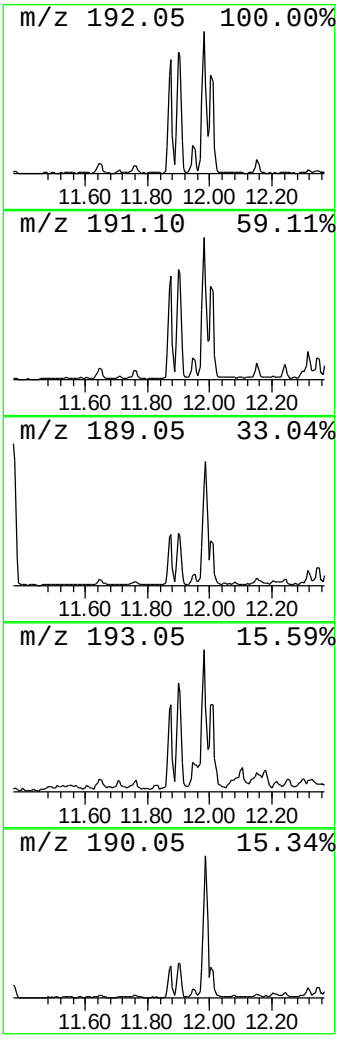
****

Peak Number 4 Phenanthrene, 1-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.87	4.79 ng	469184	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	90





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051219\
Data File : BF114202.D
Acq On : 12 May 2019 19:32
Operator : JU/SJ
Sample : K2768-17
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS016-0002-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

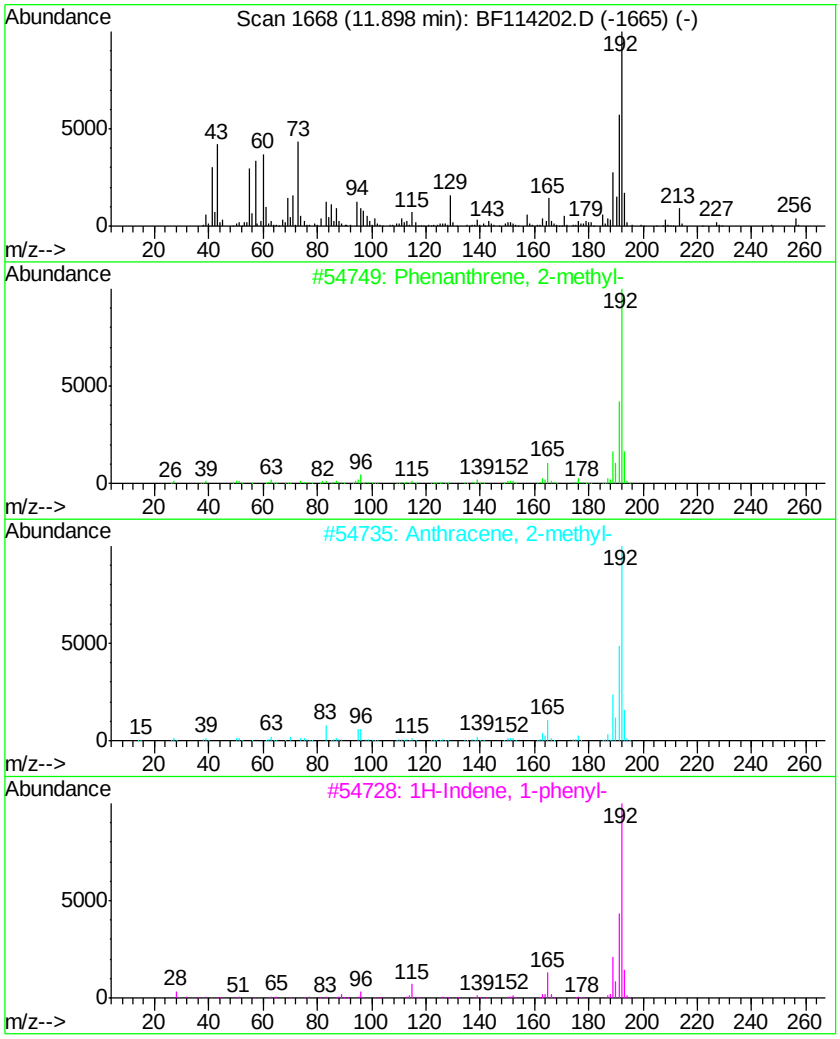
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

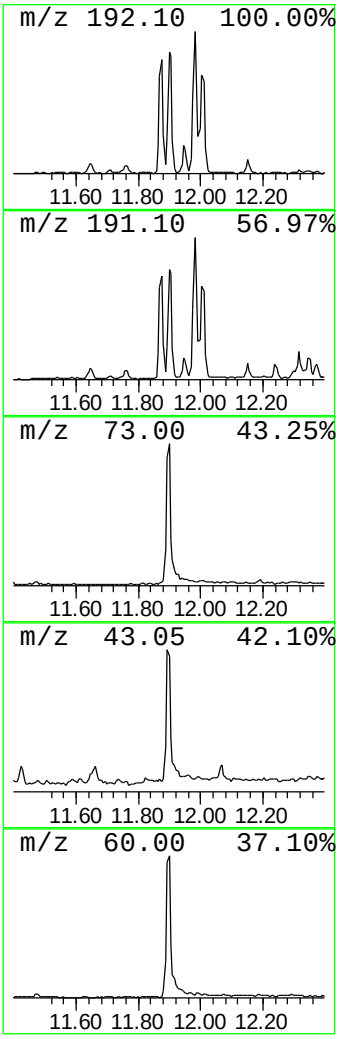
****

Peak Number 5 Phenanthrene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.90	11.83 ng	1158880	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	92
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	92
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	91





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051219\
Data File : BF114202.D
Acq On : 12 May 2019 19:32
Operator : JU/SJ
Sample : K2768-17
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS016-0002-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

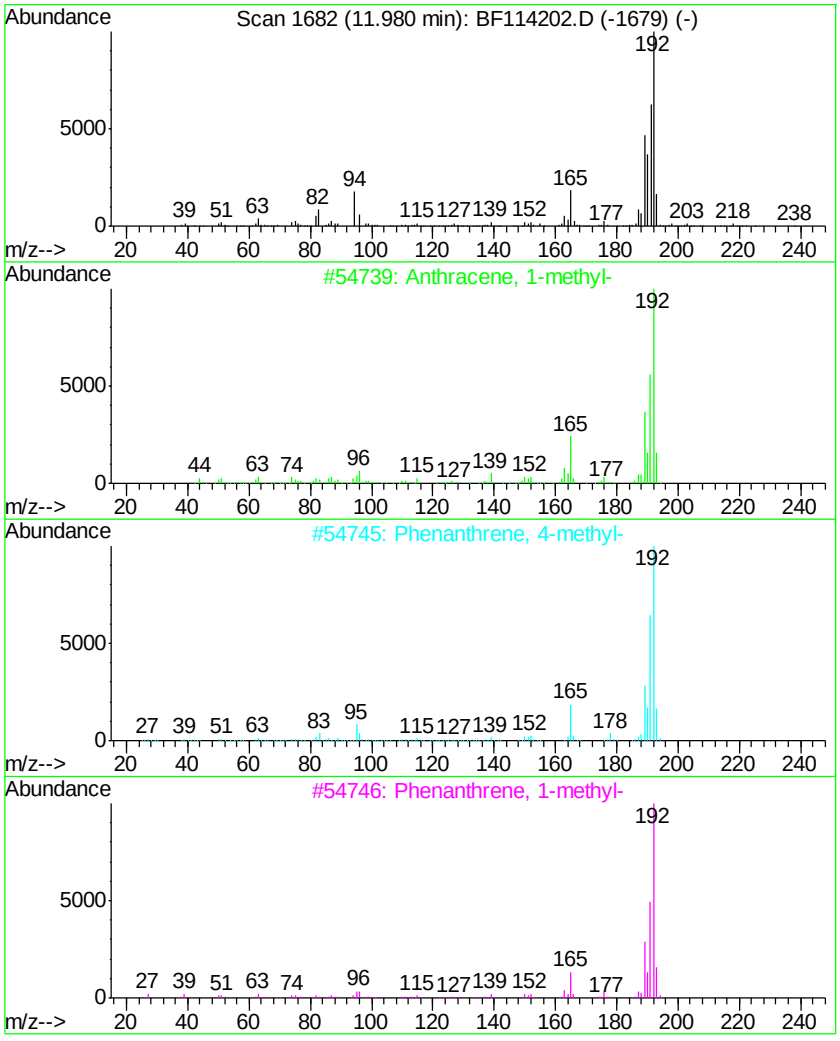
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

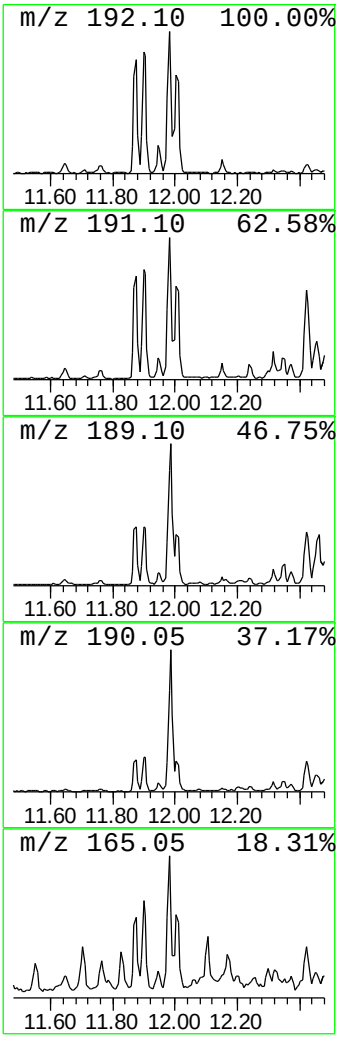
****

Peak Number 6 Anthracene, 1-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.98	9.54 ng	934224	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91
2	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	91
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	70
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	70
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	70





Library Search Compound Report

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Acq On : 12 May 2019 19:32
Operator : JU/SJ
Sample : K2768-17
Misc :
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Instrument : BNA_F
ClientSampleId : P026-SS016-0002-01

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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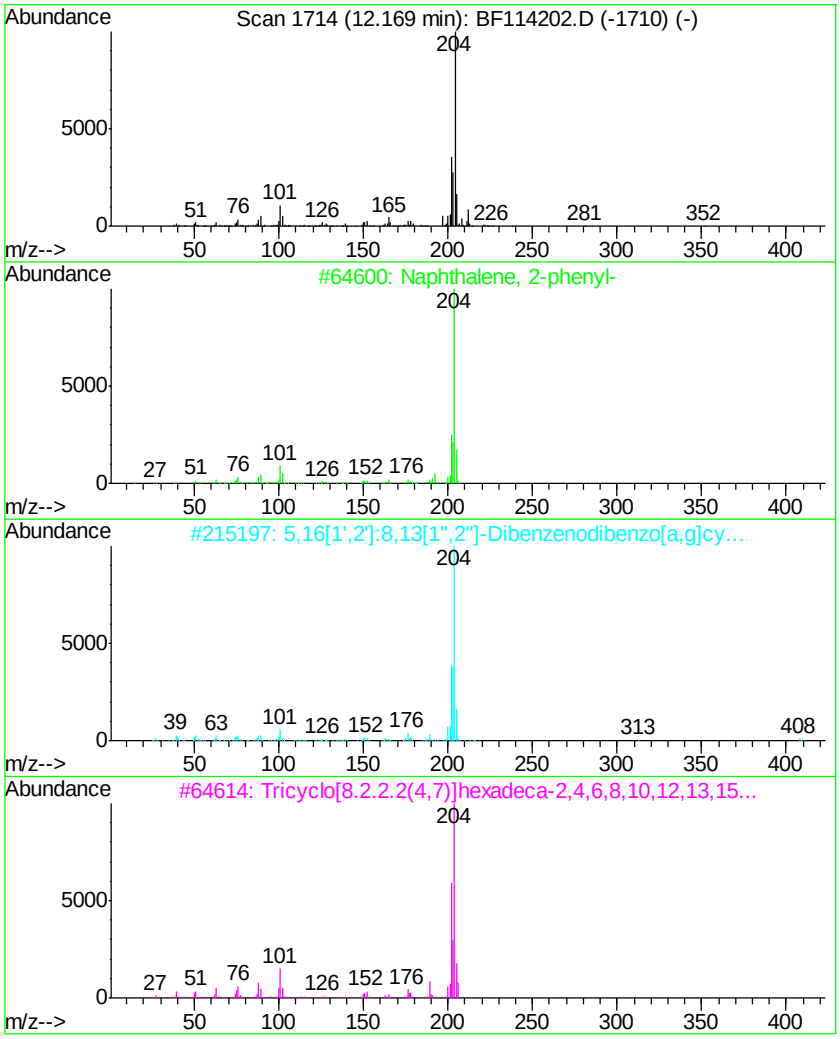
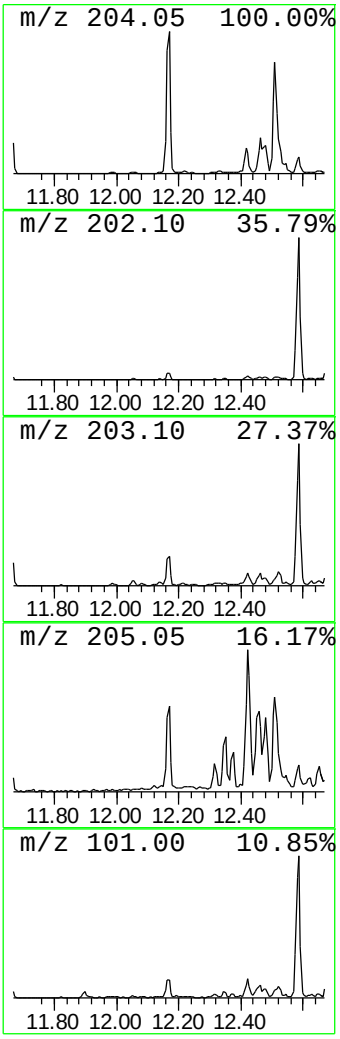
Peak Number 7 Naphthalene, 2-phenyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.17	5.00 ng	489794	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	89
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	83
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	68
4	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	58
5	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	52





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ClientSampleId : P026-SS016-0002-01

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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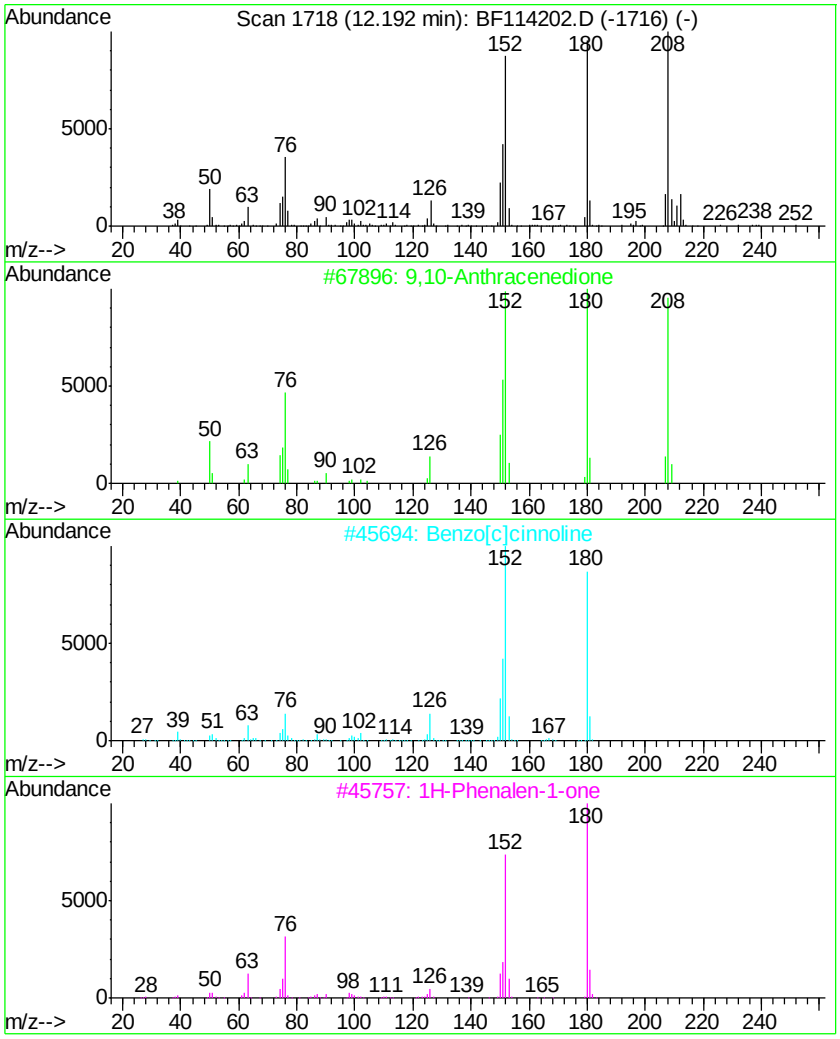
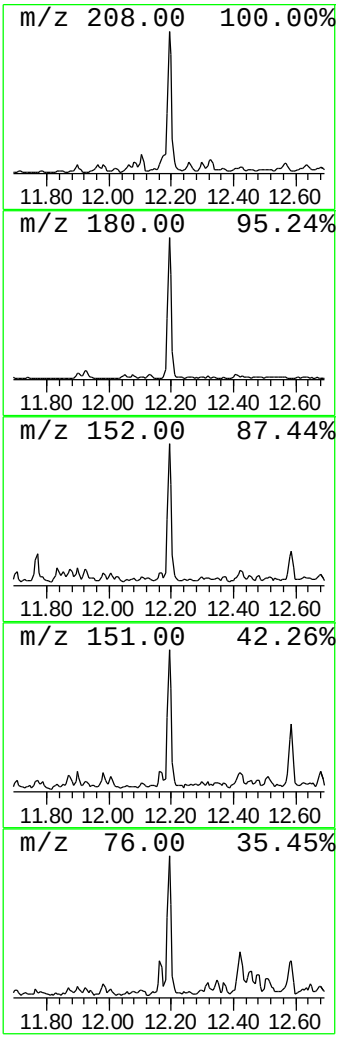
Peak Number 8 9,10-Anthracenedione Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.19	5.18 ng	508004	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	99
2	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	78
3	1H-Phenalen-1-one	180	C13H8O	000548-39-0	60
4	1,4-Anthracenedione	208	C14H8O2	000635-12-1	53
5	9H-Fluoren-9-one	180	C13H8O	000486-25-9	52





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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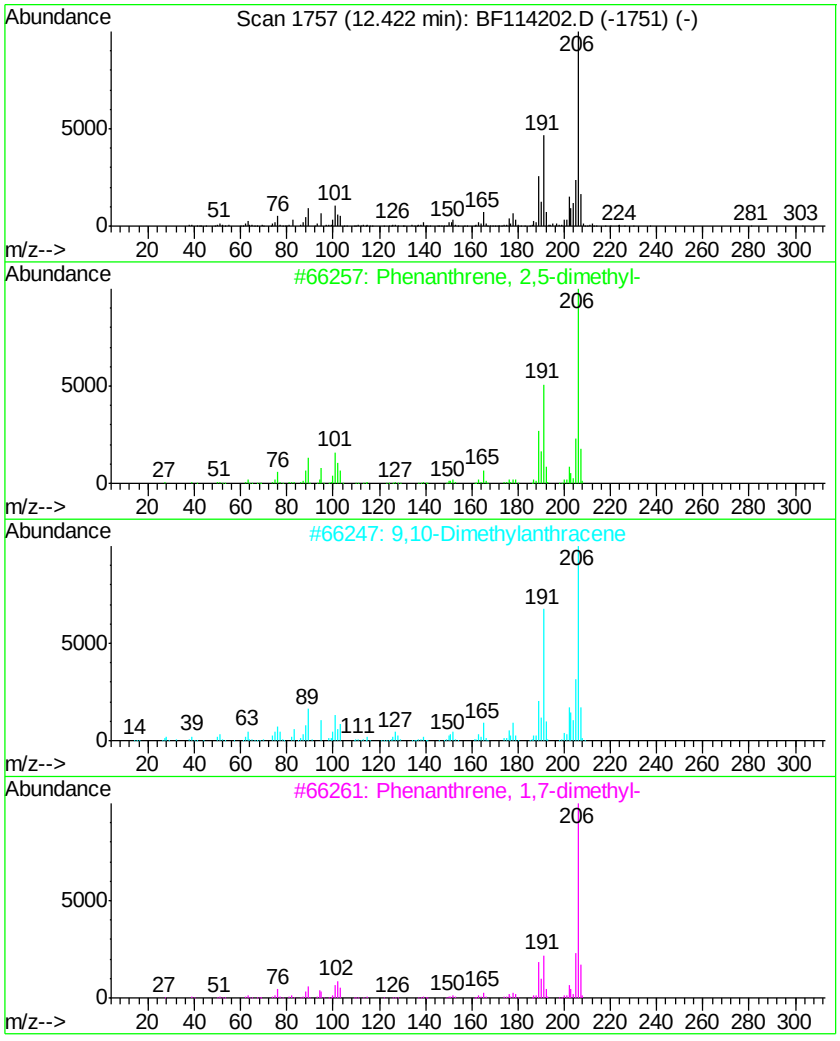
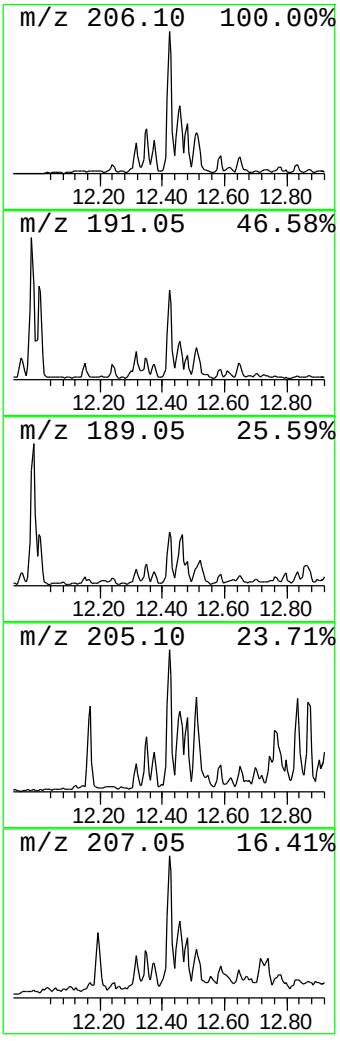
Peak Number 9 Phenanthrene, 2,5-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.42	8.14 ng	797946	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	98
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	97
3	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
4	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
5	di-p-Tolylacetylene	206	C16H14	002789-88-0	92





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ClientSampleId : P026-SS016-0002-01

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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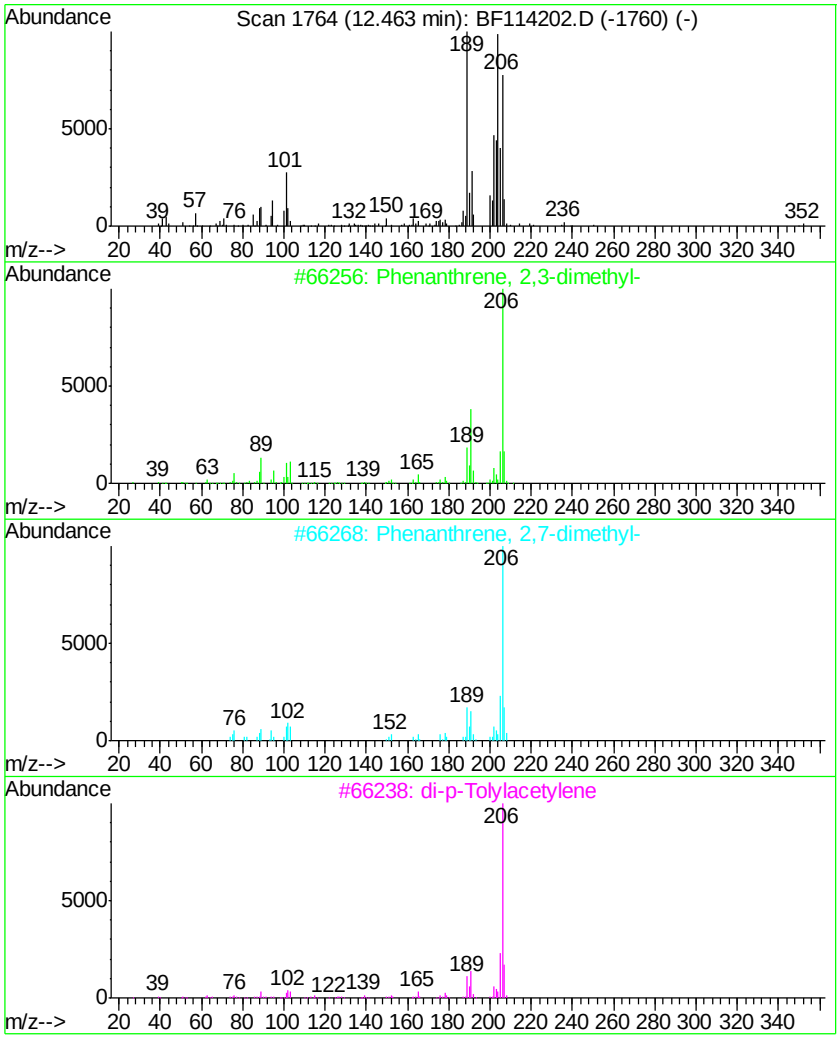
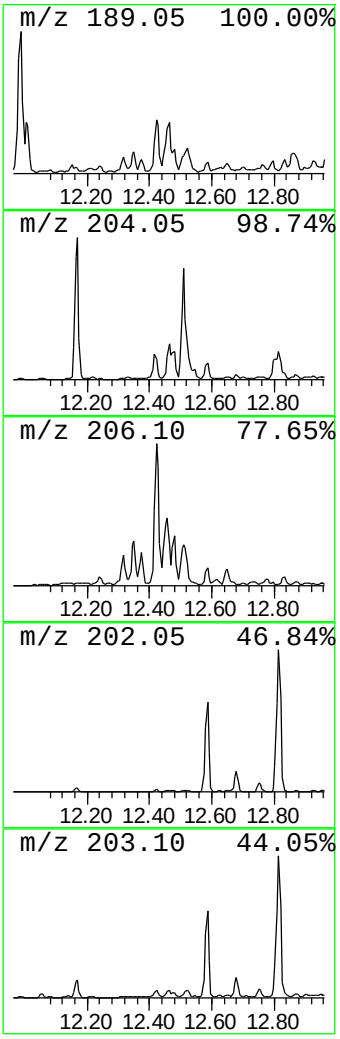
Peak Number 10 Phenanthrene, 2,3-dimethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.46	4.74 ng	464518	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	83
2	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	74
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	68
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	68
5	Naphthalene, 1,2-dihydro-1-phenyl-	206	C16H14	016606-46-5	64





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ALS Vial : 17 Sample Multiplier: 1

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ClientSampleId : P026-SS016-0002-01

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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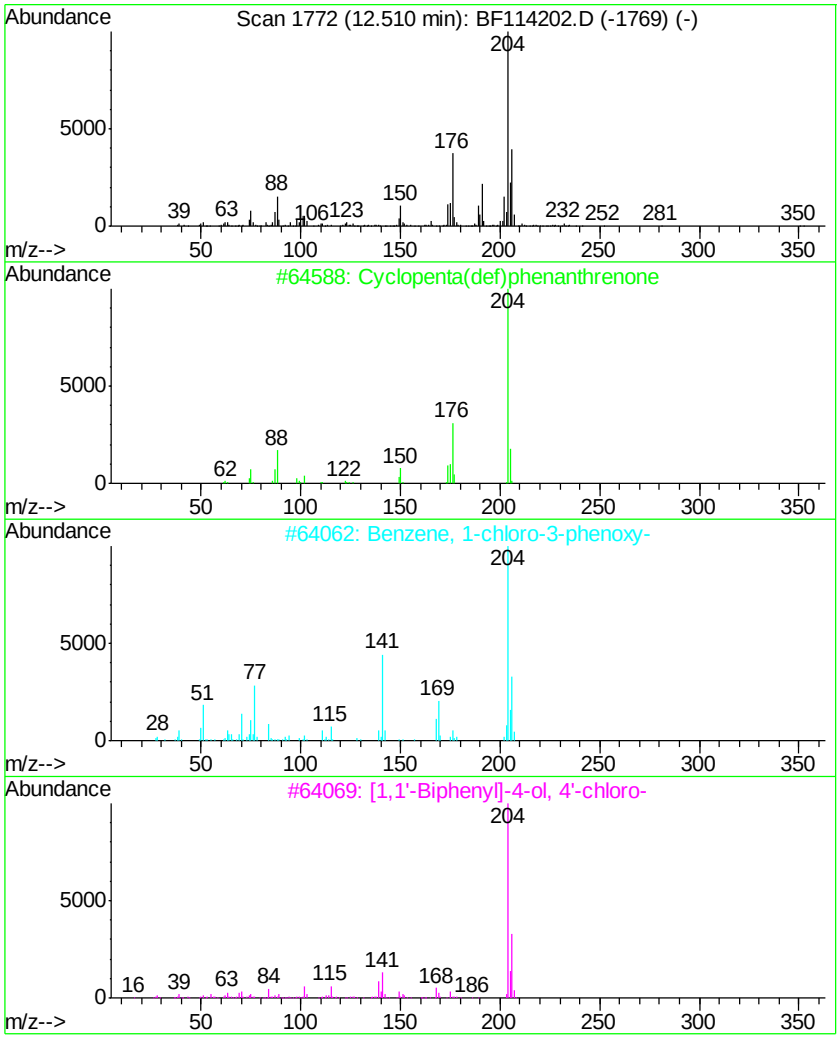
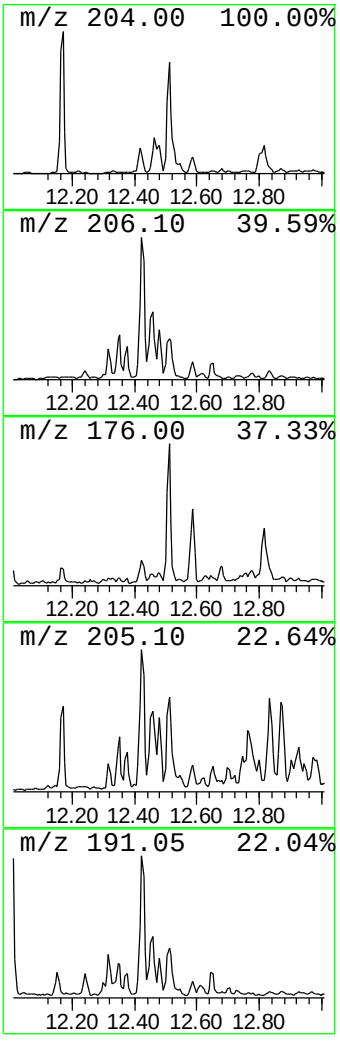
Peak Number 11 Cyclopenta(def)phenanthrenone Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.51	5.83 ng	571244	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	97
2	Benzene, 1-chloro-3-phenoxy-	204	C12H9ClO	006452-49-9	46
3	[1,1'-Biphenyl]-4-ol, 4'-chloro-	204	C12H9ClO	028034-99-3	46
4	2-Chloro-4-phenylphenol	204	C12H9ClO	000092-04-6	43
5	Pyrimido[5,4-b]benzofurane, 4-ch...	204	C10H5ClN2O	039876-88-5	43





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ClientSampleId : P026-SS016-0002-01

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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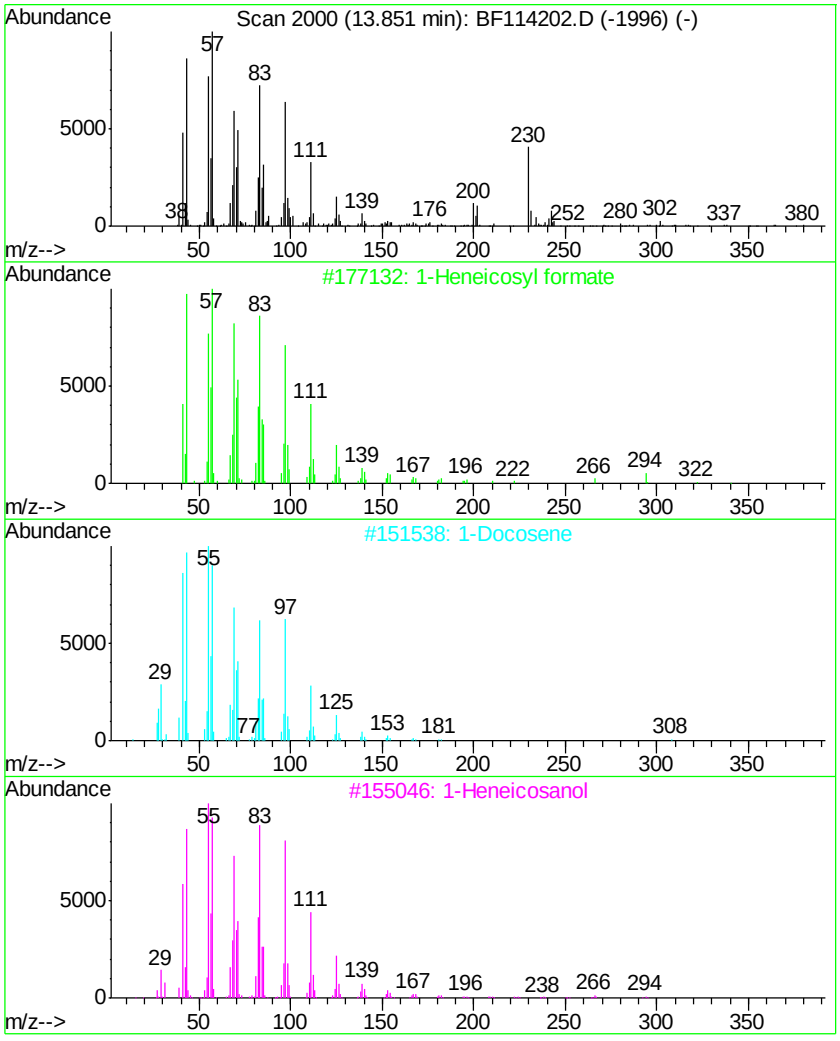
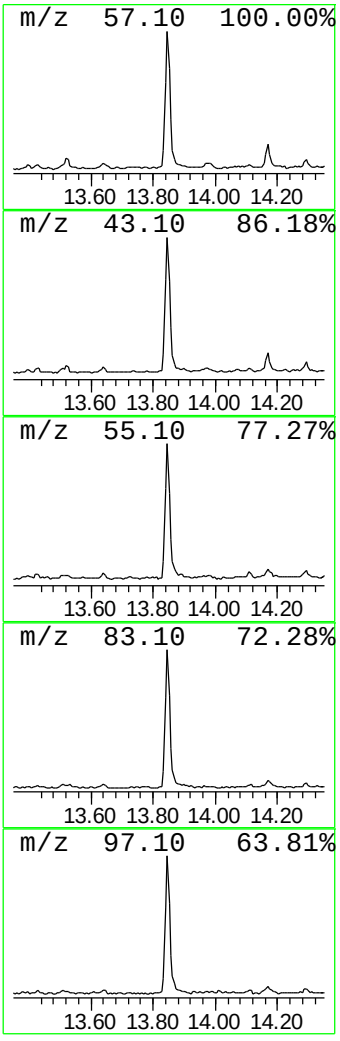
Peak Number 13 1-Heneicosyl formate Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.85	7.60 ng	1529920	Chrysene-d12	14.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heneicosyl formate	340	C22H44O2	077899-03-7	94
2	1-Docosene	308	C22H44	001599-67-3	93
3	1-Heneicosanol	312	C21H44O	015594-90-8	91
4	n-Tetracosanol-1	354	C24H50O	000506-51-4	90
5	Octacosanol	410	C28H58O	000557-61-9	90





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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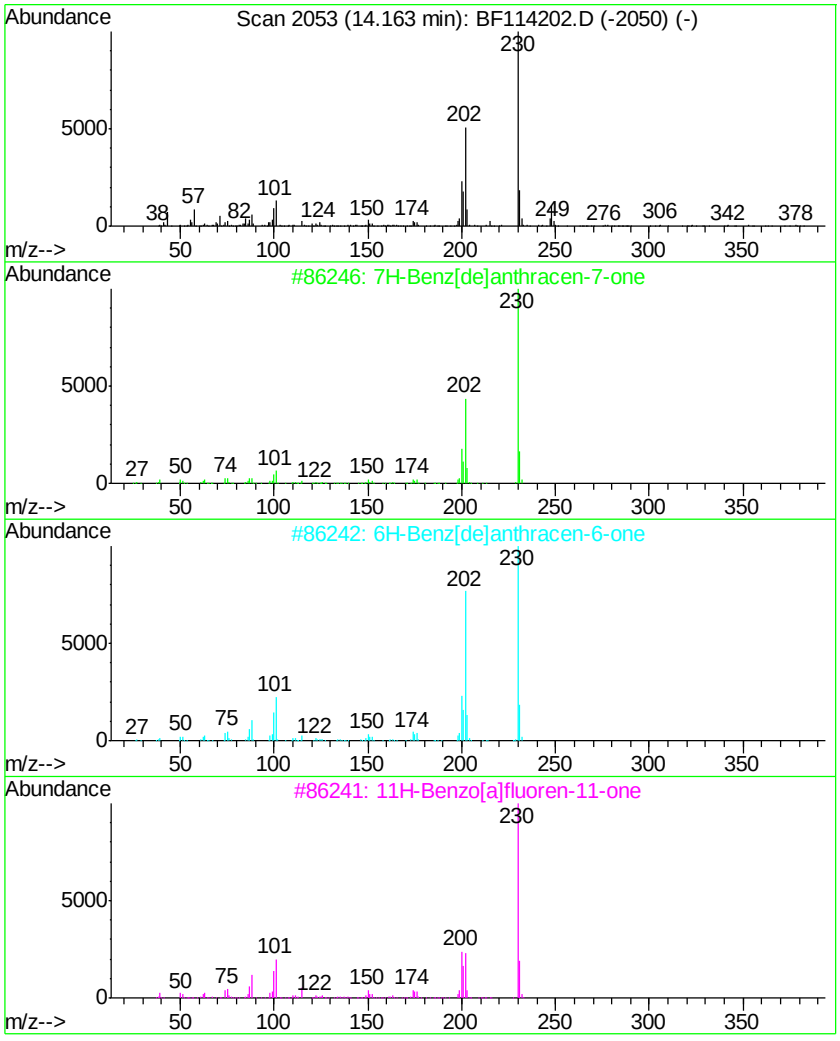
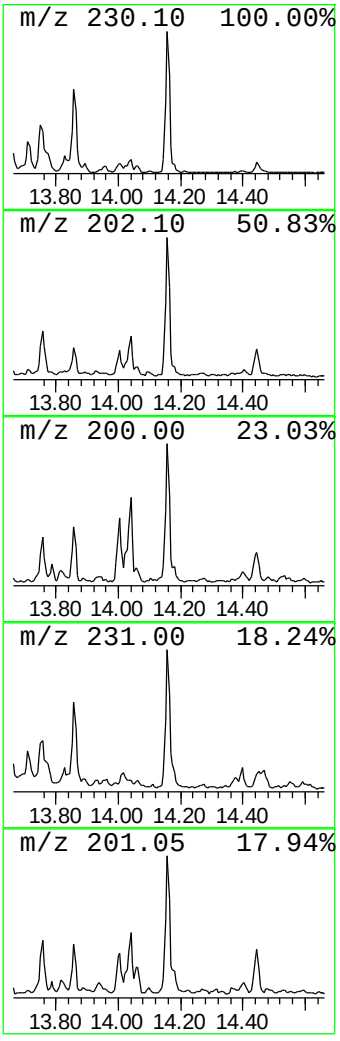
Peak Number 14 7H-Benz[de]anthracen-7-one Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.16	4.66 ng	936927	Chrysene-d12	14.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	96
2	6H-Benz[de]anthracen-6-one	230	C17H10O	080252-14-8	95
3	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	87
4	Pyrene	202	C16H10	000129-00-0	80
5	1-Pyrenecarboxaldehyde	230	C17H10O	003029-19-4	80





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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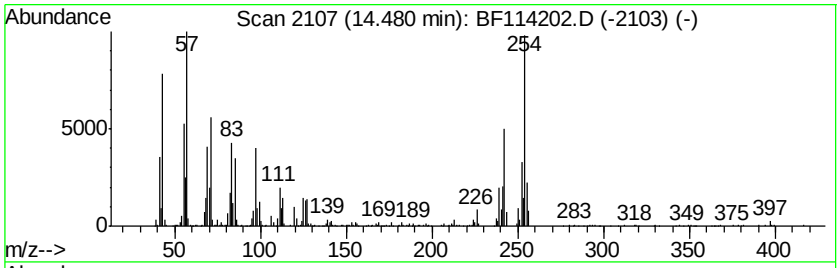
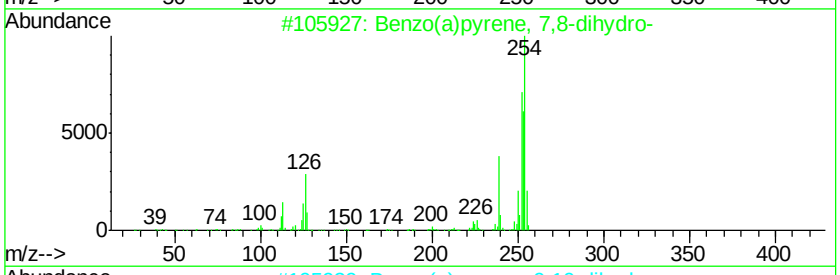
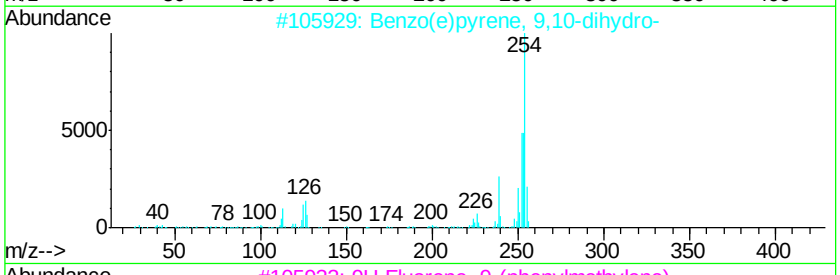
Peak Number 15 Benzo(a)pyrene, 7,8-dihydro- Concentration Rank 10

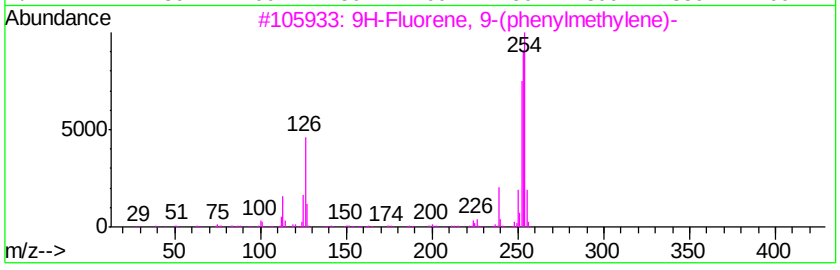
R.T.	EstConc	Area	Relative to ISTD	R.T.
14.48	7.14 ng	1437150	Chrysene-d12	14.02

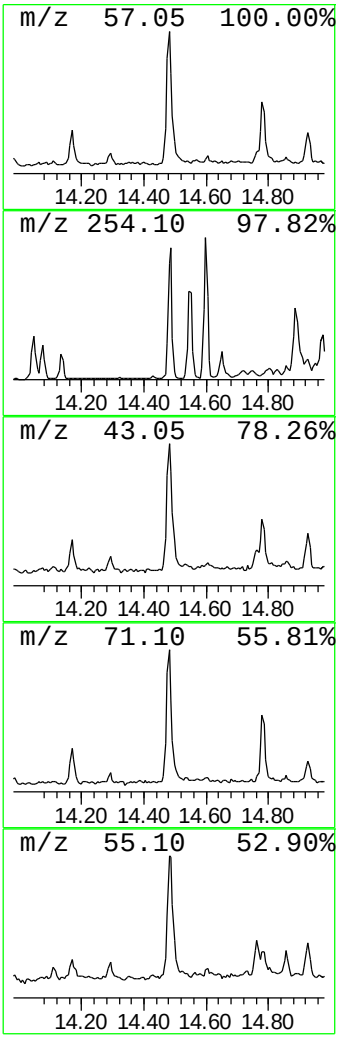
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo(a)pyrene, 7,8-dihydro-	254	C20H14	017573-23-8	51
2	Benzo(e)pyrene, 9,10-dihydro-	254	C20H14	066788-01-0	42
3	9H-Fluorene, 9-(phenylmethylene)-	254	C20H14	001836-87-9	38
4	Phenanthrene, 2-phenyl-	254	C20H14	004325-77-3	38
5	Anthracene, 9-phenyl-	254	C20H14	000602-55-1	38











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ClientSampleId : P026-SS016-0002-01

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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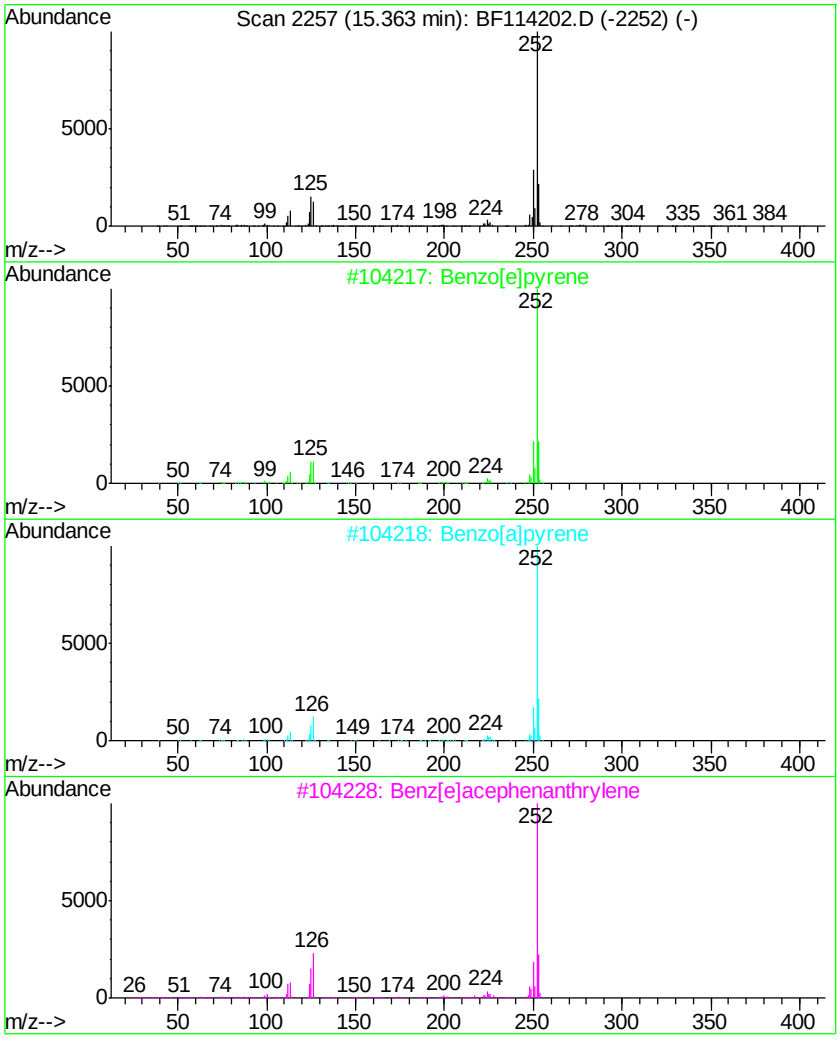
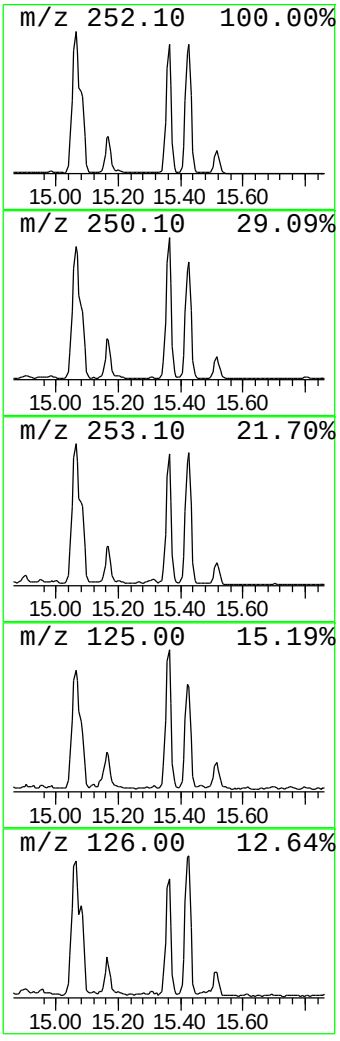
Peak Number 17 Benzo[e]pyrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.36	19.79 ng	1765890	Perylene-d12	15.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	99
2	Benzo[a]pyrene	252	C20H12	000050-32-8	96
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	95
4	Perylene	252	C20H12	000198-55-0	95
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	94





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ClientSampleId : P026-SS016-0002-01

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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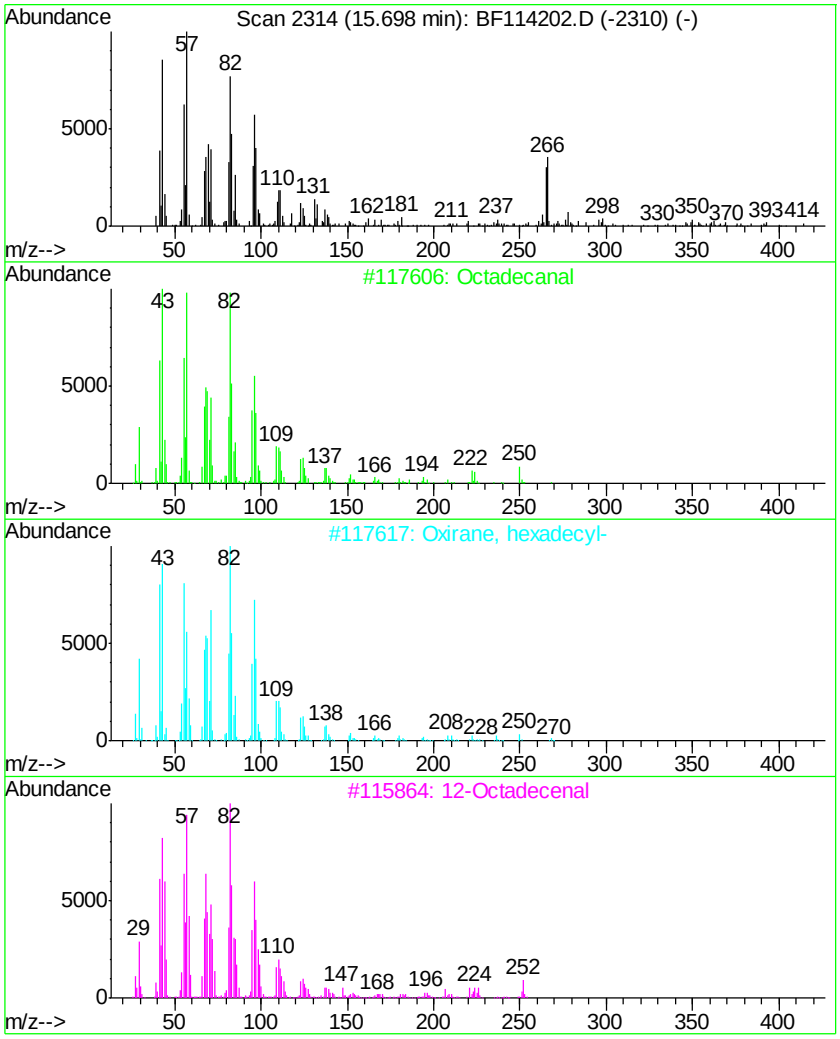
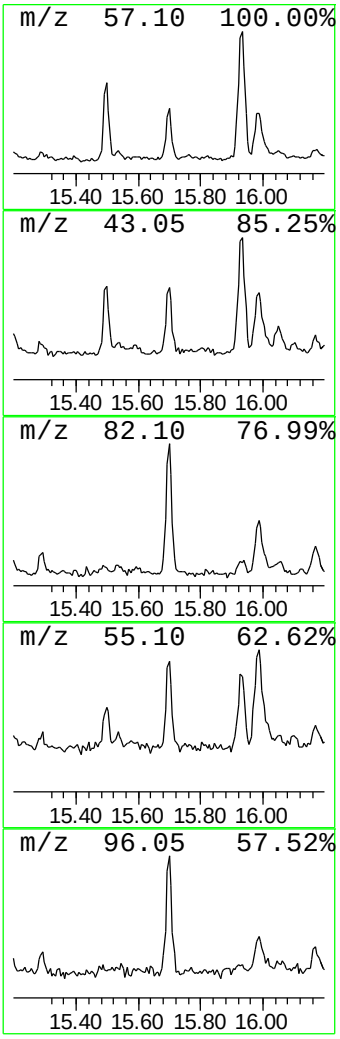
Peak Number 18 Octadecanal Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.70	5.08 ng	453542	Perylene-d12	15.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanal	268	C18H36O	000638-66-4	96
2	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	94
3	12-Octadecenal	266	C18H34O	056554-91-7	80
4	Z-2-Octadecen-1-ol	268	C18H36O	1000131-11-0	74
5	1,19-Eicosadiene	278	C20H38	014811-95-1	64





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Sample : K2768-17
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ALS Vial : 17 Sample Multiplier: 1

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ClientSampleId : P026-SS016-0002-01

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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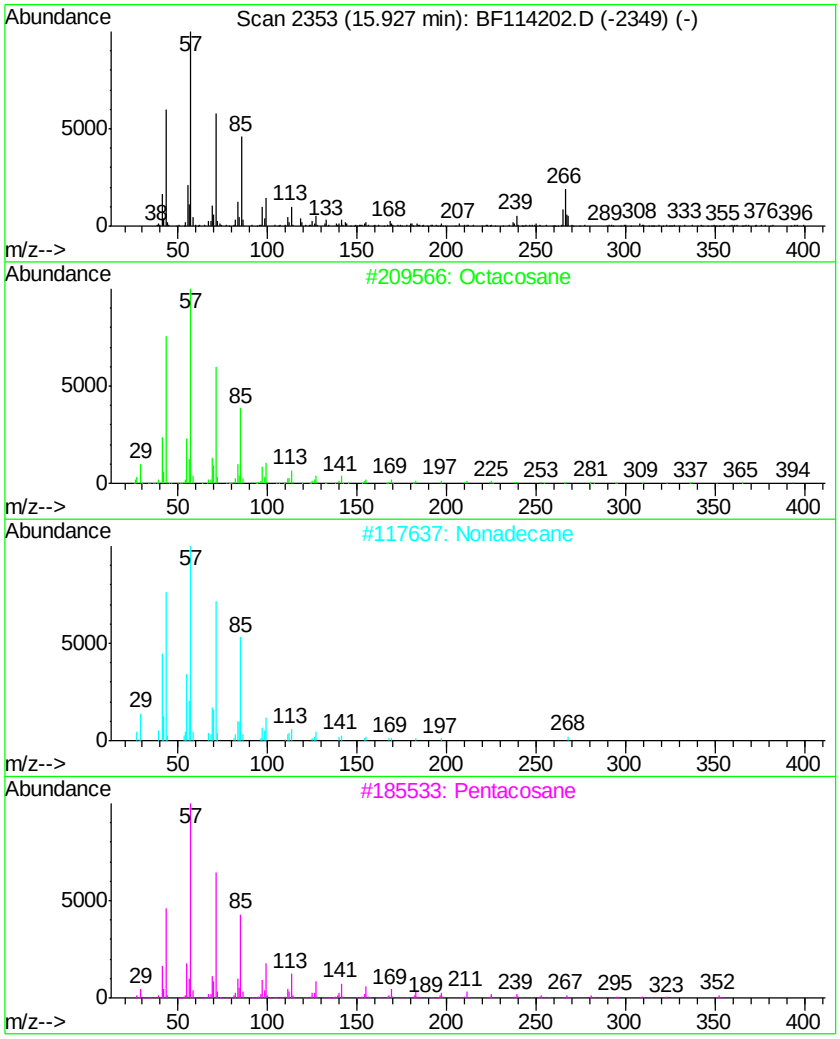
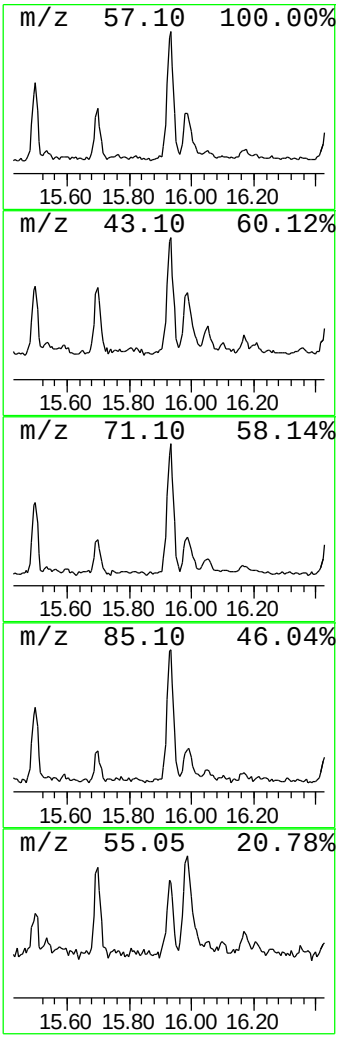
Peak Number 19 Octacosane Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.93	4.74 ng	422469	Perylene-d12	15.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octacosane	394	C28H58	000630-02-4	89
2	Nonadecane	268	C19H40	000629-92-5	86
3	Pentacosane	352	C25H52	000629-99-2	83
4	Tetradecane, 2,6,10-trimethyl-	240	C17H36	014905-56-7	72
5	Heneicosane	296	C21H44	000629-94-7	62





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051219\
Data File : BF114202.D
Acq On : 12 May 2019 19:32
Operator : JU/SJ
Sample : K2768-17
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS016-0002-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.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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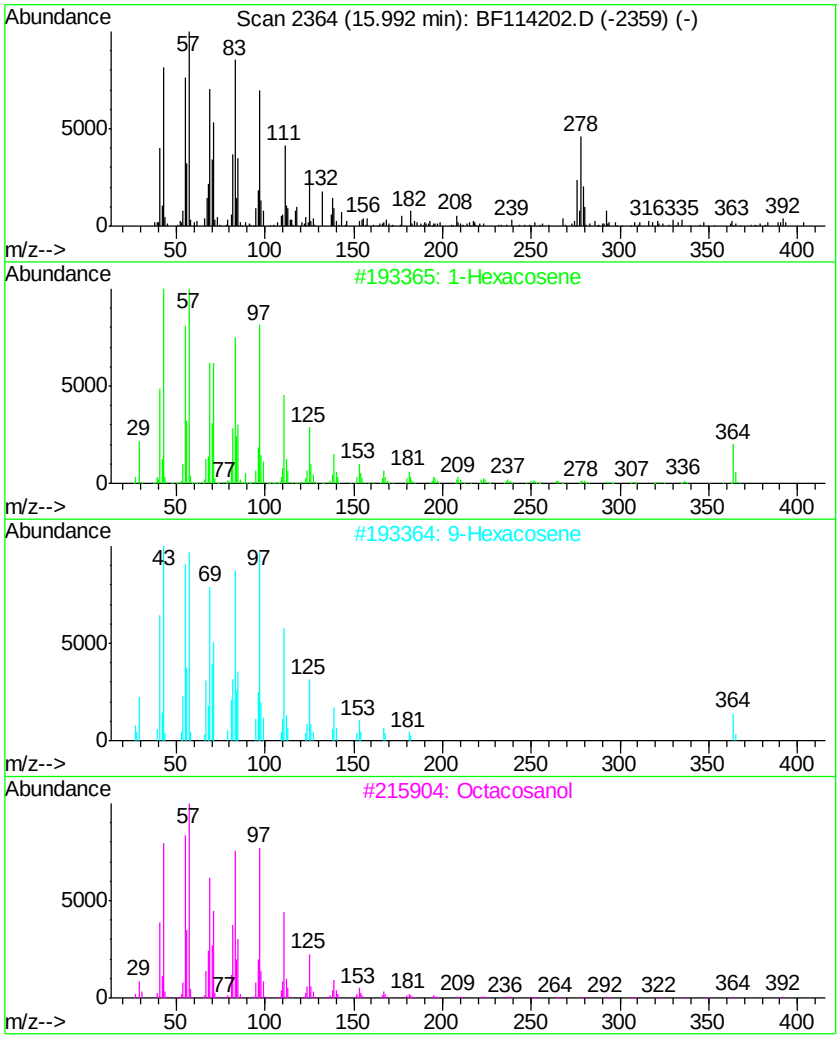
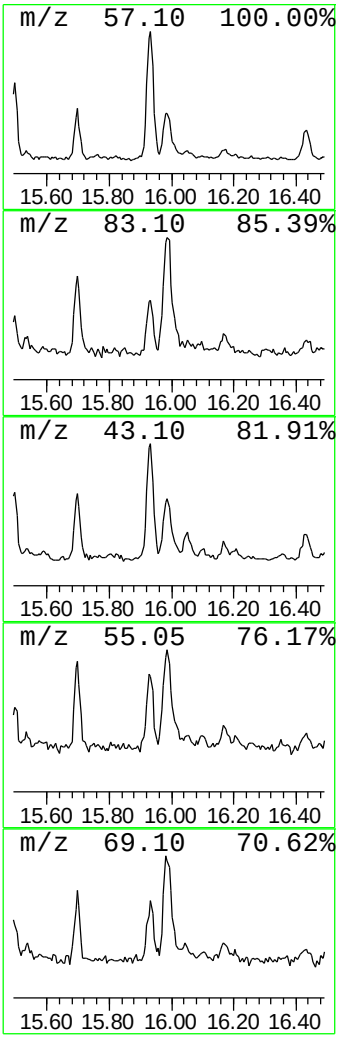
Peak Number 20 1-Hexacosene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.99	6.21 ng	554315	Perylene-d12	15.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Hexacosene	364	C26H52	018835-33-1	99
2	9-Hexacosene	364	C26H52	071502-22-2	95
3	Octacosanol	410	C28H58O	000557-61-9	95
4	1-Eicosene	280	C20H40	003452-07-1	93
5	n-Tetracosanol-1	354	C24H50O	000506-51-4	93





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF051219\
Data File : BF114202.D
Acq On : 12 May 2019 19:32
Operator : JU/SJ
Sample : K2768-17
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS016-0002-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.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
Butane, 2-methoxy...	2.13	25.5	ng	1897620	1	6.85	1488510	20.0
unknown6.63	6.63	80.9	ng	6019340	1	6.85	1488510	20.0
Phenanthrene, 1-m...	11.87	4.8	ng	469184	4	11.37	1959520	20.0
Phenanthrene, 2-m...	11.90	11.8	ng	1158880	4	11.37	1959520	20.0
Anthracene, 1-met...	11.98	9.5	ng	934224	4	11.37	1959520	20.0
Naphthalene, 2-ph...	12.17	5.0	ng	489794	4	11.37	1959520	20.0
9,10-Anthracenedione	12.19	5.2	ng	508004	4	11.37	1959520	20.0
Phenanthrene, 2,5...	12.42	8.1	ng	797946	4	11.37	1959520	20.0
Phenanthrene, 2,3...	12.46	4.7	ng	464518	4	11.37	1959520	20.0
Cyclopenta(def)ph...	12.51	5.8	ng	571244	4	11.37	1959520	20.0
1-Heneicosyl formate	13.85	7.6	ng	1529920	5	14.02	4024500	20.0
7H-Benz[de]anthra...	14.16	4.7	ng	936927	5	14.02	4024500	20.0
Benzo(a)pyrene, 7...	14.48	7.1	ng	1437150	5	14.02	4024500	20.0
Benzo[e]pyrene	15.36	19.8	ng	1765890	6	15.49	1784350	20.0
Octadecanal	15.70	5.1	ng	453542	6	15.49	1784350	20.0
Octacosane	15.93	4.7	ng	422469	6	15.49	1784350	20.0
1-Hexacosene	15.99	6.2	ng	554315	6	15.49	1784350	20.0