LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112719\
Data File : BF118045.D
Acq On : 27 Nov 2019 17:15
Operator : JU
Sample : K5959-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-0-2-COMP-B3

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-BF111319.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	2.140	4	9	26	rVB	506112	670551	19.82%	1.045%
2	5.087	505	510	520	rVB	394581	495025	14.63%	0.772%
3	5.498	575	580	583	rBV	2686551	2475879	73.20%	3.860%
4	6.510	747	752	763	rBV	2886909	2689585	79.51%	4.193%
5	6.651	772	776	779	rBV	3399005	2847810	84.19%	4.439%
6	6.881	812	815	819	rBV	1035407	827916	24.48%	1.291%
7	7.040	838	842	845	rBV	2778507	2259853	66.81%	3.523%
8	7.445	906	911	914	rBV	1983282	1697577	50.19%	2.646%
9	8.169	1030	1034	1037	rBV	1318343	1058408	31.29%	1.650%
10	9.251	1213	1218	1221	rBV	3870589	3382523	100.00%	5.273%
11	9.586	1272	1275	1278	rBV	129821	127376	3.77%	0.199%
12	9.639	1281	1284	1288	rVB	562498	435074	12.86%	0.678%
13	9.792	1307	1310	1314	rVB	92131	76474	2.26%	0.119%
14	9.933	1327	1334	1337	rBV	1556015	1250388	36.97%	1.949%
15	9.963	1337	1339	1342	rVB	188325	152503	4.51%	0.238%
16	10.133	1364	1368	1372	rVV2	120136	123547	3.65%	0.193%
17	10.175	1372	1375	1379	rVB	103165	80422	2.38%	0.125%
18	10.251	1384	1388	1390	rBV	98979	92832	2.74%	0.145%
19	10.339	1399	1403	1405	rBV2	75717	94212	2.79%	0.147%
20	10.480	1424	1427	1433	rVV2	148006	150748	4.46%	0.235%
21	10.545	1433	1438	1440	rVV2	87050	120263	3.56%	0.187%
22	10.569	1440	1442	1444	rVV2	83815	73936	2.19%	0.115%
23	10.639	1448	1454	1459	rVB3	99871	144976	4.29%	0.226%
24	10.727	1463	1469	1472	rVV	2169666	2080238	61.50%	3.243%
25	10.851	1484	1490	1492	rVB3	89514	115728	3.42%	0.180%
26	11.033	1515	1521	1523	rBV3	95351	129709	3.83%	0.202%
27	11.163	1538	1543	1544	rBV2	87221	115275	3.41%	0.180%
28	11.186	1544	1547	1551	rVV2	94666	114113	3.37%	0.178%
29	11.227	1551	1554	1558	rVV	198562	185187	5.47%	0.289%
30	11.280	1558	1563	1568	rVV3	88867	172275	5.09%	0.269%
31	11.322	1568	1570	1575	rVB	187389	163452	4.83%	0.255%
32	11.427	1584	1588	1590	rBV	1273257	1153675	34.11%	1.798%
33	11.451	1590	1592	1596	rVV	2622474	2291404	67.74%	3.572%
34	11.504	1596	1601	1603	rVV	600554	536732	15.87%	0.837%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112719\
Data File : BF118045.D
Acq On : 27 Nov 2019 17:15
Operator : JU
Sample : K5959-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-0-2-COMP-B3

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-BF111319.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.604	1616	1618	1621	rVB2	90401	76538	2.26%	0.119%
36	11.657	1621	1627	1629	rBV2	153329	181683	5.37%	0.283%
37	11.722	1635	1638	1641	rVB2	136101	107342	3.17%	0.167%
38	11.757	1641	1644	1649	rVB	228915	211725	6.26%	0.330%
39	11.839	1656	1658	1663	rVB	84501	91620	2.71%	0.143%
40	11.886	1663	1666	1668	rBV	97324	90242	2.67%	0.141%
41	11.933	1670	1674	1676	rVV	749993	783796	23.17%	1.222%
42	11.957	1676	1678	1682	rVV	951658	871736	25.77%	1.359%
43	12.004	1683	1686	1689	rVV	292364	248026	7.33%	0.387%
44	12.039	1689	1692	1695	rVV2	828503	972651	28.76%	1.516%
45	12.063	1695	1696	1700	rVB	541453	435124	12.86%	0.678%
46	12.116	1701	1705	1706	rBV2	70632	77960	2.30%	0.122%
47	12.227	1721	1724	1726	rVV	431284	377052	11.15%	0.588%
48	12.251	1726	1728	1734	rVB2	350850	321373	9.50%	0.501%
49	12.304	1734	1737	1740	rBV2	86399	90751	2.68%	0.141%
50	12.357	1744	1746	1747	rBV	93719	74463	2.20%	0.116%
51	12.374	1747	1749	1752	rVV2	227493	198911	5.88%	0.310%
52	12.410	1752	1755	1757	rVV	161681	152623	4.51%	0.238%
53	12.433	1757	1759	1761	rVB	156679	113716	3.36%	0.177%
54	12.486	1761	1768	1770	rBV	532424	593547	17.55%	0.925%
55	12.522	1770	1774	1776	rVV2	252904	354952	10.49%	0.553%
56	12.569	1779	1782	1787	rVV	415975	425286	12.57%	0.663%
57	12.651	1792	1796	1799	rVB	3367199	2768189	81.84%	4.315%
58	12.692	1799	1803	1804	rBV2	98318	80786	2.39%	0.126%
59	12.710	1804	1806	1809	rVB2	112567	87703	2.59%	0.137%
60	12.739	1809	1811	1814	rVB3	86366	73881	2.18%	0.115%
61	12.774	1814	1817	1819	rBV2	128284	132800	3.93%	0.207%
62	12.798	1819	1821	1824	rVB2	101798	86958	2.57%	0.136%
63	12.880	1829	1835	1840	rBV	2954530	3305389	97.72%	5.153%
64	12.927	1840	1843	1848	rVB2	193104	245380	7.25%	0.383%
65	12.992	1851	1854	1855	rBV2	149214	132506	3.92%	0.207%
66	13.016	1855	1858	1865	rVB	2867372	2787729	82.42%	4.346%
67	13.098	1867	1872	1875	rBV3	344350	537079	15.88%	0.837%
68	13.151	1879	1881	1883	rBV3	89399	82918	2.45%	0.129%
69	13.180	1883	1886	1887	rBV3	255504	230127	6.80%	0.359%
70	13.274	1899	1902	1904	rVV	124276	129838	3.84%	0.202%
71	13.310	1904	1908	1911	rVV2	502281	532578	15.74%	0.830%

LSC Area Percent Report

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Acq On : 27 Nov 2019 17:15
Operator : JU
Sample : K5959-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-0-2-COMP-B3

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

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Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.339	1911	1913	1916	rVV2	88210	95147	2.81%	0.148%
73	13.363	1916	1917	1920	rVV2	78088	73079	2.16%	0.114%
74	13.404	1921	1924	1926	rVV	375758	298813	8.83%	0.466%
75	13.433	1926	1929	1932	rVV	354388	320881	9.49%	0.500%
76	13.586	1952	1955	1957	rBV3	92434	129568	3.83%	0.202%
77	13.716	1974	1977	1981	rVB	609883	542309	16.03%	0.845%
78	13.827	1991	1996	1999	rBV2	414090	597800	17.67%	0.932%
79	13.857	1999	2001	2003	rVV	329656	245194	7.25%	0.382%
80	13.880	2003	2005	2008	rVV2	193588	228135	6.74%	0.356%
81	13.921	2008	2012	2020	rVB2	626311	744104	22.00%	1.160%
82	14.074	2031	2038	2042	rBV2	2219659	3331836	98.50%	5.194%
83	14.110	2042	2044	2049	rVB	1807753	1428648	42.24%	2.227%
84	14.168	2051	2054	2055	rBV	102119	96869	2.86%	0.151%
85	14.304	2074	2077	2080	rBV2	140650	177411	5.24%	0.277%
86	14.339	2080	2083	2085	rVV	140805	126544	3.74%	0.197%
87	14.433	2096	2099	2100	rBV	111029	100000	2.96%	0.156%
88	14.468	2100	2105	2108	rVV	522715	542022	16.02%	0.845%
89	14.504	2108	2111	2113	rVB	286601	250815	7.42%	0.391%
90	14.545	2114	2118	2123	rVB5	197483	362430	10.71%	0.565%
91	14.592	2123	2126	2128	rBV	234069	219800	6.50%	0.343%
92	14.863	2169	2172	2175	rBV2	139283	147888	4.37%	0.231%
93	14.939	2182	2185	2186	rBV	124185	118254	3.50%	0.184%
94	15.145	2215	2220	2223	rBV	1372042	2165903	64.03%	3.376%
95	15.251	2235	2238	2241	rBV	242110	254505	7.52%	0.397%
96	15.457	2269	2273	2279	rVB	830517	1084911	32.07%	1.691%
97	15.521	2279	2284	2289	rBV	1147336	1457789	43.10%	2.273%
98	15.586	2290	2295	2298	rBV	831971	1137634	33.63%	1.773%
99	17.104	2548	2553	2562	rVB2	414598	832417	24.61%	1.298%
100	17.562	2626	2631	2641	rVB	289236	586083	17.33%	0.914%

Sum of corrected areas: 64147433

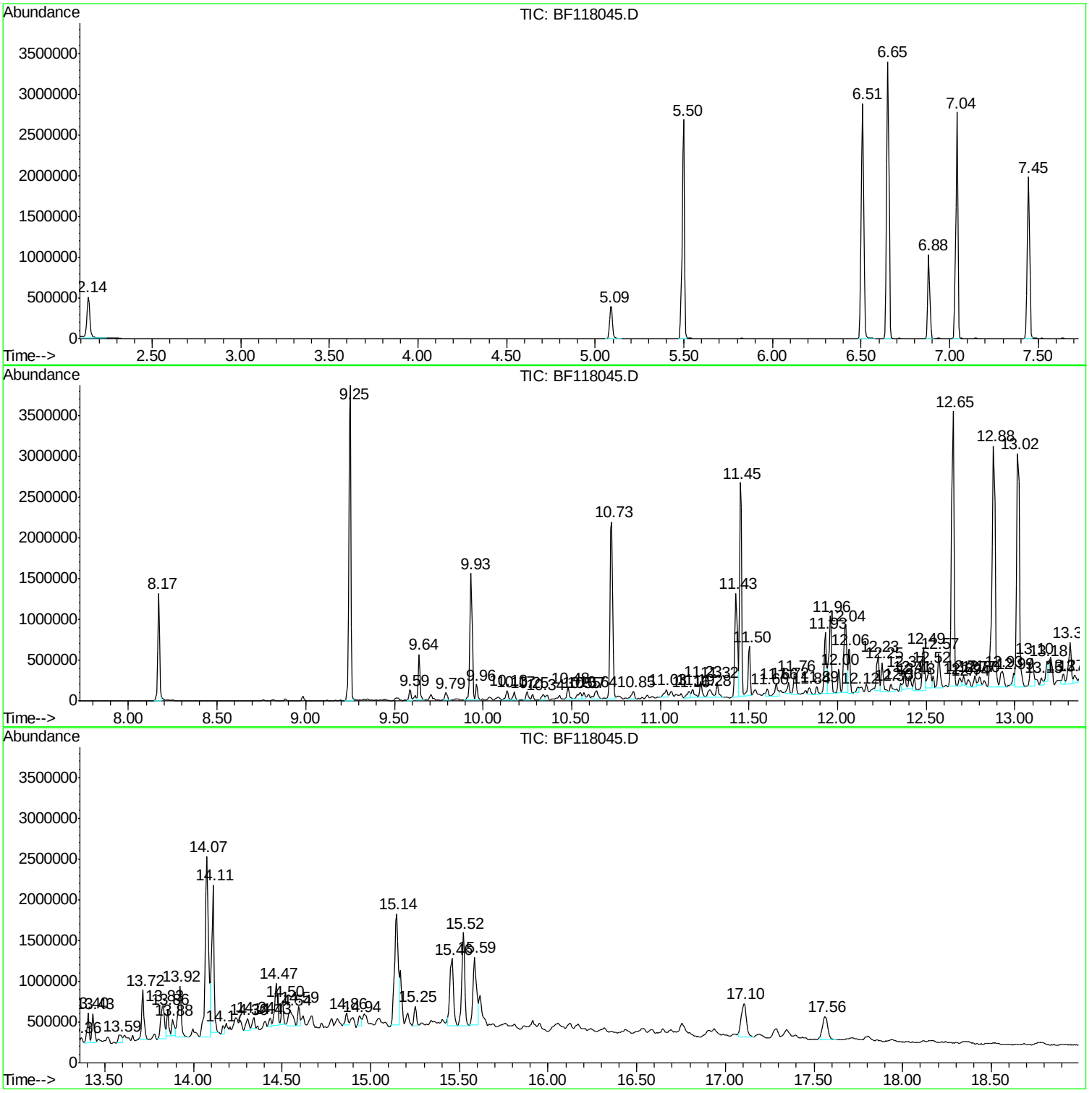
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112719\
Data File : BF118045.D
Acq On : 27 Nov 2019 17:15
Operator : JU
Sample : K5959-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WS-112019-0-2-COMP-B3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.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\BF112719\
Data File : BF118045.D
Acq On : 27 Nov 2019 17:15
Operator : JU
Sample : K5959-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-0-2-COMP-B3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

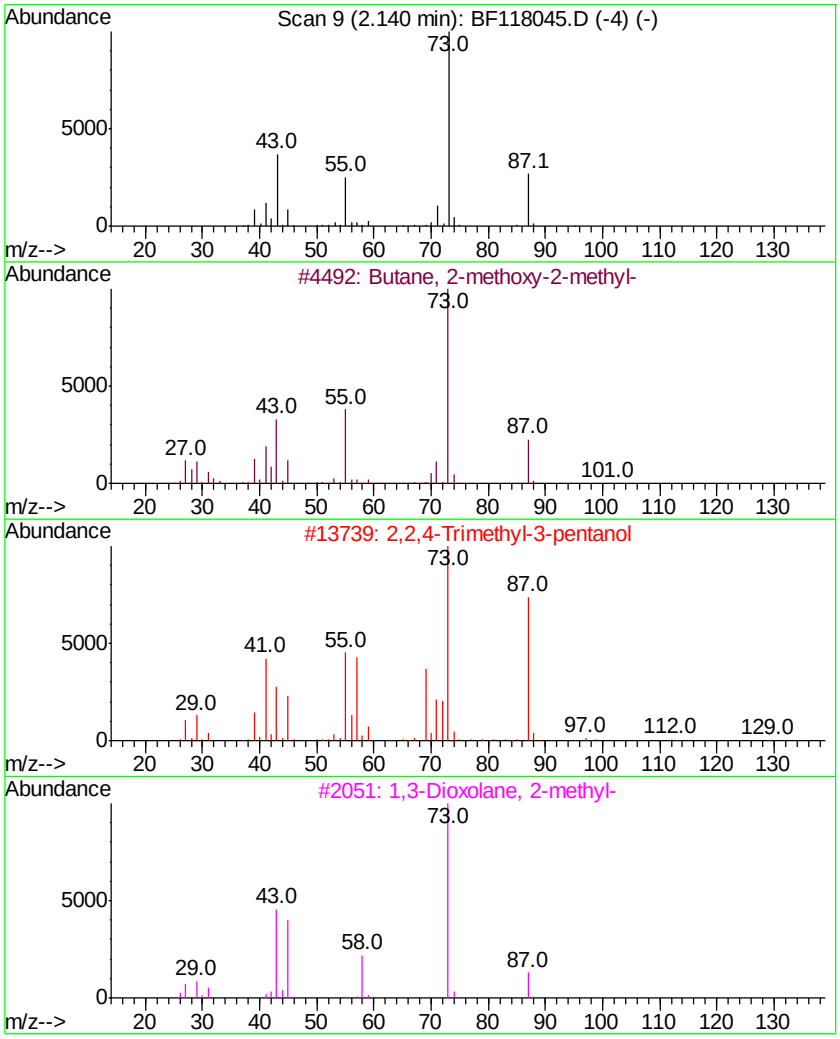
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

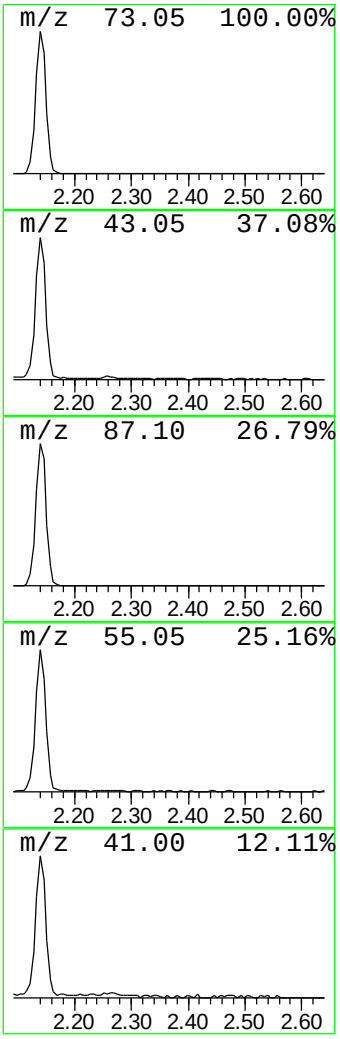
****

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.14	16.20 ng	670551	1,4-Dichlorobenzene-d4	6.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	78
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	39
3	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	25
4	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	23
5	Silane, tetramethyl-	88	C4H12Si	000075-76-3	17





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112719\
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Operator : JU
Sample : K5959-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-0-2-COMP-B3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

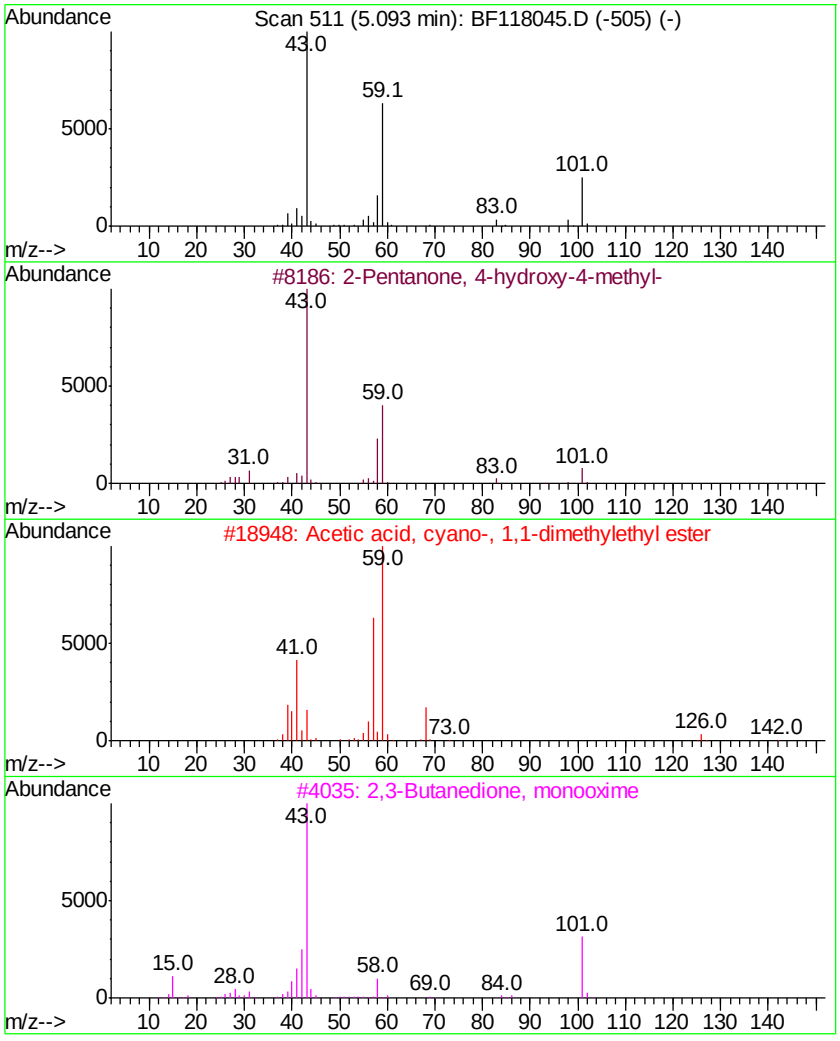
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

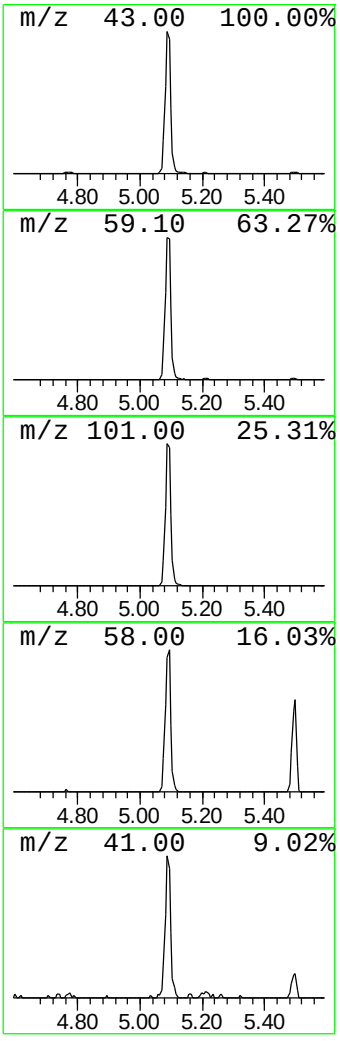
****

Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.09	11.96 ng	495025	1,4-Dichlorobenzene-d4	6.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	72
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	17
3	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	17
4	Butane, 1-ethoxy-	102	C6H14O	000628-81-9	9
5	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9





Library Search Compound Report

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Instrument : BNA_F
ClientSampleId : WS-112019-0-2-COMP-B3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

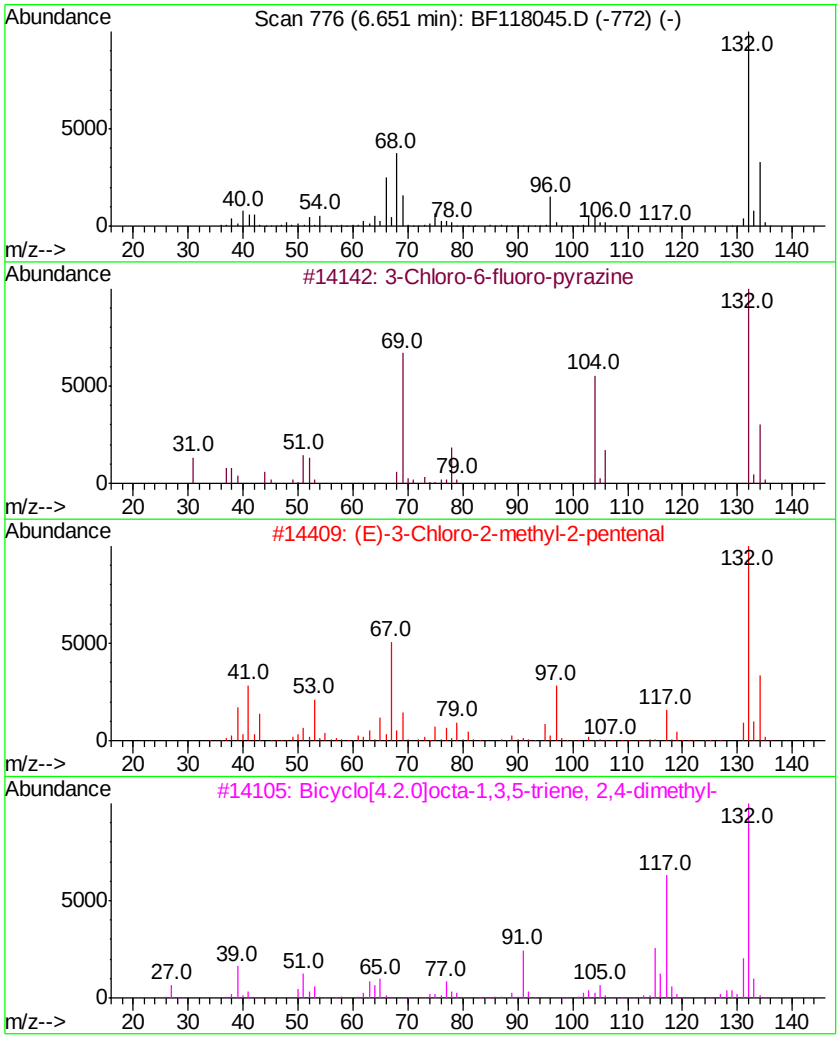
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

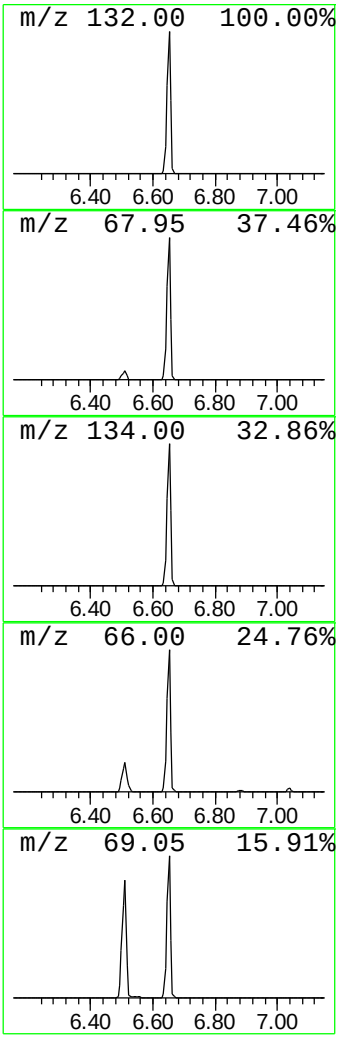
****

Peak Number 3 unknown6.65 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.65	68.79 ng	2847810	1,4-Dichlorobenzene-d4	6.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	35
2	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	25
3	Bicyclo[4.2.0]octa-1,3,5-triene,...	132	C10H12	028749-81-7	9
4	Cyclopropanamine, 1-phenyl-	133	C9H11N	1000351-26-2	9
5	4-Chloro-2-fluoro-pyrimidine	132	C4H2ClFN2	051422-00-5	9





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Data File : BF118045.D
Acq On : 27 Nov 2019 17:15
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Sample : K5959-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-0-2-COMP-B3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

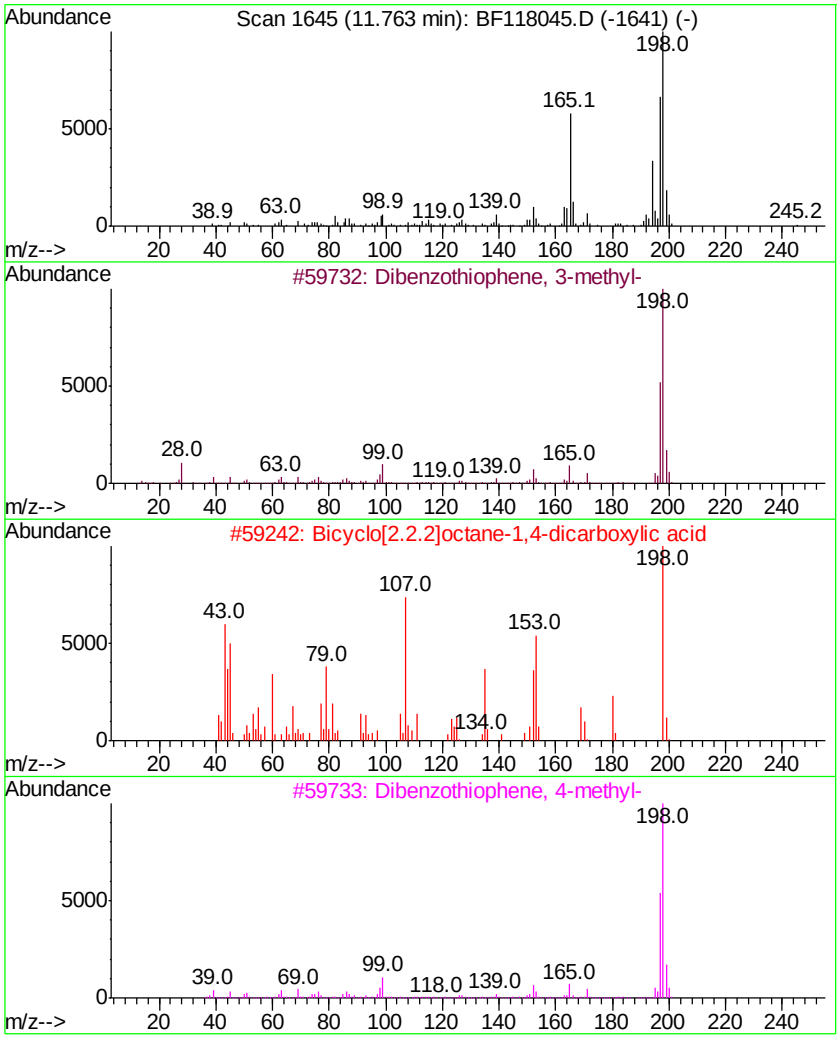
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

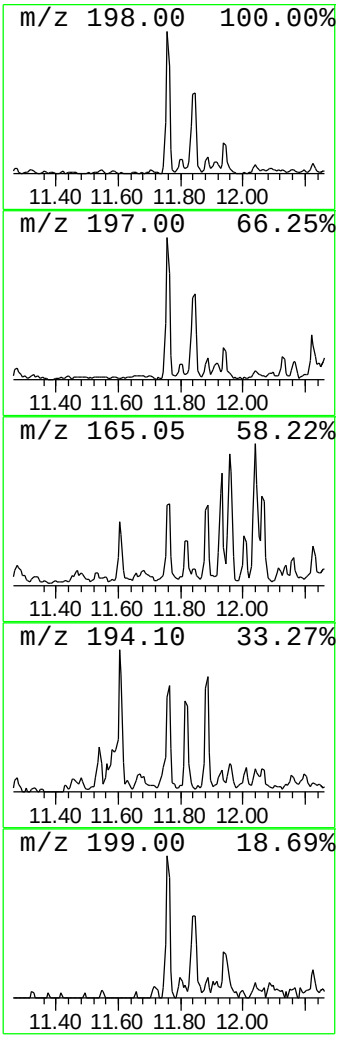
****

Peak Number 5 Dibenzothiophene, 3-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.76	3.67 ng	211725	Phenanthrene-d10	11.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	86
2	Bicyclo[2.2.2]octane-1,4-dicarbo...	198	C10H14O4	000711-02-4	83
3	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	70
4	Pyridine, 4-(4-dimethylaminophen...	198	C13H14N2	001137-80-0	60
5	Thioxanthene	198	C13H10S	000261-31-4	58





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112719\
Data File : BF118045.D
Acq On : 27 Nov 2019 17:15
Operator : JU
Sample : K5959-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-0-2-COMP-B3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

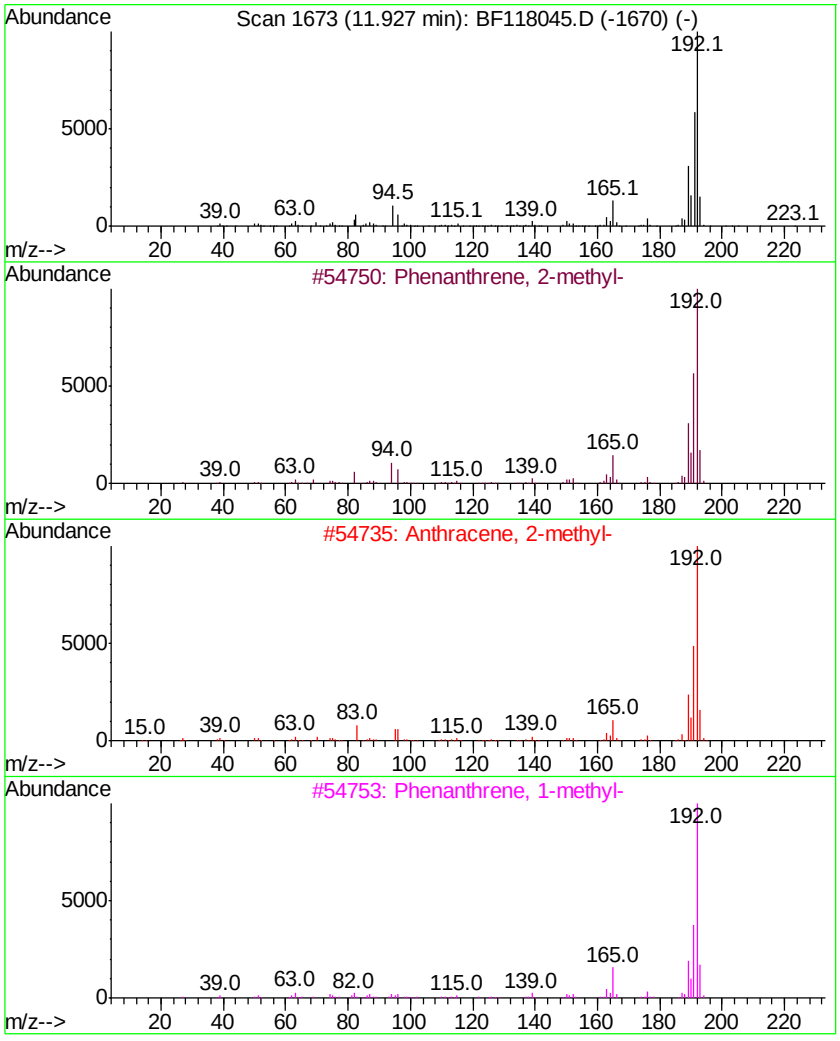
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

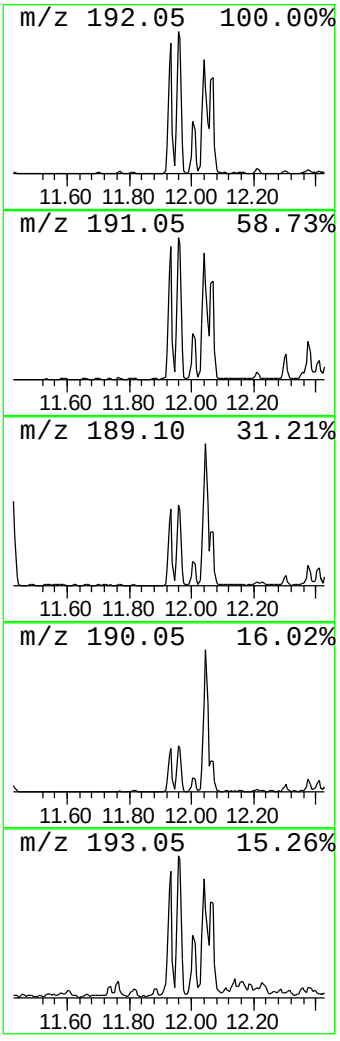
****

Peak Number 6 Phenanthrene, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.93	13.59 ng	783796	Phenanthrene-d10	11.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91





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Acq On : 27 Nov 2019 17:15
Operator : JU
Sample : K5959-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-0-2-COMP-B3

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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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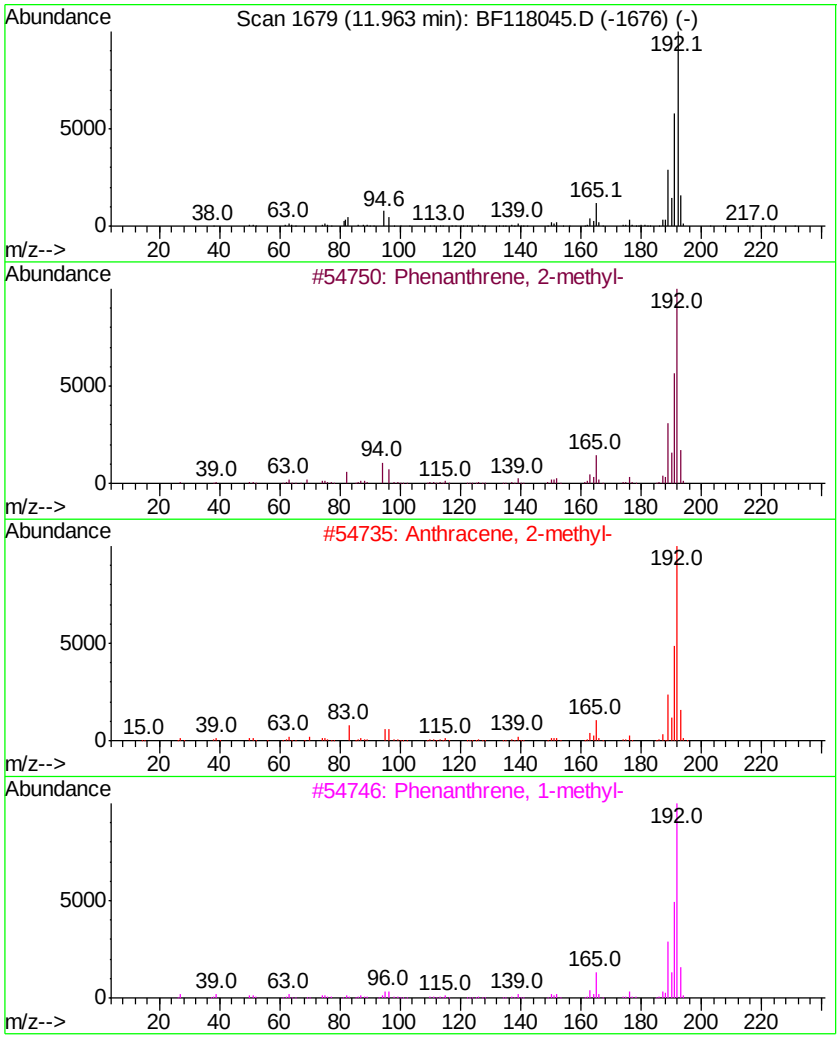
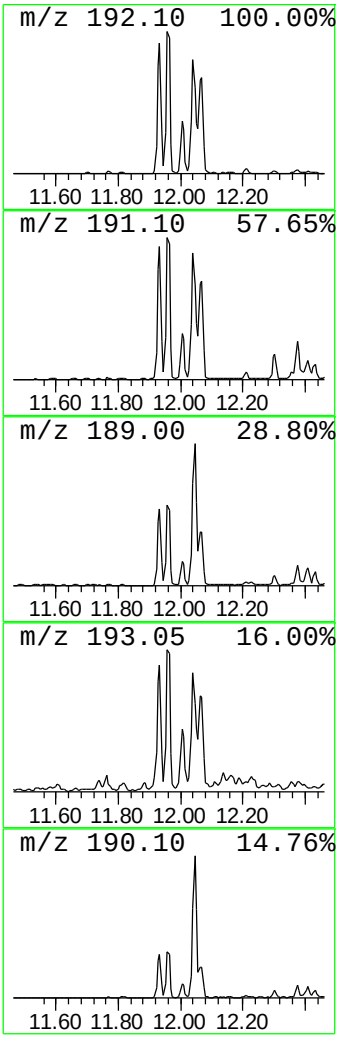
Peak Number 7 Anthracene, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.96	15.11 ng	871736	Phenanthrene-d10	11.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	95
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95





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Sample : K5959-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-0-2-COMP-B3

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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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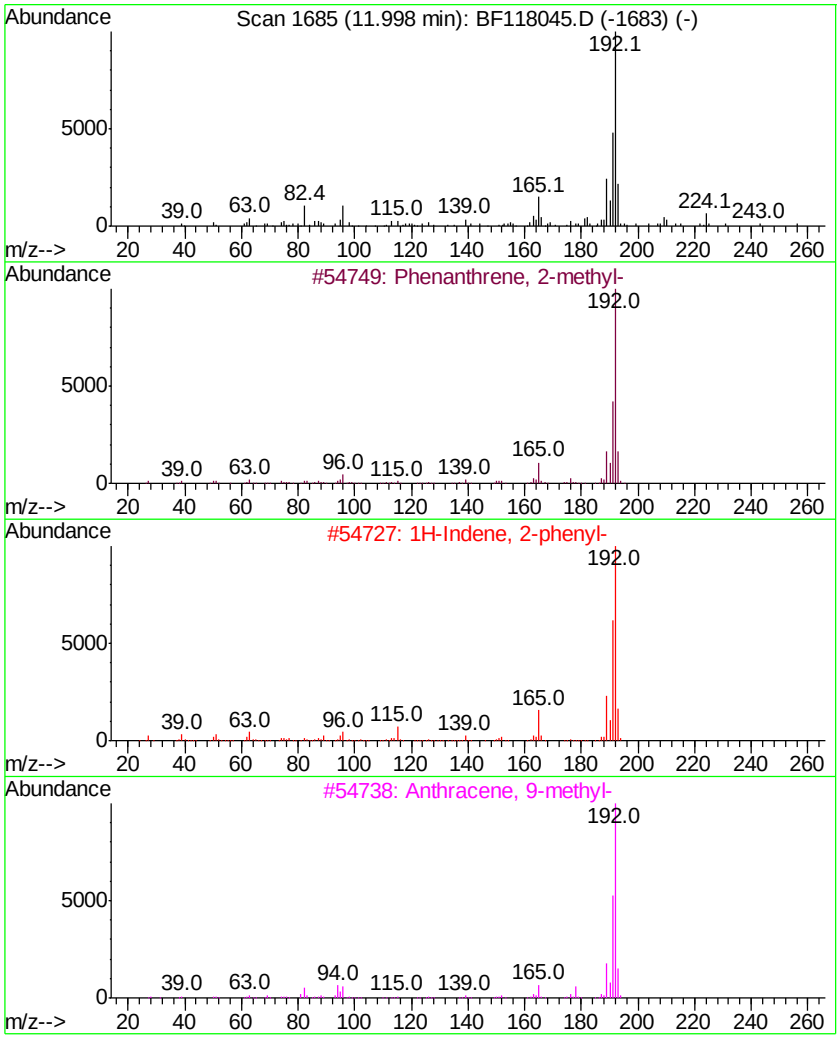
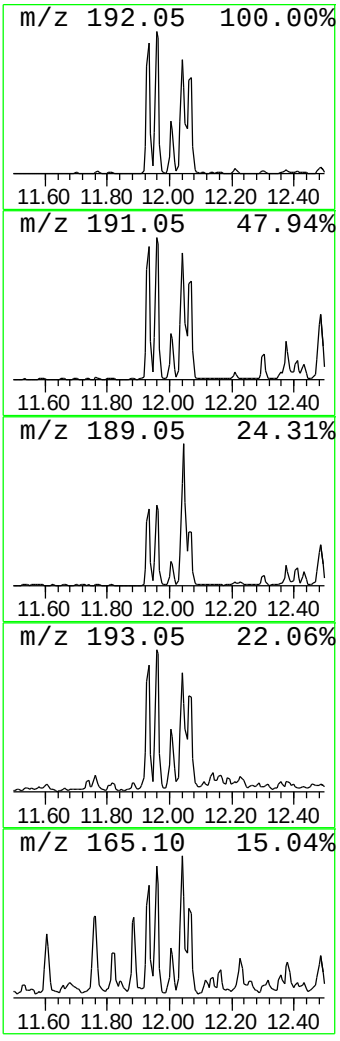
Peak Number 8 1H-Indene, 2-phenyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.00	4.30 ng	248026	Phenanthrene-d10	11.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	96
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	95
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94





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Sample : K5959-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-0-2-COMP-B3

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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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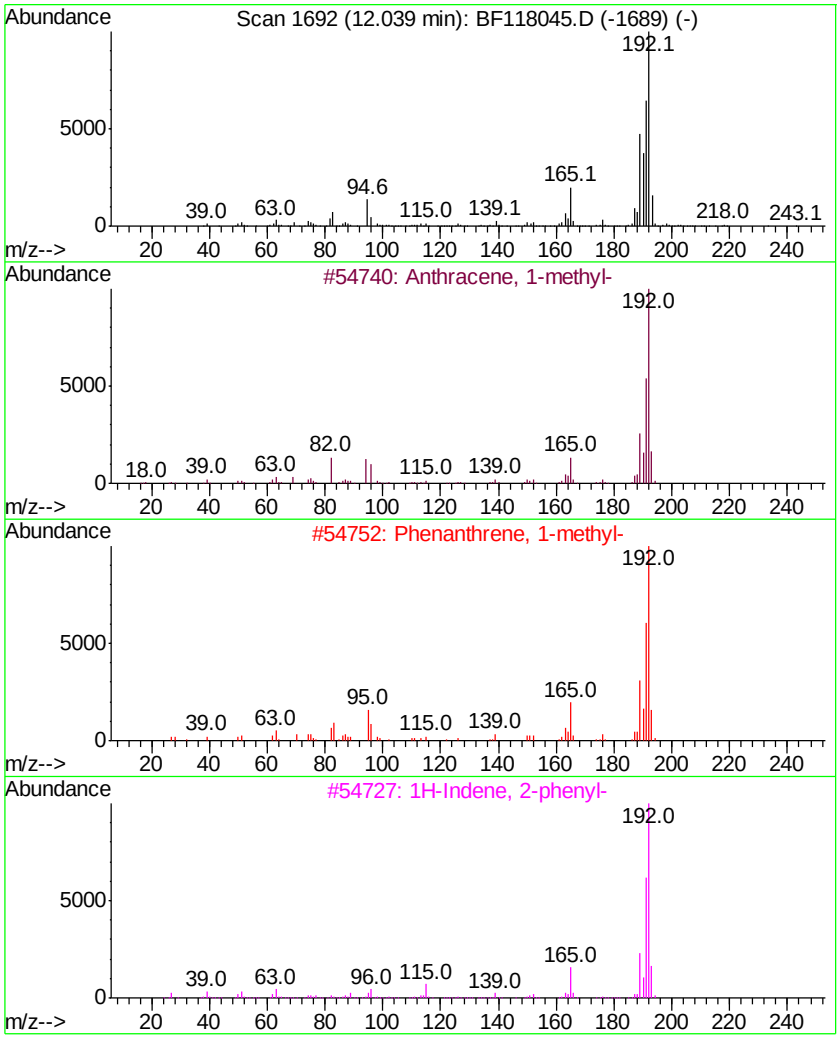
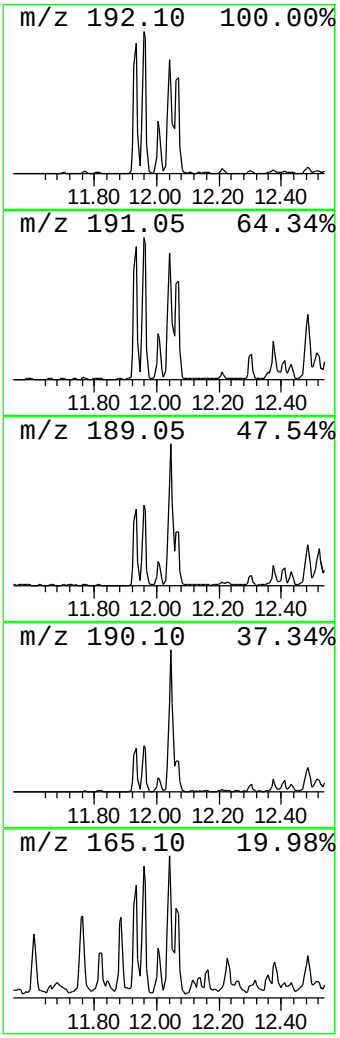
Peak Number 9 Anthracene, 1-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.04	16.86 ng	972651	Phenanthrene-d10	11.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	83
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	83
3	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	70
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	70
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	64





Library Search Compound Report

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Acq On : 27 Nov 2019 17:15
Operator : JU
Sample : K5959-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-0-2-COMP-B3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.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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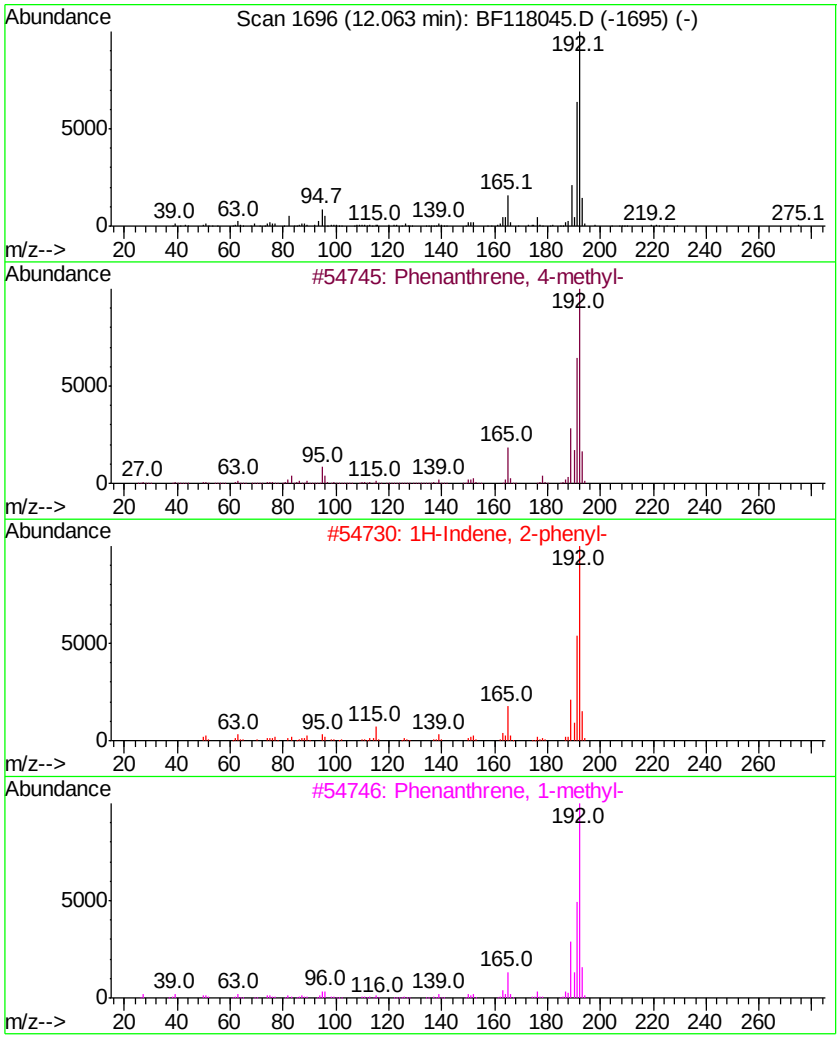
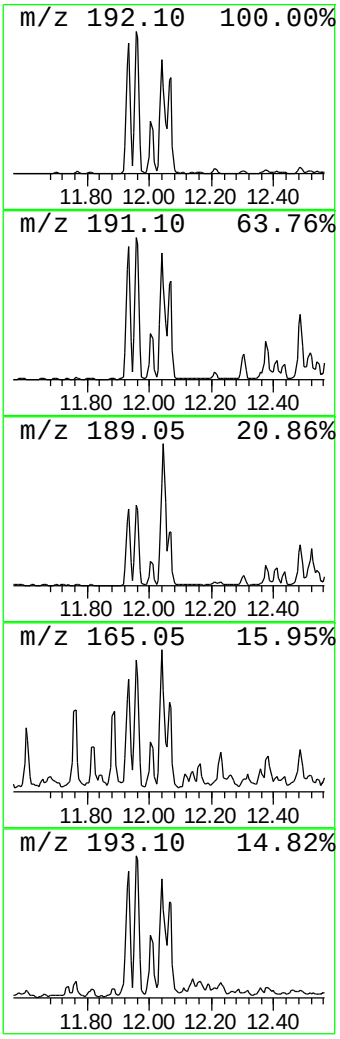
Peak Number 10 Phenanthrene, 4-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.06	7.54 ng	435124	Phenanthrene-d10	11.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	95
2	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	91
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	91
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	91
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	90





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Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-0-2-COMP-B3

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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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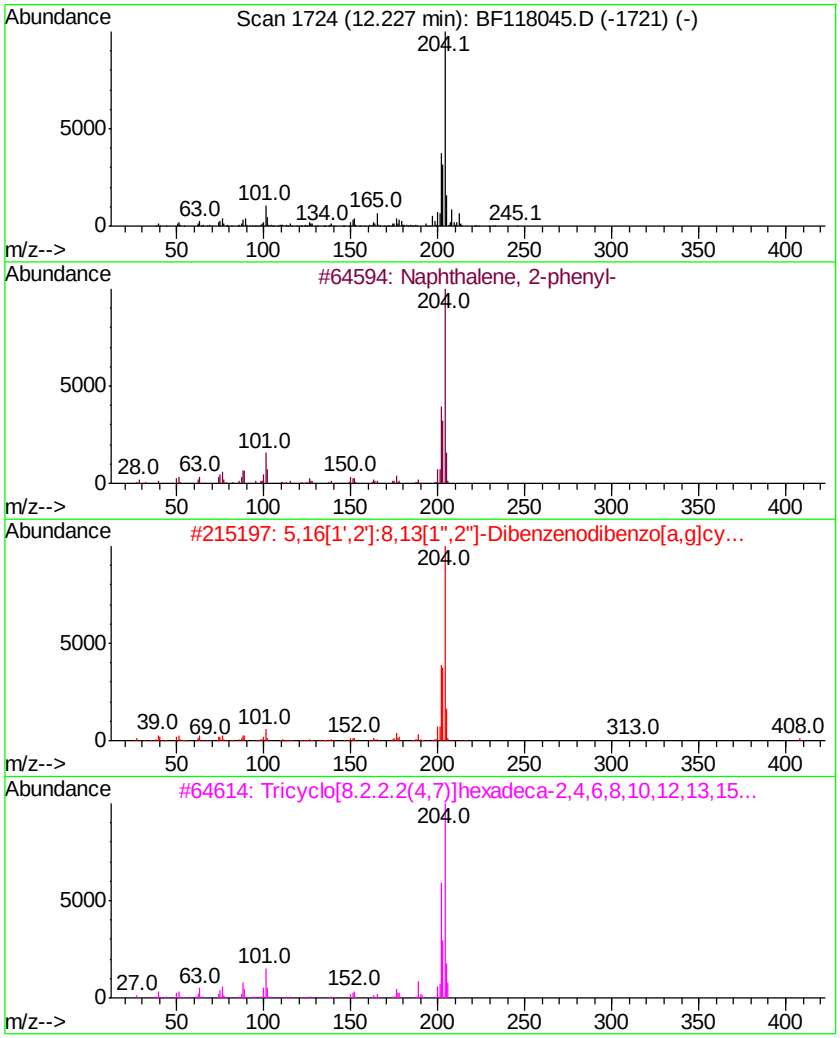
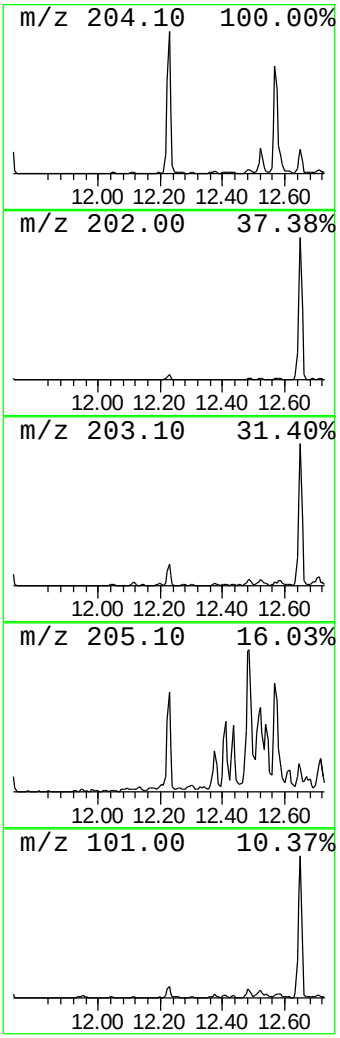
Peak Number 11 Naphthalene, 2-phenyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.23	6.54 ng	377052	Phenanthrene-d10	11.43

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	87
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	81
4	6-Cyanophenanthridine	204	C14H8N2	002176-28-5	55
5	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	50





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Operator : JU
Sample : K5959-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-0-2-COMP-B3

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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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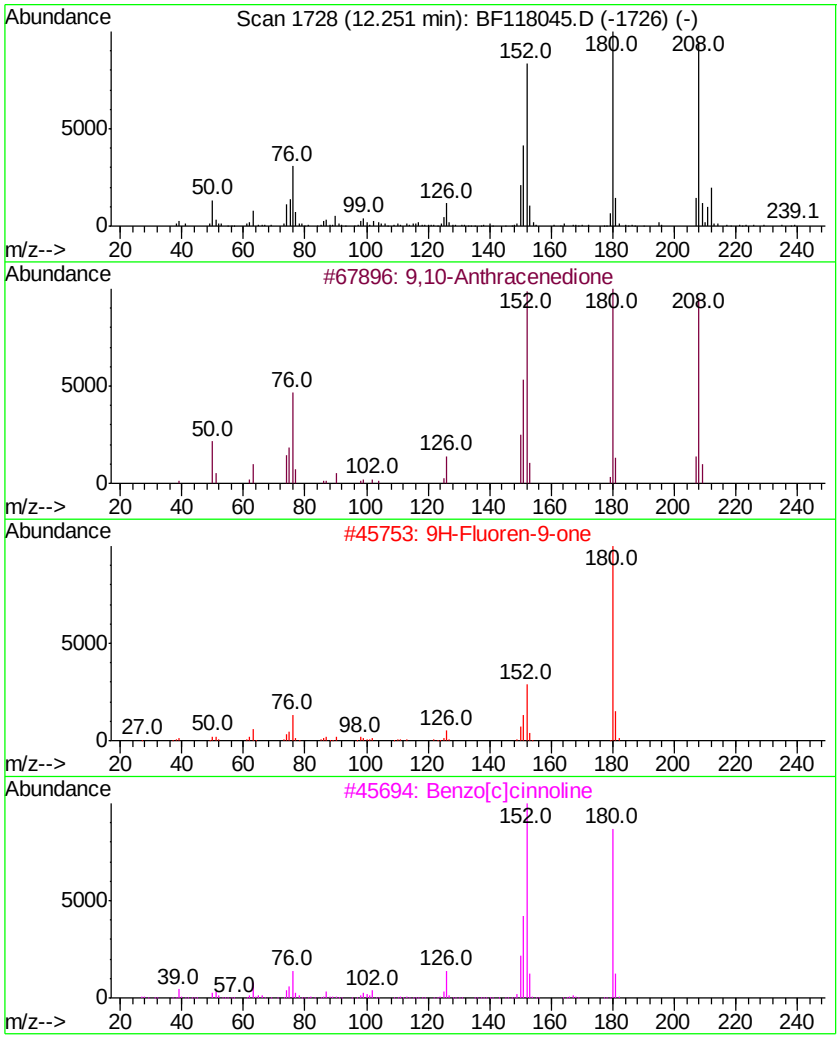
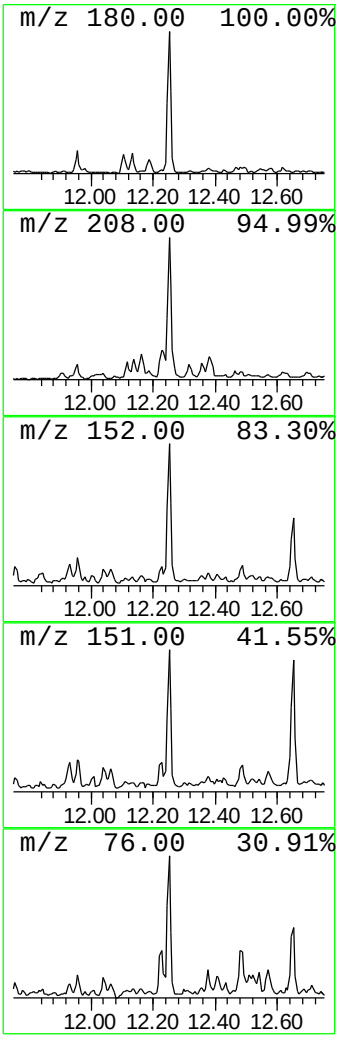
Peak Number 12 9,10-Anthracenedione Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.25	5.57 ng	321373	Phenanthrene-d10	11.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	98
2	9H-Fluoren-9-one	180	C13H8O	000486-25-9	91
3	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	78
4	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	55
5	1H-Phenalen-1-one	180	C13H8O	000548-39-0	55





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Acq On : 27 Nov 2019 17:15
Operator : JU
Sample : K5959-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-0-2-COMP-B3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.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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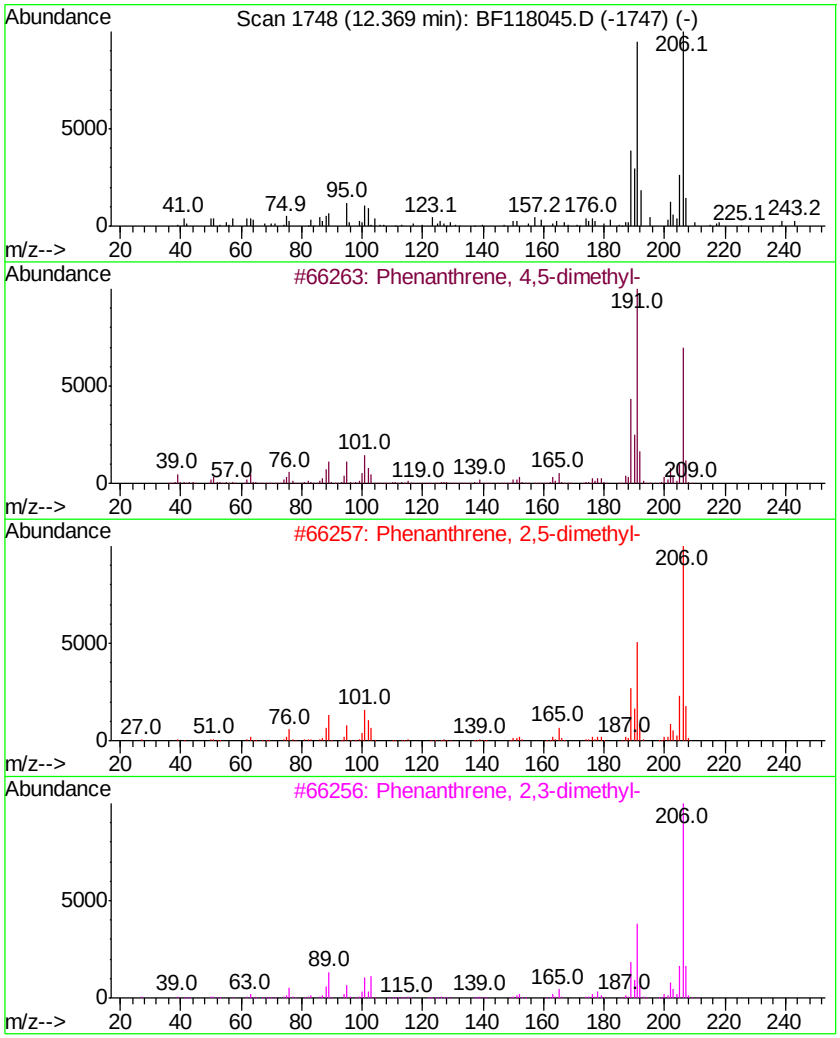
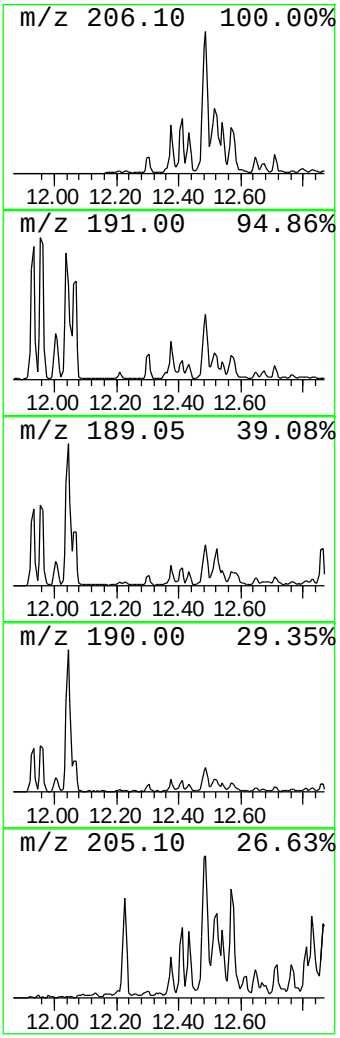
Peak Number 13 Phenanthrene, 4,5-dimethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.37	3.45 ng	198911	Phenanthrene-d10	11.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	94
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
4	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	89
5	3-Methyl-1-phenyl-1H-indene	206	C16H14	022360-63-0	76





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Operator : JU
Sample : K5959-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-0-2-COMP-B3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.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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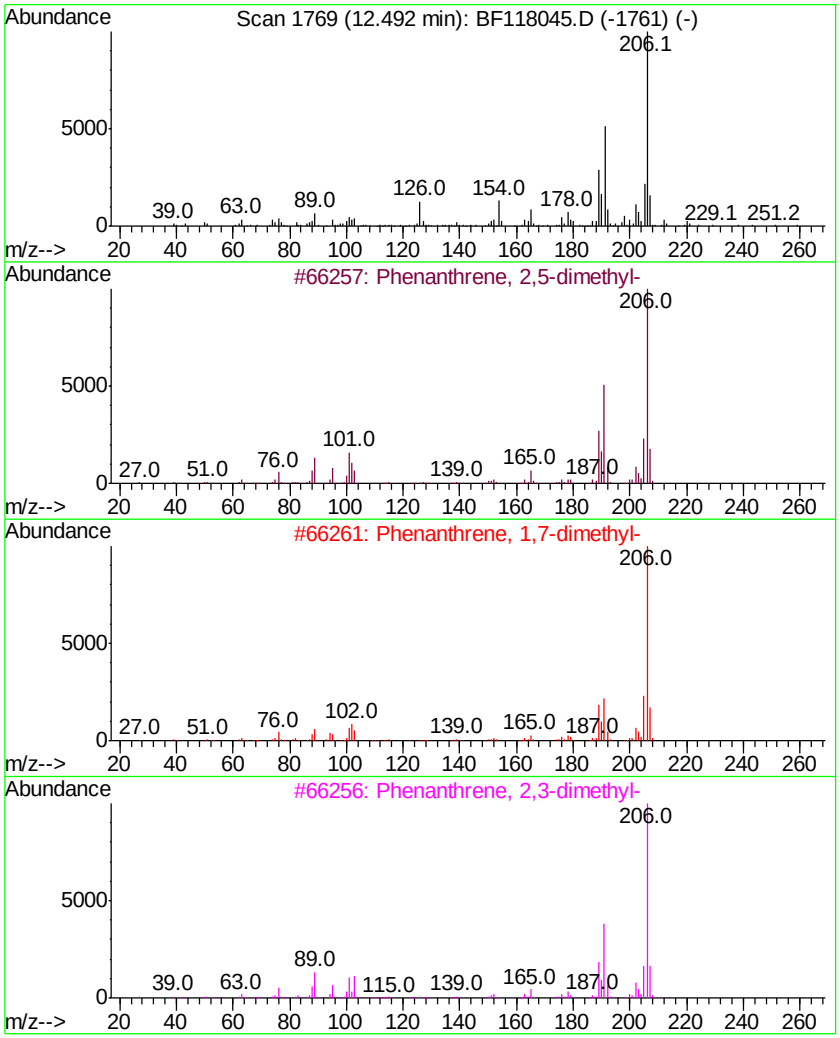
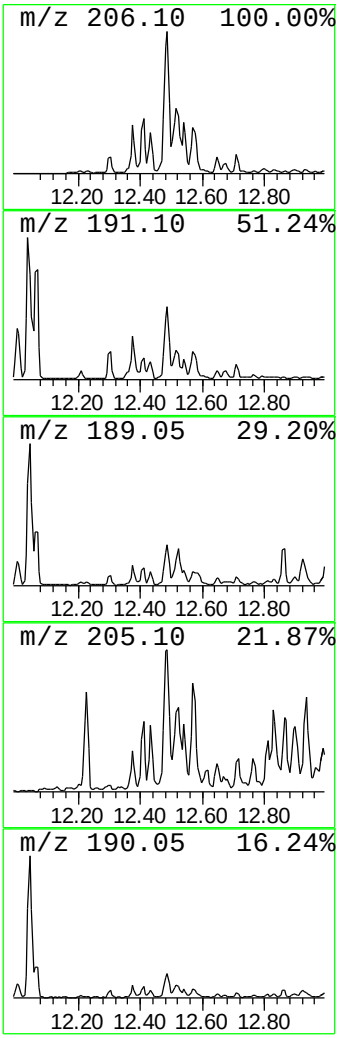
Peak Number 14 Phenanthrene, 2,5-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.49	10.29 ng	593547	Phenanthrene-d10	11.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	94
2	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91





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ClientSampleId : WS-112019-0-2-COMP-B3

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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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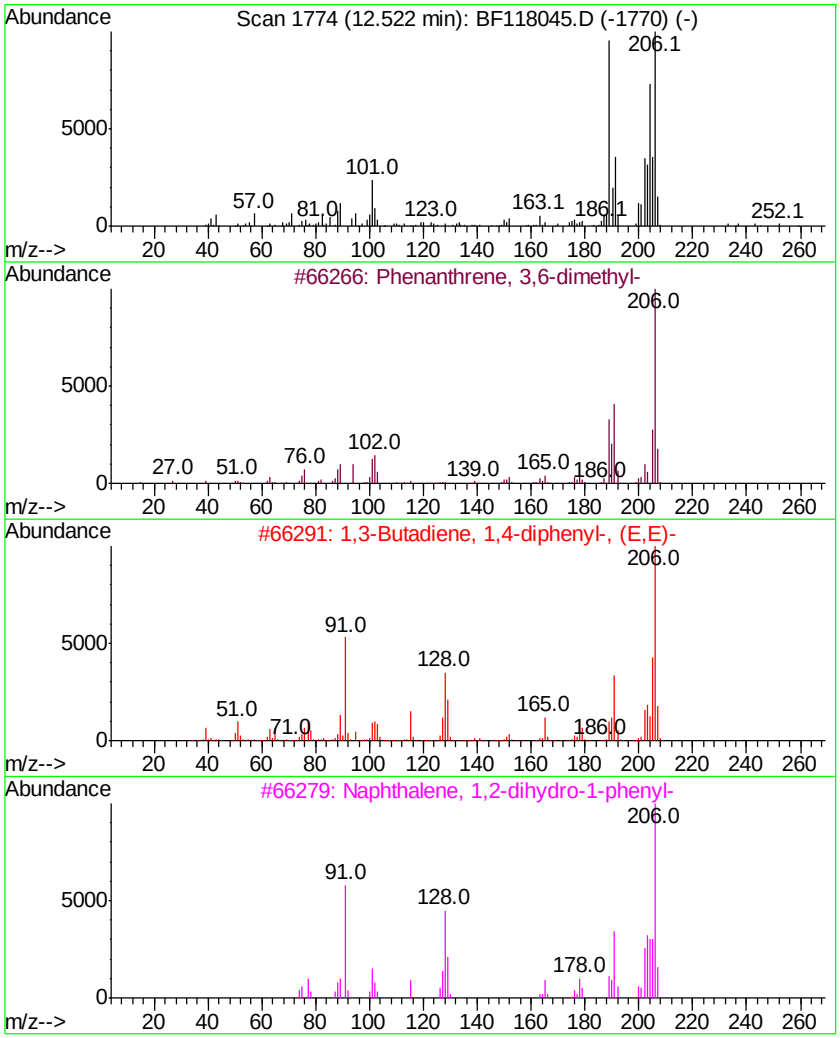
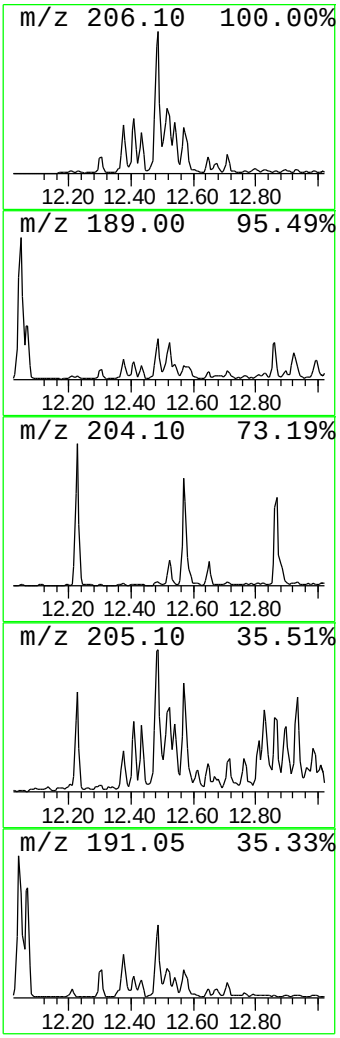
Peak Number 15 unknown12.52 Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.52	6.15 ng	354952	Phenanthrene-d10	11.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	43
2	1,3-Butadiene, 1,4-diphenyl-, (E...	206	C16H14	000538-81-8	38
3	Naphthalene, 1,2-dihydro-1-phenyl-	206	C16H14	016606-46-5	30
4	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	30
5	Benzene, 1,1'-(1,3-butadienylide...	206	C16H14	004165-81-5	30





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ClientSampleId : WS-112019-0-2-COMP-B3

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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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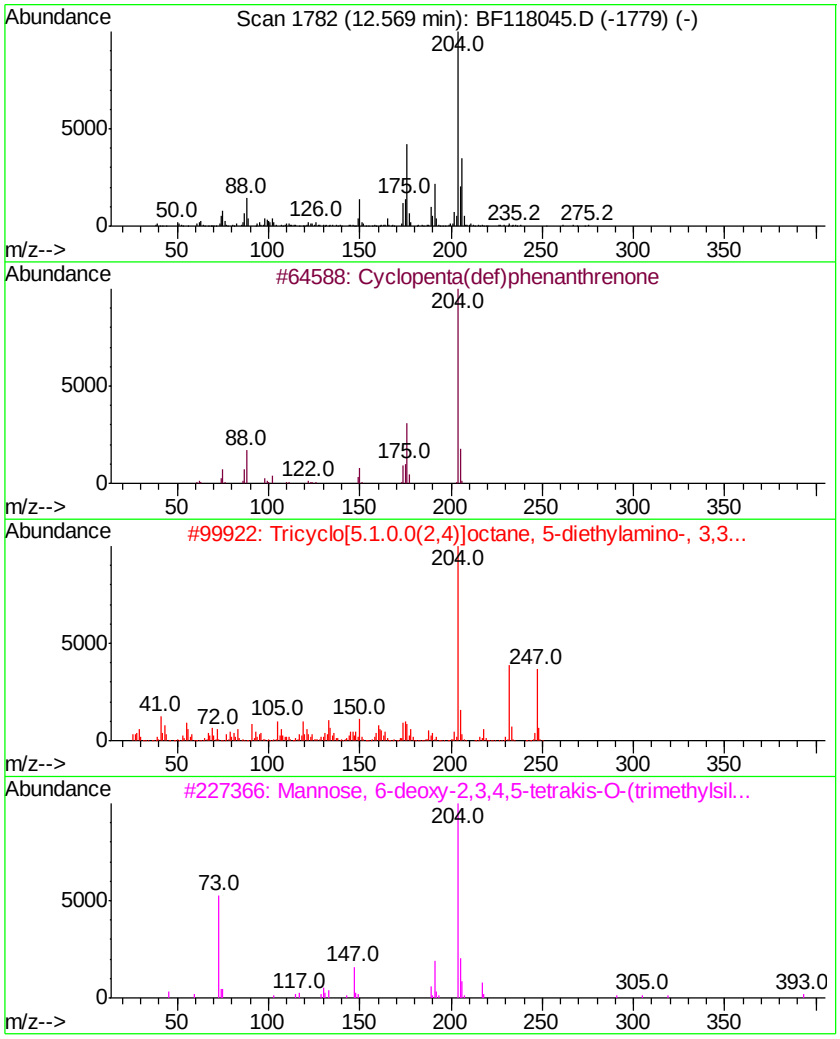
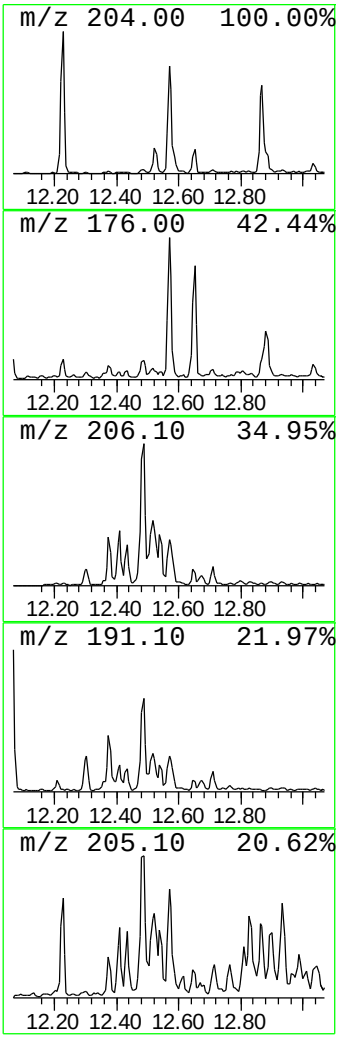
Peak Number 16 Cyclopenta(def)phenanthrenone Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.57	7.37 ng	425286	Phenanthrene-d10	11.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	94
2	Tricyclo[5.1.0.0(2,4)]octane, 5-...	247	C17H29N	1000063-59-3	47
3	Mannose, 6-deoxy-2,3,4,5-tetraki...	452	C18H44O5Si4	019127-15-2	47
4	L-(+)-Rhamnopyranose, tetrakis(t...	452	C18H44O5Si4	1000380-12-9	47
5	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	47





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ClientSampleId : WS-112019-0-2-COMP-B3

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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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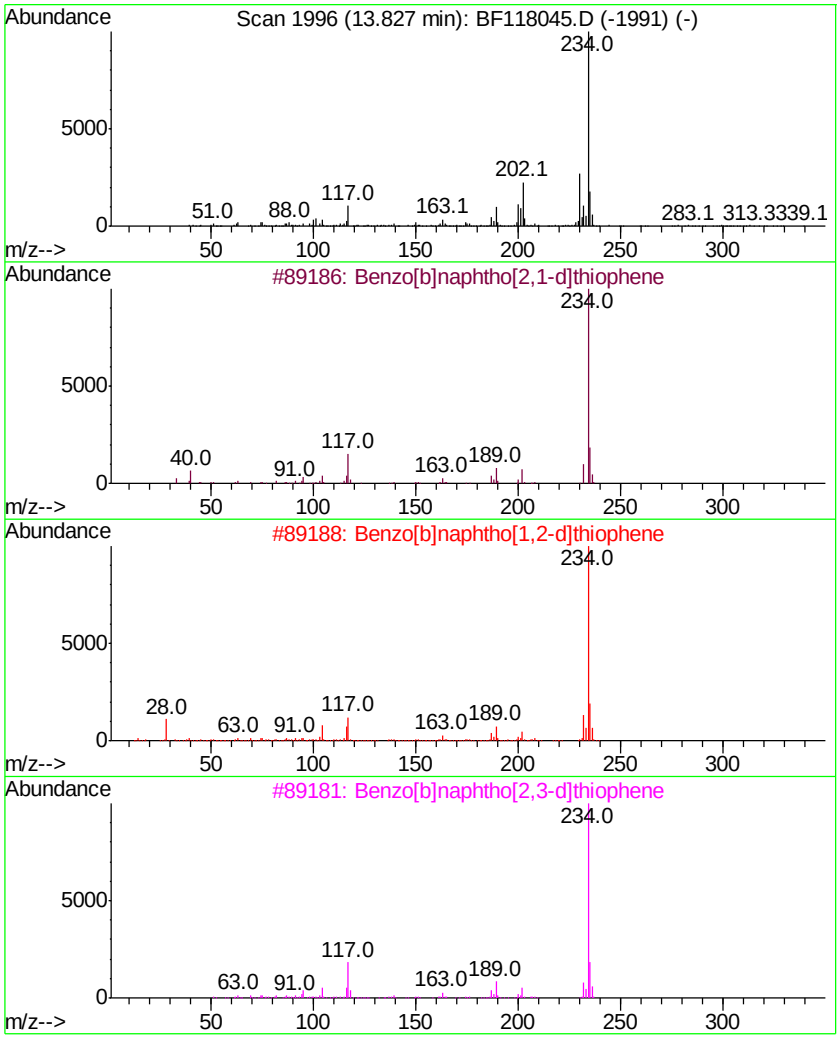
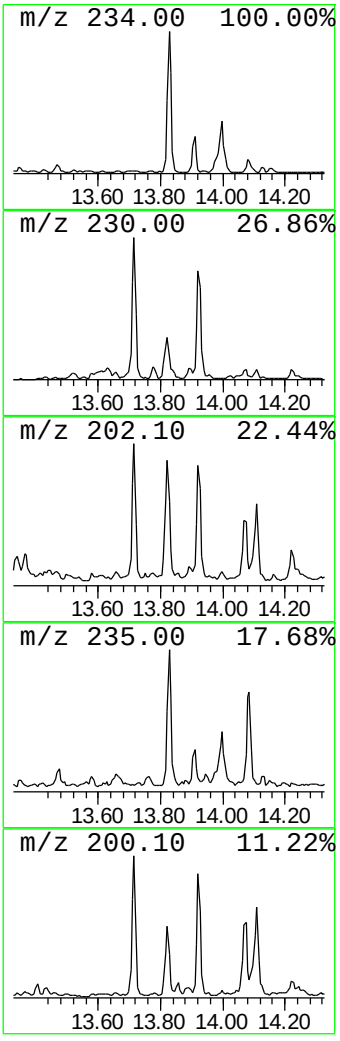
Peak Number 17 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.83	3.59 ng	597800	Chrysene-d12	14.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	83
2	Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	83
3	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	62
4	2-Amino-6-t-butyl-3-cyano-4,5,6,...	234	C13H18N2S	042159-76-2	46
5	Benzene, 1,1'-(2-cyclohexen-1-yl...	234	C18H18	031158-25-5	37





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112719\
Data File : BF118045.D
Acq On : 27 Nov 2019 17:15
Operator : JU
Sample : K5959-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-0-2-COMP-B3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.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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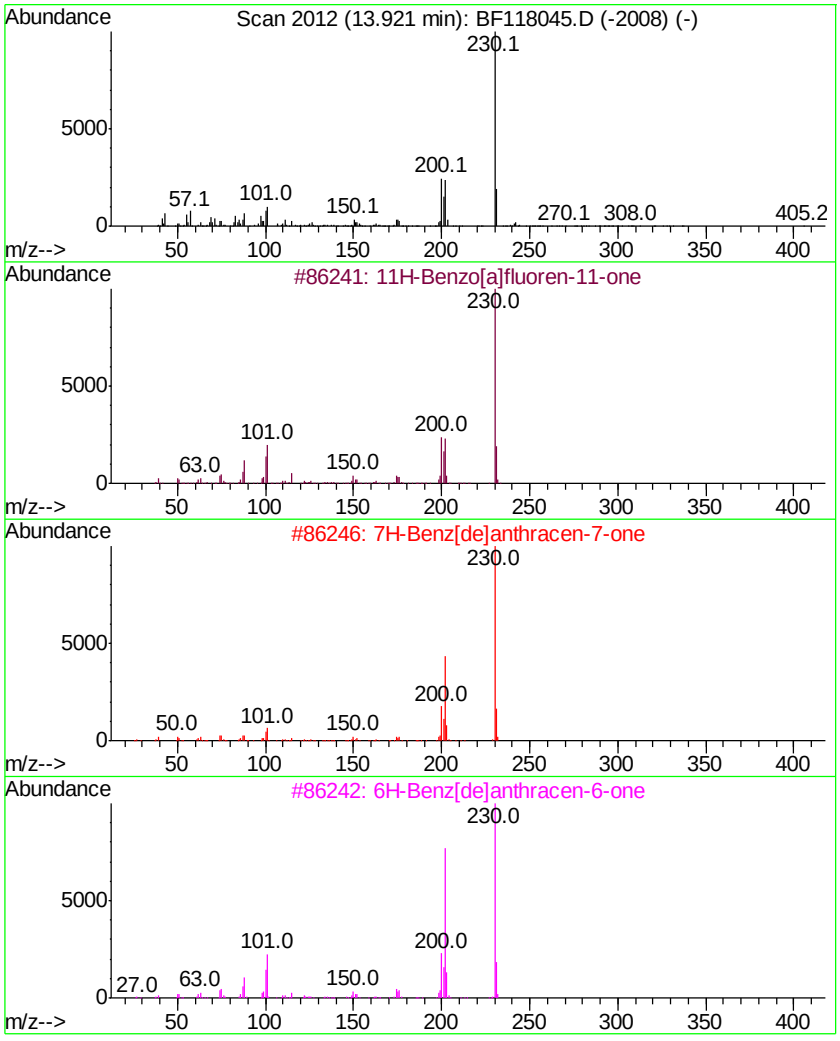
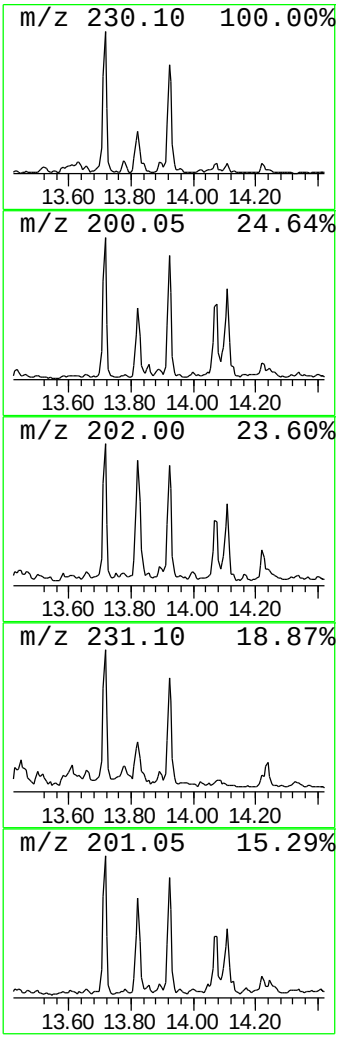
Peak Number 18 11H-Benzo[a]fluoren-11-one Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.92	4.47 ng	744104	Chrysene-d12	14.08

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	91
3	6H-Benz[de]anthracen-6-one	230	C17H10O	080252-14-8	72
4	Dibenzo[c,h][2,6]naphthyridine	230	C16H10N2	000218-30-4	53
5	o-Terphenyl	230	C18H14	000084-15-1	50





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112719\
Data File : BF118045.D
Acq On : 27 Nov 2019 17:15
Operator : JU
Sample : K5959-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-0-2-COMP-B3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.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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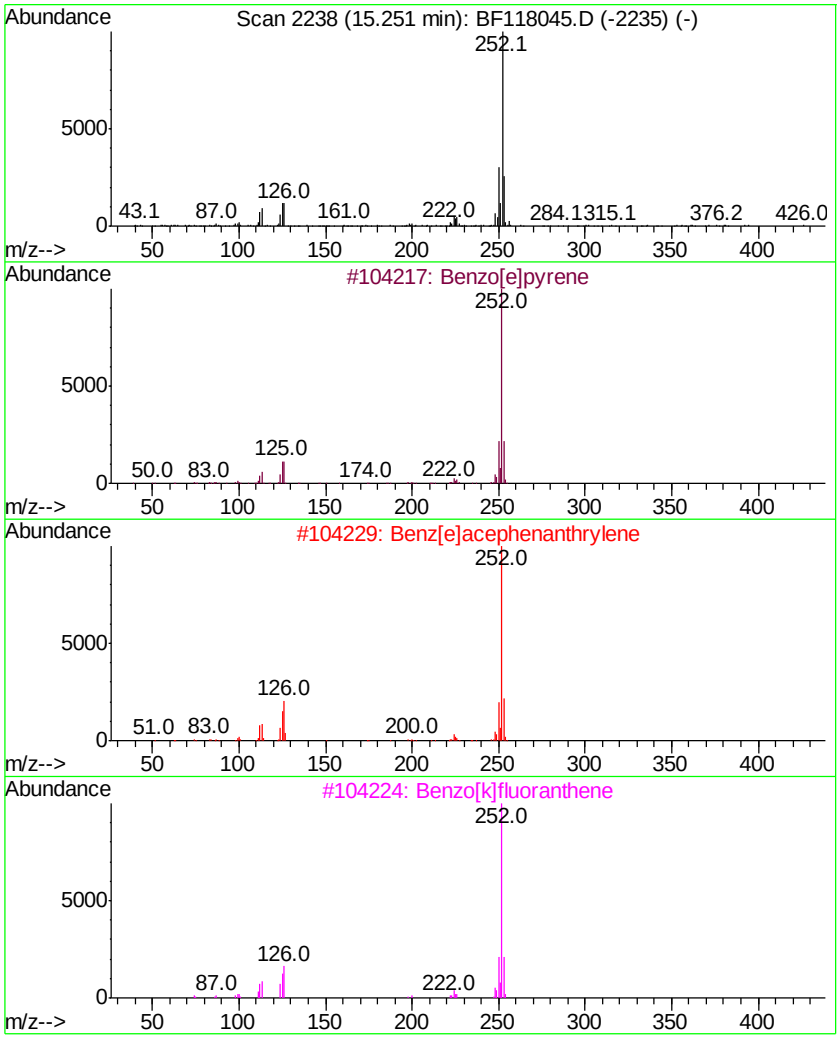
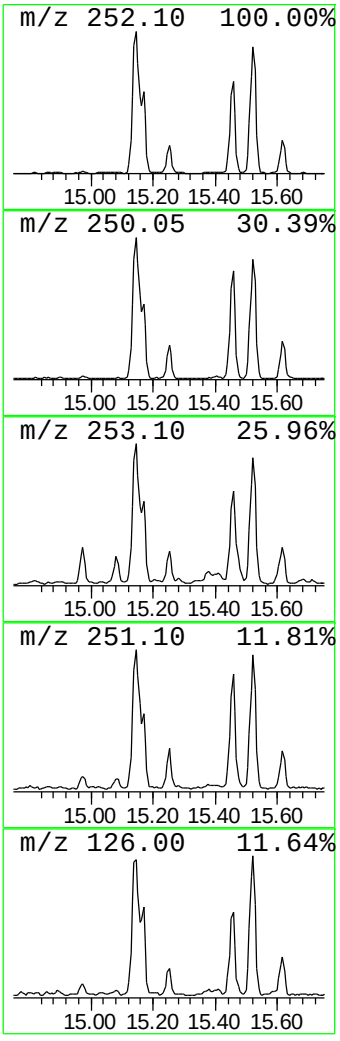
Peak Number 19 Benzo[e]pyrene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.25	4.47 ng	254505	Perylene-d12	15.59

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	96
2	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	94
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	90
4	Benzo[a]pyrene	252	C20H12	000050-32-8	90
5	Perylene	252	C20H12	000198-55-0	81





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112719\
Data File : BF118045.D
Acq On : 27 Nov 2019 17:15
Operator : JU
Sample : K5959-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-0-2-COMP-B3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.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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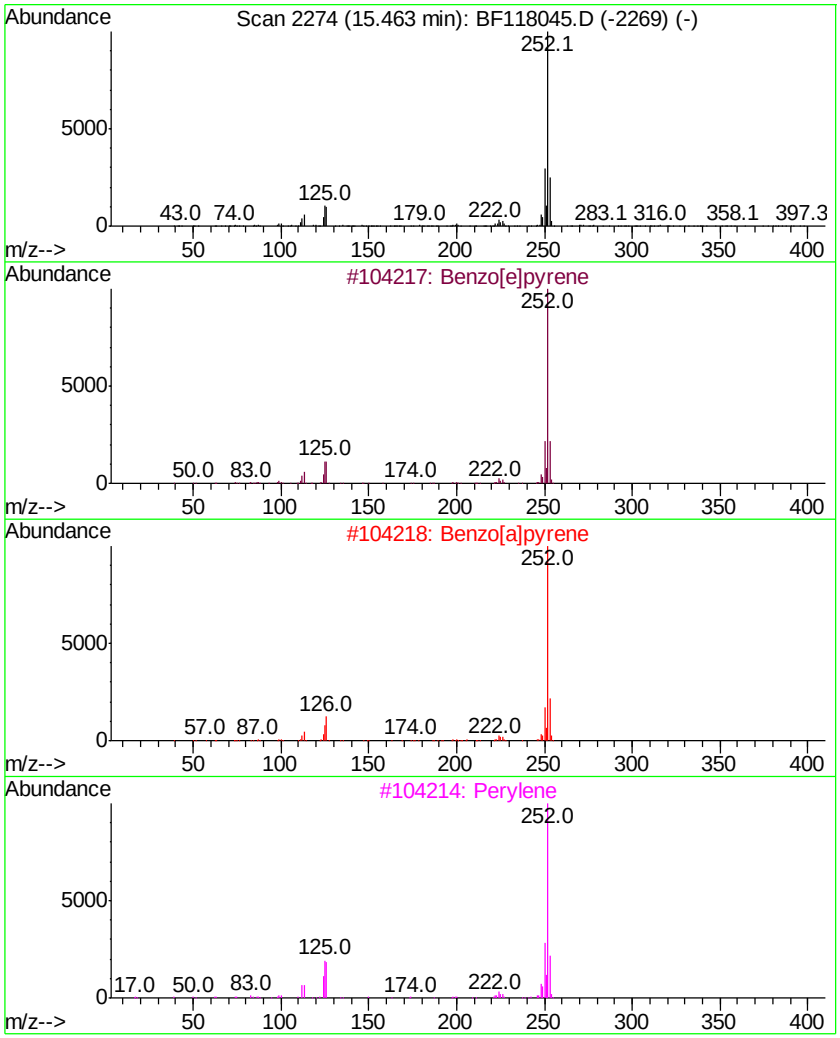
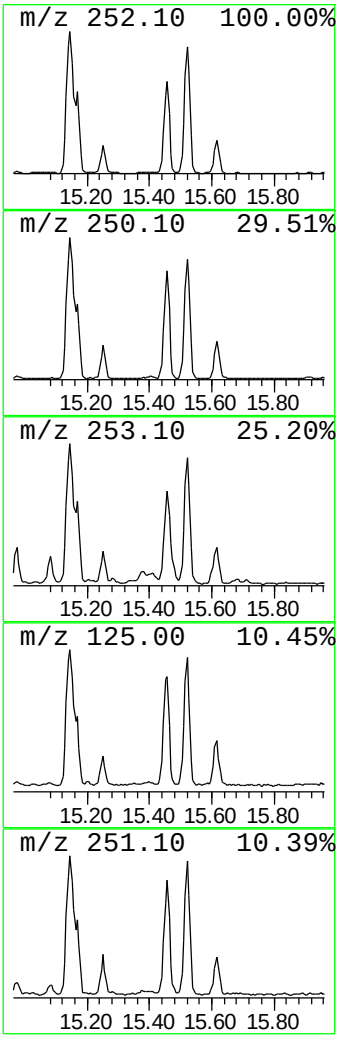
Peak Number 20 Perylene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.46	19.07 ng	1084910	Perylene-d12	15.59

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	97
3	Perylene	252	C20H12	000198-55-0	95
4	Benzo[j]fluoranthene	252	C20H12	000205-82-3	95
5	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	94





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF112719\
Data File : BF118045.D
Acq On : 27 Nov 2019 17:15
Operator : JU
Sample : K5959-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-0-2-COMP-B3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.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...	2.14	16.2	ng	670551	1	6.88	827916	20.0
2-Pentanone, 4-hy...	5.09	12.0	ng	495025	1	6.88	827916	20.0
unknown6.65	6.65	68.8	ng	2847810	1	6.88	827916	20.0
Dibenzothiophene,...	11.76	3.7	ng	211725	4	11.43	1153680	20.0
Phenanthrene, 2-m...	11.93	13.6	ng	783796	4	11.43	1153680	20.0
Anthracene, 2-met...	11.96	15.1	ng	871736	4	11.43	1153680	20.0
1H-Indene, 2-phenyl-	12.00	4.3	ng	248026	4	11.43	1153680	20.0
Anthracene, 1-met...	12.04	16.9	ng	972651	4	11.43	1153680	20.0
Phenanthrene, 4-m...	12.06	7.5	ng	435124	4	11.43	1153680	20.0
Naphthalene, 2-ph...	12.23	6.5	ng	377052	4	11.43	1153680	20.0
9,10-Anthracenedione	12.25	5.6	ng	321373	4	11.43	1153680	20.0
Phenanthrene, 4,5...	12.37	3.5	ng	198911	4	11.43	1153680	20.0
Phenanthrene, 2,5...	12.49	10.3	ng	593547	4	11.43	1153680	20.0
unknown12.52	12.52	6.2	ng	354952	4	11.43	1153680	20.0
Cyclopenta(def)ph...	12.57	7.4	ng	425286	4	11.43	1153680	20.0
Benzo[b]naphtho[2...	13.83	3.6	ng	597800	5	14.08	3331840	20.0
11H-Benzo[a]fluor...	13.92	4.5	ng	744104	5	14.08	3331840	20.0
Benzo[e]pyrene	15.25	4.5	ng	254505	6	15.59	1137630	20.0
Perylene	15.46	19.1	ng	1084910	6	15.59	1137630	20.0