LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000224.D
Acq On : 12 Sep 2019 19:20
Operator : HP/JU
Sample : K4633-09
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D07

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % 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_P\METHODS\SOM-EPA-BP090519MA.M
Title : SVOA CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.169	7	14	19	rBV	7981536	11979423	20.89%	3.439%
2	2.616	86	90	98	rBV	56238	81640	0.14%	0.023%
3	3.975	316	321	324	rVV	73194	101001	0.18%	0.029%
4	5.093	507	511	518	rBV	67593	68734	0.12%	0.020%
5	6.516	749	753	759	rBV2	2049773	1934655	3.37%	0.555%
6	6.575	759	763	767	rVV	1623472	1338231	2.33%	0.384%
7	6.663	774	778	782	rBV	2308358	1859647	3.24%	0.534%
8	6.899	814	818	821	rBV	2412198	1912983	3.34%	0.549%
9	7.263	876	880	883	rBV	2498190	1896152	3.31%	0.544%
10	7.452	908	912	915	rBV	2131230	1592494	2.78%	0.457%
11	7.781	964	968	971	rBV	1614389	1330541	2.32%	0.382%
12	8.022	1005	1009	1012	rBV	2522902	2261204	3.94%	0.649%
13	8.181	1032	1036	1038	rBV	3284741	2565699	4.47%	0.736%
14	8.204	1038	1040	1042	rVV	860225	667946	1.16%	0.192%
15	8.234	1042	1045	1059	rVB	2022681	1653824	2.88%	0.475%
16	8.899	1155	1158	1161	rVV	334015	265548	0.46%	0.076%
17	8.946	1162	1166	1171	rVV2	51814	62539	0.11%	0.018%
18	8.998	1171	1175	1179	rVB	218252	179073	0.31%	0.051%
19	9.363	1232	1237	1243	rBV2	129481	155490	0.27%	0.045%
20	9.457	1250	1253	1258	rBV	117900	123434	0.22%	0.035%
21	9.534	1262	1266	1269	rBV	93286	121985	0.21%	0.035%
22	9.604	1274	1278	1280	rBV	144597	157028	0.27%	0.045%
23	9.634	1280	1283	1286	rVV	3259008	3093977	5.40%	0.888%
24	9.657	1286	1287	1292	rVB	1583985	993836	1.73%	0.285%
25	9.722	1296	1298	1302	rBV	61562	69193	0.12%	0.020%
26	9.793	1307	1310	1317	rBV	4160985	3967858	6.92%	1.139%
27	9.951	1331	1337	1340	rBV	3495777	3044303	5.31%	0.874%
28	9.987	1340	1343	1346	rVV	4032792	3638895	6.35%	1.045%
29	10.046	1349	1353	1361	rVV	731695	1271359	2.22%	0.365%
30	10.110	1362	1364	1368	rVV	201717	218022	0.38%	0.063%
31	10.157	1368	1372	1376	rVB	921472	867080	1.51%	0.249%
32	10.475	1422	1426	1429	rBV	4703513	4124044	7.19%	1.184%
33	10.504	1429	1431	1436	rVB	1708596	1370479	2.39%	0.393%
34	10.551	1436	1439	1441	rBV2	582159	630350	1.10%	0.181%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000224.D
Acq On : 12 Sep 2019 19:20
Operator : HP/JU
Sample : K4633-09
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D07

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % 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_P\METHODS\SOM-EPA-BP090519MA.M
Title : SVOA CALIBRATION

35	10.593	1444	1446	1449	rVV2	353689	353226	0.62%	0.101%
36	10.640	1452	1454	1456	rVV	255870	206349	0.36%	0.059%
37	10.663	1456	1458	1462	rVB	312921	249762	0.44%	0.072%
38	10.745	1469	1472	1476	rBV	299793	352000	0.61%	0.101%
39	10.875	1490	1494	1498	rBV2	529211	556501	0.97%	0.160%
40	11.045	1518	1523	1524	rBV3	182664	297672	0.52%	0.085%
41	11.063	1524	1526	1528	rVV2	220722	204519	0.36%	0.059%
42	11.087	1528	1530	1533	rVB2	108857	112576	0.20%	0.032%
43	11.193	1543	1548	1550	rBV2	149623	242908	0.42%	0.070%
44	11.216	1550	1552	1556	rVV2	255267	265055	0.46%	0.076%
45	11.257	1556	1559	1564	rVB	946733	1049605	1.83%	0.301%
46	11.316	1564	1569	1572	rBV2	481674	582179	1.02%	0.167%
47	11.351	1572	1575	1581	rVB	1094909	1078129	1.88%	0.309%
48	11.410	1581	1585	1588	rVB2	87191	110406	0.19%	0.032%
49	11.463	1589	1594	1595	rBV	2447416	2699670	4.71%	0.775%
50	11.492	1595	1599	1602	rVV	12153980	15995079	27.90%	4.591%
51	11.522	1602	1604	1605	rVV	4544494	3821701	6.66%	1.097%
52	11.540	1605	1607	1610	rVV	4984376	4712073	8.22%	1.353%
53	11.569	1610	1612	1618	rVB	1139298	1193950	2.08%	0.343%
54	11.645	1622	1625	1627	rVB2	87231	83387	0.15%	0.024%
55	11.692	1627	1633	1641	rBV2	3027138	4243887	7.40%	1.218%
56	11.757	1641	1644	1648	rBV3	322834	316505	0.55%	0.091%
57	11.798	1648	1651	1656	rBV5	285458	358701	0.63%	0.103%
58	11.840	1656	1658	1662	rVB2	77634	65193	0.11%	0.019%
59	11.875	1662	1664	1670	rVB2	226767	286733	0.50%	0.082%
60	11.928	1670	1673	1675	rBV	98048	102047	0.18%	0.029%
61	11.969	1676	1680	1683	rBV	1681216	1936245	3.38%	0.556%
62	12.004	1683	1686	1691	rVV	2907644	3369884	5.88%	0.967%
63	12.051	1691	1694	1697	rVB	791198	816238	1.42%	0.234%
64	12.087	1697	1700	1708	rVB2	3098834	4851828	8.46%	1.393%
65	12.151	1708	1711	1714	rBV3	261335	319014	0.56%	0.092%
66	12.181	1714	1716	1719	rVV	343591	347970	0.61%	0.100%
67	12.210	1719	1721	1724	rVV3	255313	319465	0.56%	0.092%
68	12.275	1728	1732	1734	rVV	1435135	1523135	2.66%	0.437%
69	12.310	1734	1738	1743	rVB	1348803	1722777	3.00%	0.495%
70	12.392	1749	1752	1755	rBV4	120282	171486	0.30%	0.049%
71	12.422	1755	1757	1761	rVB2	334571	338783	0.59%	0.097%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000224.D
Acq On : 12 Sep 2019 19:20
Operator : HP/JU
Sample : K4633-09
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D07

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % 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_P\METHODS\SOM-EPA-BP090519MA.M
Title : SVOA CALIBRATION

72	12.457	1761	1763	1765	rBV	317738	264657	0.46%	0.076%
73	12.487	1765	1768	1772	rVB2	316151	371397	0.65%	0.107%
74	12.534	1772	1776	1780	rBV	687614	987811	1.72%	0.284%
75	12.581	1780	1784	1790	rBV3	501658	1189733	2.07%	0.342%
76	12.639	1790	1794	1800	rVB	1578245	2517212	4.39%	0.723%
77	12.734	1800	1810	1815	rBV	14731320	34149744	59.56%	9.803%
78	12.804	1820	1822	1827	rVB	593677	830002	1.45%	0.238%
79	12.857	1827	1831	1836	rBV	1789431	2339817	4.08%	0.672%
80	12.969	1838	1850	1862	rVB4	14236935	40925206	71.37%	11.748%
81	13.069	1863	1867	1870	rBV	1829589	2325951	4.06%	0.668%
82	13.116	1870	1875	1879	rBV	3946039	5426847	9.46%	1.558%
83	13.169	1879	1884	1887	rBV3	1711776	2854334	4.98%	0.819%
84	13.281	1894	1903	1907	rBV2	3665300	8223810	14.34%	2.361%
85	13.351	1911	1915	1917	rBV	1616564	1852670	3.23%	0.532%
86	13.392	1917	1922	1929	rVB3	2926510	5392982	9.41%	1.548%
87	13.445	1929	1931	1934	rVB2	418034	374339	0.65%	0.107%
88	13.486	1934	1938	1940	rBV	1510676	2031394	3.54%	0.583%
89	13.516	1940	1943	1950	rVB4	1408932	2053082	3.58%	0.589%
90	13.581	1952	1954	1962	rVB5	561448	1124220	1.96%	0.323%
91	13.675	1966	1970	1971	rBV	502645	642285	1.12%	0.184%
92	13.716	1974	1977	1985	rVB3	803387	1221011	2.13%	0.350%
93	13.822	1989	1995	2007	rVB	3224164	6975700	12.17%	2.002%
94	13.934	2007	2014	2015	rBV	5212119	8297103	14.47%	2.382%
95	13.992	2020	2024	2030	rVB4	3383997	6821823	11.90%	1.958%
96	14.210	2050	2061	2065	rBV2	10764518	36318682	63.34%	10.425%
97	14.604	2123	2128	2132	rBV	2092904	4665936	8.14%	1.339%
98	15.463	2247	2274	2275	rBV	9186287	57339894	100.00%	16.459%

Sum of corrected areas: 348372947

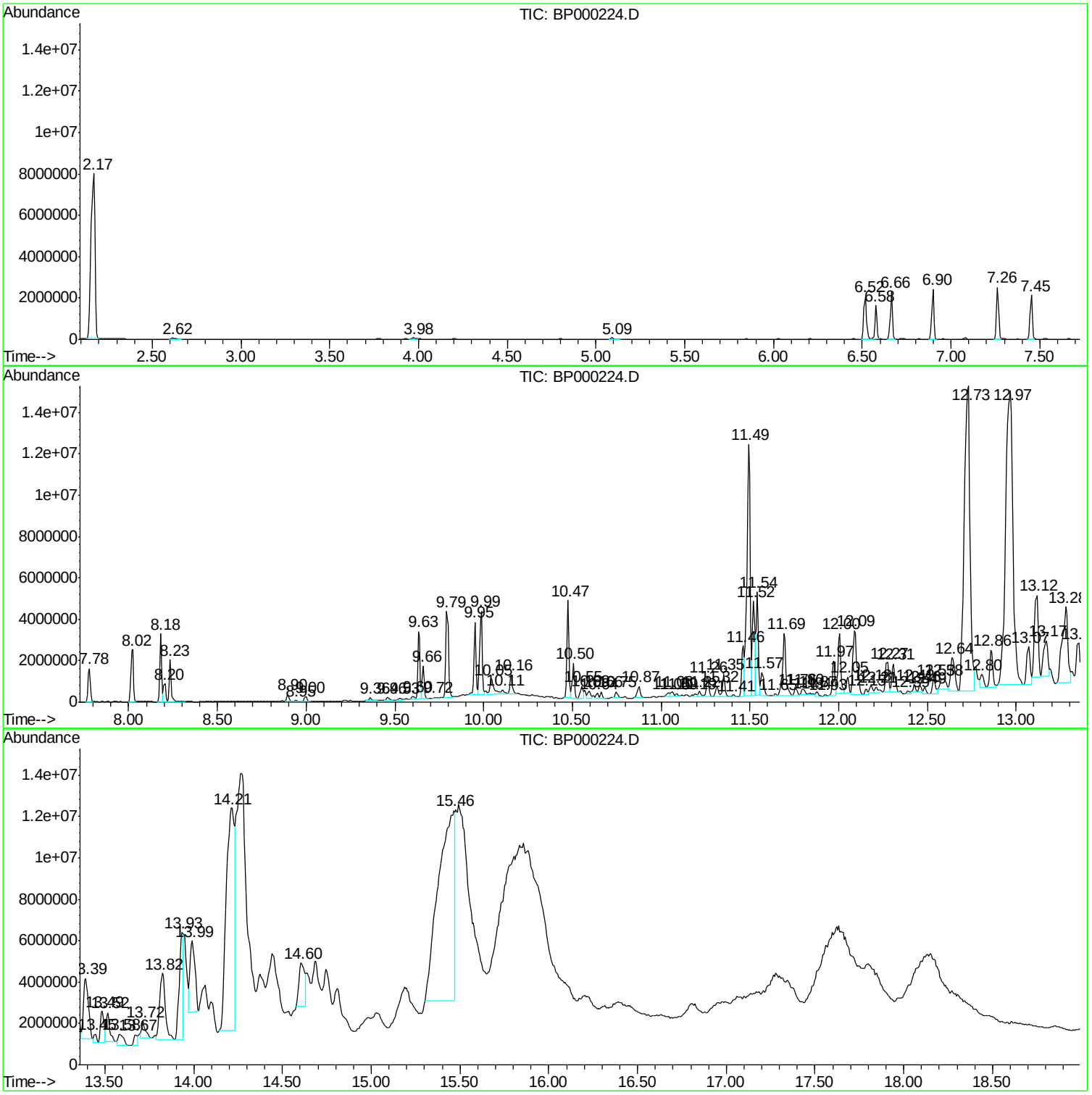
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000224.D
Acq On : 12 Sep 2019 19:20
Operator : HP/JU
Sample : K4633-09
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D07

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

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



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000224.D
Acq On : 12 Sep 2019 19:20
Operator : HP/JU
Sample : K4633-09
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D07

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

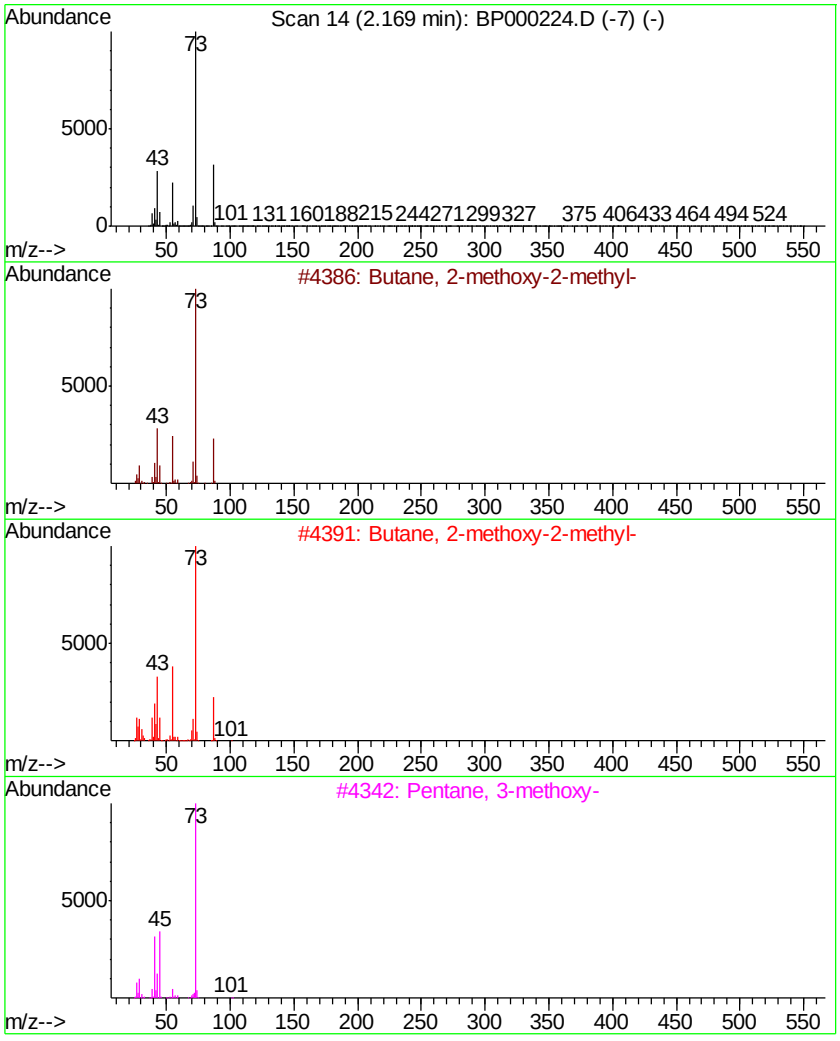
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

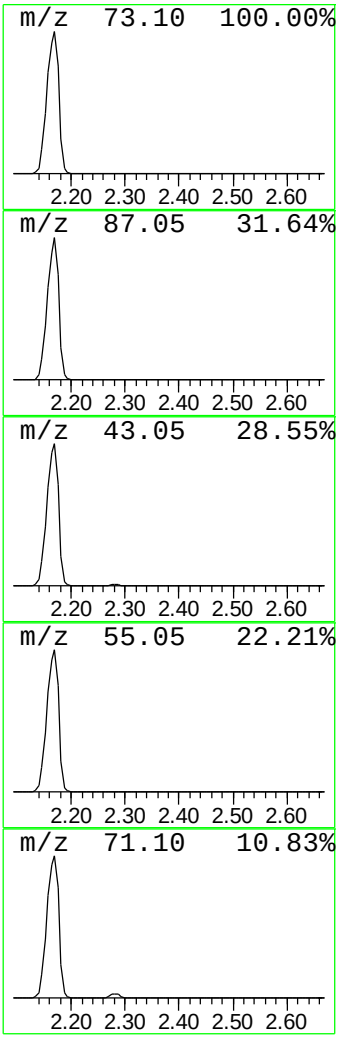
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.17	125.24 ng/ul	11979400	1,4-Dichlorobenzene-d4	6.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	78
3	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	23
4	N-Ethylformamide	73	C3H7NO	000627-45-2	9
5	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	7





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000224.D
Acq On : 12 Sep 2019 19:20
Operator : HP/JU
Sample : K4633-09
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D07

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

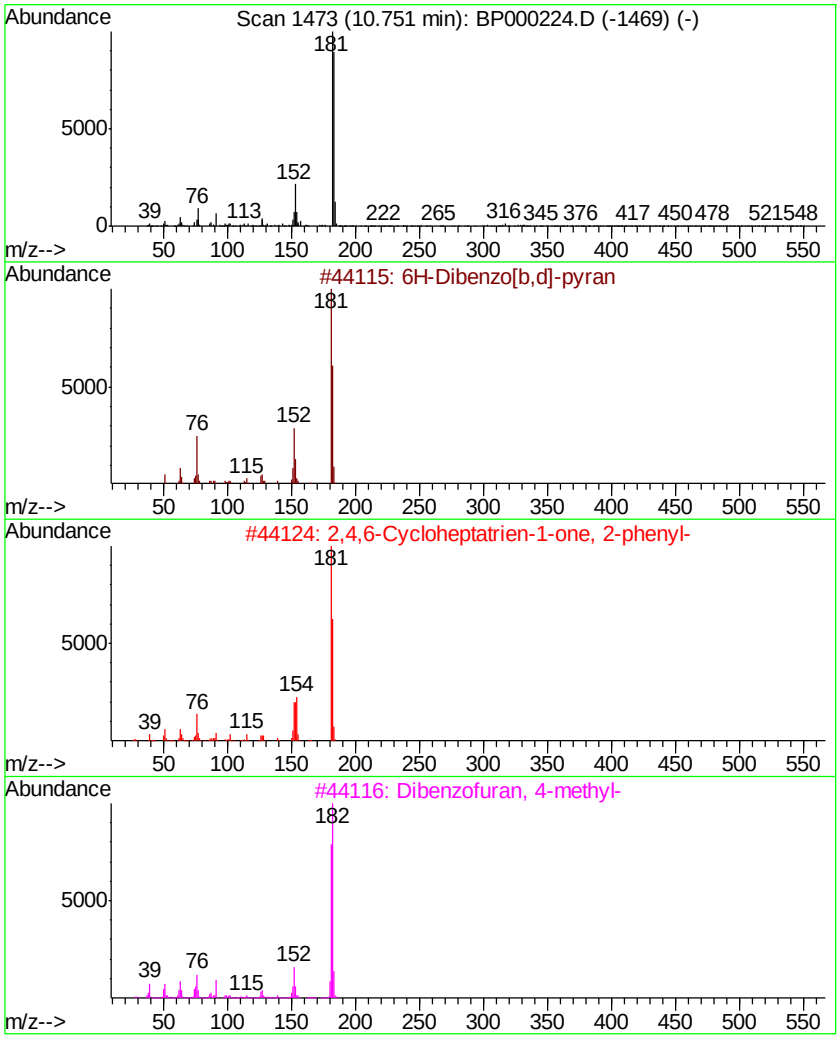
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

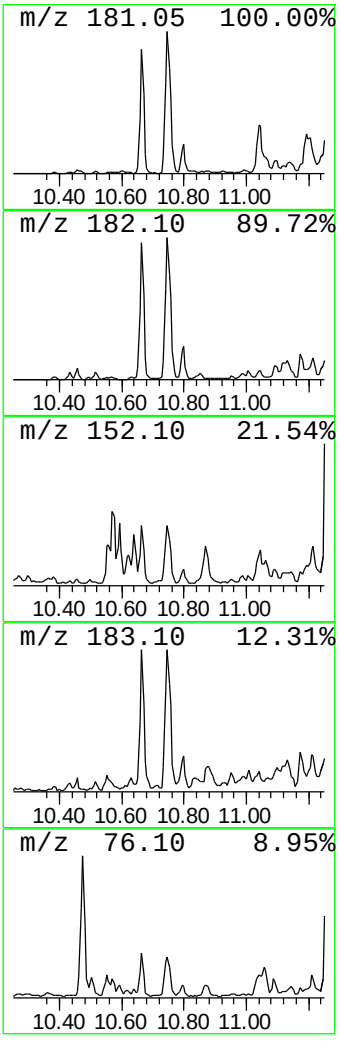
****

Peak Number 2 6H-Dibenzo[b,d]-pyran Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.75	2.61 ng/ul	352000	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	6H-Dibenzo[b,d]-pyran	182	C13H10O	000229-95-8	91
2	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	86
3	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	81
4	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	78
5	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	78





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000224.D
Acq On : 12 Sep 2019 19:20
Operator : HP/JU
Sample : K4633-09
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D07

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

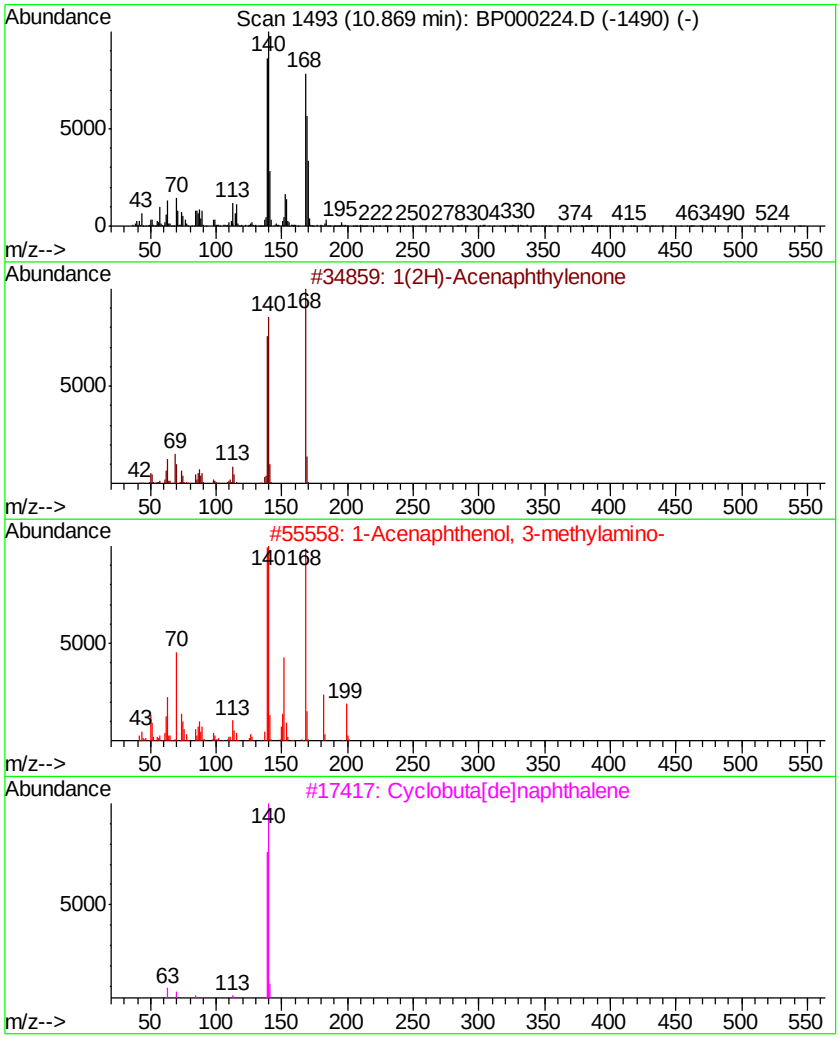
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

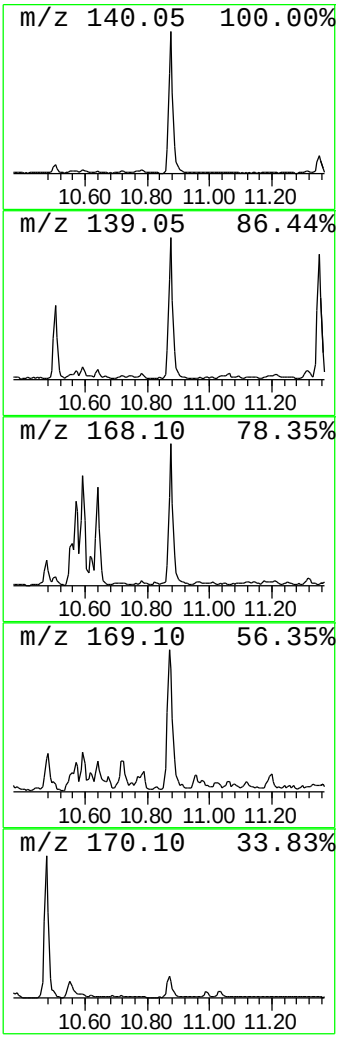
****

Peak Number 3 1(2H)-Acenaphthylenone Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.87	4.12 ng/ul	556501	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1(2H)-Acenaphthylenone	168	C12H8O	002235-15-6	94
2	1-Acenaphthenol, 3-methylamino-	199	C13H13NO	1000129-22-6	72
3	Cyclobuta[de]naphthalene	140	C11H8	024973-91-9	49
4	Dibenzofuran	168	C12H8O	000132-64-9	47
5	Dibenzofuran	168	C12H8O	000132-64-9	47





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000224.D
Acq On : 12 Sep 2019 19:20
Operator : HP/JU
Sample : K4633-09
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D07

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

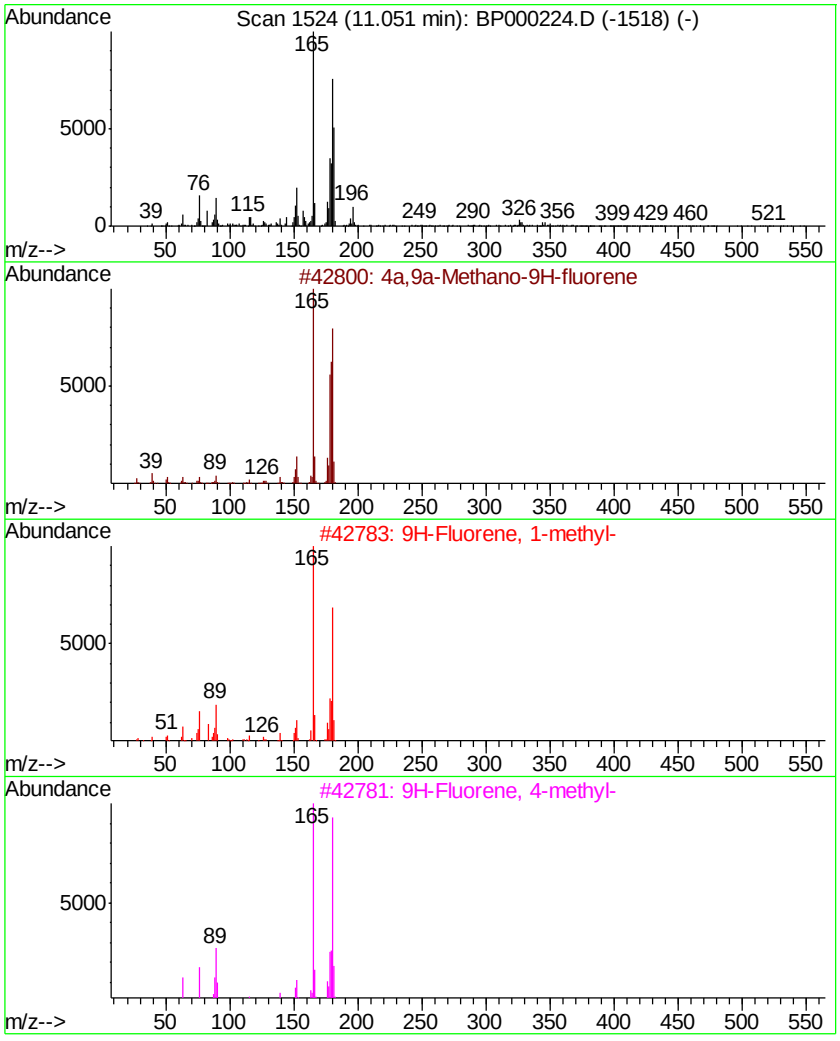
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

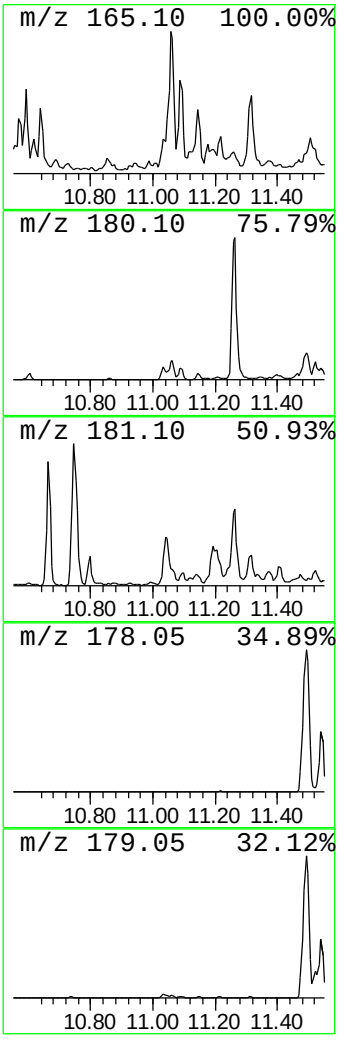
****

Peak Number 4 unknown-01 Concentration Rank 31

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.05	2.21 ng/ul	297672	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4a,9a-Methano-9H-fluorene	180	C14H12	019540-84-2	41
2	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	38
3	9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	38
4	Methylcarbazole	181	C13H11N	027323-29-1	35
5	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	30





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000224.D
Acq On : 12 Sep 2019 19:20
Operator : HP/JU
Sample : K4633-09
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D07

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

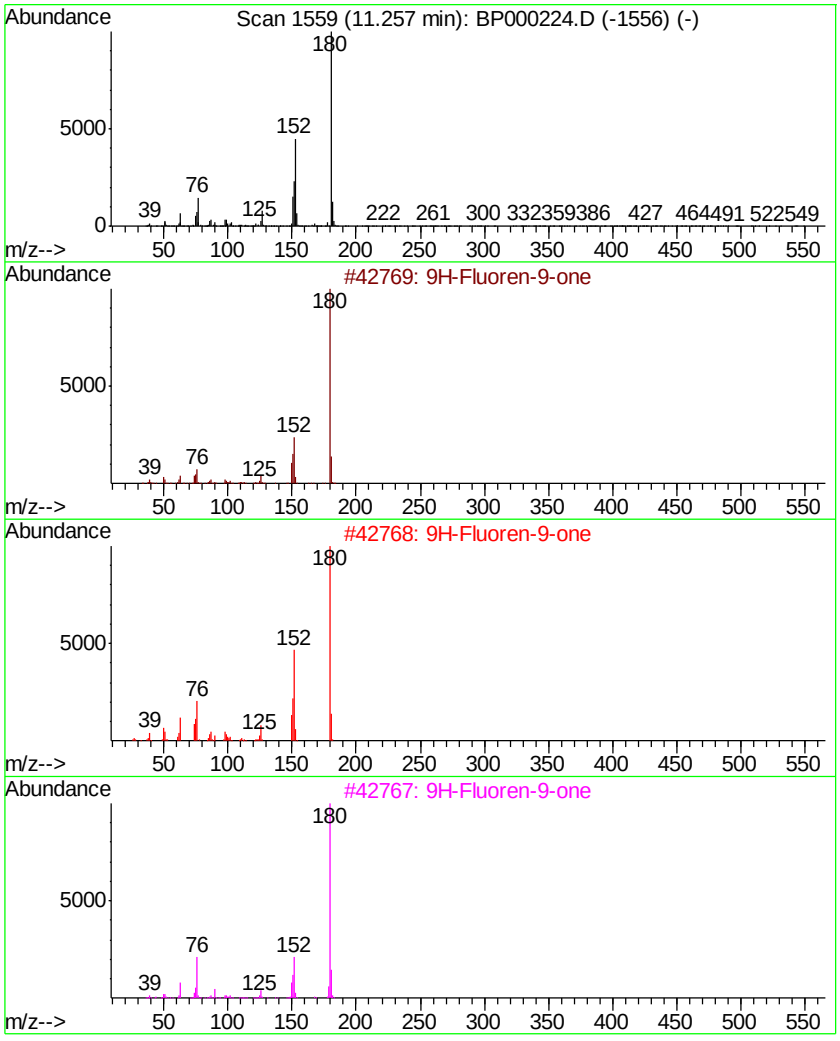
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

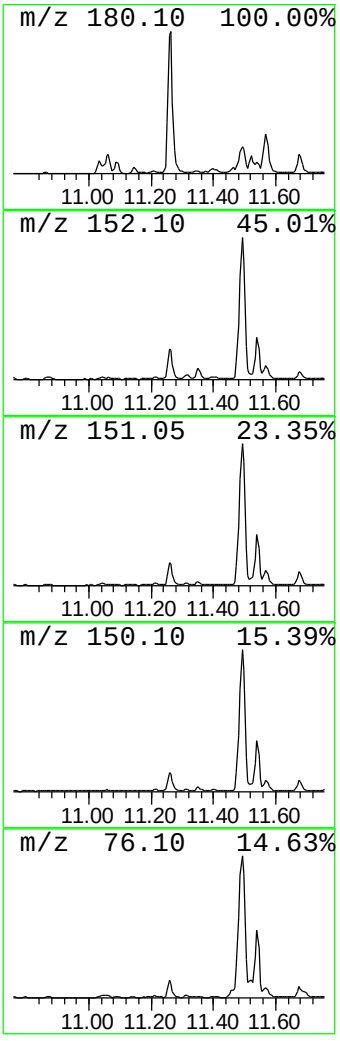
****

Peak Number 5 9H-Fluoren-9-one Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.26	7.78 ng/ul	1049610	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	95
2	9H-Fluoren-9-one	180	C13H8O	000486-25-9	94
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	94
4	9H-Fluoren-9-one	180	C13H8O	000486-25-9	68
5	1H-Phenalen-1-one	180	C13H8O	000548-39-0	53





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Acq On : 12 Sep 2019 19:20
Operator : HP/JU
Sample : K4633-09
Misc :
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Instrument : BNA_P
ClientSampleId : F2D07

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Quant Title : SVOA CALIBRATION

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

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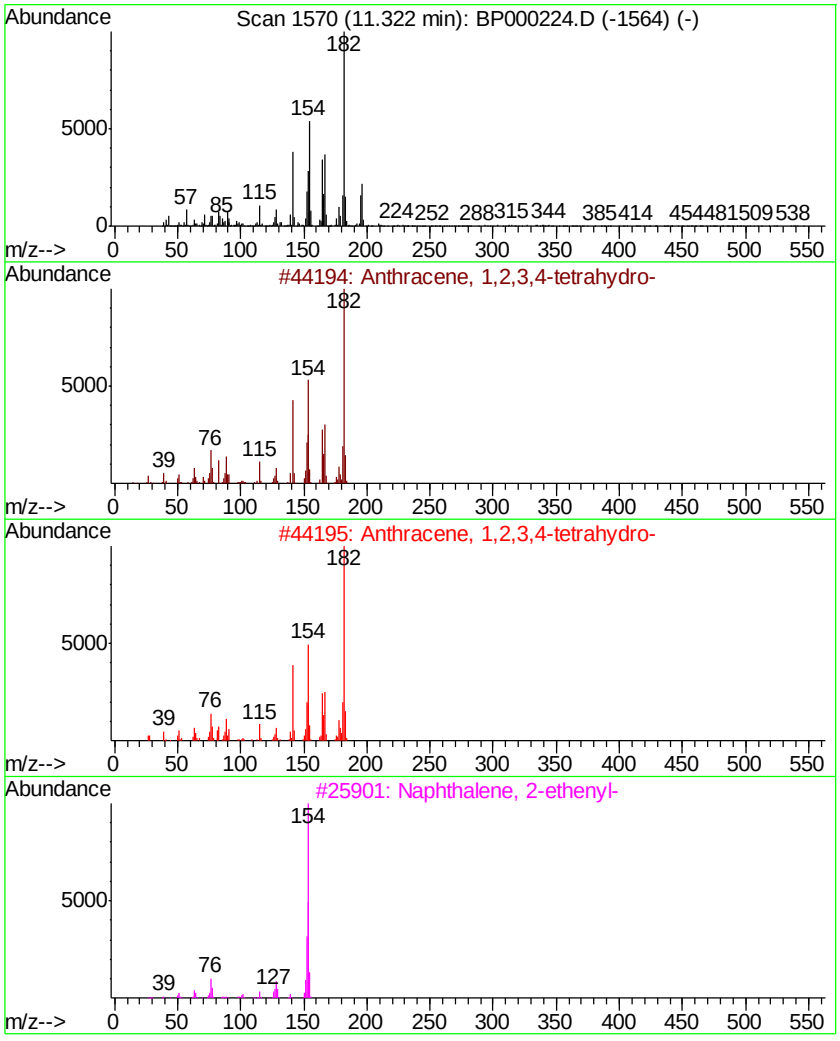
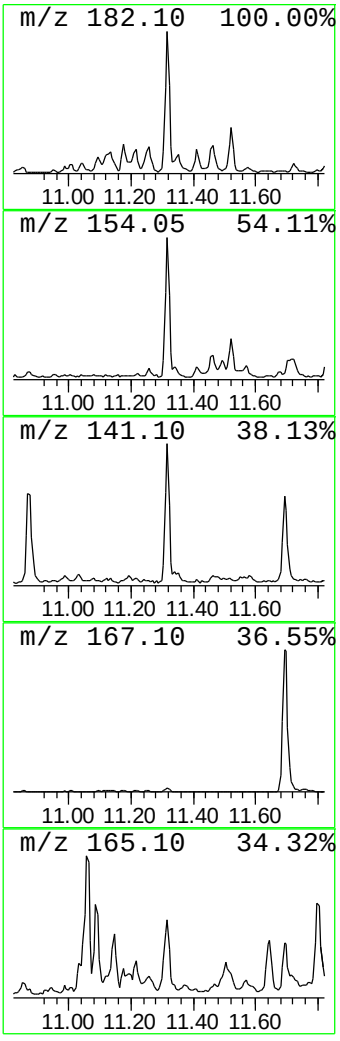
Peak Number 6 Anthracene, 1,2,3,4-tetrahy... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.32	4.31 ng/ul	582179	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1,2,3,4-tetrahydro-	182	C14H14	002141-42-6	98
2	Anthracene, 1,2,3,4-tetrahydro-	182	C14H14	002141-42-6	94
3	Naphthalene, 2-ethenyl-	154	C12H10	000827-54-3	56
4	Phenanthrene, 1,2,3,4-tetrahydro-	182	C14H14	001013-08-7	53
5	3,3'-Dimethylbiphenyl	182	C14H14	000612-75-9	50





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Instrument : BNA_P
ClientSampleId : F2D07

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Quant Title : SVOA CALIBRATION

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

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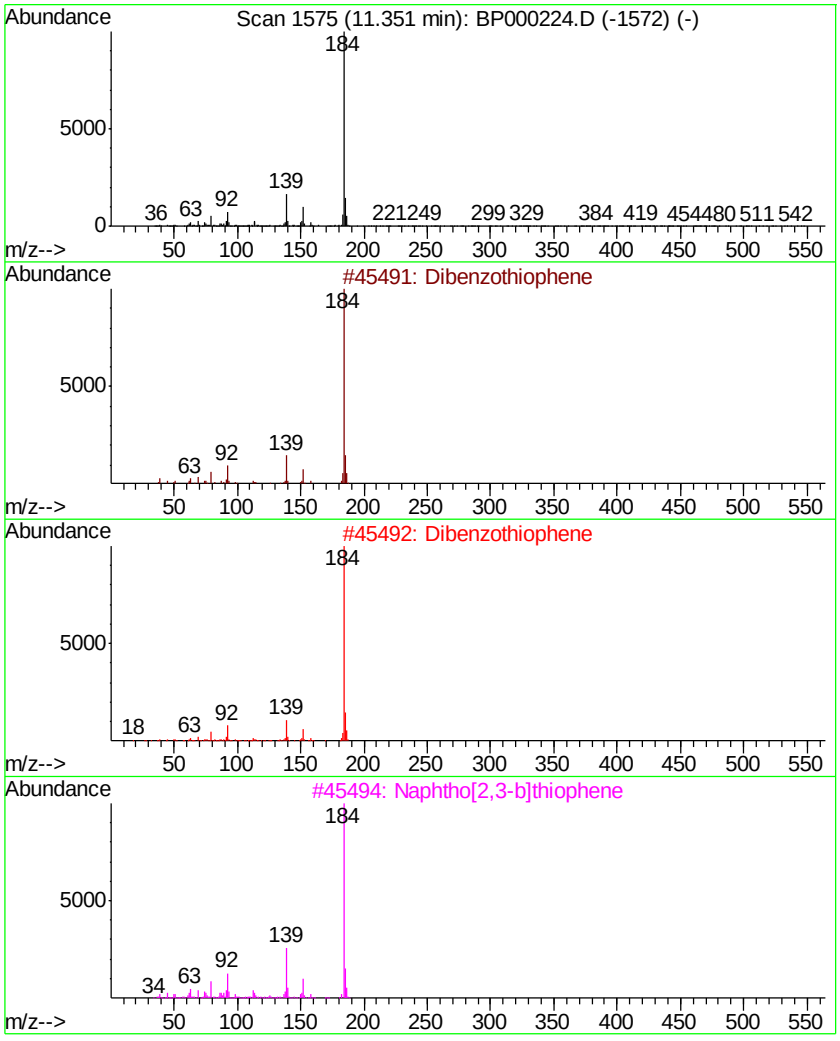
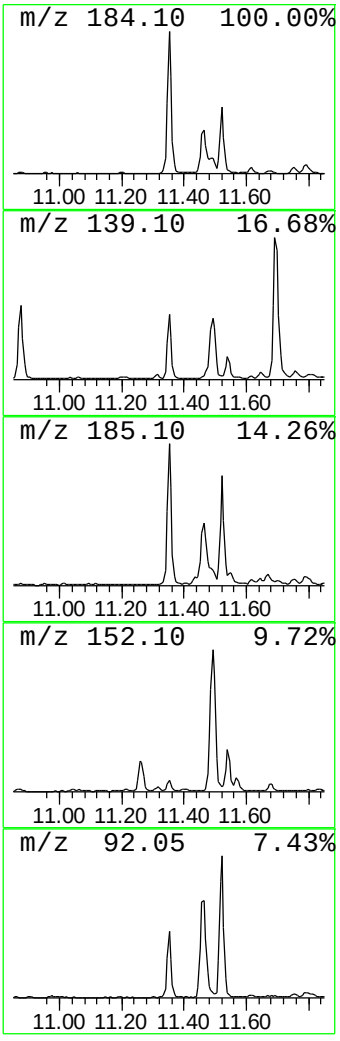
Peak Number 7 Dibenzothiophene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.35	7.99 ng/ul	1078130	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	96
2	Dibenzothiophene	184	C12H8S	000132-65-0	95
3	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	94
4	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91
5	Dibenzothiophene	184	C12H8S	000132-65-0	91





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Instrument : BNA_P
ClientSampleId : F2D07

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Quant Title : SVOA CALIBRATION

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

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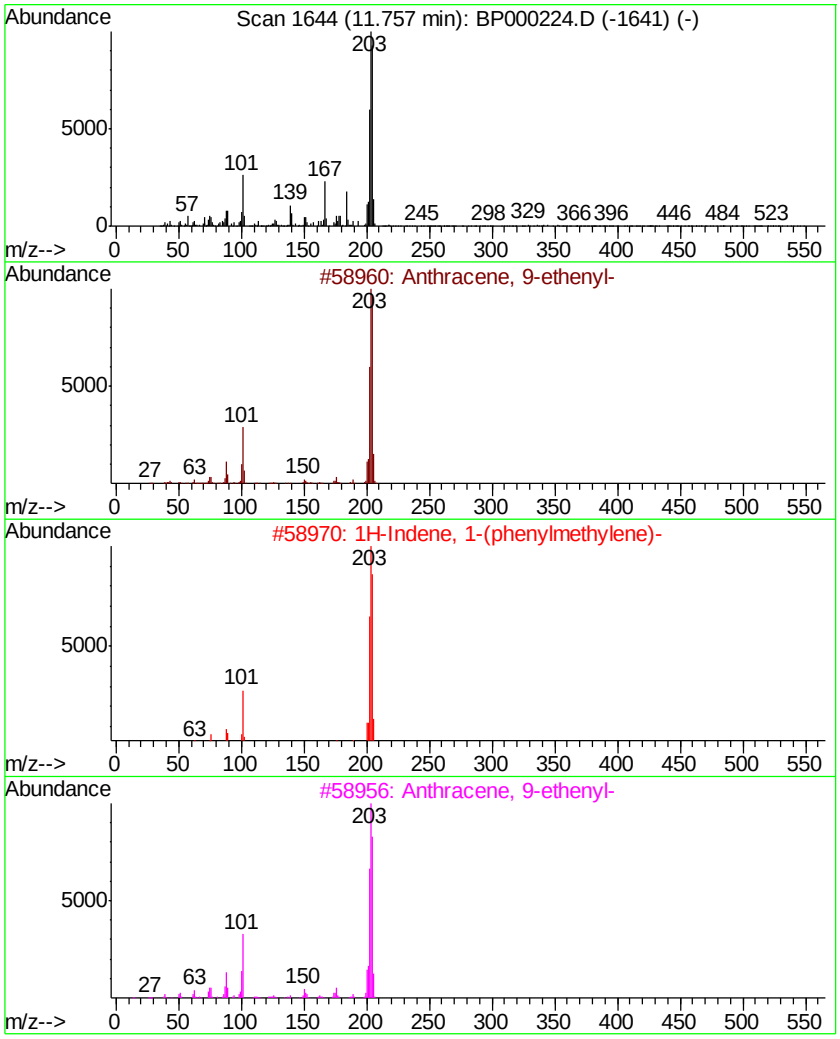
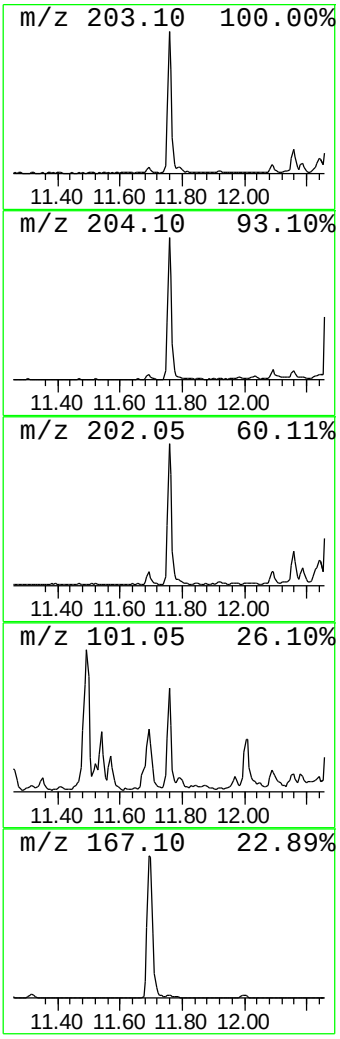
Peak Number 8 Anthracene, 9-ethenyl- Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.76	2.34 ng/ul	316505	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 9-ethenyl-	204	C16H12	002444-68-0	96
2	1H-Indene, 1-(phenylmethylene)-	204	C16H12	005394-86-5	92
3	Anthracene, 9-ethenyl-	204	C16H12	002444-68-0	91
4	Cyclobuta[1'',2'':3,4;3'',4'':3'...	204	C16H12	006574-36-3	91
5	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	91





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Instrument : BNA_P
ClientSampleId : F2D07

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Quant Title : SVOA CALIBRATION

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

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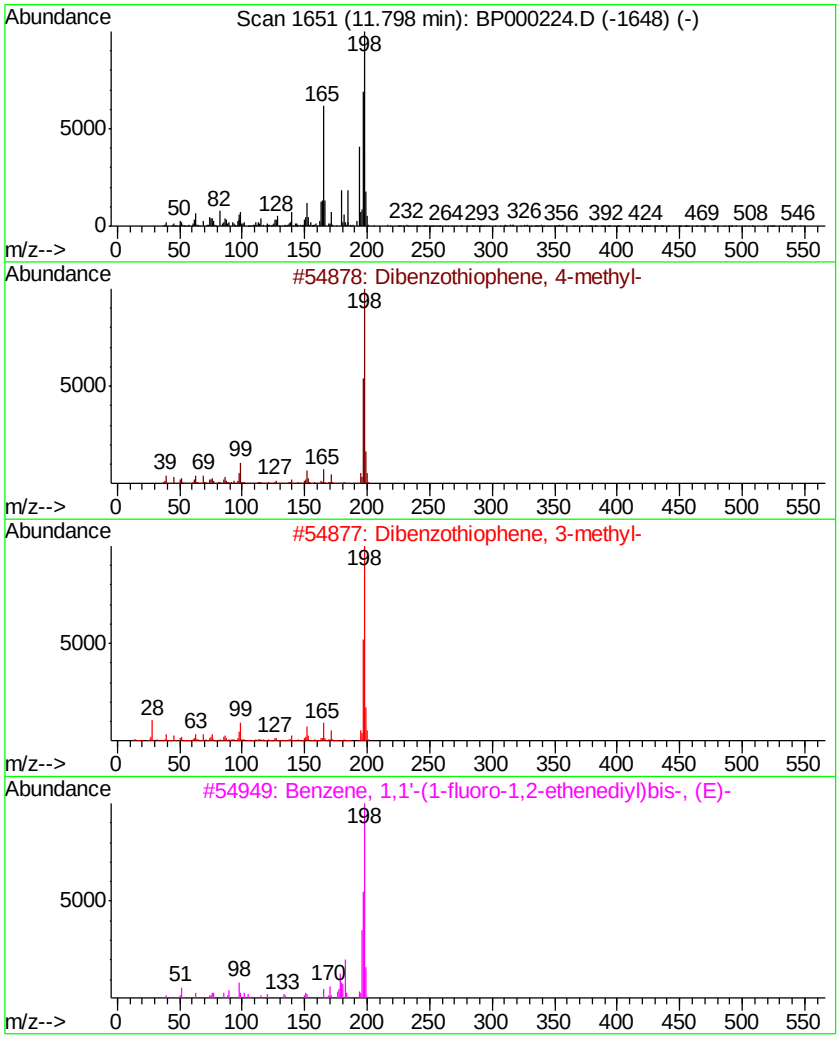
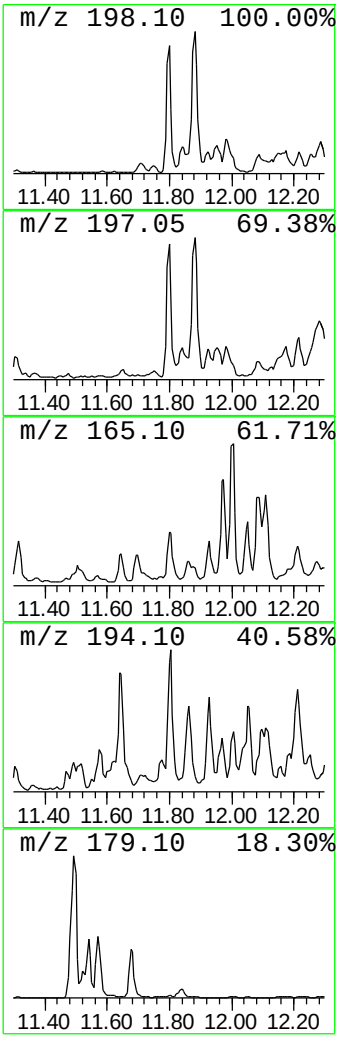
Peak Number 9 unknown-02 Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.80	2.66 ng/ul	358701	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	49
2	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	49
3	Benzene, 1,1'-(1-fluoro-1,2-ethe...	198	C14H11F	000671-19-2	49
4	Thioxanthene	198	C13H10S	000261-31-4	46
5	Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	43





Library Search Compound Report

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ClientSampleId : F2D07

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Quant Title : SVOA CALIBRATION

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

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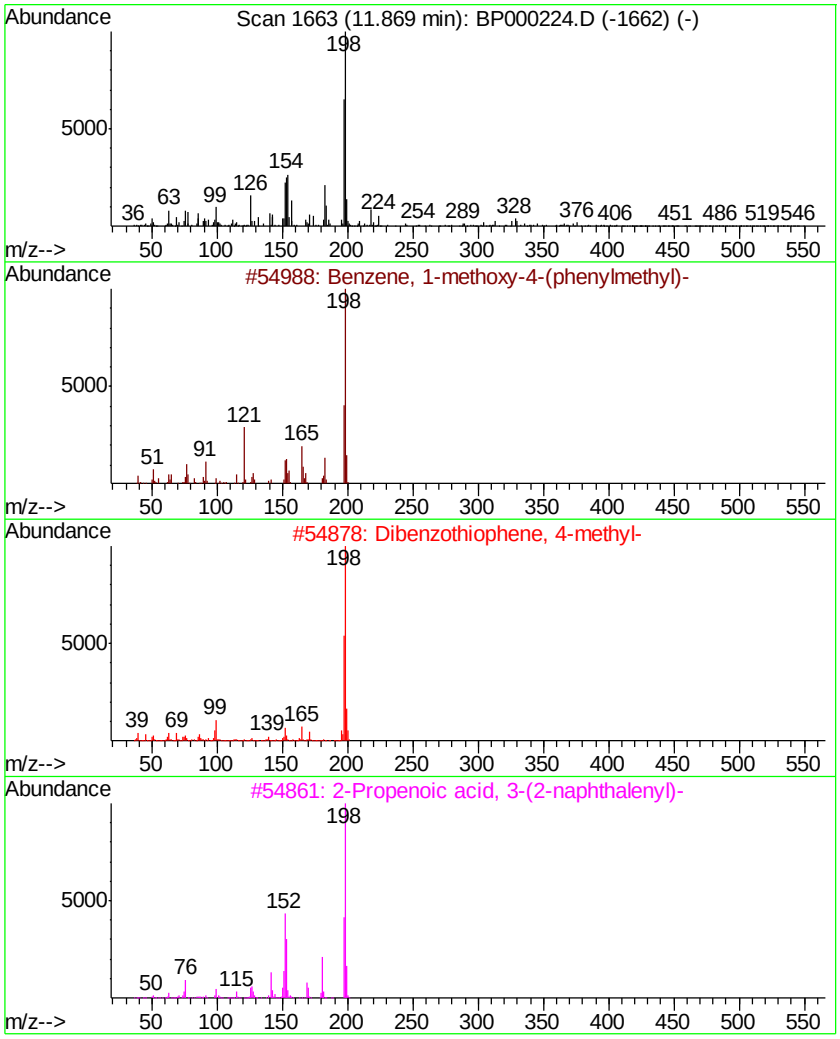
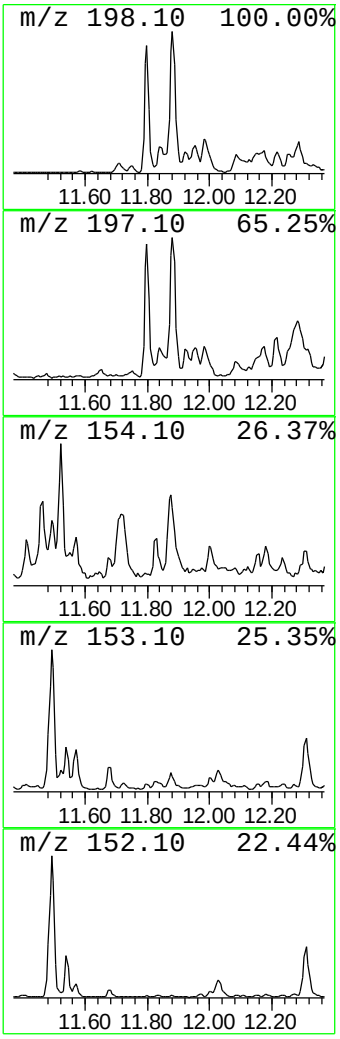
Peak Number 10 Benzene, 1-methoxy-4-(pheny... Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.87	2.12 ng/ul	286733	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methoxy-4-(phenylmeth...	198	C14H14O	000834-14-0	78
2	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	72
3	2-Propenoic acid, 3-(2-naphthale...	198	C13H10O2	051557-26-7	64
4	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	59
5	9-Acridinamine, 1,2,3,4-tetrahydro-	198	C13H14N2	000321-64-2	59





Library Search Compound Report

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Sample : K4633-09
Misc :
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Instrument : BNA_P
ClientSampleId : F2D07

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Quant Title : SVOA CALIBRATION

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

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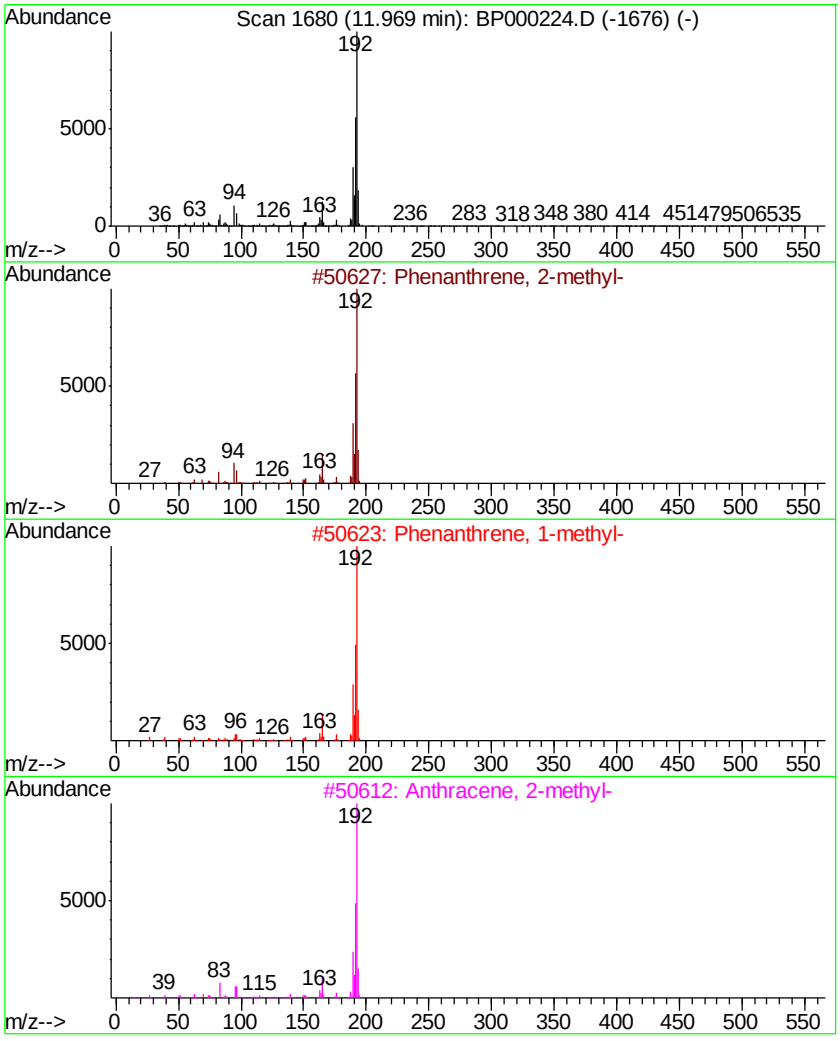
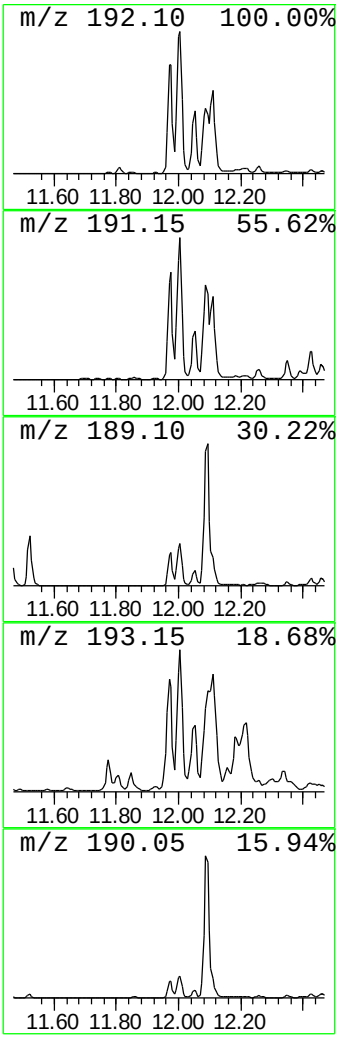
Peak Number 11 Phenanthrene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.97	14.34 ng/ul	1936250	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96





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Acq On : 12 Sep 2019 19:20
Operator : HP/JU
Sample : K4633-09
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D07

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Quant Title : SVOA CALIBRATION

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

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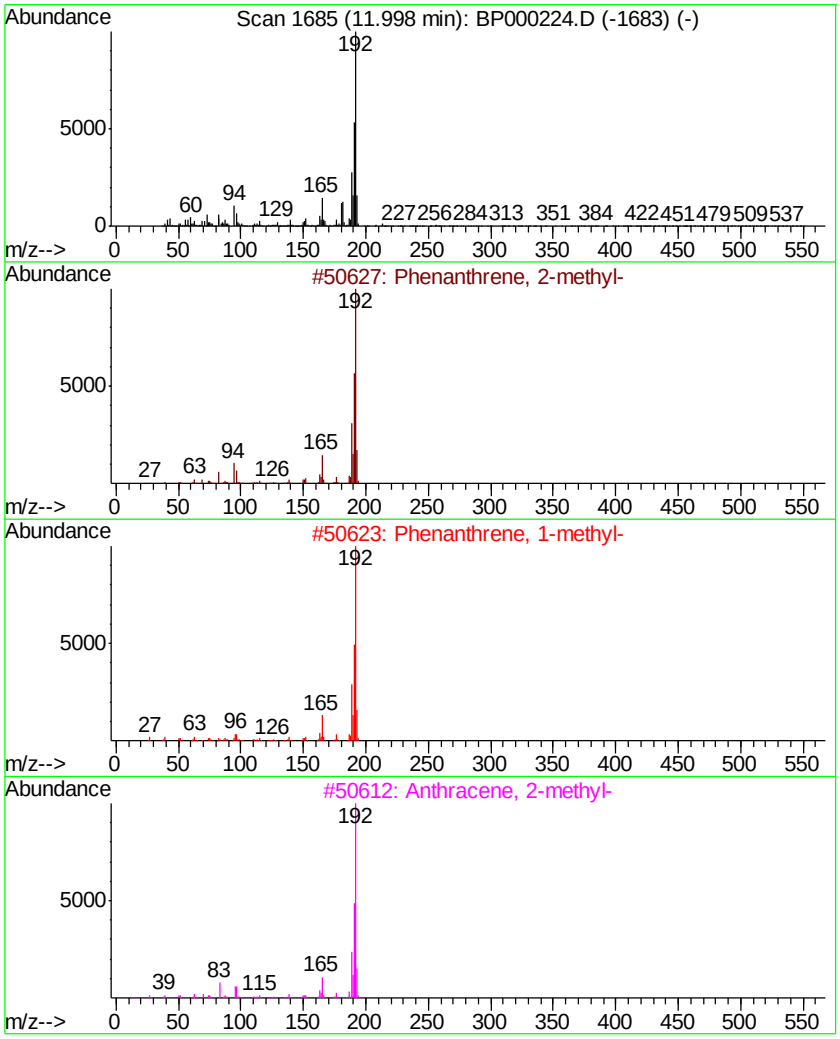
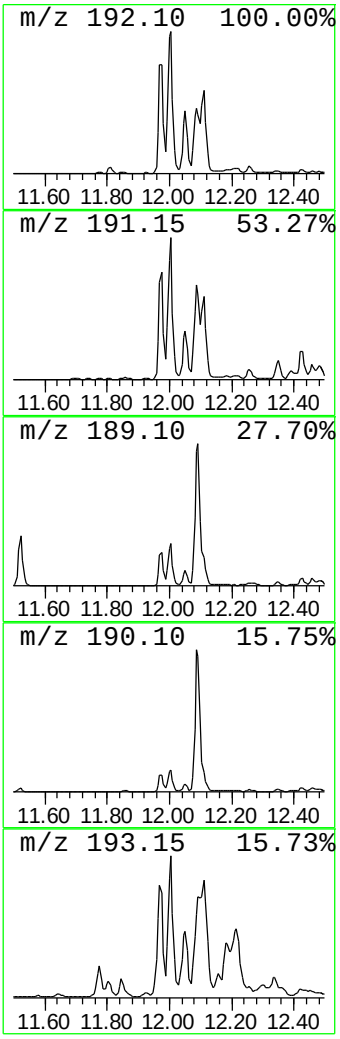
Peak Number 12 Phenanthrene, 1-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.00	24.97 ng/ul	3369880	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96





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Instrument : BNA_P
ClientSampleId : F2D07

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Quant Title : SVOA CALIBRATION

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

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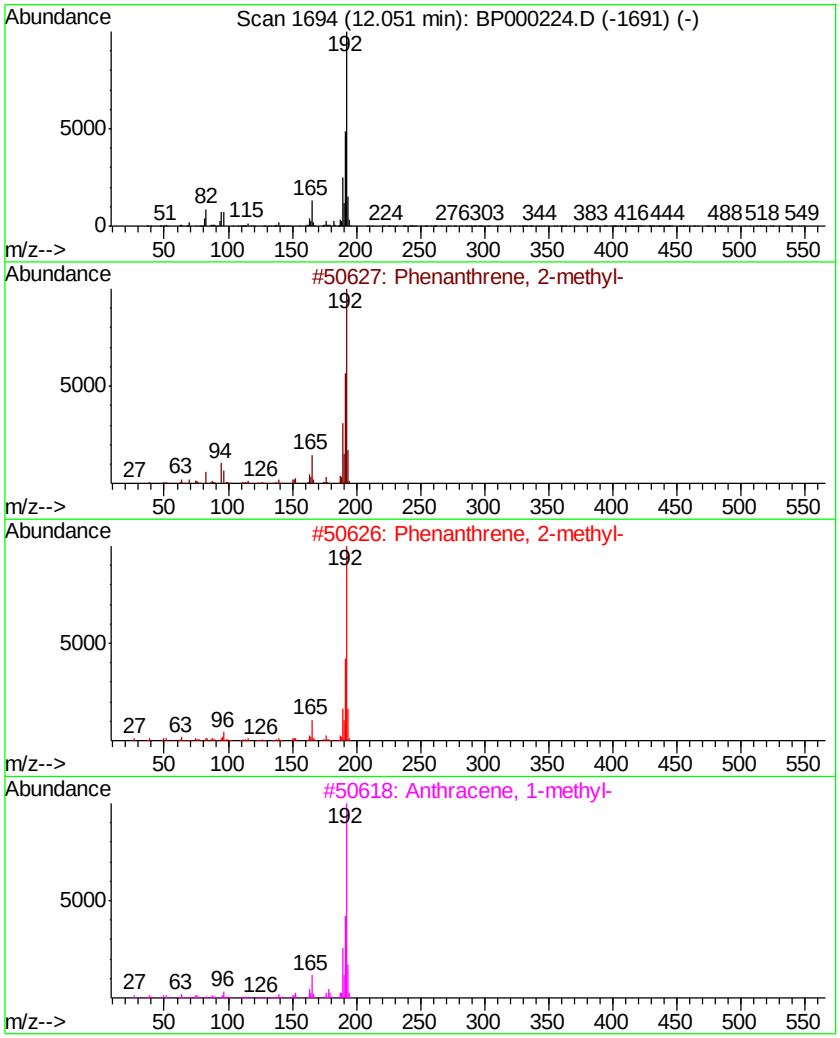
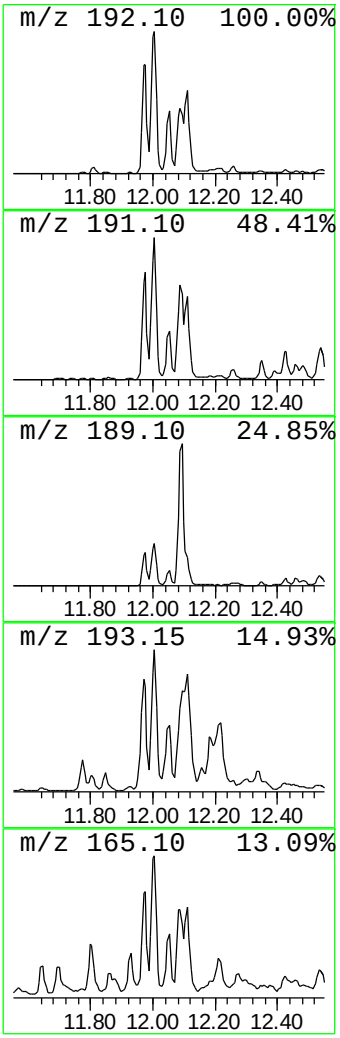
Peak Number 13 Anthracene, 2-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.05	6.05 ng/ul	816238	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	94
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	93





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Quant Title : SVOA CALIBRATION

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

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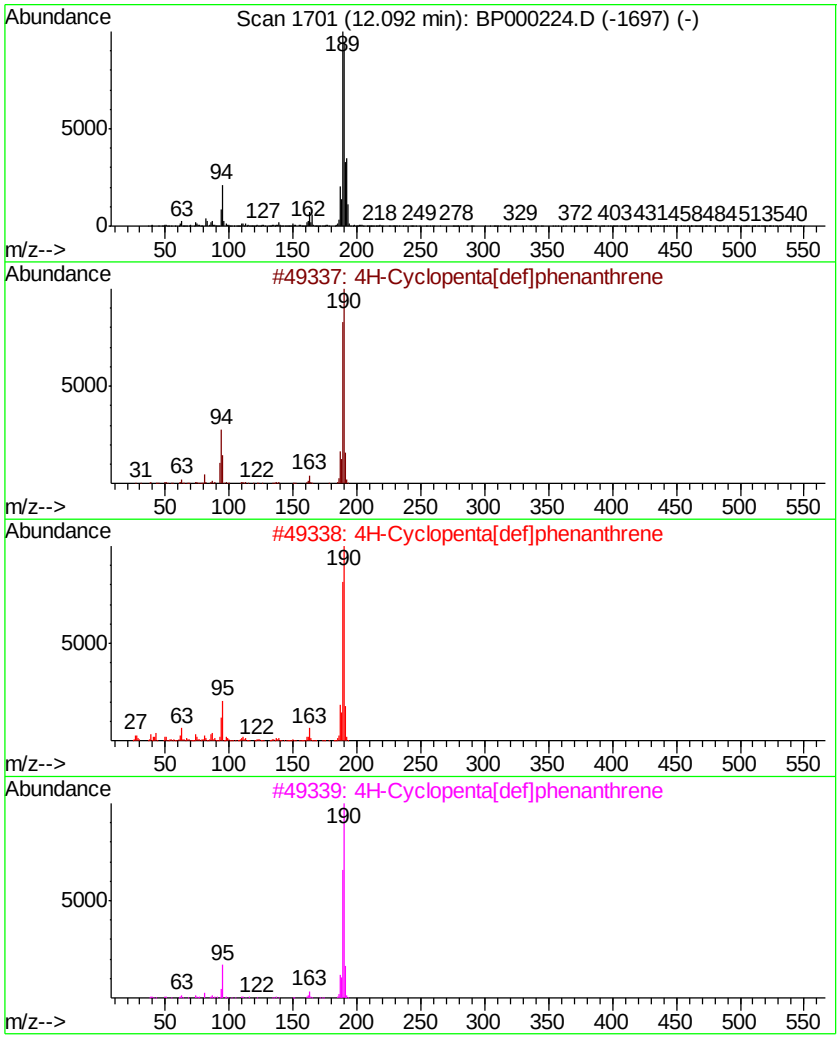
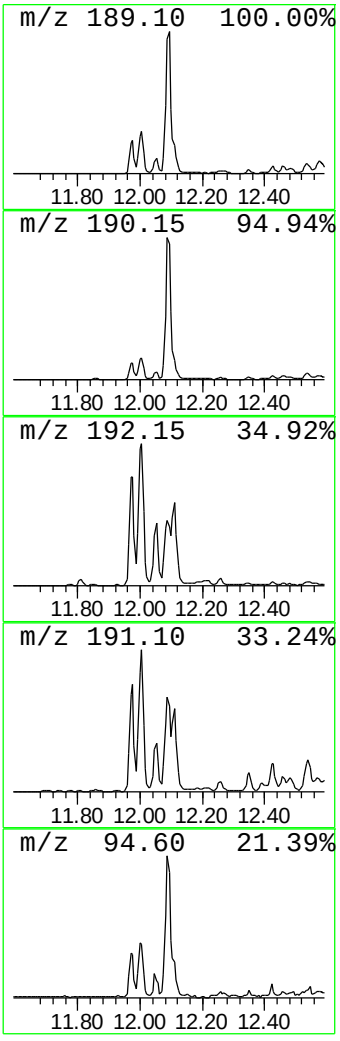
Peak Number 14 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.09	35.94 ng/ul	4851830	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	94
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	70
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	58
4	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	50
5	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	47





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ClientSampleId : F2D07

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Quant Title : SVOA CALIBRATION

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

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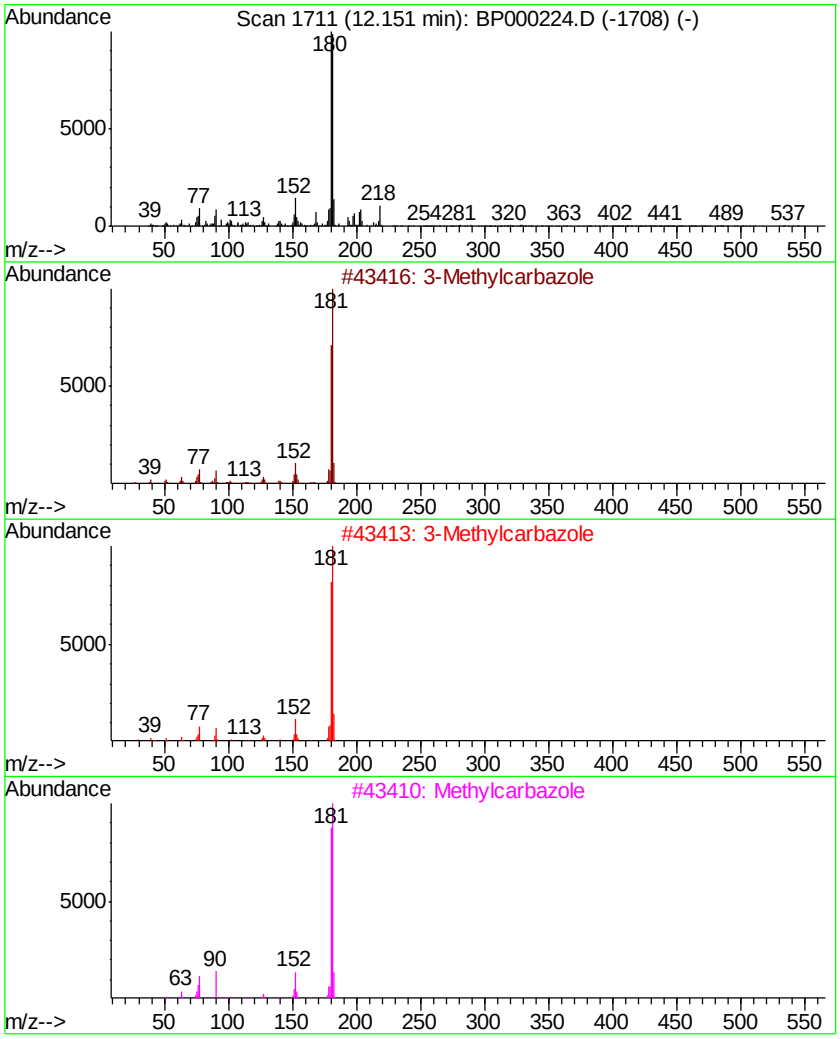
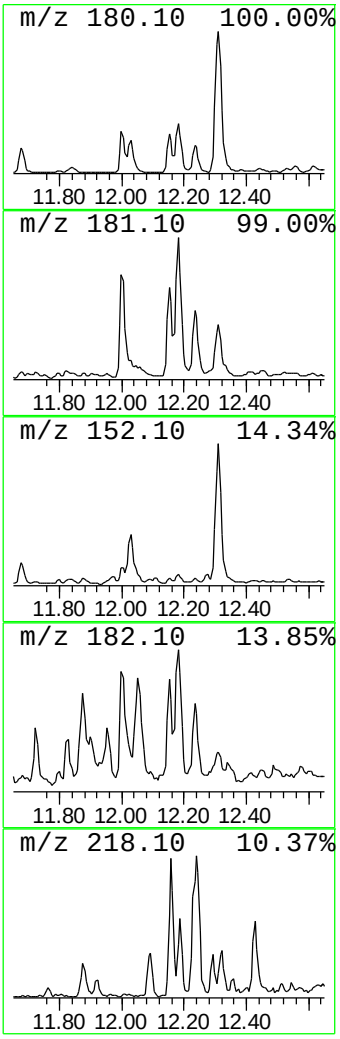
Peak Number 15 3-Methylcarbazole Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.15	2.36 ng/ul	319014	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Methylcarbazole	181	C13H11N	004630-20-0	96
2	3-Methylcarbazole	181	C13H11N	004630-20-0	96
3	Methylcarbazole	181	C13H11N	027323-29-1	95
4	4-Methylcarbazole	181	C13H11N	003770-48-7	93
5	9H-Carbazole, 2-methyl-	181	C13H11N	003652-91-3	93





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Quant Title : SVOA CALIBRATION

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

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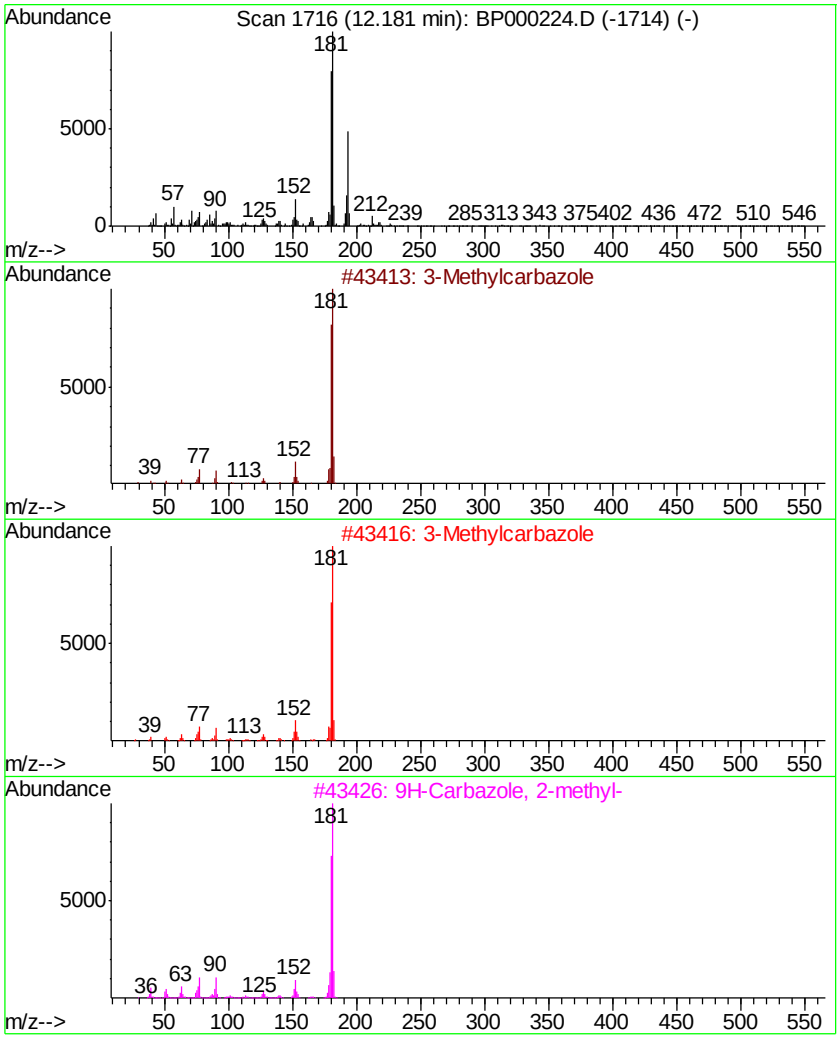
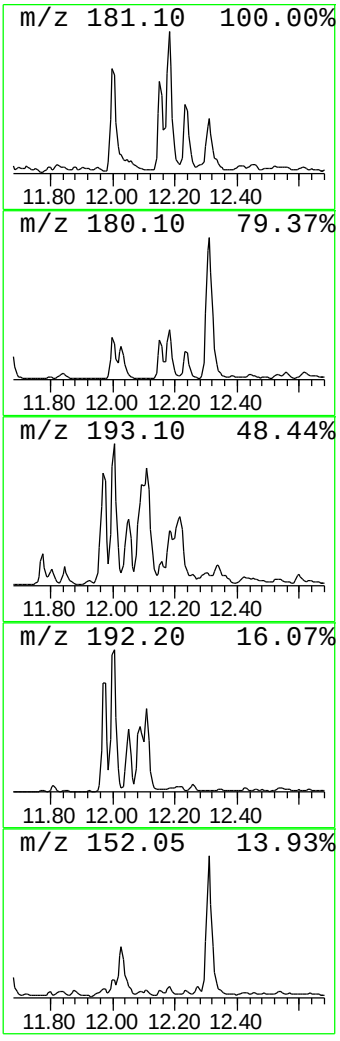
Peak Number 16 9H-Carbazole, 2-methyl- Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.18	2.58 ng/ul	347970	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Methylcarbazole	181	C13H11N	004630-20-0	95
2	3-Methylcarbazole	181	C13H11N	004630-20-0	95
3	9H-Carbazole, 2-methyl-	181	C13H11N	003652-91-3	86
4	Methylcarbazole	181	C13H11N	027323-29-1	70
5	3-Methylcarbazole	181	C13H11N	004630-20-0	70





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Instrument : BNA_P
ClientSampleId : F2D07

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Quant Title : SVOA CALIBRATION

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

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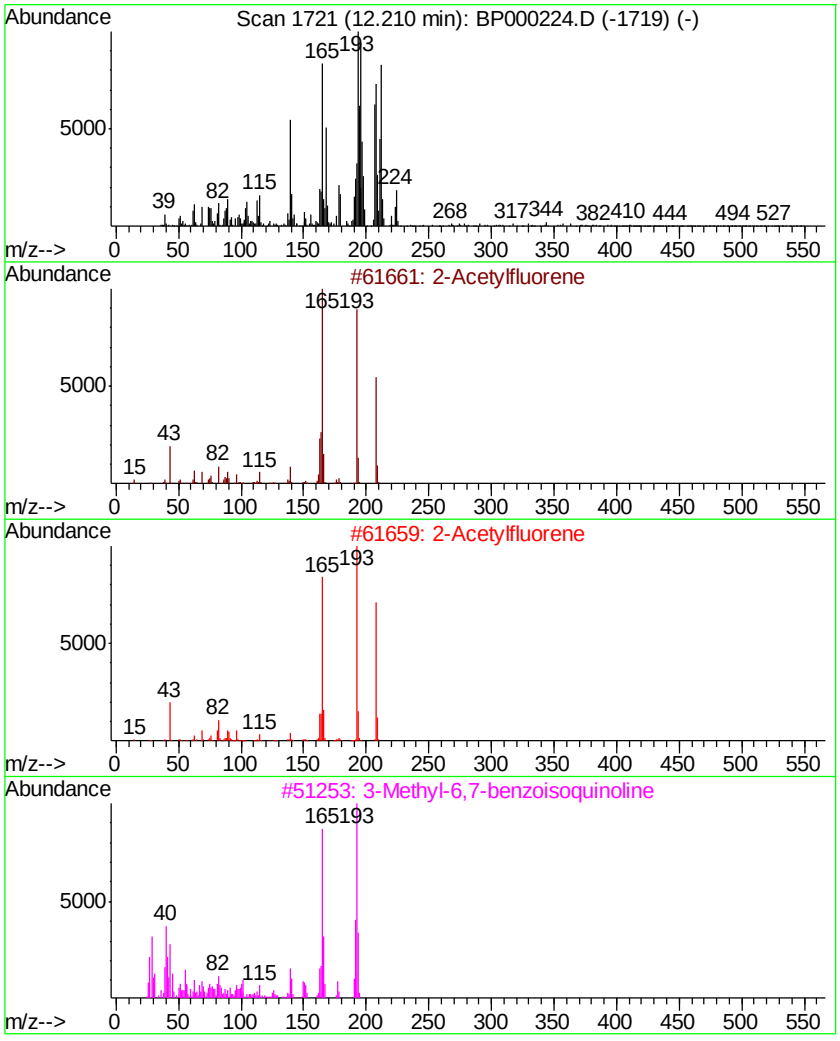
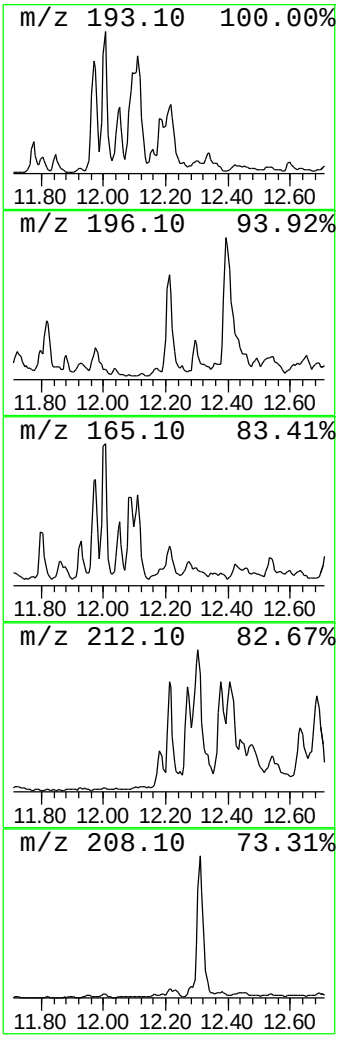
Peak Number 17 unknown-03 Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.21	2.37 ng/ul	319465	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Acetylfluorene	208	C15H12O	000781-73-7	42
2	2-Acetylfluorene	208	C15H12O	000781-73-7	38
3	3-Methyl-6,7-benzoisoquinoline	193	C14H11N	019339-12-9	35
4	Anthracene, 9-methoxy-	208	C15H12O	002395-96-2	30
5	Benzo[c]cinnoline, 4-methyl-	194	C13H10N2	019174-78-8	25





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Operator : HP/JU
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Misc :
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Instrument : BNA_P
ClientSampleId : F2D07

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Quant Title : SVOA CALIBRATION

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

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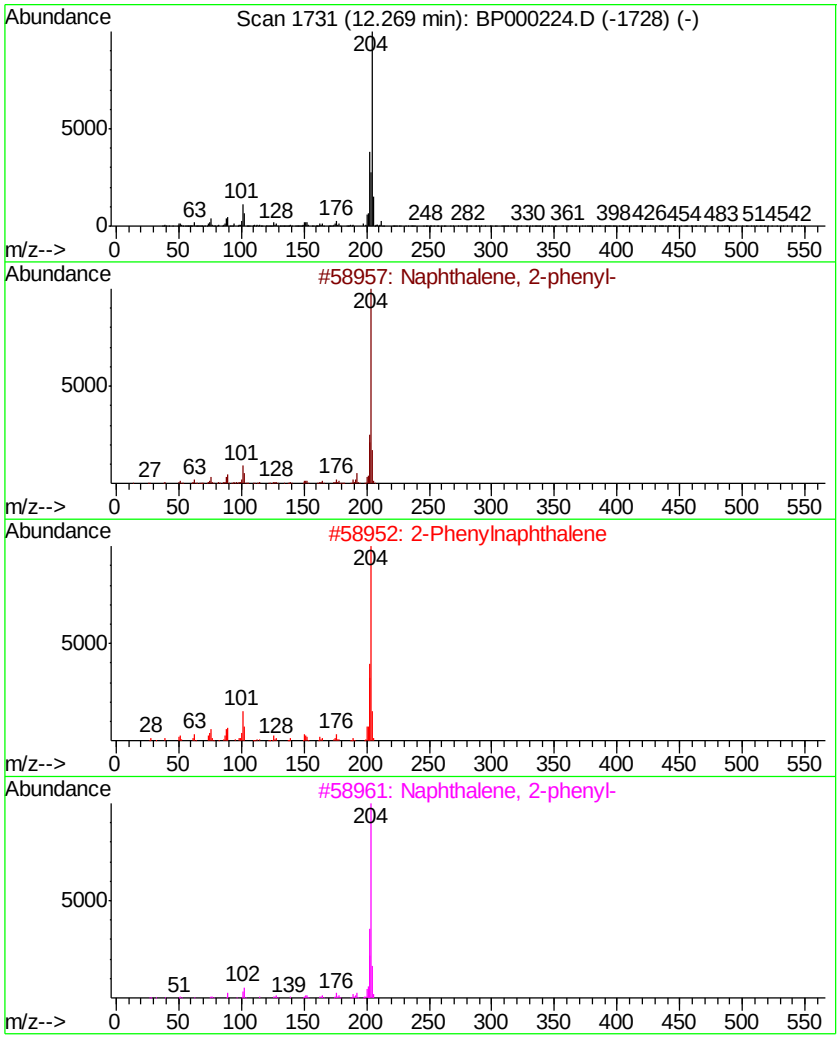
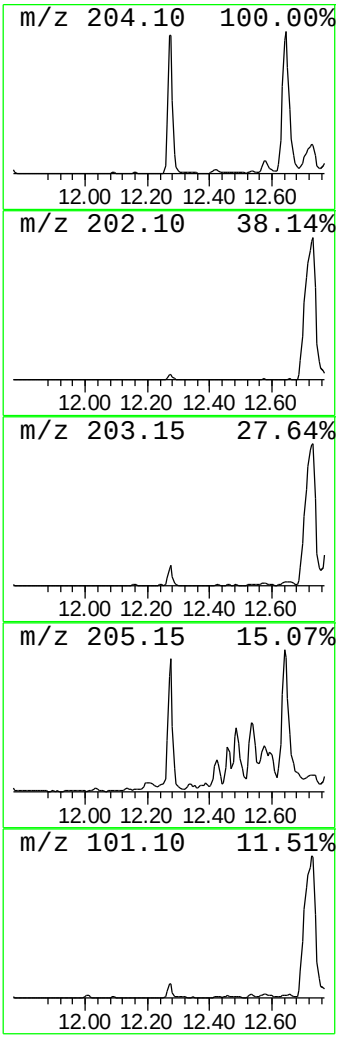
Peak Number 18 Naphthalene, 2-phenyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.27	11.28 ng/ul	1523140	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	89
2	2-Phenylnaphthalene	204	C16H12	035465-71-5	86
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	86
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	86
5	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	83





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Quant Title : SVOA CALIBRATION

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

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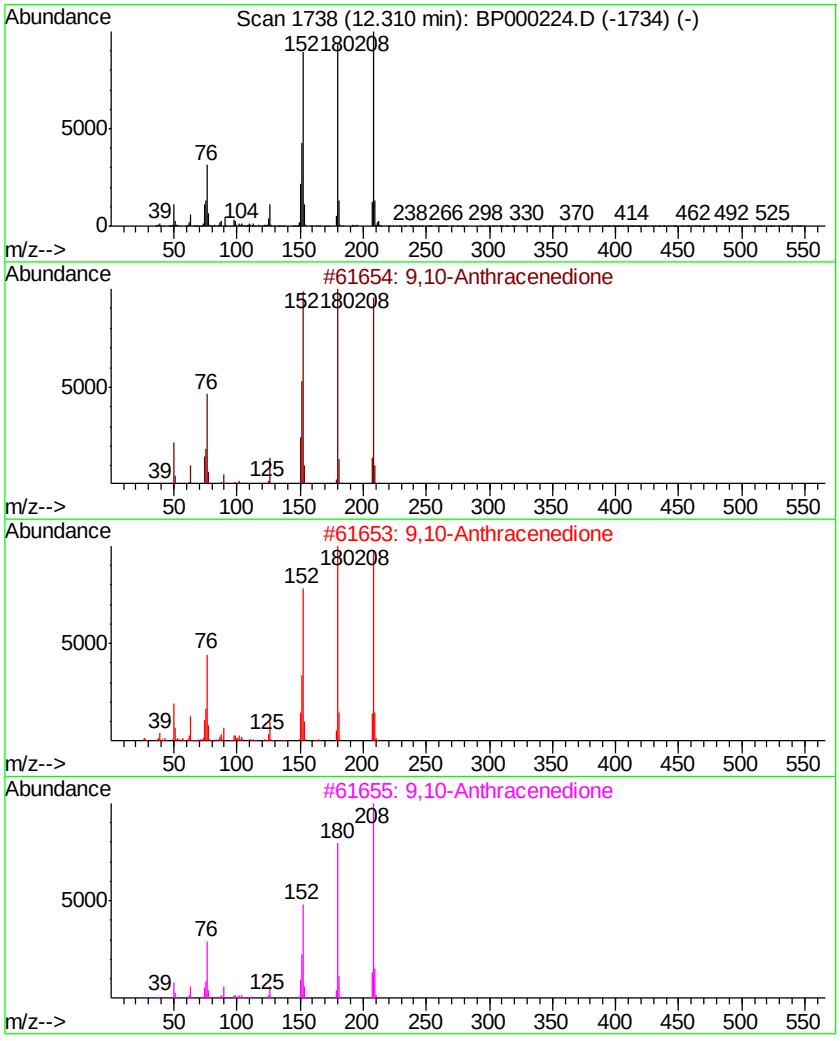
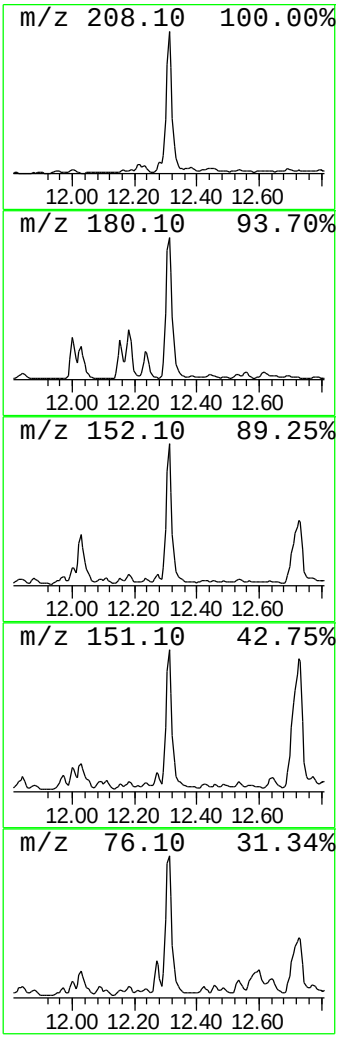
Peak Number 19 9,10-Anthracenedione Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.31	12.76 ng/ul	1722780	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	98
2	9,10-Anthracenedione	208	C14H8O2	000084-65-1	94
3	9,10-Anthracenedione	208	C14H8O2	000084-65-1	94
4	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	70
5	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	70





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Quant Title : SVOA CALIBRATION

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

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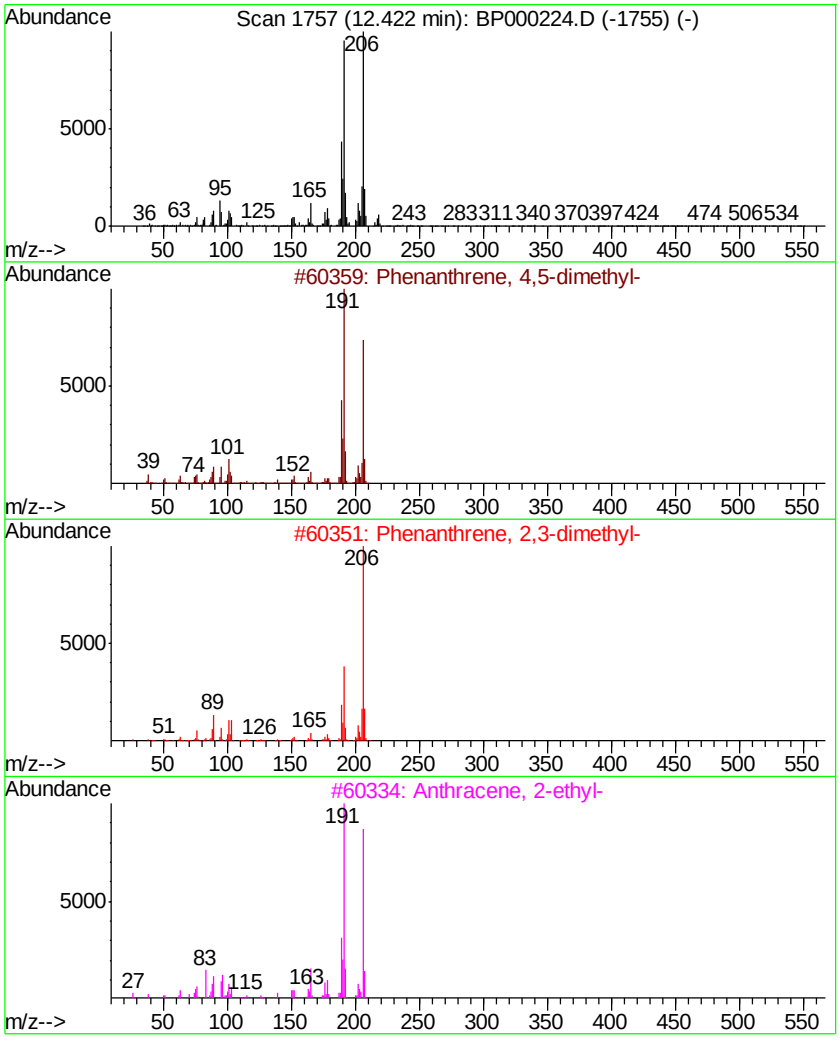
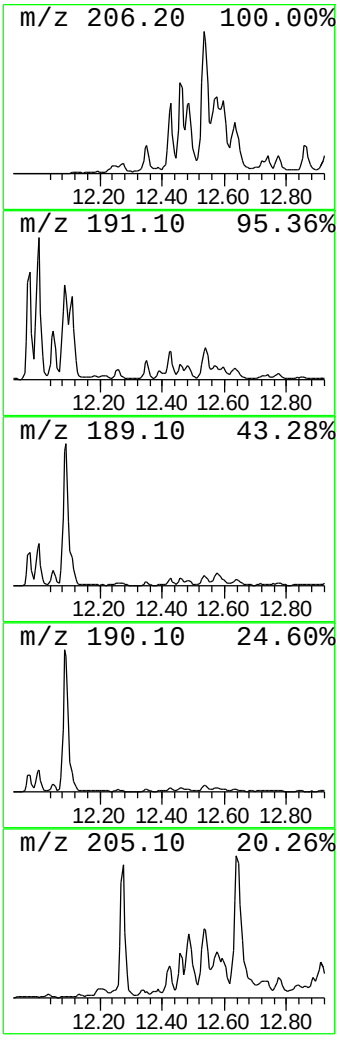
Peak Number 20 Phenanthrene, 4,5-dimethyl- Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.42	2.51 ng/ul	338783	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	95
2	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
3	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	91
4	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	90
5	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	89





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Quant Title : SVOA CALIBRATION

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

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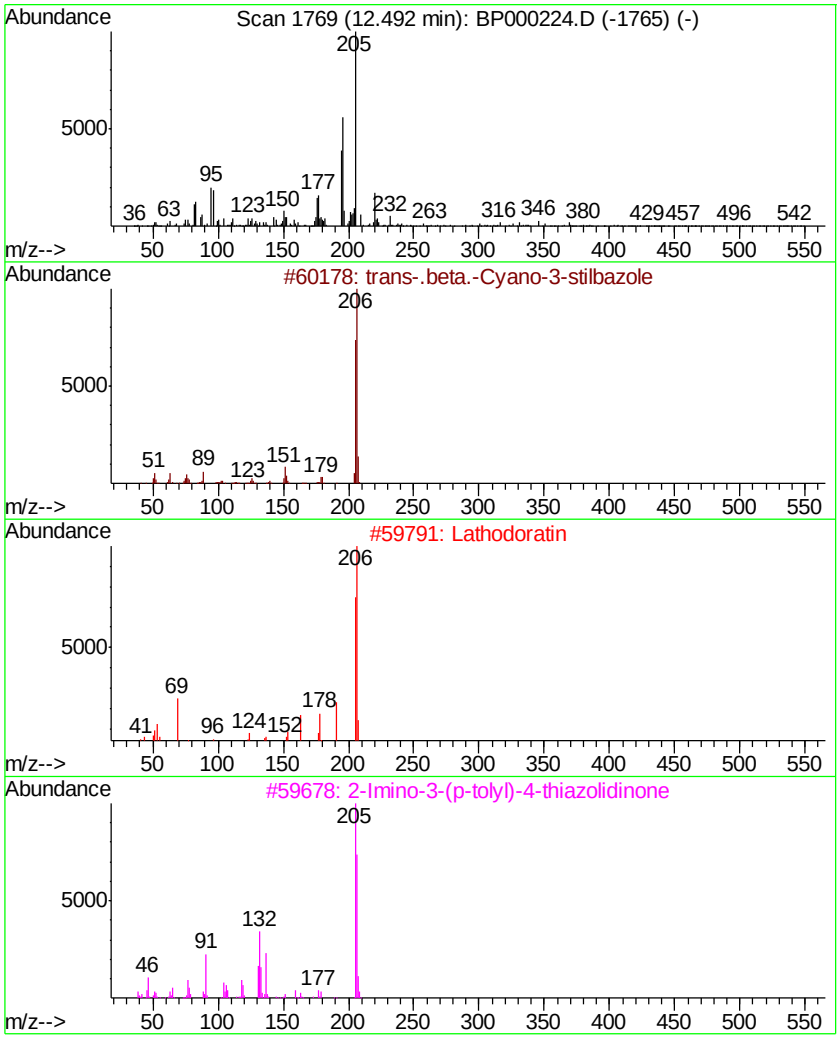
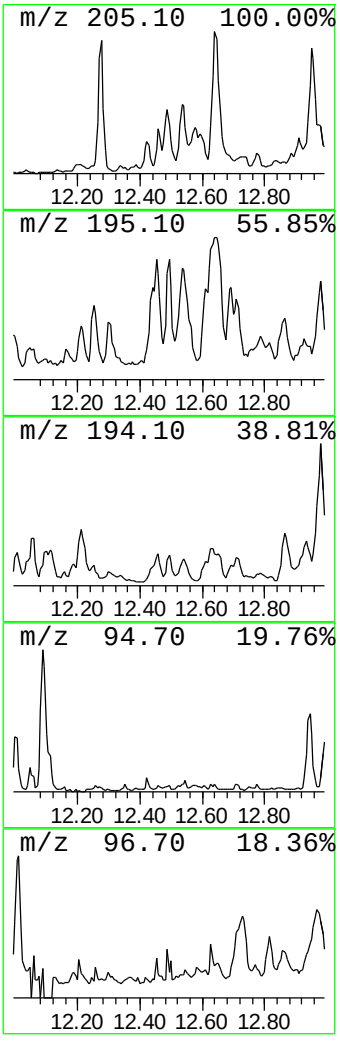
Peak Number 21 trans-.beta.-Cyano-3-stilba... Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.49	2.75 ng/ul	371397	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	trans-.beta.-Cyano-3-stilbazole	206	C14H10N2	049601-70-9	53
2	Lathodoratin	206	C11H10O4	076693-50-0	52
3	2-Imino-3-(p-tolyl)-4-thiazolidi...	206	C10H10N2OS	020579-81-1	49
4	di-p-Tolylacetylene	206	C16H14	002789-88-0	49
5	Piperidine, 1-(4-nitrophenyl)-	206	C11H14N2O2	006574-15-8	49





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Quant Title : SVOA CALIBRATION

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

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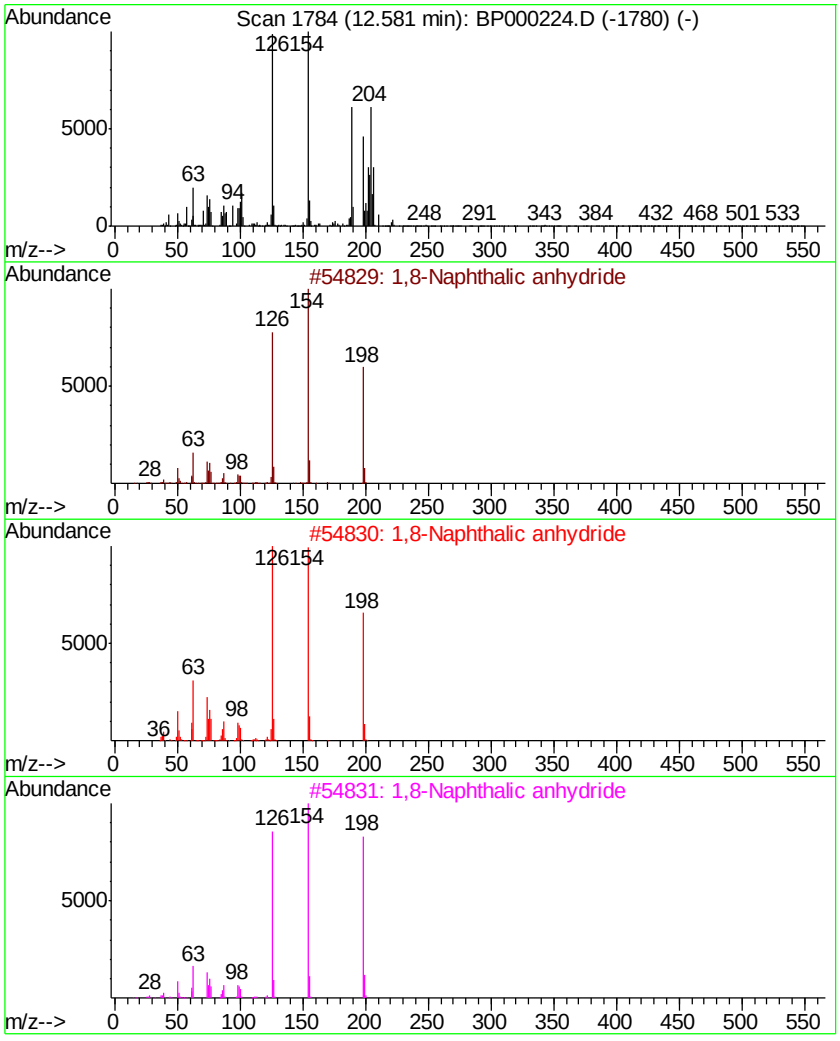
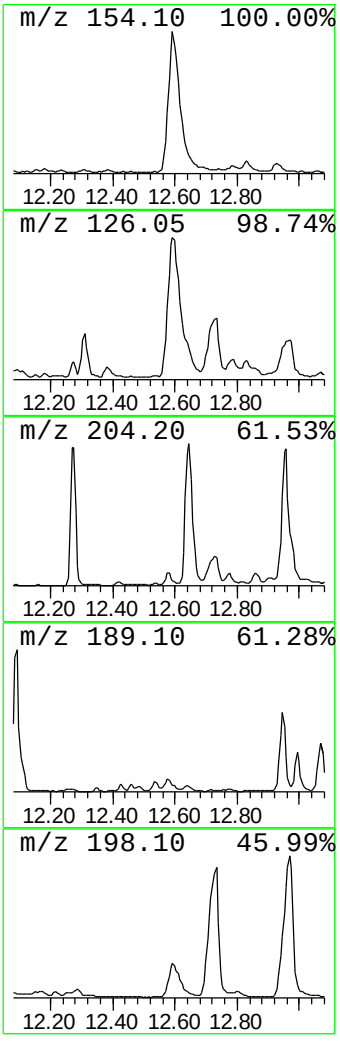
Peak Number 23 1,8-Naphthalic anhydride Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.58	8.81 ng/ul	1189730	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,8-Naphthalic anhydride	198	C12H6O3	000081-84-5	96
2	1,8-Naphthalic anhydride	198	C12H6O3	000081-84-5	91
3	1,8-Naphthalic anhydride	198	C12H6O3	000081-84-5	91
4	1,8-Naphthalic anhydride	198	C12H6O3	000081-84-5	91
5	Benzene,1,4-diethynyl-	126	C10H6	000935-14-8	25





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ClientSampleId : F2D07

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Quant Title : SVOA CALIBRATION

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

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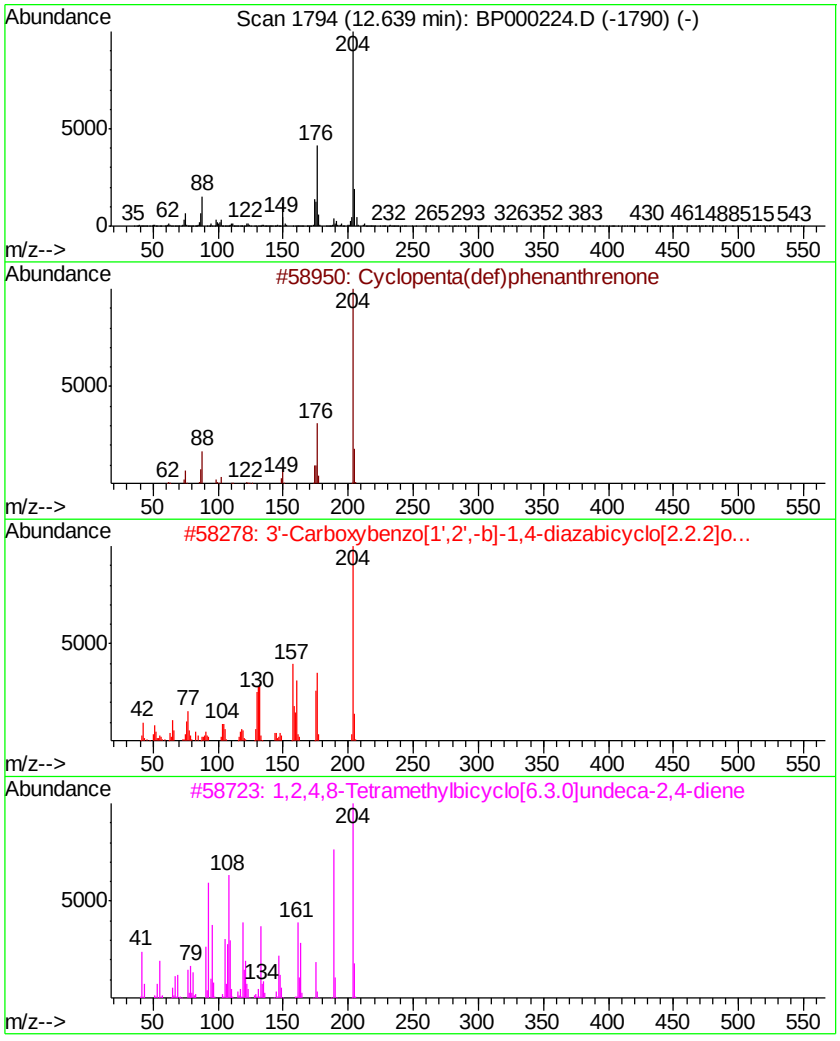
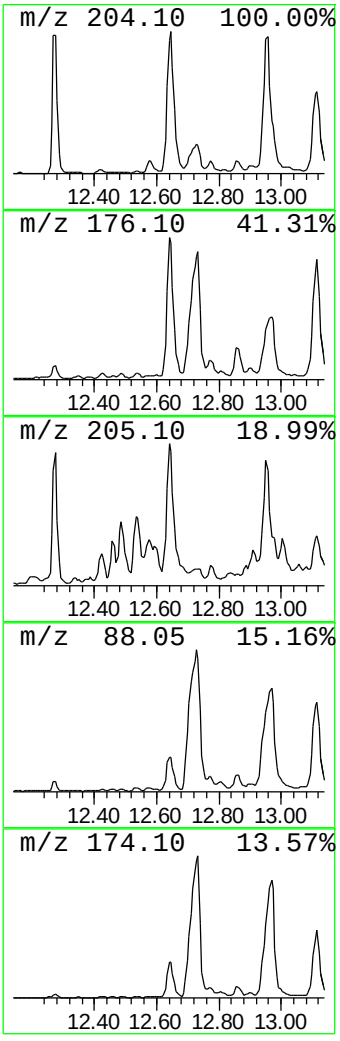
Peak Number 24 Cyclopenta(def)phenanthrenone Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.64	18.65 ng/ul	2517210	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	96
2	3'-Carboxybenzo[1',2',-b]-1,4-di...	204	C11H12N2O2	138023-41-3	52
3	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	49
4	(E)-Ethyl 3-oxo-2-(pyrid-2-yl)me...	219	C12H13NO3	1000147-59-7	45
5	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	40





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Quant Title : SVOA CALIBRATION

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

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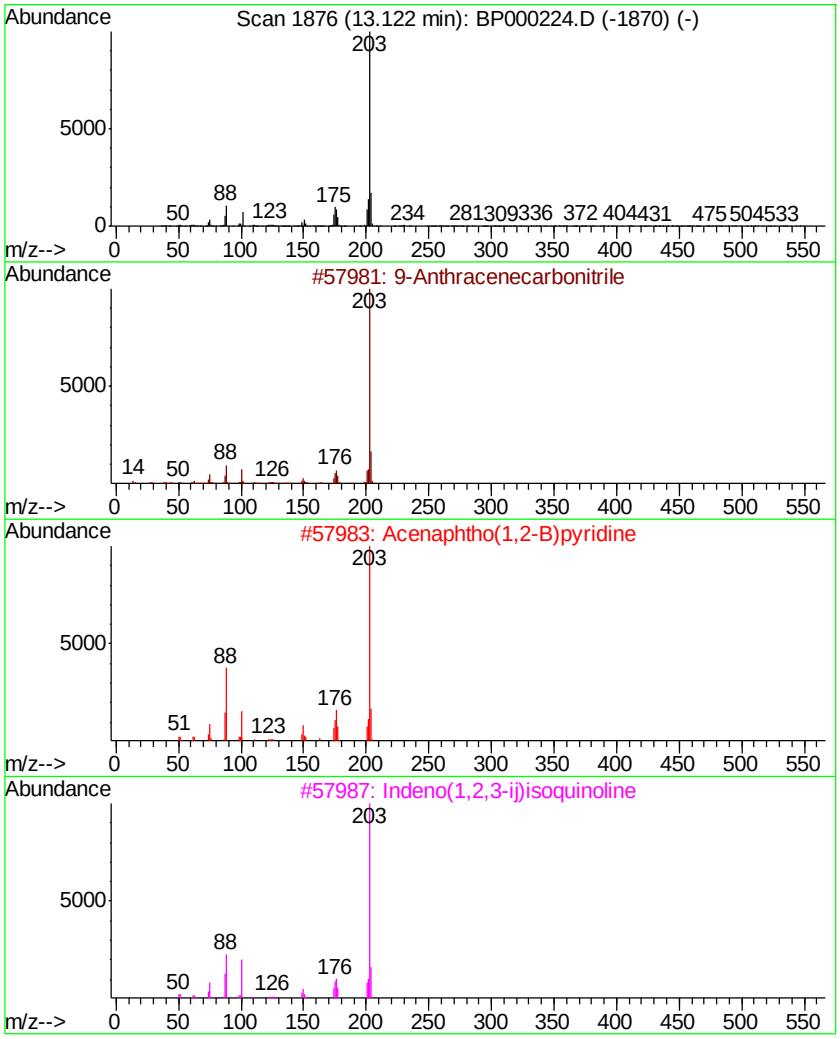
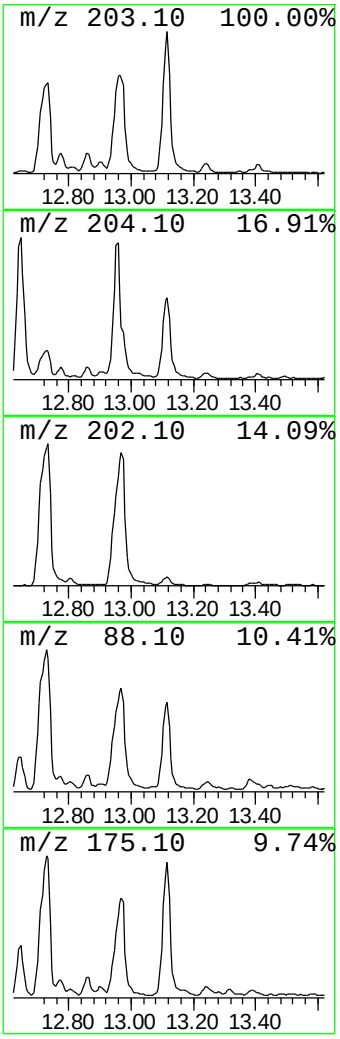
Peak Number 26 9-Anthracenecarbonitrile Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.12	2.99 ng/ul	5426850	Chrysene-d12	14.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-Anthracenecarbonitrile	203	C15H9N	001210-12-4	97
2	Acenaphtho(1,2-B)pyridine	203	C15H9N	000206-49-5	97
3	Indeno(1,2,3-ij)isoquinoline	203	C15H9N	000206-56-4	96
4	9-(Cyanomethylene)fluorene	203	C15H9N	004425-74-5	96
5	4-Azapyrene	203	C15H9N	000194-03-6	94





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TIC Integration Parameters: LSCINT.P

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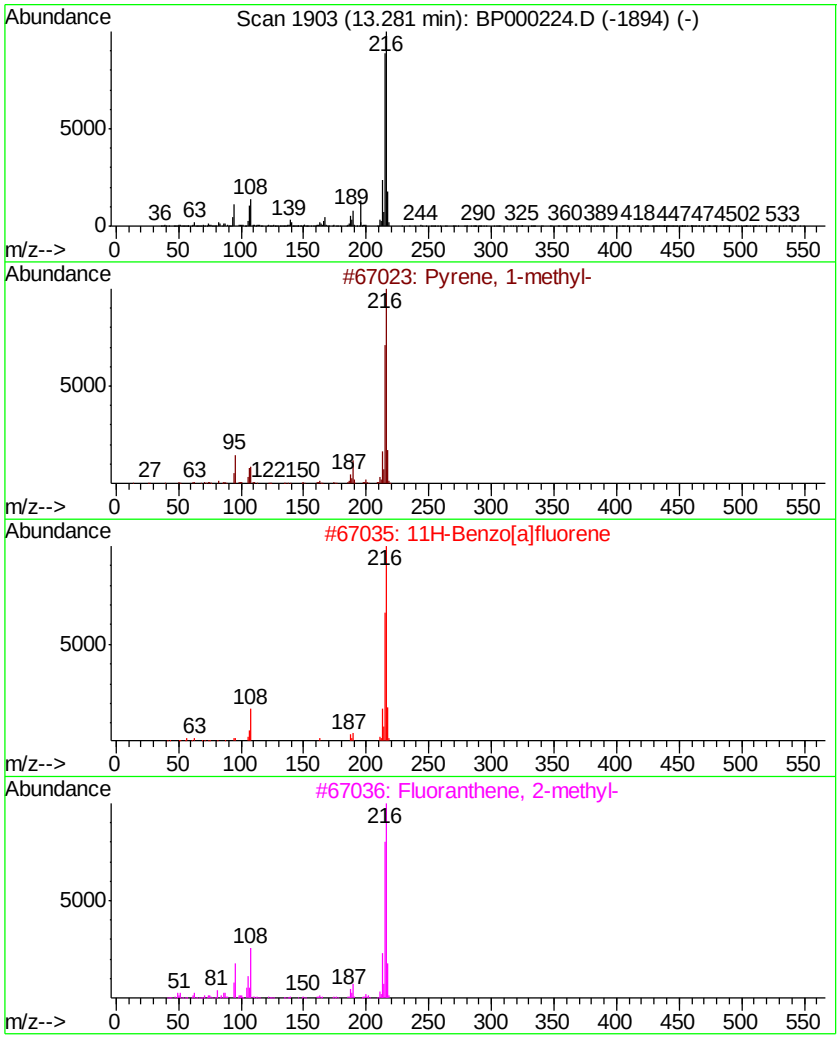
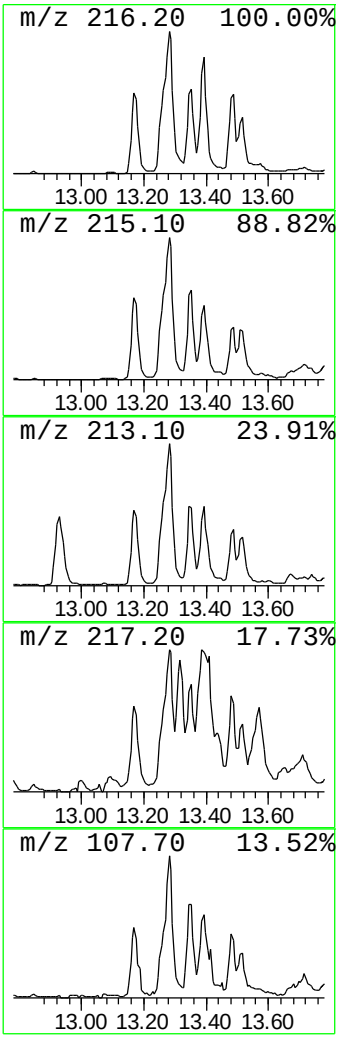
Peak Number 27 Pyrene, 1-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.28	4.53 ng/ul	8223810	Chrysene-d12	14.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	90
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90





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Quant Title : SVOA CALIBRATION

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TIC Integration Parameters: LSCINT.P

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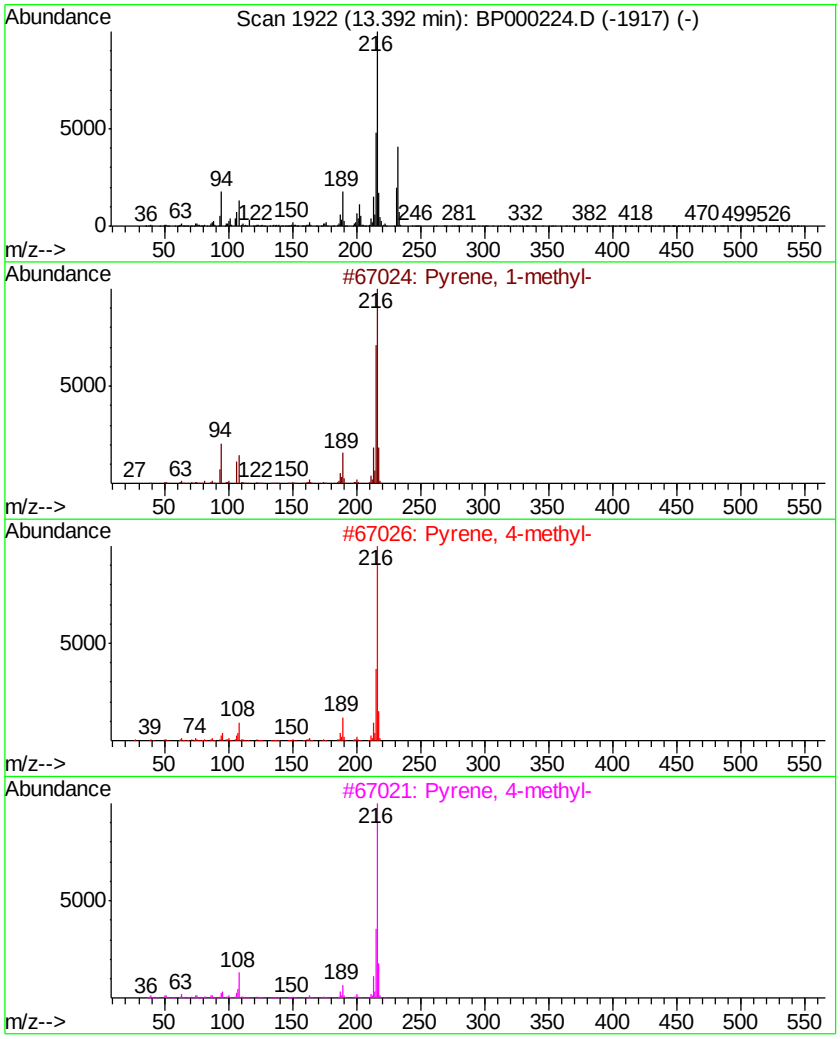
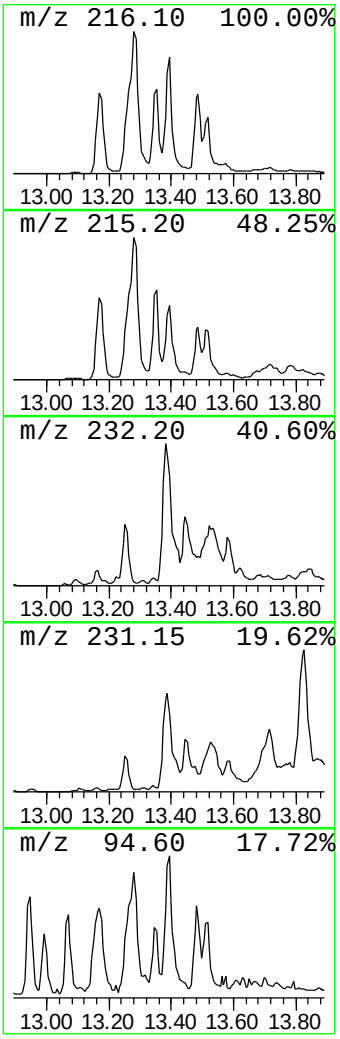
Peak Number 28 Pyrene, 4-methyl- Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.39	2.97 ng/ul	5392980	Chrysene-d12	14.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	95
2	Pyrene, 4-methyl-	216	C17H12	003353-12-6	91
3	Pyrene, 4-methyl-	216	C17H12	003353-12-6	91
4	Pyrene, 2-methyl-	216	C17H12	003442-78-2	91
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	83





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Quant Title : SVOA CALIBRATION

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

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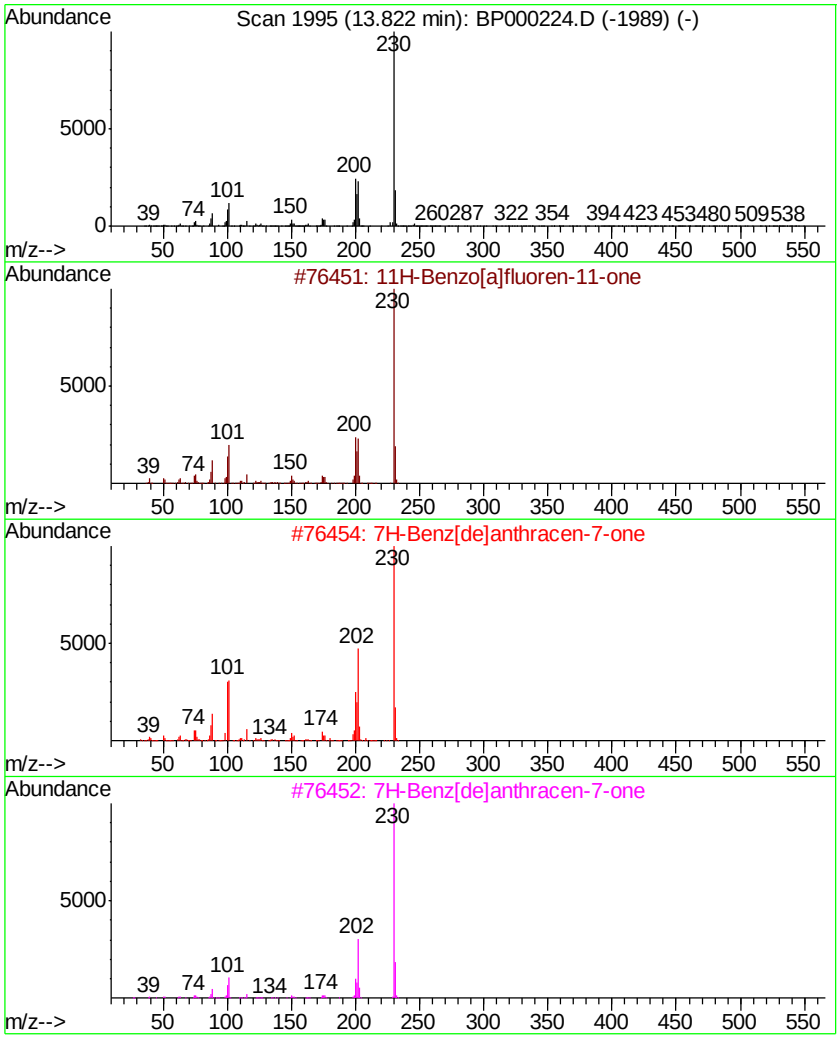
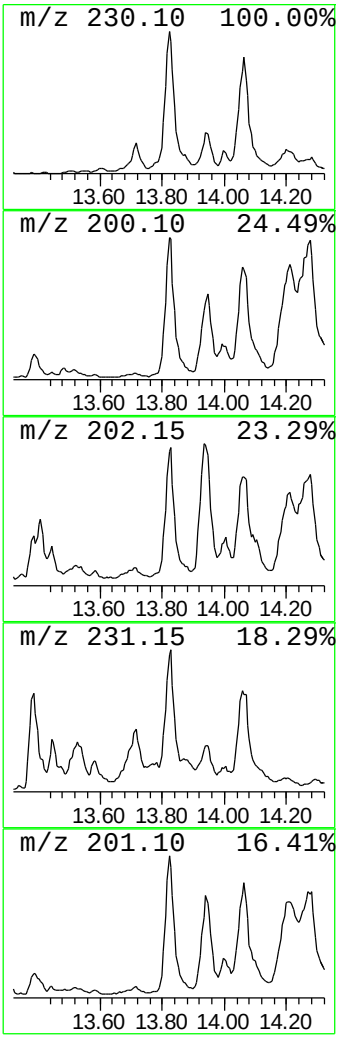
Peak Number 29 11H-Benzo[a]fluoren-11-one Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.82	3.84 ng/ul	6975700	Chrysene-d12	14.22

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	87
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	68





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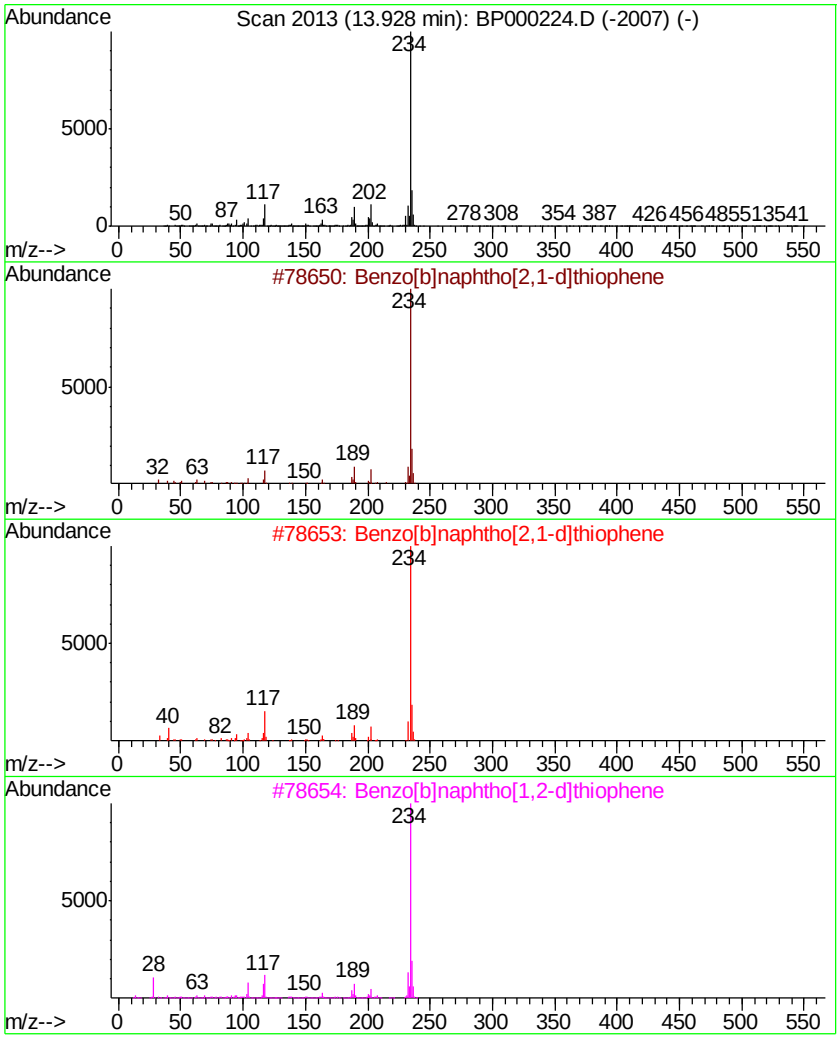
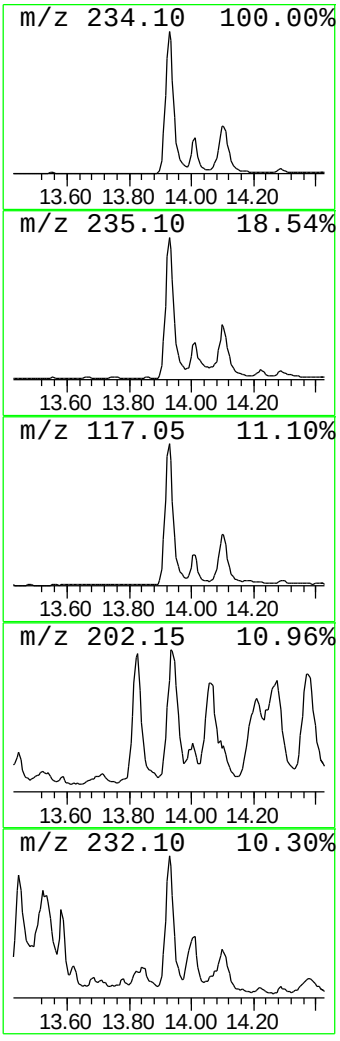
Peak Number 30 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.93	4.57 ng/ul	8297100	Chrysene-d12	14.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	95
2	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	94
3	Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	90
4	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	87
5	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	87





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000224.D
Acq On : 12 Sep 2019 19:20
Operator : HP/JU
Sample : K4633-09
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D07

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

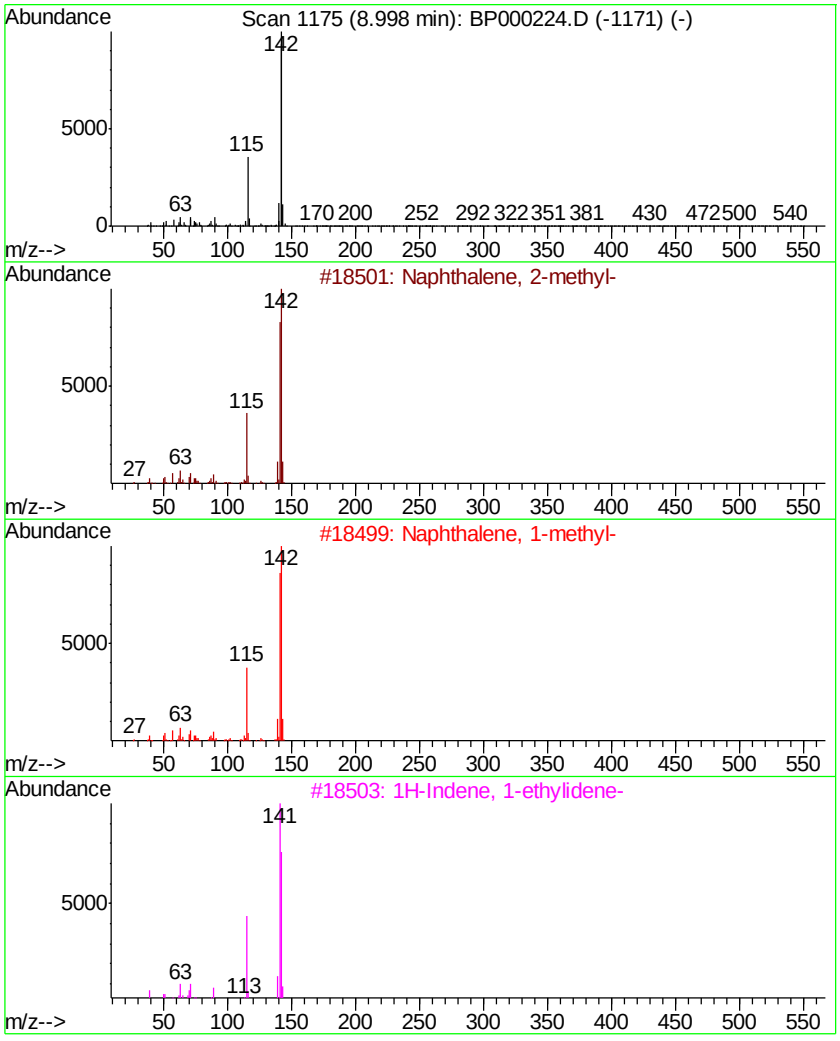
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

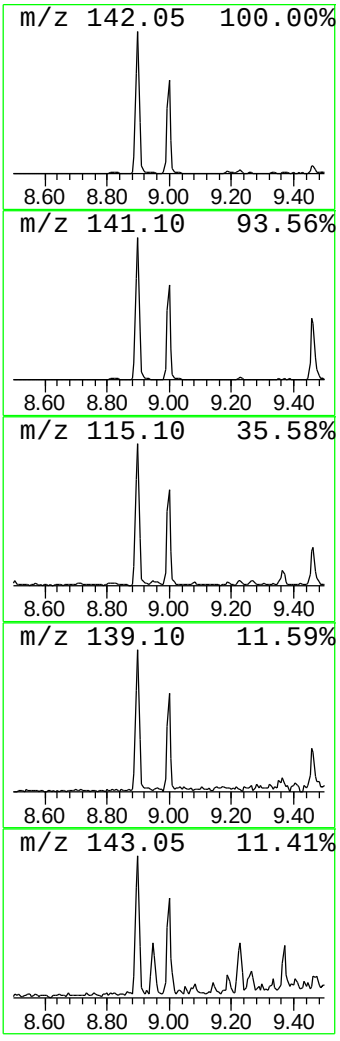
****

Peak Number 33 Naphthalene, 1-methyl- Concentration Rank 33

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.00	1.40 ng/ul	179073	Naphthalene-d8	8.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	96
2	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	96
3	1H-Indene, 1-ethylidene-	142	C11H10	002471-83-2	94
4	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	94
5	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	94





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_P\DATA\BP091219\
Data File : BP000224.D
Acq On : 12 Sep 2019 19:20
Operator : HP/JU
Sample : K4633-09
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D07

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Butane, 2-methoxy...	2.17	125.2	ng/ul	11979400	1	6.90	1912980	20.0
6H-Dibenzo[b,d]-p...	10.75	2.6	ng/ul	352000	4	11.46	2699670	20.0
1(2H)-Acenaphthyl...	10.87	4.1	ng/ul	556501	4	11.46	2699670	20.0
unknown-01	11.05	2.2	ng/ul	297672	4	11.46	2699670	20.0
9H-Fluoren-9-one	11.26	7.8	ng/ul	1049610	4	11.46	2699670	20.0
Anthracene, 1,2,3...	11.32	4.3	ng/ul	582179	4	11.46	2699670	20.0
Dibenzothiophene	11.35	8.0	ng/ul	1078130	4	11.46	2699670	20.0
Anthracene, 9-eth...	11.76	2.3	ng/ul	316505	4	11.46	2699670	20.0
unknown-02	11.80	2.7	ng/ul	358701	4	11.46	2699670	20.0
Benzene, 1-methox...	11.87	2.1	ng/ul	286733	4	11.46	2699670	20.0
Phenanthrene, 2-m...	11.97	14.3	ng/ul	1936250	4	11.46	2699670	20.0
Phenanthrene, 1-m...	12.00	25.0	ng/ul	3369880	4	11.46	2699670	20.0
Anthracene, 2-met...	12.05	6.0	ng/ul	816238	4	11.46	2699670	20.0
4H-Cyclopenta[def...	12.09	35.9	ng/ul	4851830	4	11.46	2699670	20.0
3-Methylcarbazole	12.15	2.4	ng/ul	319014	4	11.46	2699670	20.0
9H-Carbazole, 2-m...	12.18	2.6	ng/ul	347970	4	11.46	2699670	20.0
unknown-03	12.21	2.4	ng/ul	319465	4	11.46	2699670	20.0
Naphthalene, 2-ph...	12.27	11.3	ng/ul	1523140	4	11.46	2699670	20.0
9,10-Anthracenedione	12.31	12.8	ng/ul	1722780	4	11.46	2699670	20.0
Phenanthrene, 4,5...	12.42	2.5	ng/ul	338783	4	11.46	2699670	20.0
trans-.beta.-Cyan...	12.49	2.8	ng/ul	371397	4	11.46	2699670	20.0
1,8-Naphthalic an...	12.58	8.8	ng/ul	1189730	4	11.46	2699670	20.0
Cyclopenta(def)ph...	12.64	18.6	ng/ul	2517210	4	11.46	2699670	20.0
9-Anthracenecarbo...	13.12	3.0	ng/ul	5426850	5	14.22	36318700	20.0
Pyrene, 1-methyl-	13.28	4.5	ng/ul	8223810	5	14.22	36318700	20.0
Pyrene, 4-methyl-	13.39	3.0	ng/ul	5392980	5	14.22	36318700	20.0
11H-Benzo[a]fluor...	13.82	3.8	ng/ul	6975700	5	14.22	36318700	20.0
Benzo[b]naphtho[2...	13.93	4.6	ng/ul	8297100	5	14.22	36318700	20.0
Naphthalene, 1-me...	9.00	1.4	ng/ul	179073	2	8.18	2565700	20.0