LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP111119\
Data File : BP001030.D
Acq On : 11 Nov 2019 22:10
Operator : JU
Sample : K5777-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : AOC-7-NORTH-(10)

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_P\METHODS\8270-BP110619.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.740	616	621	637	rBV	501132	811483	4.90%	0.262%
2	6.311	708	718	722	rBV	3570528	4479513	27.05%	1.445%
3	6.634	765	773	793	rBV	3223398	5028620	30.36%	1.622%
4	7.816	968	974	980	rVB	3359005	4889567	29.52%	1.577%
5	8.016	1002	1008	1012	rVB	3870658	4891275	29.53%	1.577%
6	8.134	1017	1028	1034	rBV	5057014	7334318	44.29%	2.365%
7	8.193	1034	1038	1050	rVB	2573102	3210450	19.39%	1.035%
8	8.375	1064	1069	1076	rVB	1282036	1409233	8.51%	0.454%
9	8.616	1104	1110	1114	rVV	3029285	3484237	21.04%	1.124%
10	8.787	1133	1139	1154	rBV	3901099	5105807	30.83%	1.647%
11	9.252	1212	1218	1222	rVV	2567143	3405299	20.56%	1.098%
12	9.363	1231	1237	1245	rBV	1717361	2917067	17.61%	0.941%
13	9.434	1245	1249	1254	rVB	1311689	1415163	8.54%	0.456%
14	9.740	1292	1301	1305	rBV2	4815663	7772416	46.93%	2.507%
15	10.022	1341	1349	1353	rBV	1515833	2253845	13.61%	0.727%
16	10.063	1353	1356	1358	rVV	780412	970126	5.86%	0.313%
17	10.093	1358	1361	1366	rVV	2840889	3398386	20.52%	1.096%
18	10.404	1410	1414	1416	rVV	1334861	1592907	9.62%	0.514%
19	10.440	1416	1420	1424	rVB	2651786	3079372	18.59%	0.993%
20	10.787	1472	1479	1483	rBV	4301871	5402932	32.62%	1.742%
21	10.875	1485	1494	1500	rVB2	4105559	5875724	35.48%	1.895%
22	11.569	1605	1612	1616	rBV3	4900846	7249923	43.78%	2.338%
23	11.699	1630	1634	1636	rBV	1549589	1850326	11.17%	0.597%
24	11.728	1636	1639	1642	rVV	3416771	3789346	22.88%	1.222%
25	11.887	1659	1666	1673	rBV2	901301	1836202	11.09%	0.592%
26	12.051	1689	1694	1698	rBV	1336087	1606183	9.70%	0.518%
27	12.181	1710	1716	1723	rBV	4277700	5220323	31.52%	1.684%
28	12.340	1737	1743	1745	rBV	654945	833335	5.03%	0.269%
29	12.375	1745	1749	1753	rVB	2163521	2525898	15.25%	0.815%
30	12.593	1782	1786	1788	rVV	1459838	2089328	12.62%	0.674%
31	12.722	1803	1808	1812	rVB	2388649	3066745	18.52%	0.989%
32	12.763	1812	1815	1818	rVB	1460960	1518066	9.17%	0.490%
33	12.822	1818	1825	1828	rBV	1553092	1882638	11.37%	0.607%
34	12.910	1835	1840	1842	rBV	1190284	1569354	9.48%	0.506%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP111119\
Data File : BP001030.D
Acq On : 11 Nov 2019 22:10
Operator : JU
Sample : K5777-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : AOC-7-NORTH-(10)

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_P\METHODS\8270-BP110619.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	12.934	1842	1844	1850	rVB2	1009640	1034418	6.25%	0.334%
36	13.034	1856	1861	1866	rVB2	2317581	3064155	18.50%	0.988%
37	13.193	1884	1888	1892	rBV	633065	853414	5.15%	0.275%
38	13.263	1896	1900	1904	rVV	2472751	3008156	18.16%	0.970%
39	13.316	1904	1909	1913	rVV3	720156	1135067	6.85%	0.366%
40	13.681	1967	1971	1975	rVB	695553	842145	5.08%	0.272%
41	13.798	1985	1991	1997	rVV2	587520	1335203	8.06%	0.431%
42	14.169	2049	2054	2060	rVB	3192230	4033674	24.36%	1.301%
43	14.434	2095	2099	2102	rBV	536654	819295	4.95%	0.264%
44	14.557	2115	2120	2129	rVV2	3250023	4577282	27.64%	1.476%
45	14.945	2182	2186	2192	rVB	781822	913933	5.52%	0.295%
46	15.069	2200	2207	2210	rBV	1231416	2028068	12.25%	0.654%
47	15.110	2210	2214	2219	rVB2	676802	937908	5.66%	0.302%
48	15.363	2252	2257	2262	rVB2	715217	1116694	6.74%	0.360%
49	15.498	2276	2280	2284	rVB	1547564	1756875	10.61%	0.567%
50	15.663	2303	2308	2310	rBV	1446239	1940686	11.72%	0.626%
51	15.710	2310	2316	2320	rVB	10949135	16561474	100.00%	5.341%
52	15.775	2320	2327	2332	rVB	2666297	3348645	20.22%	1.080%
53	16.128	2384	2387	2390	rVV	628849	812215	4.90%	0.262%
54	16.163	2390	2393	2396	rVB2	1268874	1433275	8.65%	0.462%
55	16.287	2410	2414	2418	rVB	794713	1092626	6.60%	0.352%
56	16.422	2431	2437	2440	rVV	4799615	5976212	36.09%	1.927%
57	16.463	2440	2444	2448	rVB	5509397	6305565	38.07%	2.034%
58	16.522	2448	2454	2458	rBV	1184387	1763784	10.65%	0.569%
59	16.569	2458	2462	2466	rVV	5231338	6984862	42.18%	2.253%
60	16.610	2466	2469	2472	rVB	3679662	3673171	22.18%	1.185%
61	16.851	2504	2510	2519	rVB3	2212024	4250088	25.66%	1.371%
62	17.098	2549	2552	2555	rBV	1048105	1037610	6.27%	0.335%
63	17.210	2565	2571	2574	rBV	2347162	3512968	21.21%	1.133%
64	17.251	2574	2578	2581	rBV	1563980	1945157	11.75%	0.627%
65	17.304	2585	2587	2590	rBV	631985	873078	5.27%	0.282%
66	17.416	2600	2606	2609	rBV	7299043	8620728	52.05%	2.780%
67	17.498	2615	2620	2623	rBV3	941627	1301924	7.86%	0.420%
68	17.534	2623	2626	2629	rVB2	1027541	1087631	6.57%	0.351%
69	17.604	2634	2638	2641	rBV2	984258	1224728	7.40%	0.395%
70	17.728	2652	2659	2662	rVV	9866733	13878927	83.80%	4.476%
71	17.769	2662	2666	2671	rVV6	483640	988773	5.97%	0.319%

LSC Area Percent Report

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Acq On : 11 Nov 2019 22:10
Operator : JU
Sample : K5777-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : AOC-7-NORTH-(10)

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_P\METHODS\8270-BP110619.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	17.939	2689	2695	2699	rBV	4232766	4888979	29.52%	1.577%
73	18.022	2704	2709	2715	rBV2	1854073	3141173	18.97%	1.013%
74	18.133	2723	2728	2731	rBV2	1401583	2664558	16.09%	0.859%
75	18.163	2731	2733	2738	rVB	2714805	2980462	18.00%	0.961%
76	18.257	2745	2749	2753	rVV	1657008	1958273	11.82%	0.632%
77	18.304	2753	2757	2762	rVB	2998085	3183116	19.22%	1.027%
78	18.422	2773	2777	2780	rVV	2132841	2289569	13.82%	0.738%
79	18.463	2780	2784	2789	rVB	2094373	2314536	13.98%	0.746%
80	18.828	2840	2846	2853	rVB3	1358669	2576552	15.56%	0.831%
81	18.969	2866	2870	2875	rBV2	1553039	2372587	14.33%	0.765%
82	19.016	2875	2878	2880	rVV	1497166	1489303	8.99%	0.480%
83	19.098	2890	2892	2898	rVB	975592	1193213	7.20%	0.385%
84	19.298	2920	2926	2930	rBV2	5339041	9614446	58.05%	3.101%
85	19.339	2930	2933	2936	rVV	4789845	5927617	35.79%	1.912%
86	19.480	2952	2957	2960	rBV2	1208854	1538627	9.29%	0.496%
87	19.810	3007	3013	3016	rVV	2511408	3174459	19.17%	1.024%
88	19.851	3016	3020	3024	rVB	1568274	1725734	10.42%	0.557%
89	19.922	3030	3032	3036	rVB2	941944	907356	5.48%	0.293%
90	19.963	3036	3039	3042	rBV2	888778	1129848	6.82%	0.364%
91	20.492	3125	3129	3137	rVB4	517953	965820	5.83%	0.311%
92	20.598	3141	3147	3151	rBV2	2934785	6023433	36.37%	1.943%
93	20.722	3164	3168	3172	rVB	816268	1001725	6.05%	0.323%
94	20.951	3201	3207	3212	rVB	2384288	3300363	19.93%	1.064%
95	21.022	3213	3219	3225	rVB	3127512	4346135	26.24%	1.402%
96	21.092	3226	3231	3234	rBV	1517538	2060535	12.44%	0.665%
97	21.298	3258	3266	3270	rBV3	423381	1140847	6.89%	0.368%
98	22.569	3477	3482	3490	rVB2	366079	988744	5.97%	0.319%
99	22.763	3507	3515	3524	rVB2	1203465	2857972	17.26%	0.922%
100	23.257	3591	3599	3611	rVB	1007080	2491994	15.05%	0.804%

Sum of corrected areas: 310083797

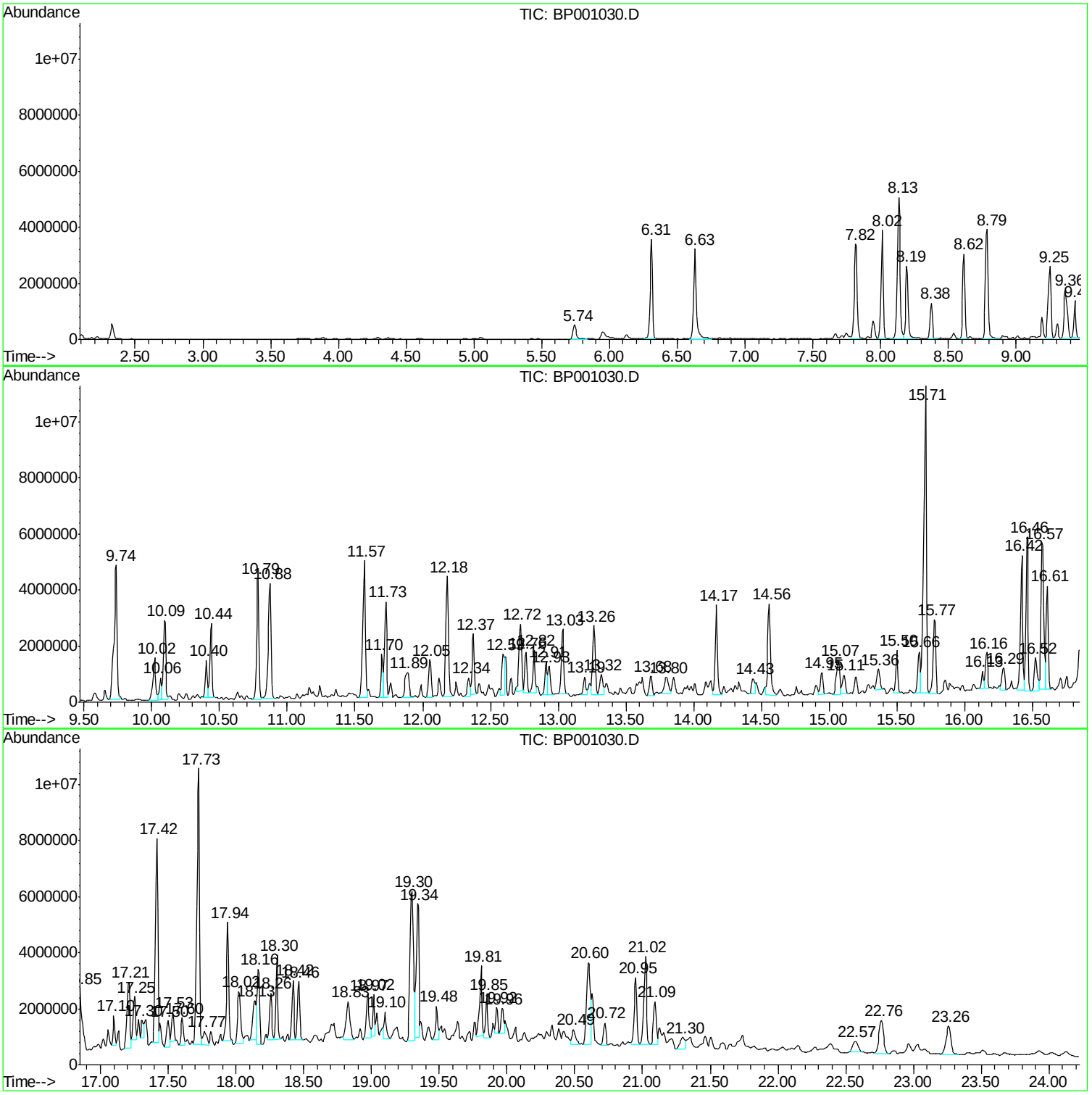
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP111119\
Data File : BP001030.D
Acq On : 11 Nov 2019 22:10
Operator : JU
Sample : K5777-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : AOC-7-NORTH-(10)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP110619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP111119\
Data File : BP001030.D
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Instrument : BNA_P
ClientSampleId : AOC-7-NORTH-(10)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP110619.M
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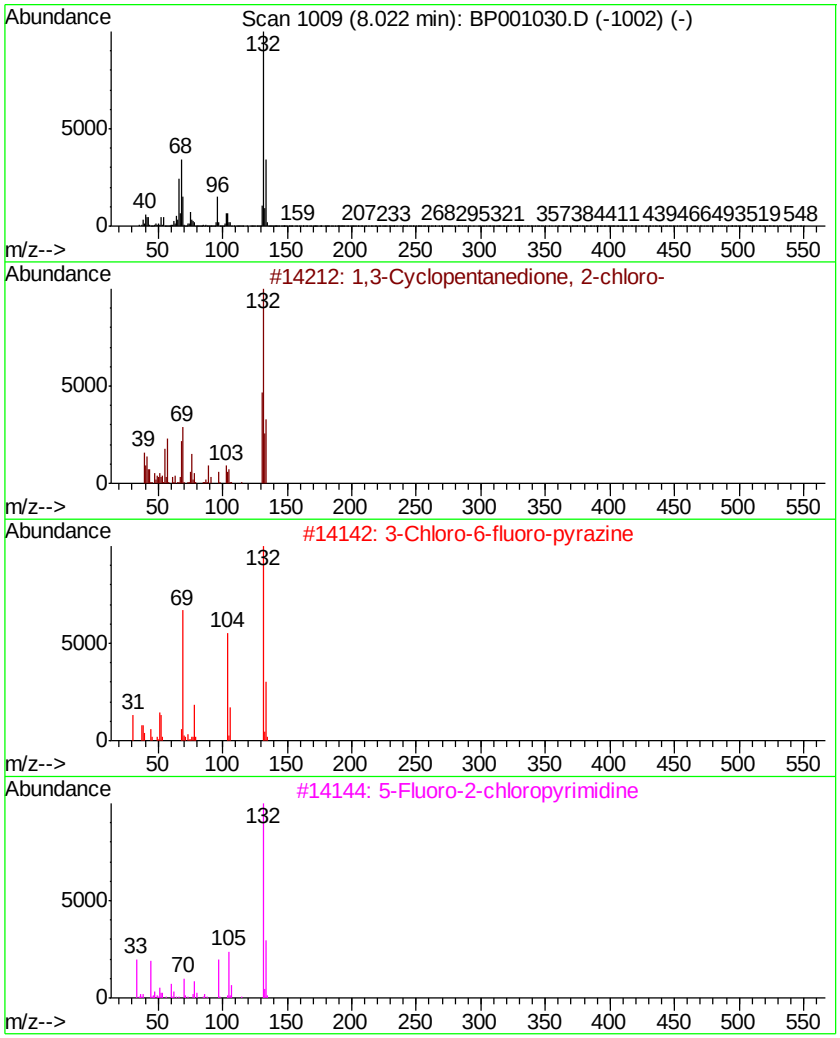
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

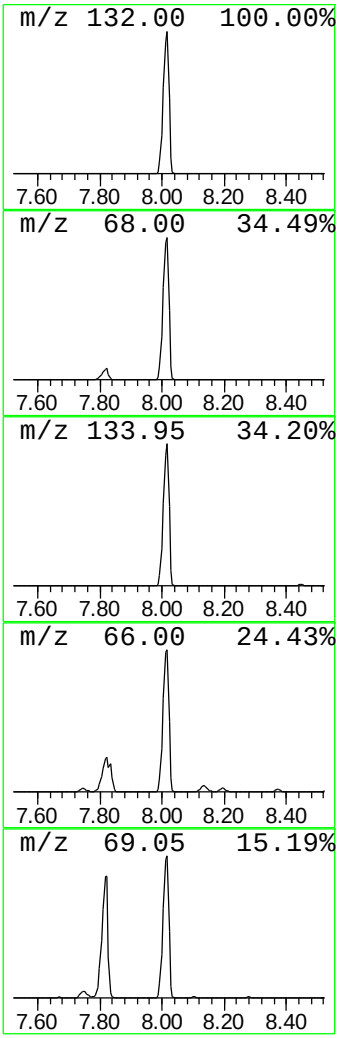
****

Peak Number 2 unknown8.02 Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.02	69.42 ng	4891280	1,4-Dichlorobenzene-d4	8.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3-Cyclopentanedione, 2-chloro-	132	C5H5ClO2	014203-19-1	38
2	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	35
3	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	17
4	5-Aminoindole	132	C8H8N2	005192-03-0	16
5	N-(-3,4-Methylenedioxyphenylisop...	267	C17H17NO2	1000378-96-6	12





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP111119\
Data File : BP001030.D
Acq On : 11 Nov 2019 22:10
Operator : JU
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Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : AOC-7-NORTH-(10)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP110619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

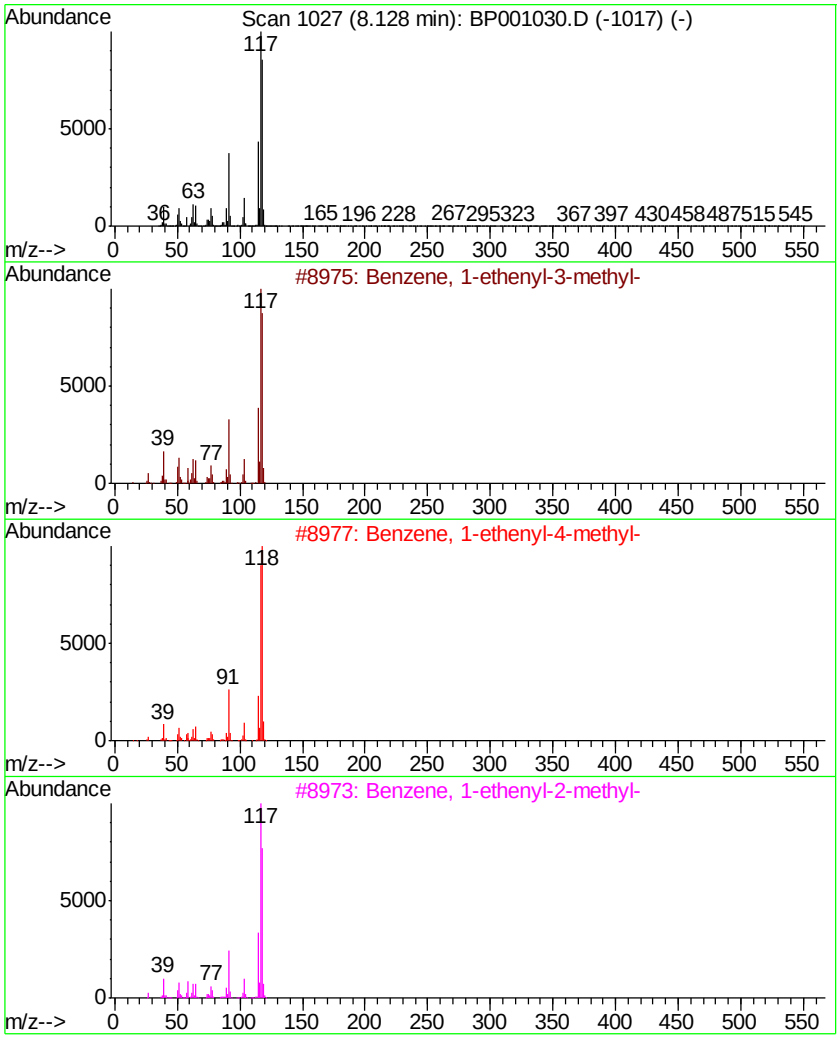
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

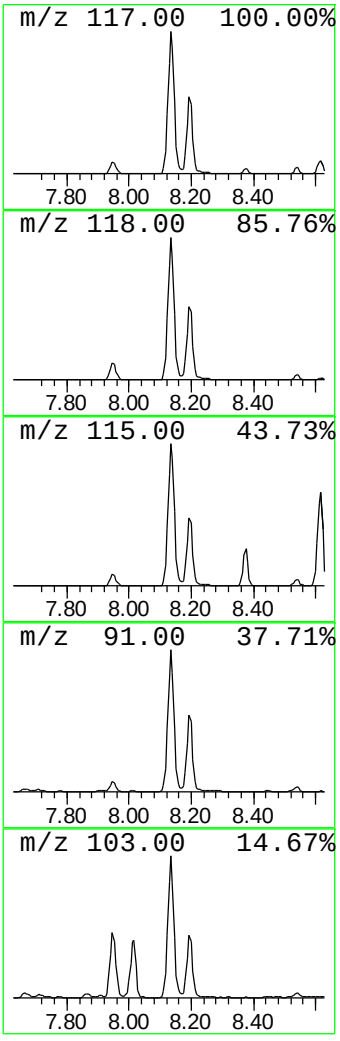
****

Peak Number 3 Benzene, 1-ethenyl-3-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.13	104.09 ng	7334320	1,4-Dichlorobenzene-d4	8.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethenyl-3-methyl-	118	C9H10	000100-80-1	96
2	Benzene, 1-ethenyl-4-methyl-	118	C9H10	000622-97-9	95
3	Benzene, 1-ethenyl-2-methyl-	118	C9H10	000611-15-4	94
4	Benzene, 1-propenyl-	118	C9H10	000637-50-3	94
5	Benzene, cyclopropyl-	118	C9H10	000873-49-4	93





Library Search Compound Report

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Data File : BP001030.D
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Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : AOC-7-NORTH-(10)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP110619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

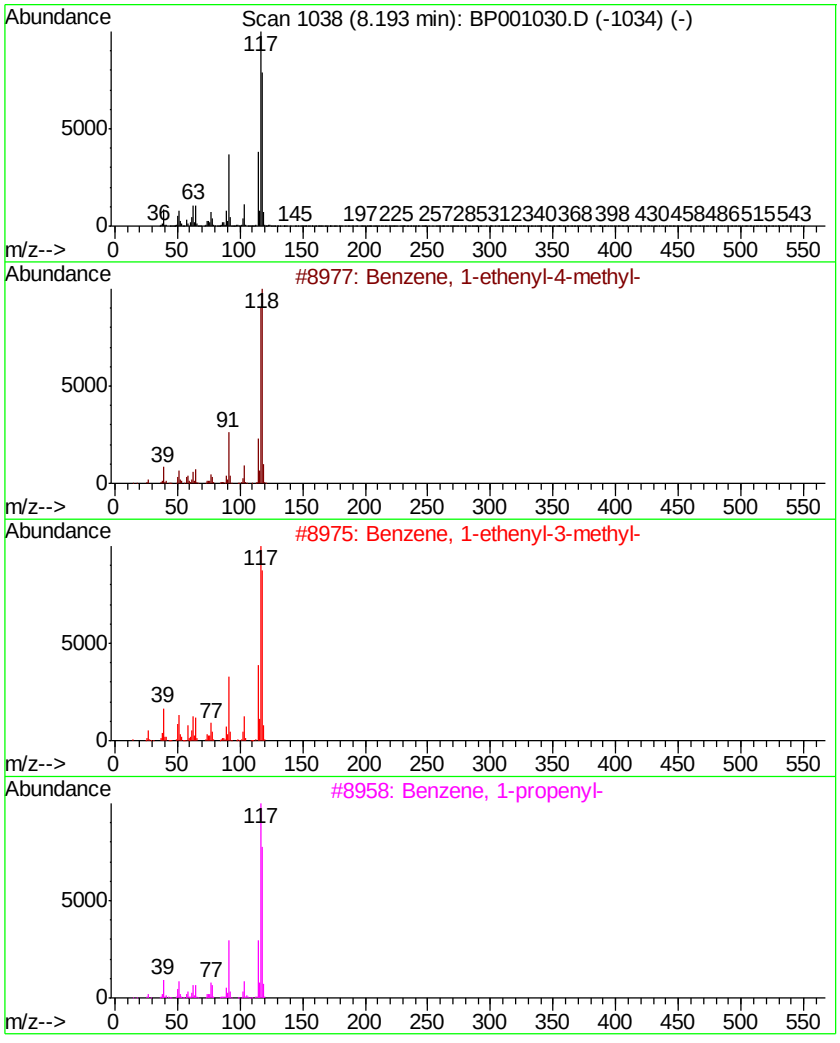
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

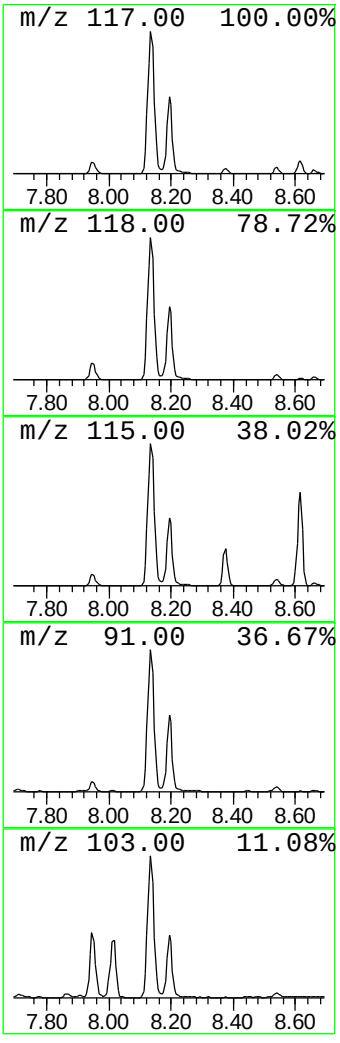
****

Peak Number 4 Benzene, 1-ethenyl-4-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.19	45.56 ng	3210450	1,4-Dichlorobenzene-d4	8.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethenyl-4-methyl-	118	C9H10	000622-97-9	95
2	Benzene, 1-ethenyl-3-methyl-	118	C9H10	000100-80-1	94
3	Benzene, 1-propenyl-	118	C9H10	000637-50-3	94
4	Benzene, 1-ethenyl-2-methyl-	118	C9H10	000611-15-4	93
5	Benzene, cyclopropyl-	118	C9H10	000873-49-4	93





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP111119\
Data File : BP001030.D
Acq On : 11 Nov 2019 22:10
Operator : JU
Sample : K5777-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : AOC-7-NORTH-(10)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP110619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

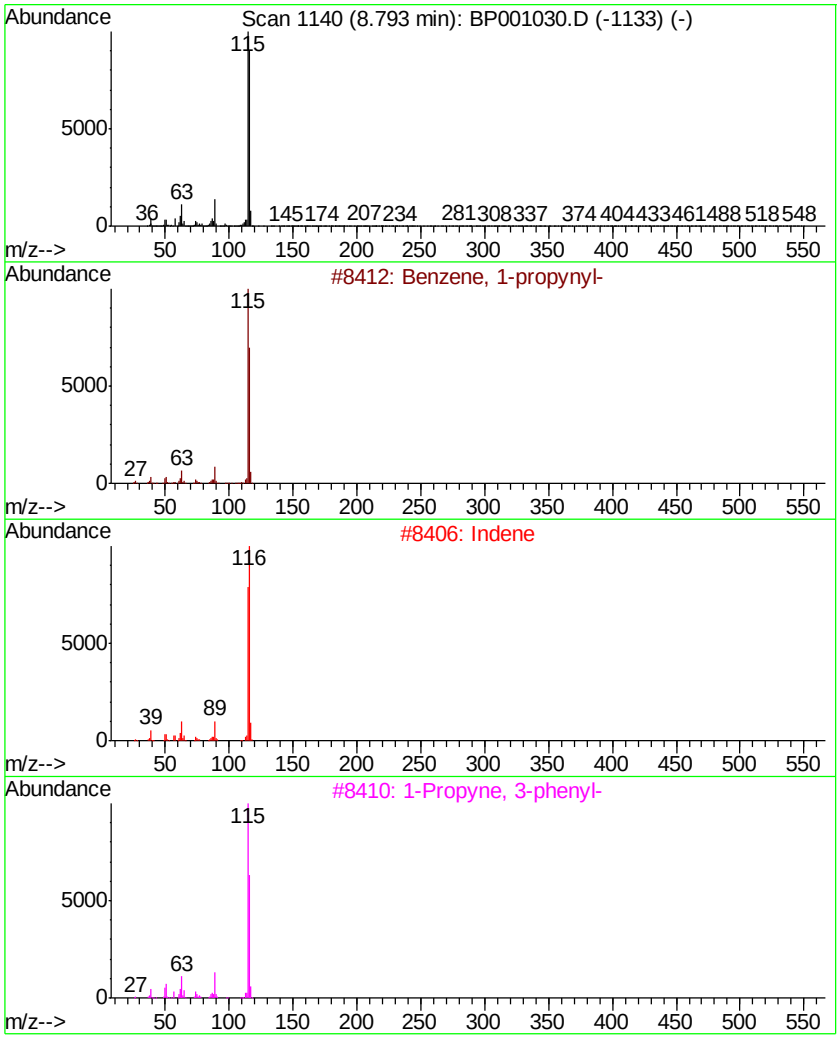
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

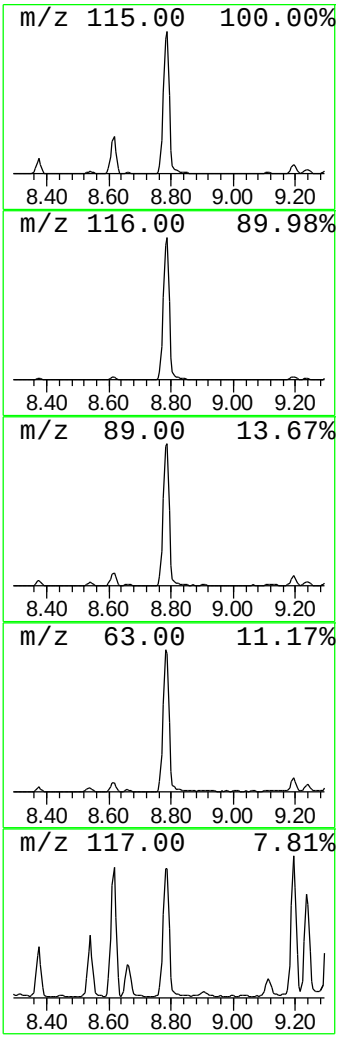
****

Peak Number 6 Benzene, 1-propynyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.79	72.46 ng	5105810	1,4-Dichlorobenzene-d4	8.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-propynyl-	116	C9H8	000673-32-5	95
2	Indene	116	C9H8	000095-13-6	94
3	1-Propyne, 3-phenyl-	116	C9H8	010147-11-2	94
4	Benzene, 1,2-propadienyl-	116	C9H8	002327-99-3	91
5	3-Methylphenylacetylene	116	C9H8	000766-82-5	91





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP111119\
Data File : BP001030.D
Acq On : 11 Nov 2019 22:10
Operator : JU
Sample : K5777-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : AOC-7-NORTH-(10)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP110619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

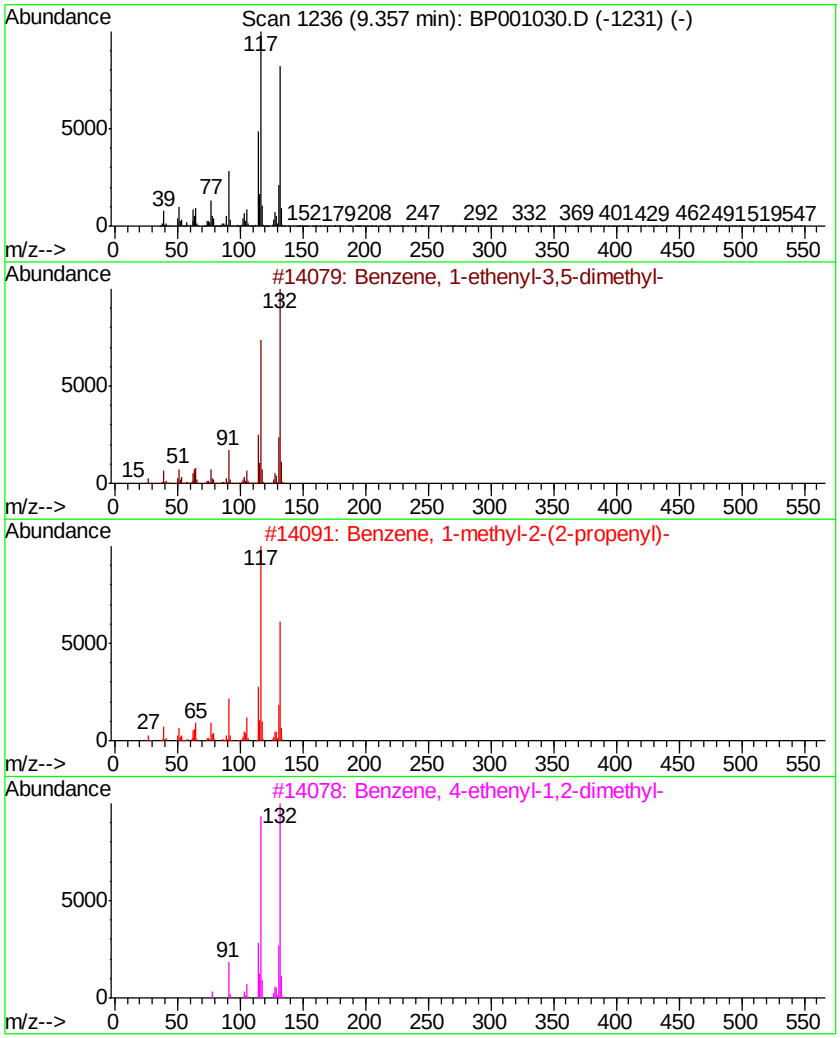
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

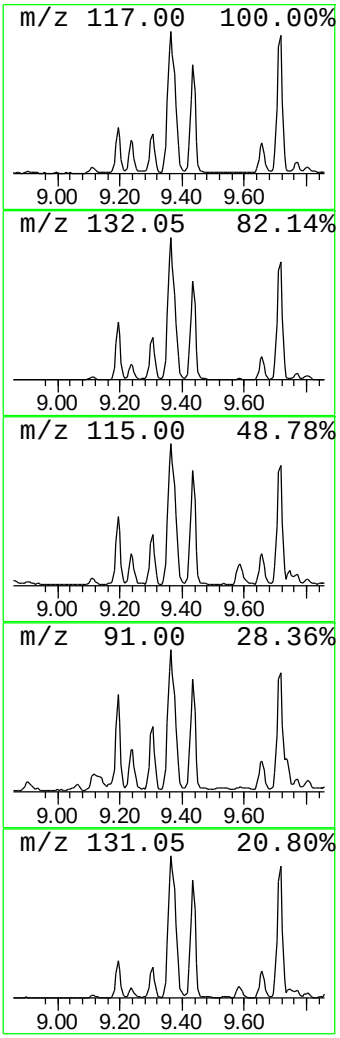
****

Peak Number 7 Benzene, 1-ethenyl-3,5-dime... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.36	41.40 ng	2917070	1,4-Dichlorobenzene-d4	8.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethenyl-3,5-dimethyl-	132	C10H12	005379-20-4	95
2	Benzene, 1-methyl-2-(2-propenyl)-	132	C10H12	001587-04-8	95
3	Benzene, 4-ethenyl-1,2-dimethyl-	132	C10H12	027831-13-6	95
4	Benzene, (2-methyl-2-propenyl)-	132	C10H12	003290-53-7	95
5	o-Isopropenyltoluene	132	C10H12	007399-49-7	94





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Acq On : 11 Nov 2019 22:10
Operator : JU
Sample : K5777-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : AOC-7-NORTH-(10)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP110619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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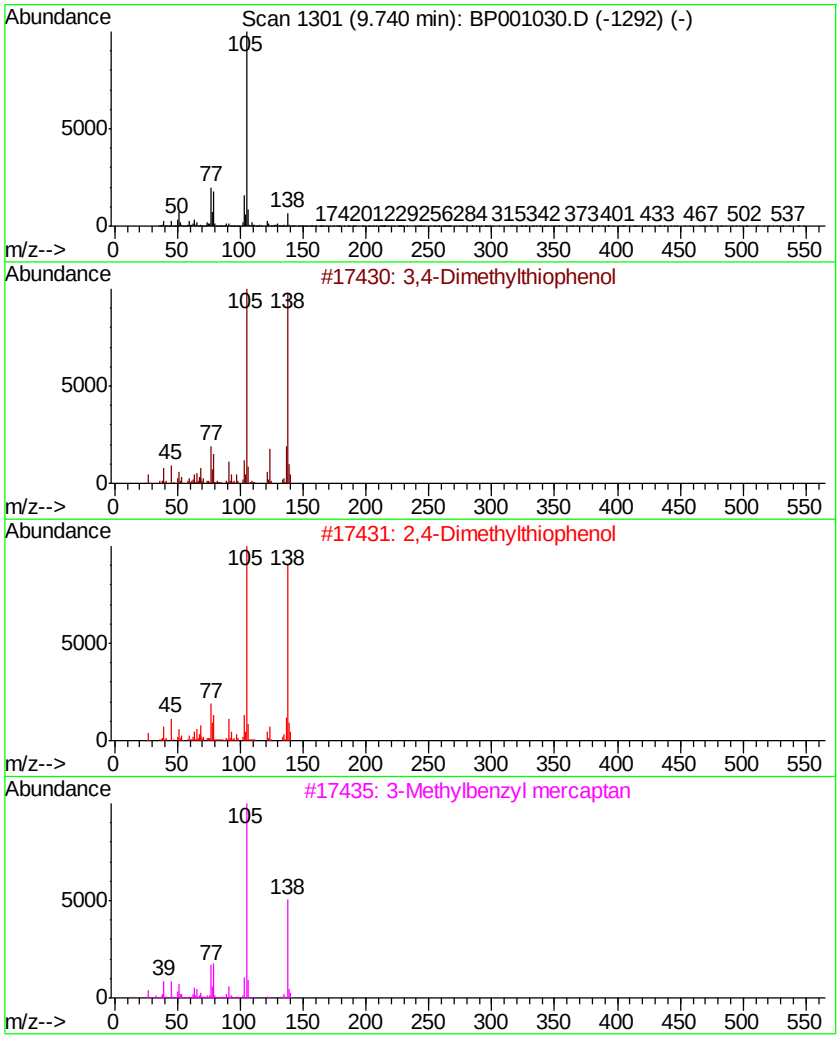
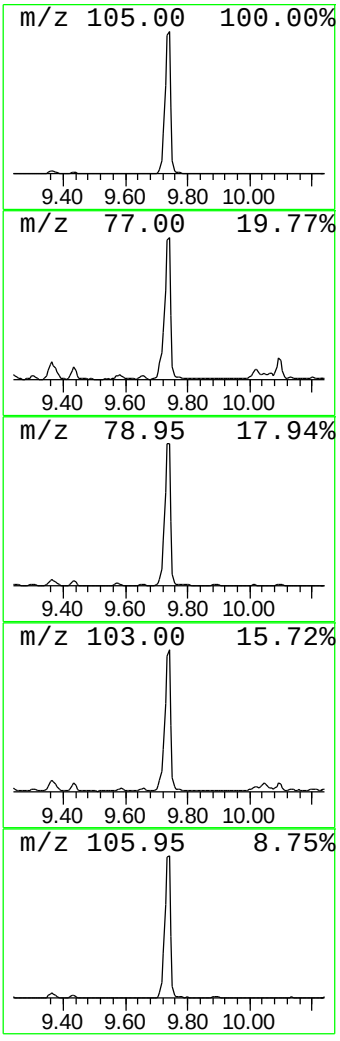
Peak Number 8 3,4-Dimethylthiophenol Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.74	97.59 ng	7772420	Naphthalene-d8	10.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,4-Dimethylthiophenol	138	C8H10S	018800-53-8	78
2	2,4-Dimethylthiophenol	138	C8H10S	013616-82-5	78
3	3-Methylbenzyl mercaptan	138	C8H10S	025697-56-7	72
4	3,5-Dimethylthiophenol	138	C8H10S	038360-81-5	72
5	Ether, p-methylbenzyl vinyl	148	C10H12O	026437-10-5	59





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Sample : K5777-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : AOC-7-NORTH-(10)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP110619.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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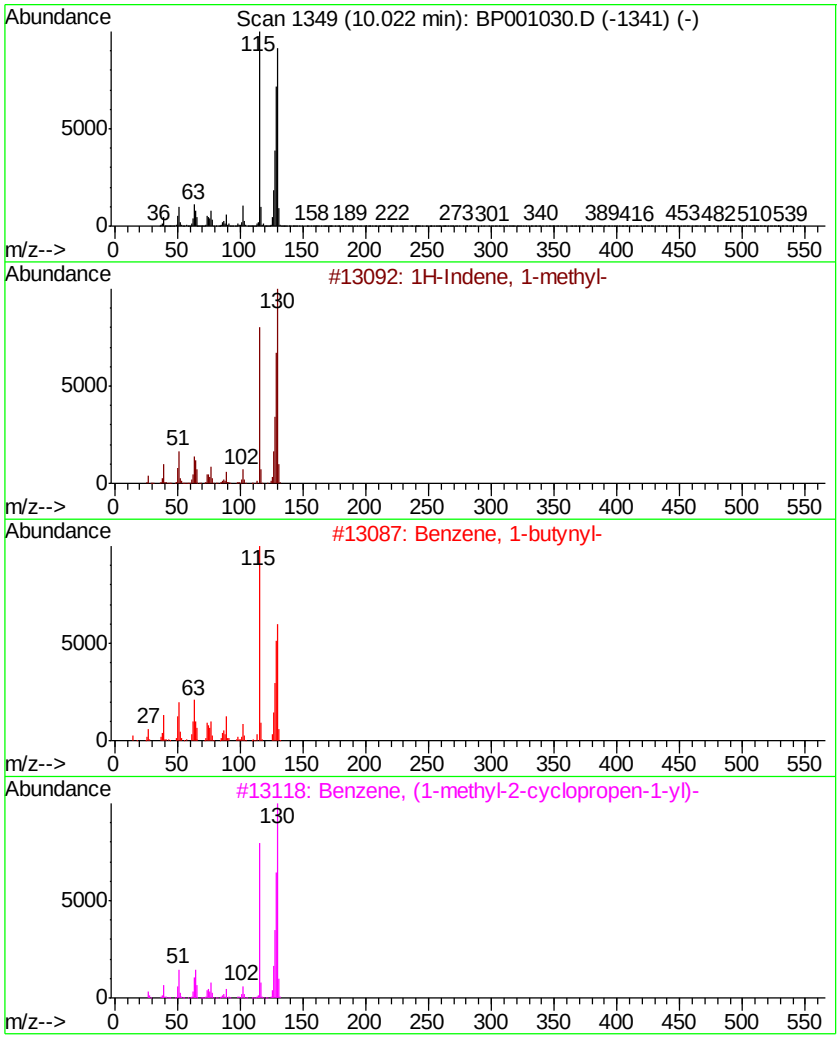
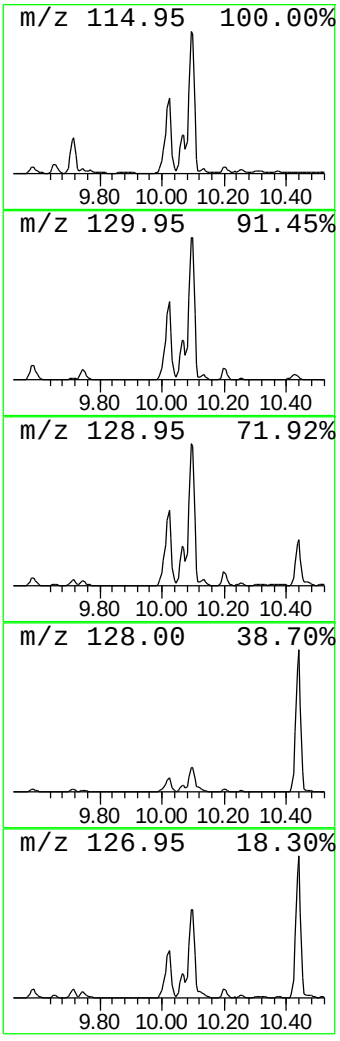
Peak Number 9 1H-Indene, 1-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.02	28.30 ng	2253850	Naphthalene-d8	10.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 1-methyl-	130	C10H10	000767-59-9	95
2	Benzene, 1-butynyl-	130	C10H10	000622-76-4	93
3	Benzene, (1-methyl-2-cyclopropen...	130	C10H10	065051-83-4	91
4	2-Methylindene	130	C10H10	002177-47-1	91
5	Cycloprop[a]indene, 1,1a,6,6a-te...	130	C10H10	015677-15-3	91





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Operator : JU
Sample : K5777-05
Misc :
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Instrument : BNA_P
ClientSampleId : AOC-7-NORTH-(10)

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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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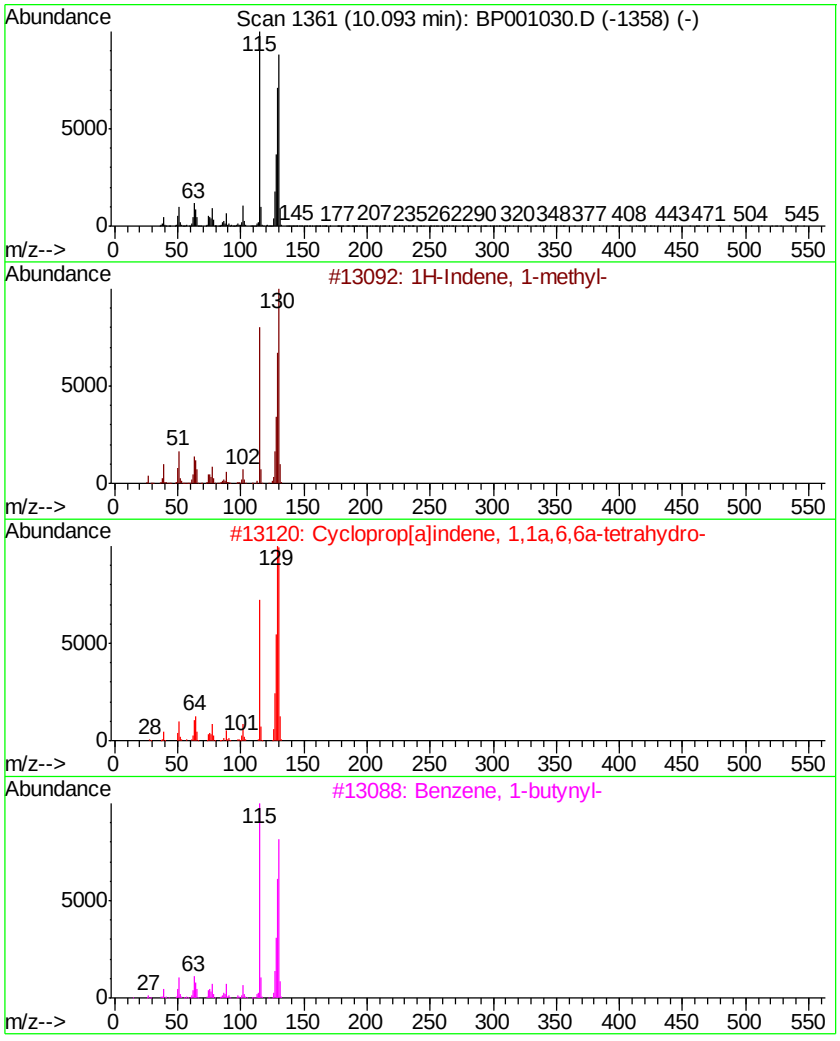
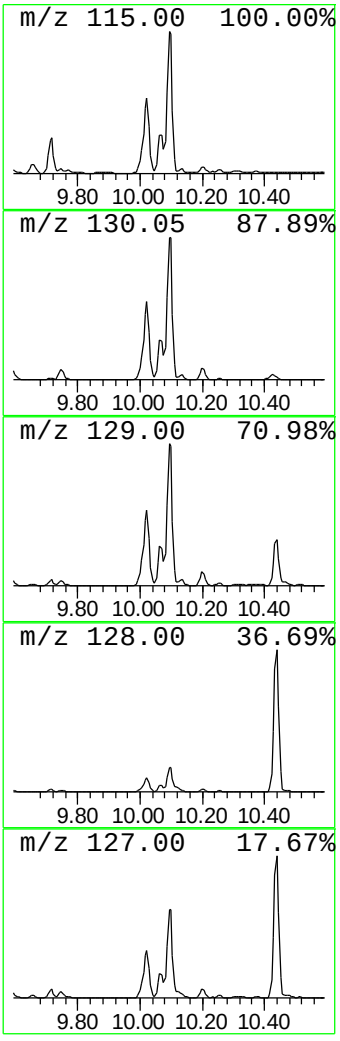
Peak Number 10 Cycloprop[a]indene, 1,1a,6,... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.09	42.67 ng	3398390	Naphthalene-d8	10.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 1-methyl-	130	C10H10	000767-59-9	95
2	Cycloprop[a]indene, 1,1a,6,6a-te...	130	C10H10	015677-15-3	93
3	Benzene, 1-butynyl-	130	C10H10	000622-76-4	93
4	Benzene,1-methyl-1,2-propadienyl-	130	C10H10	022433-39-2	93
5	Naphthalene, 1,2-dihydro-	130	C10H10	000447-53-0	93





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Operator : JU
Sample : K5777-05
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ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : AOC-7-NORTH-(10)

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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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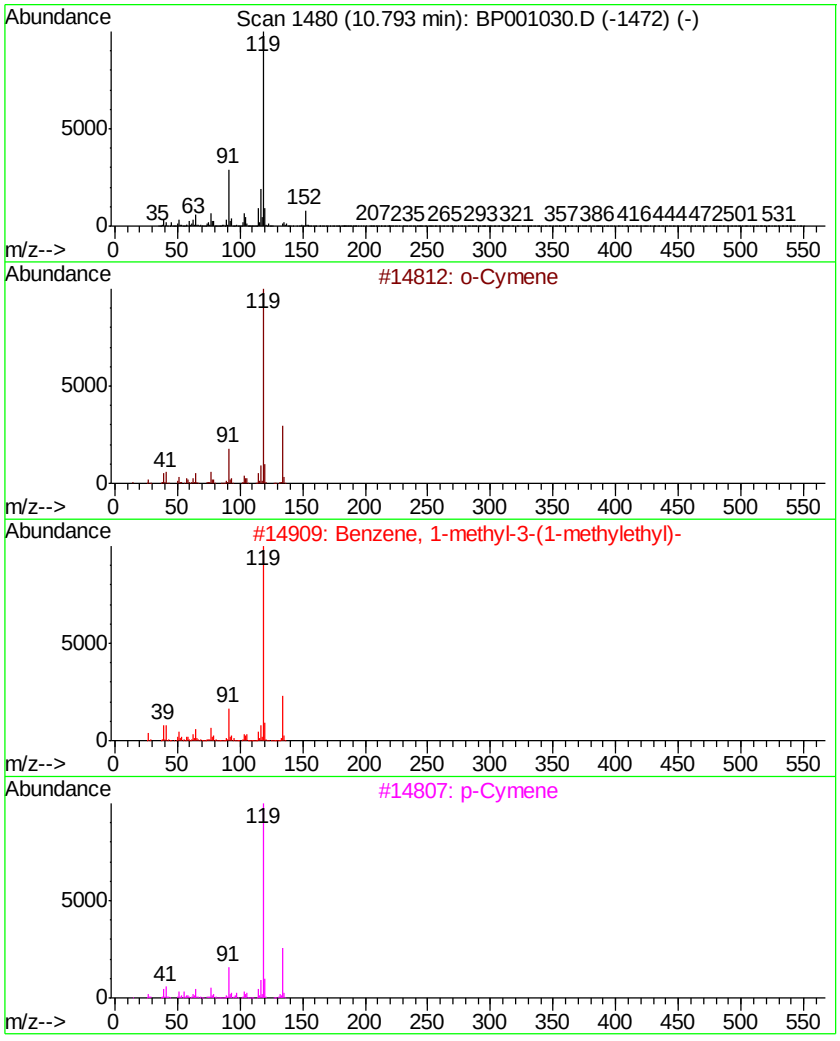
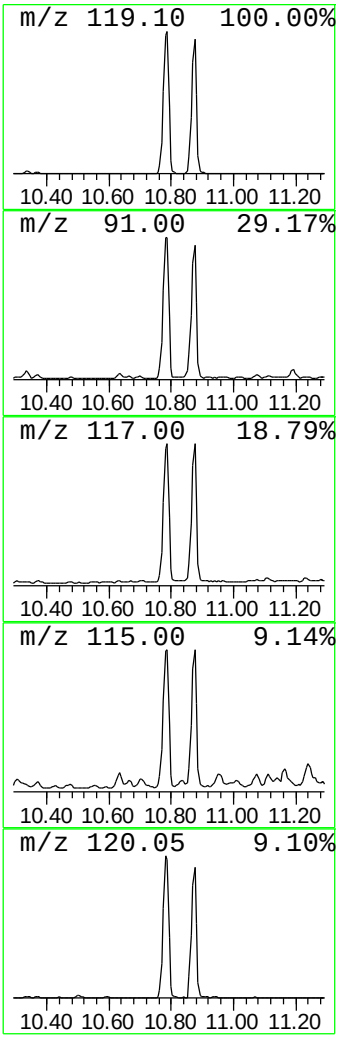
Peak Number 11 o-Cymene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.79	67.84 ng	5402930	Naphthalene-d8	10.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	o-Cymene	134	C10H14	000527-84-4	90
2	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	90
3	p-Cymene	134	C10H14	000099-87-6	80
4	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	74
5	1,3-Cyclopentadiene, 1,2,3,4-tet...	134	C10H14	076089-59-3	72





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Acq On : 11 Nov 2019 22:10
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Misc :
ALS Vial : 13 Sample Multiplier: 1

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ClientSampleId : AOC-7-NORTH-(10)

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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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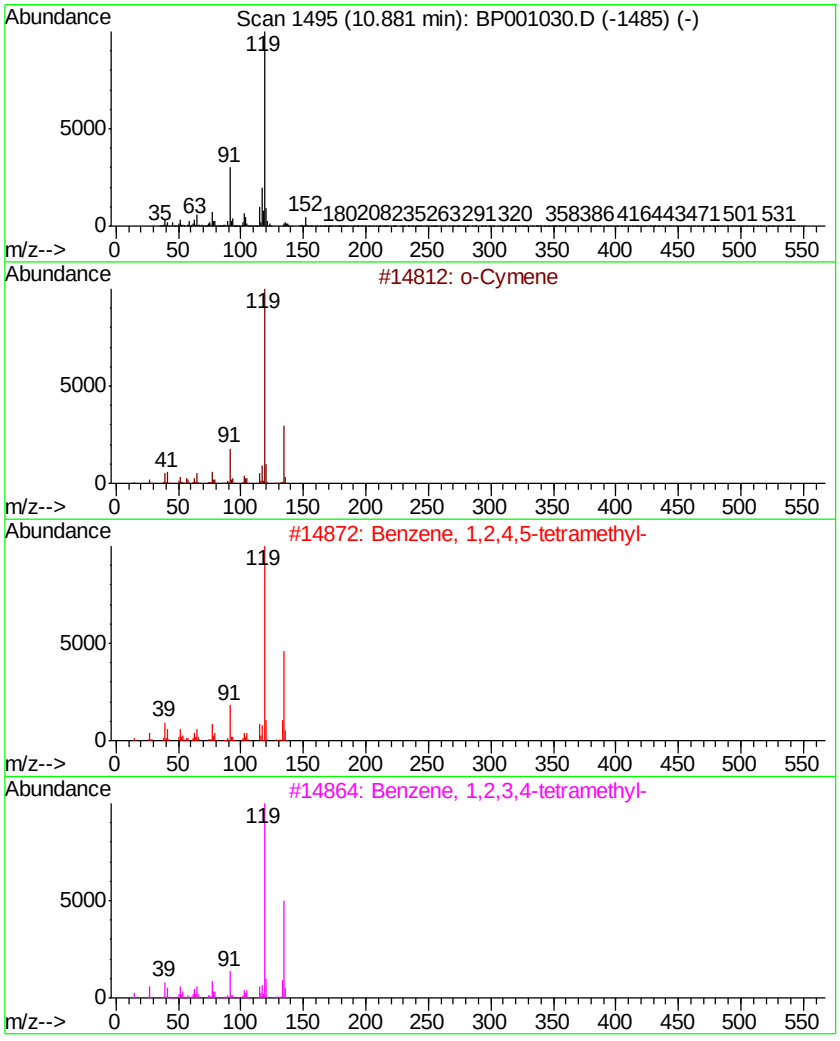
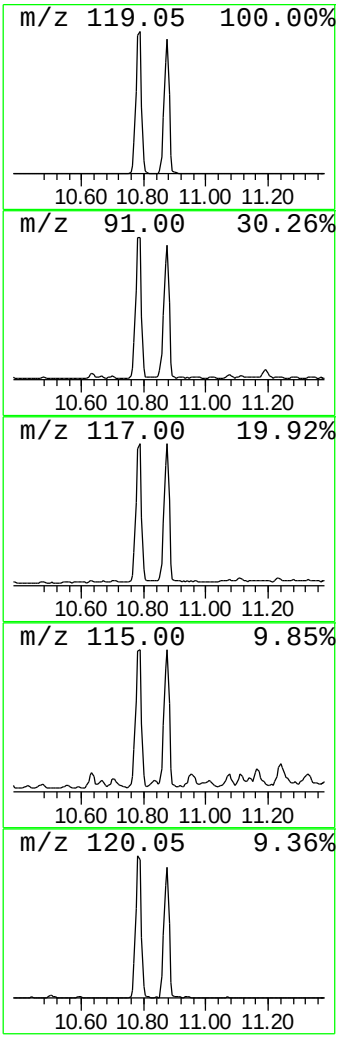
Peak Number 12 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.88	73.77 ng	5875720	Naphthalene-d8	10.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	o-Cymene	134	C10H14	000527-84-4	81
2	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	74
3	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	72
4	p-Cymene	134	C10H14	000099-87-6	72
5	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	72





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ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : AOC-7-NORTH-(10)

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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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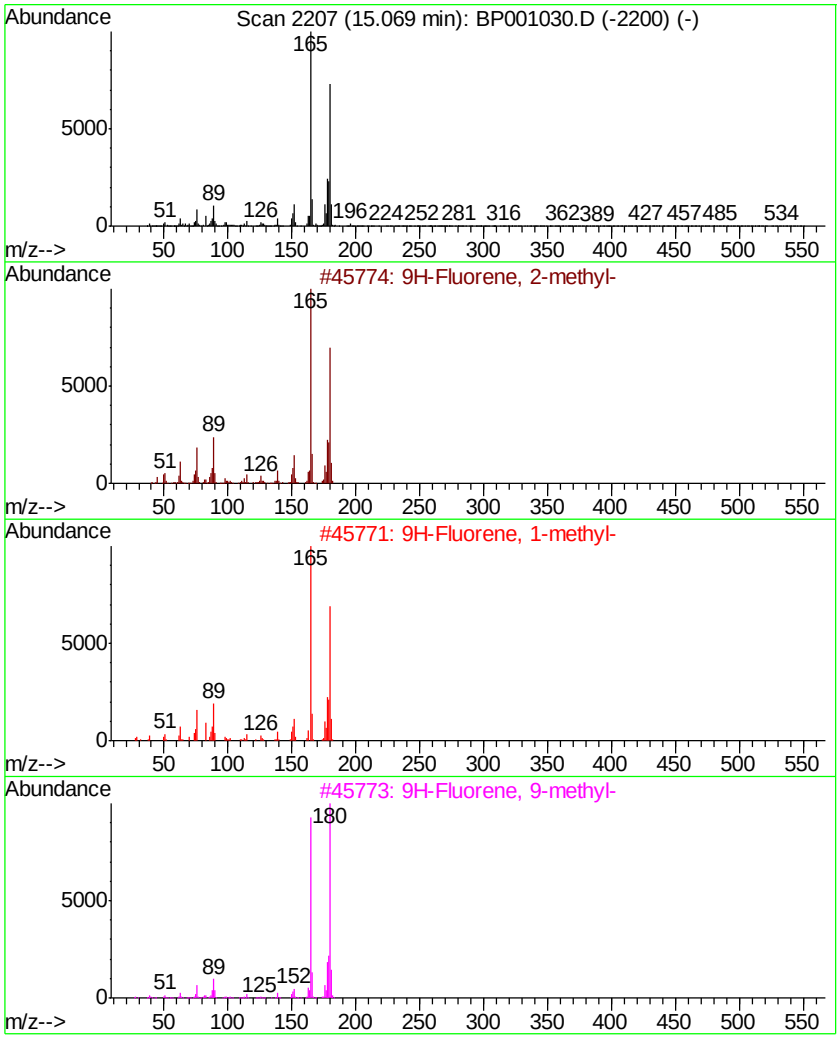
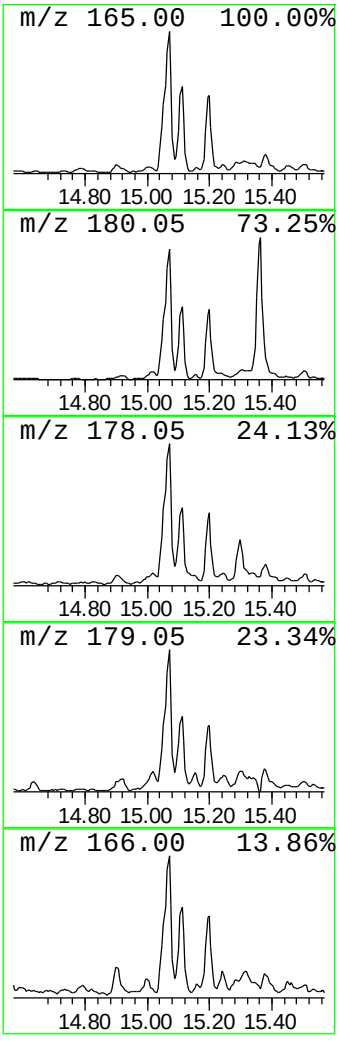
Peak Number 13 9H-Fluorene, 2-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.07	20.90 ng	2028070	Phenanthrene-d10	15.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	95
2	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	95
3	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	90
4	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	90
5	9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	74





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Sample : K5777-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : AOC-7-NORTH-(10)

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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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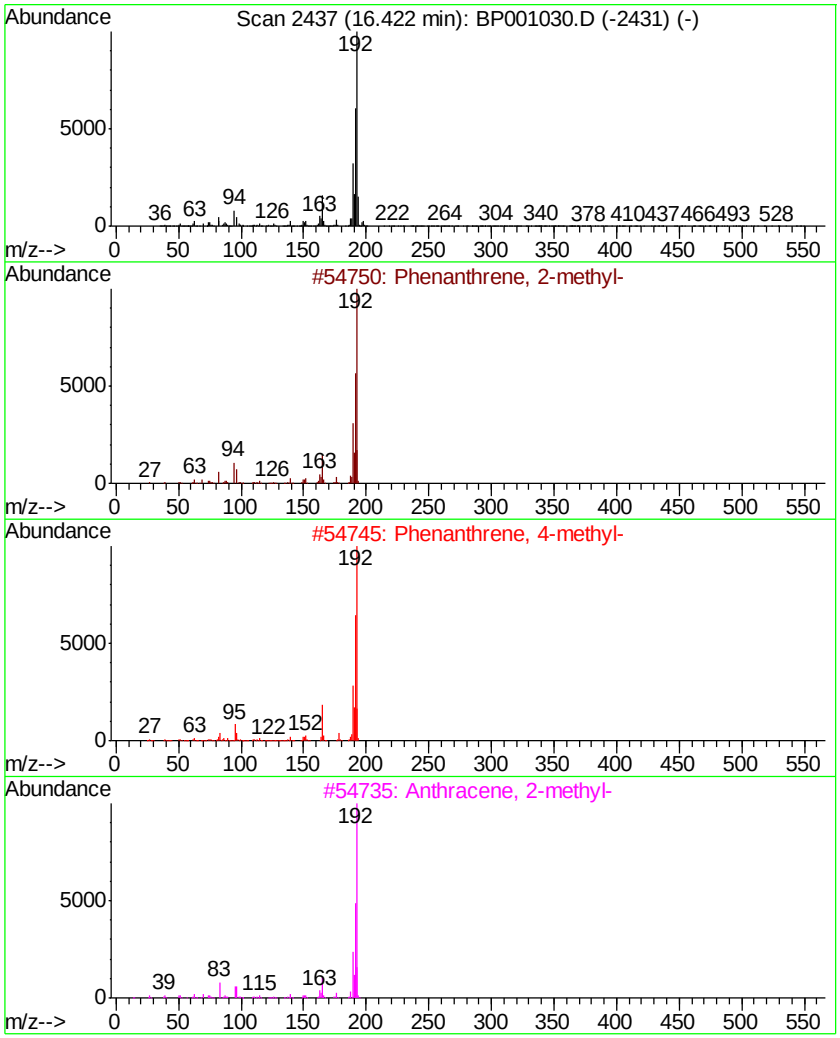
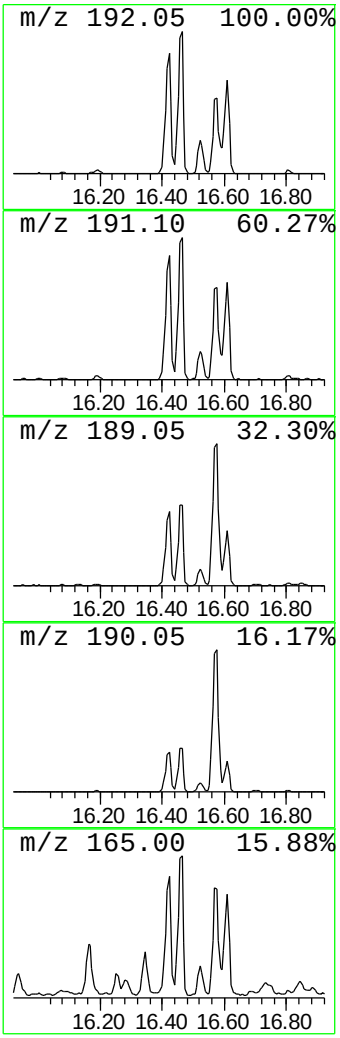
Peak Number 14 Phenanthrene, 4-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.42	61.59 ng	5976210	Phenanthrene-d10	15.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
2	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	95
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93





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ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : AOC-7-NORTH-(10)

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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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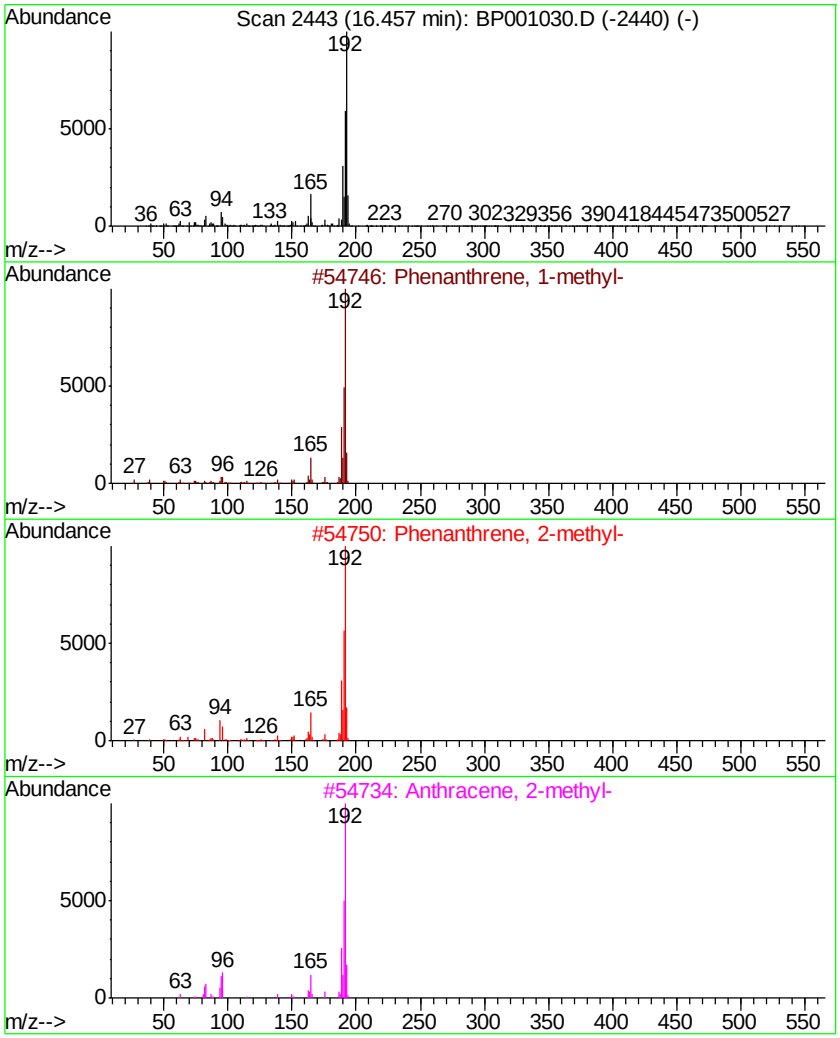
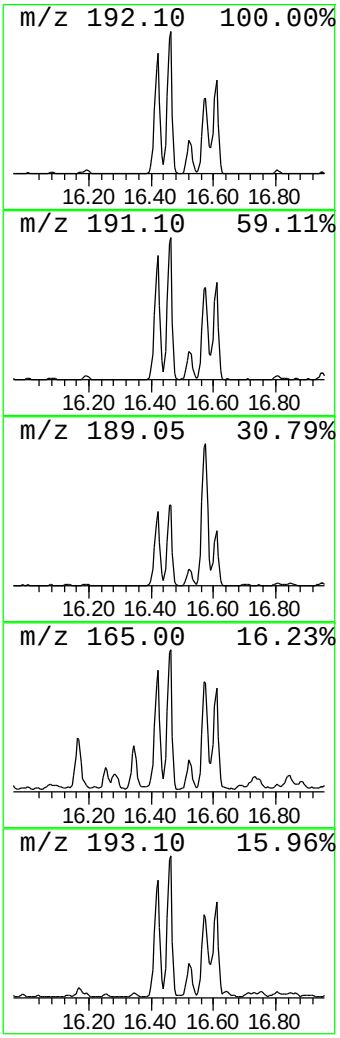
Peak Number 15 Anthracene, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.46	64.98 ng	6305570	Phenanthrene-d10	15.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	95
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	94





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Instrument : BNA_P
ClientSampleId : AOC-7-NORTH-(10)

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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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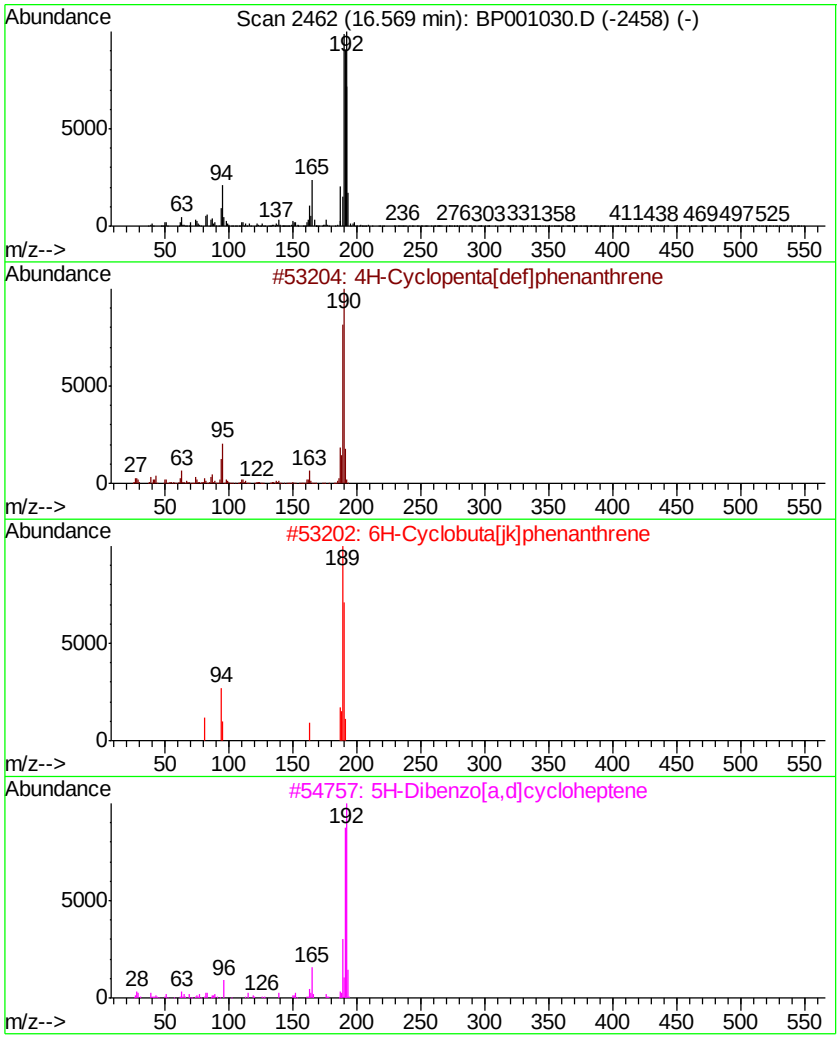
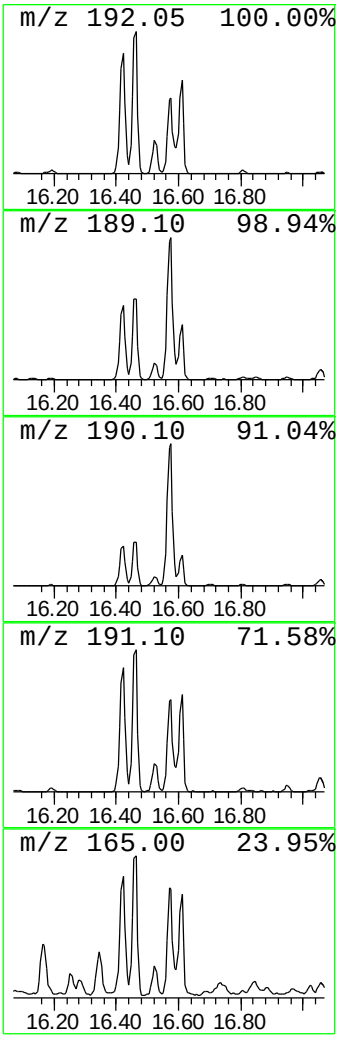
Peak Number 16 4H-Cyclopenta[def]phenanthrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.57	71.98 ng	6984860	Phenanthrene-d10	15.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	55
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	49
3	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	46
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	46
5	1a,9b-Dihydro-1H-cyclopropa[a]an...	192	C15H12	006109-24-6	46





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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TIC Integration Parameters: LSCINT.P

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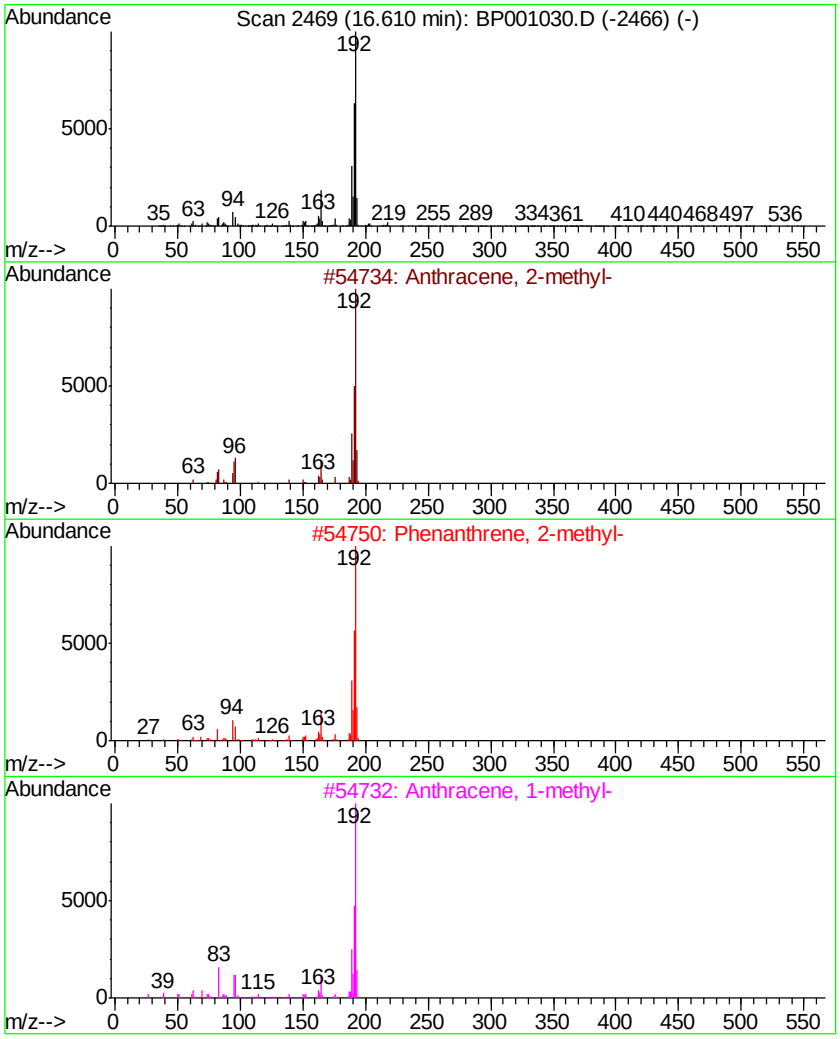
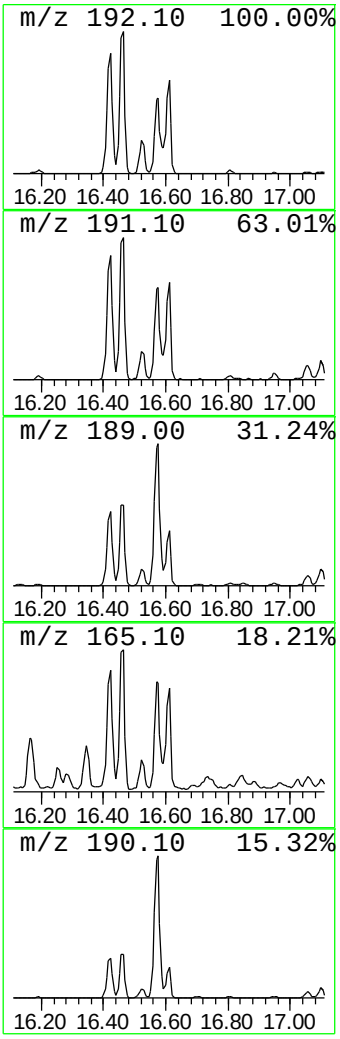
Peak Number 17 Anthracene, 1-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.61	37.85 ng	3673170	Phenanthrene-d10	15.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	94
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	94
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94





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ClientSampleId : AOC-7-NORTH-(10)

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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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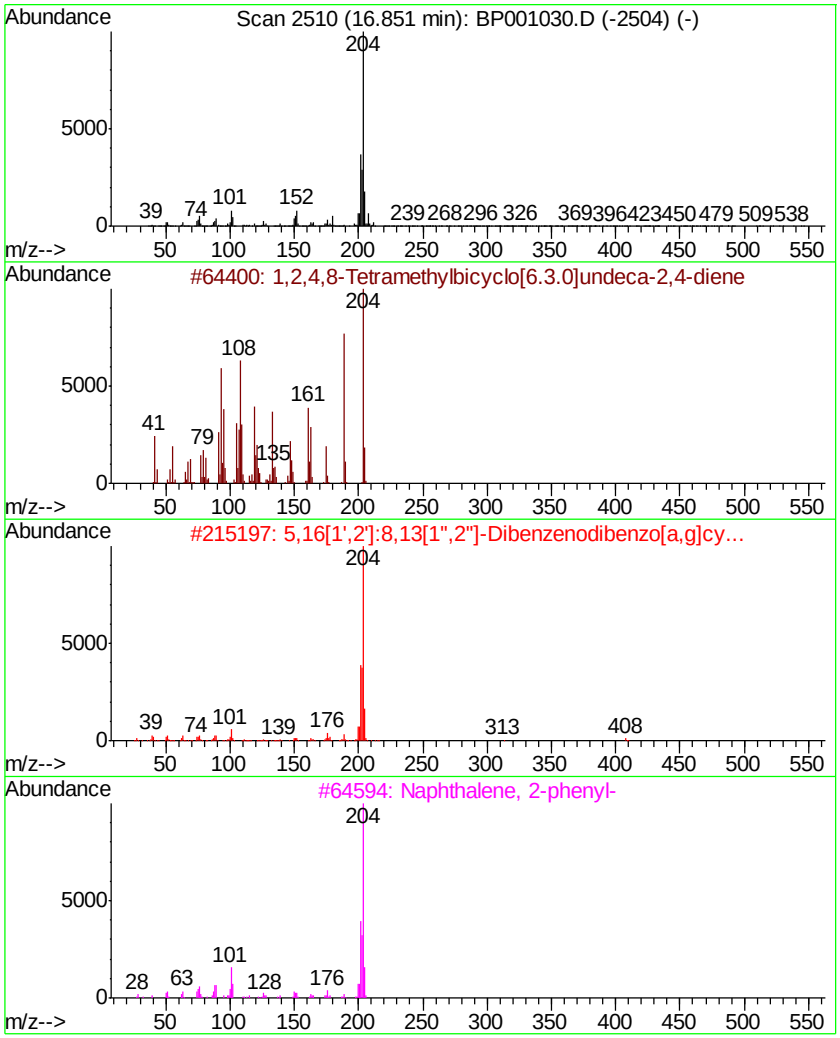
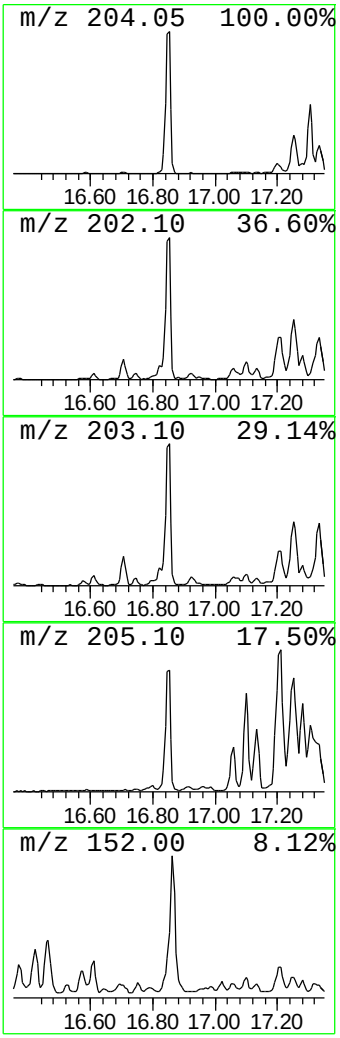
Peak Number 18 1,2,4,8-Tetramethylbicyclo[... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.85	43.80 ng	4250090	Phenanthrene-d10	15.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	87
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	87
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	76
4	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	68
5	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	58





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP111119\
Data File : BP001030.D
Acq On : 11 Nov 2019 22:10
Operator : JU
Sample : K5777-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : AOC-7-NORTH-(10)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP110619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

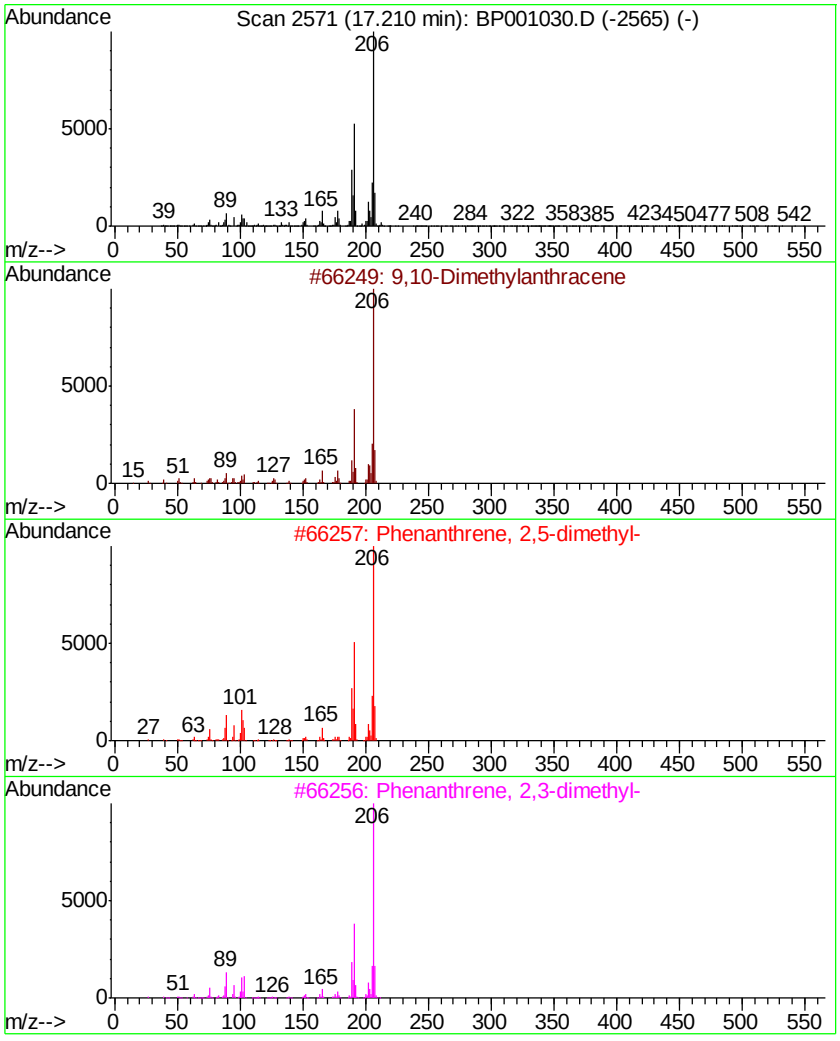
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

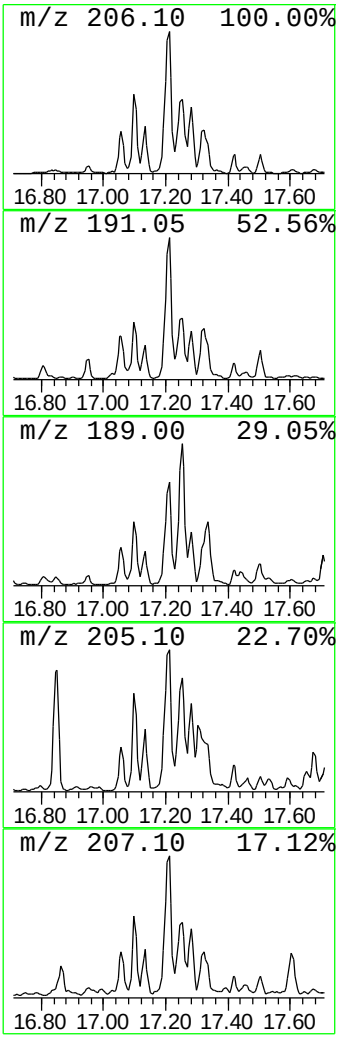
****

Peak Number 19 9,10-Dimethylanthracene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.21	36.20 ng	3512970	Phenanthrene-d10	15.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dimethylanthracene	206	C16H14	000781-43-1	95
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	94
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
4	di-p-Tolylacetylene	206	C16H14	002789-88-0	91
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	87





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP111119\
Data File : BP001030.D
Acq On : 11 Nov 2019 22:10
Operator : JU
Sample : K5777-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : AOC-7-NORTH-(10)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP110619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

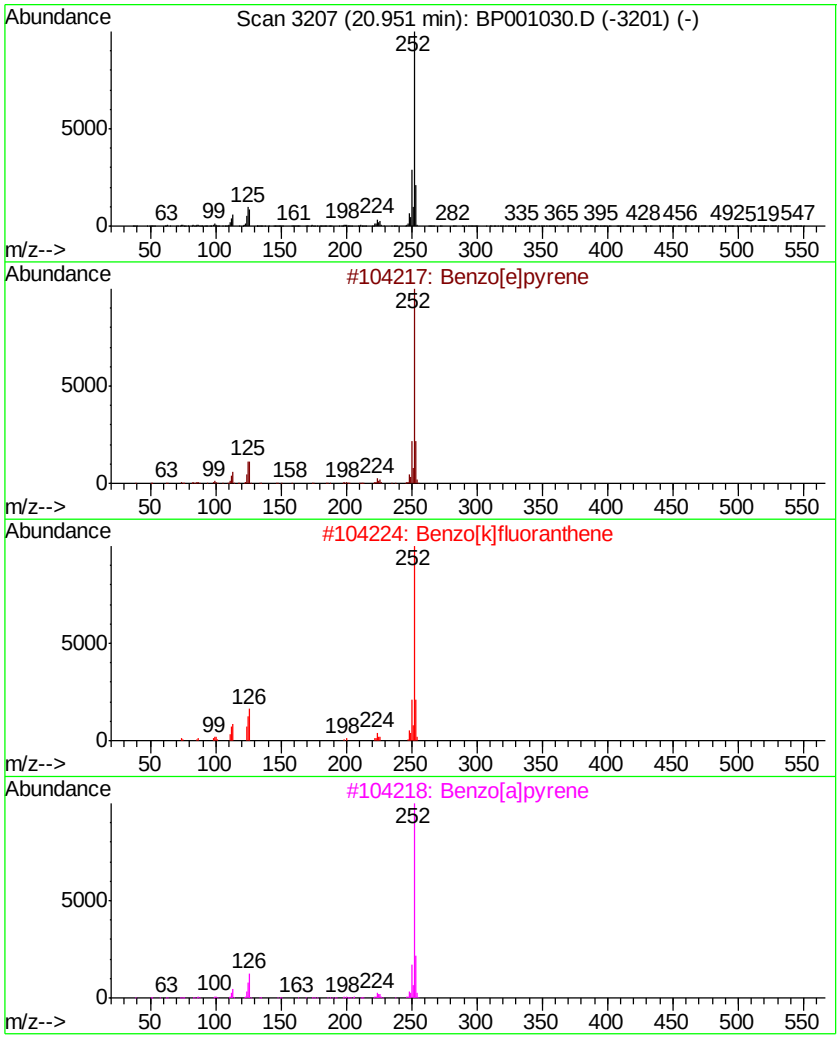
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

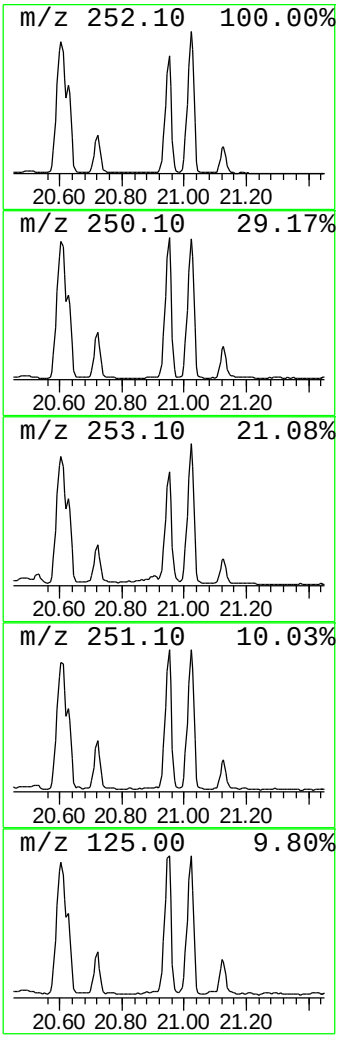
****

Peak Number 20 Benzo[e]pyrene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.95	32.03 ng	3300360	Perylene-d12	21.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	94
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93
3	Benzo[a]pyrene	252	C20H12	000050-32-8	93
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
5	Perylene	252	C20H12	000198-55-0	91





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_P\DATA\BP111119\
Data File : BP001030.D
Acq On : 11 Nov 2019 22:10
Operator : JU
Sample : K5777-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : AOC-7-NORTH-(10)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP110619.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
unknown8.02	8.02	69.4	ng	4891280	1	8.38	1409230	20.0
Benzene, 1-etheny...	8.13	104.1	ng	7334320	1	8.38	1409230	20.0
Benzene, 1-etheny...	8.19	45.6	ng	3210450	1	8.38	1409230	20.0
Benzene, 1-propynyl-	8.79	72.5	ng	5105810	1	8.38	1409230	20.0
Benzene, 1-etheny...	9.36	41.4	ng	2917070	1	8.38	1409230	20.0
3,4-Dimethylthiop...	9.74	97.6	ng	7772420	2	10.40	1592910	20.0
1H-Indene, 1-methyl-	10.02	28.3	ng	2253850	2	10.40	1592910	20.0
Cycloprop[a]inden...	10.09	42.7	ng	3398390	2	10.40	1592910	20.0
o-Cymene	10.79	67.8	ng	5402930	2	10.40	1592910	20.0
Benzene, 1,2,4,5-...	10.88	73.8	ng	5875720	2	10.40	1592910	20.0
9H-Fluorene, 2-me...	15.07	20.9	ng	2028070	4	15.66	1940690	20.0
Phenanthrene, 4-m...	16.42	61.6	ng	5976210	4	15.66	1940690	20.0
Anthracene, 2-met...	16.46	65.0	ng	6305570	4	15.66	1940690	20.0
4H-Cyclopenta[def...	16.57	72.0	ng	6984860	4	15.66	1940690	20.0
Anthracene, 1-met...	16.61	37.9	ng	3673170	4	15.66	1940690	20.0
1,2,4,8-Tetrameth...	16.85	43.8	ng	4250090	4	15.66	1940690	20.0
9,10-Dimethylanth...	17.21	36.2	ng	3512970	4	15.66	1940690	20.0
Benzo[e]pyrene	20.95	32.0	ng	3300360	6	21.09	2060540	20.0