LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP010320\
Data File : BP001525.D
Acq On : 04 Jan 2020 01:09
Operator : JU
Sample : K6471-10 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : MC-123019-0-2-COMP-B2

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-BP010320.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.017	35	39	46	rVB	42750	57931	2.99%	0.320%
2	4.905	353	360	369	rBV	49427	70980	3.66%	0.392%
3	5.334	427	433	441	rBV	221585	315263	16.26%	1.740%
4	6.905	693	700	711	rVB	240903	376448	19.42%	2.078%
5	7.240	751	757	764	rVB	215160	344604	17.77%	1.902%
6	7.693	827	834	844	rBV	262552	404708	20.87%	2.234%
7	8.010	881	888	894	rBV	183748	279479	14.42%	1.543%
8	8.846	1021	1030	1039	rBV	131578	218414	11.27%	1.206%
9	10.469	1298	1306	1311	rBV	323238	537608	27.73%	2.968%
10	10.516	1311	1314	1323	rVB	61868	101821	5.25%	0.562%
11	12.140	1582	1590	1596	rBV	37968	59827	3.09%	0.330%
12	12.357	1621	1627	1633	rVB	32252	49168	2.54%	0.271%
13	12.951	1722	1728	1738	rVB	317050	473658	24.43%	2.615%
14	13.163	1759	1764	1772	rBV2	12718	26239	1.35%	0.145%
15	13.363	1793	1798	1807	rVB3	8905	21281	1.10%	0.117%
16	13.498	1814	1821	1822	rBV3	13074	19717	1.02%	0.109%
17	13.657	1841	1848	1852	rBV2	27702	47153	2.43%	0.260%
18	13.710	1852	1857	1865	rVB	17120	26953	1.39%	0.149%
19	13.816	1870	1875	1880	rBV	17111	22344	1.15%	0.123%
20	13.887	1883	1887	1891	rBV3	13988	20321	1.05%	0.112%
21	14.051	1908	1915	1923	rVB3	16767	33058	1.71%	0.182%
22	14.334	1956	1963	1969	rBV	476231	700000	36.11%	3.864%
23	14.398	1969	1974	1983	rVB	131079	186267	9.61%	1.028%
24	14.651	2011	2017	2021	rVB2	15110	24219	1.25%	0.134%
25	14.734	2026	2031	2039	rVB	76062	116913	6.03%	0.645%
26	15.386	2136	2142	2147	rBV	110992	160648	8.29%	0.887%
27	15.516	2161	2164	2167	rVV	17195	24623	1.27%	0.136%
28	15.551	2167	2170	2175	rVB2	17214	23148	1.19%	0.128%
29	15.686	2189	2193	2204	rVB	39340	62249	3.21%	0.344%
30	15.834	2211	2218	2227	rVB2	261189	413589	21.33%	2.283%
31	15.922	2227	2233	2240	rVB6	12565	28162	1.45%	0.155%
32	16.398	2303	2314	2320	rBV6	24404	78352	4.04%	0.433%
33	16.451	2320	2323	2329	rVB5	15600	22179	1.14%	0.122%
34	16.545	2335	2339	2345	rVB8	12385	23158	1.19%	0.128%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP010320\
Data File : BP001525.D
Acq On : 04 Jan 2020 01:09
Operator : JU
Sample : K6471-10 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : MC-123019-0-2-COMP-B2

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-BP010320.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	16.633	2351	2354	2357	rBV3	15832	20412	1.05%	0.113%
36	16.675	2358	2361	2364	rVB4	19319	23422	1.21%	0.129%
37	16.745	2369	2373	2381	rVB	32923	57209	2.95%	0.316%
38	16.845	2383	2390	2396	rBV2	37958	87537	4.52%	0.483%
39	16.910	2396	2401	2405	rVB	63257	92625	4.78%	0.511%
40	17.092	2426	2432	2435	rBV	581948	825754	42.59%	4.558%
41	17.133	2435	2439	2445	rVV	1060586	1498493	77.29%	8.272%
42	17.222	2446	2454	2460	rVB	239258	363461	18.75%	2.006%
43	17.292	2462	2466	2471	rBV	32926	45675	2.36%	0.252%
44	17.498	2493	2501	2506	rBV2	89288	162333	8.37%	0.896%
45	17.628	2519	2523	2527	rVB2	18540	26469	1.37%	0.146%
46	17.675	2528	2531	2536	rVB6	15910	22093	1.14%	0.122%
47	17.816	2552	2555	2562	rVB4	16137	25268	1.30%	0.139%
48	17.969	2576	2581	2585	rBV	117893	158635	8.18%	0.876%
49	18.016	2585	2589	2597	rVB	183533	304920	15.73%	1.683%
50	18.092	2598	2602	2607	rVB	83138	107641	5.55%	0.594%
51	18.151	2607	2612	2616	rBV2	185391	315690	16.28%	1.743%
52	18.186	2616	2618	2624	rVB	80269	110780	5.71%	0.612%
53	18.310	2636	2639	2643	rVB4	18447	26734	1.38%	0.148%
54	18.457	2660	2664	2667	rBV	107224	130324	6.72%	0.719%
55	18.492	2667	2670	2675	rVB	43853	55034	2.84%	0.304%
56	18.698	2702	2705	2709	rVB4	31184	39063	2.01%	0.216%
57	18.745	2711	2713	2716	rVV2	26503	23511	1.21%	0.130%
58	18.780	2716	2719	2723	rVB2	27088	36665	1.89%	0.202%
59	18.857	2728	2732	2737	rBV2	76504	127164	6.56%	0.702%
60	18.922	2741	2743	2746	rVB4	26618	32108	1.66%	0.177%
61	18.992	2753	2755	2763	rVB4	50552	80815	4.17%	0.446%
62	19.116	2770	2776	2781	rBV	1306543	1753752	90.46%	9.681%
63	19.345	2812	2815	2820	rVB2	43500	60506	3.12%	0.334%
64	19.463	2826	2835	2844	rBV2	1158761	1938776	100.00%	10.702%
65	19.539	2845	2848	2855	rVB2	63999	106211	5.48%	0.586%
66	19.639	2862	2865	2867	rBV	78504	91144	4.70%	0.503%
67	19.674	2867	2871	2874	rVV	508874	590203	30.44%	3.258%
68	19.951	2915	2918	2923	rVB	160743	198981	10.26%	1.098%
69	20.051	2931	2935	2938	rBV	105315	137901	7.11%	0.761%
70	20.104	2940	2944	2948	rVV3	128956	192203	9.91%	1.061%
71	21.186	3122	3128	3132	rBV3	848009	1640138	84.60%	9.054%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP010320\
Data File : BP001525.D
Acq On : 04 Jan 2020 01:09
Operator : JU
Sample : K6471-10 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : MC-123019-0-2-COMP-B2

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-BP010320.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	21.227	3132	3135	3142	rVB	492704	613486	31.64%	3.386%
73	22.768	3393	3397	3402	rBV	303039	622036	32.08%	3.434%

Sum of corrected areas: 18115654

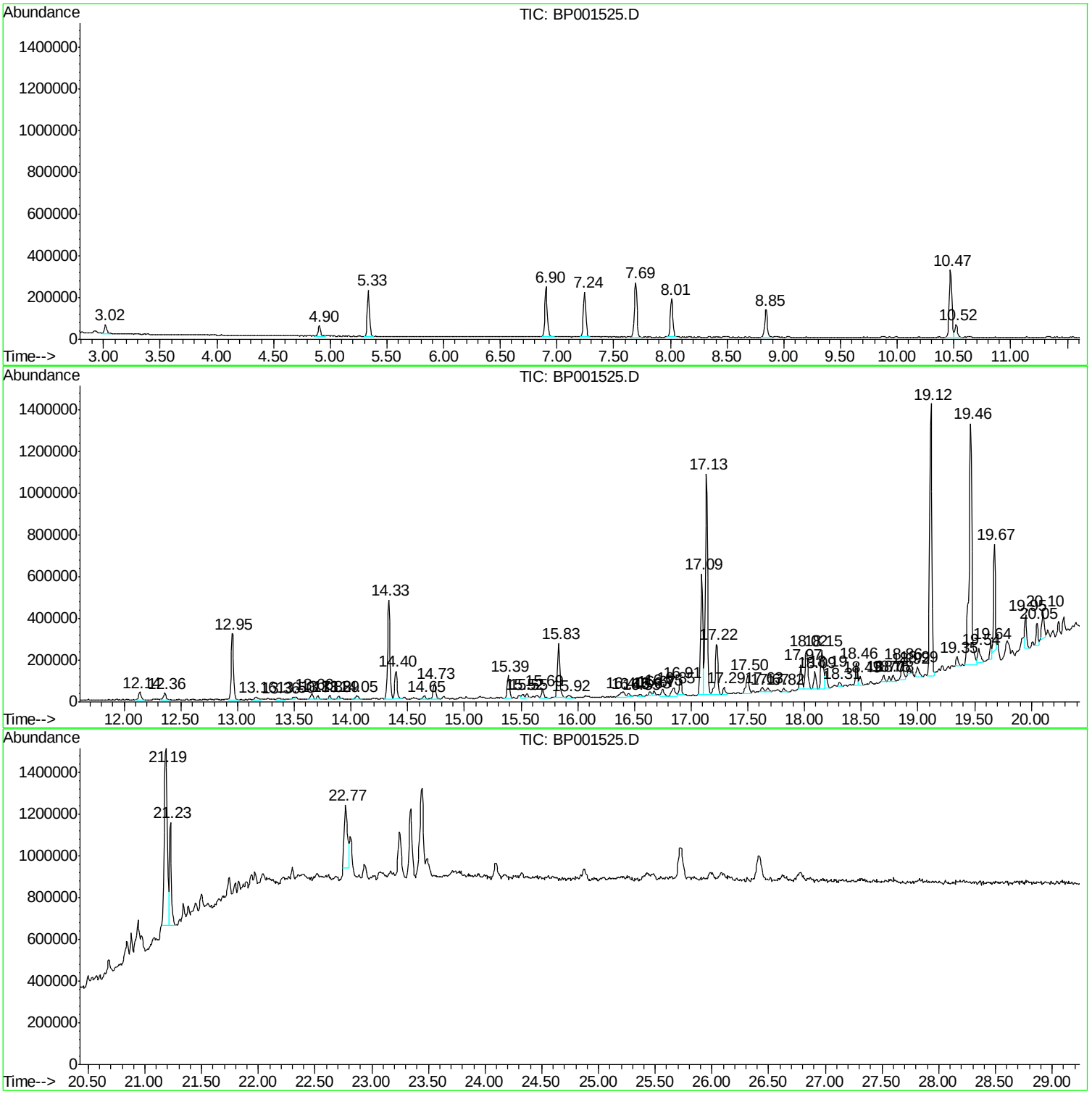
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP010320\
Data File : BP001525.D
Acq On : 04 Jan 2020 01:09
Operator : JU
Sample : K6471-10 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : MC-123019-0-2-COMP-B2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP010320.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 P\DATA\BP010320\
Data File : BP001525.D
Acq On : 04 Jan 2020 01:09
Operator : JU
Sample : K6471-10 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : MC-123019-0-2-COMP-B2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP010320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

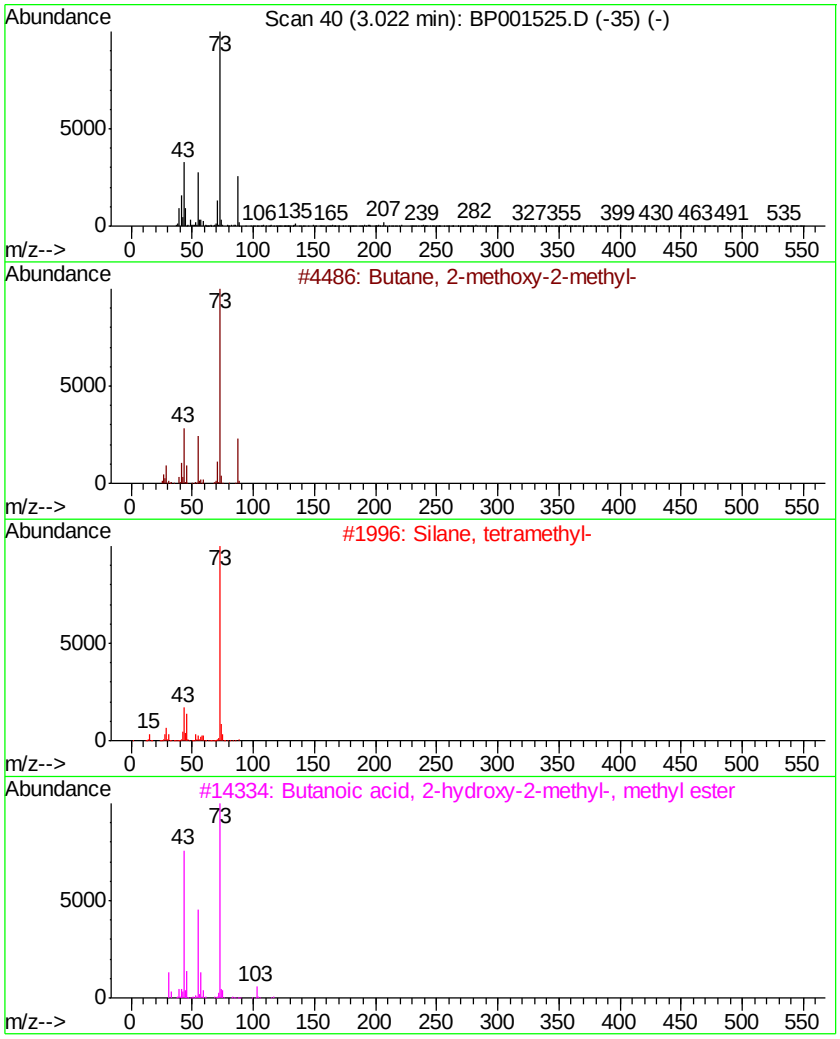
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

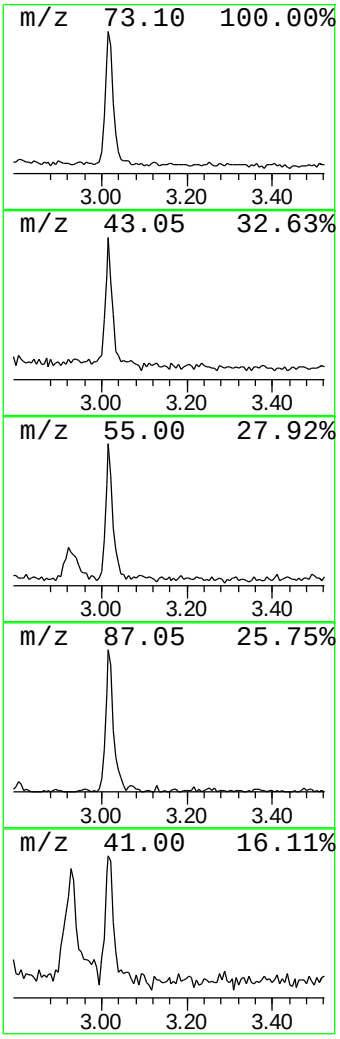
****

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.02	2.86 ng	57931	1,4-Dichlorobenzene-d4	7.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	64
2	Silane, tetramethyl-	88	C4H12Si	000075-76-3	17
3	Butanoic acid, 2-hydroxy-2-methy...	132	C6H12O3	032793-34-3	17
4	2-Hydroxy-2-methylbutyric acid	118	C5H10O3	003739-30-8	10
5	3-Pentanol, 2,4-dimethyl-	116	C7H16O	000600-36-2	9





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP010320\
Data File : BP001525.D
Acq On : 04 Jan 2020 01:09
Operator : JU
Sample : K6471-10 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : MC-123019-0-2-COMP-B2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP010320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

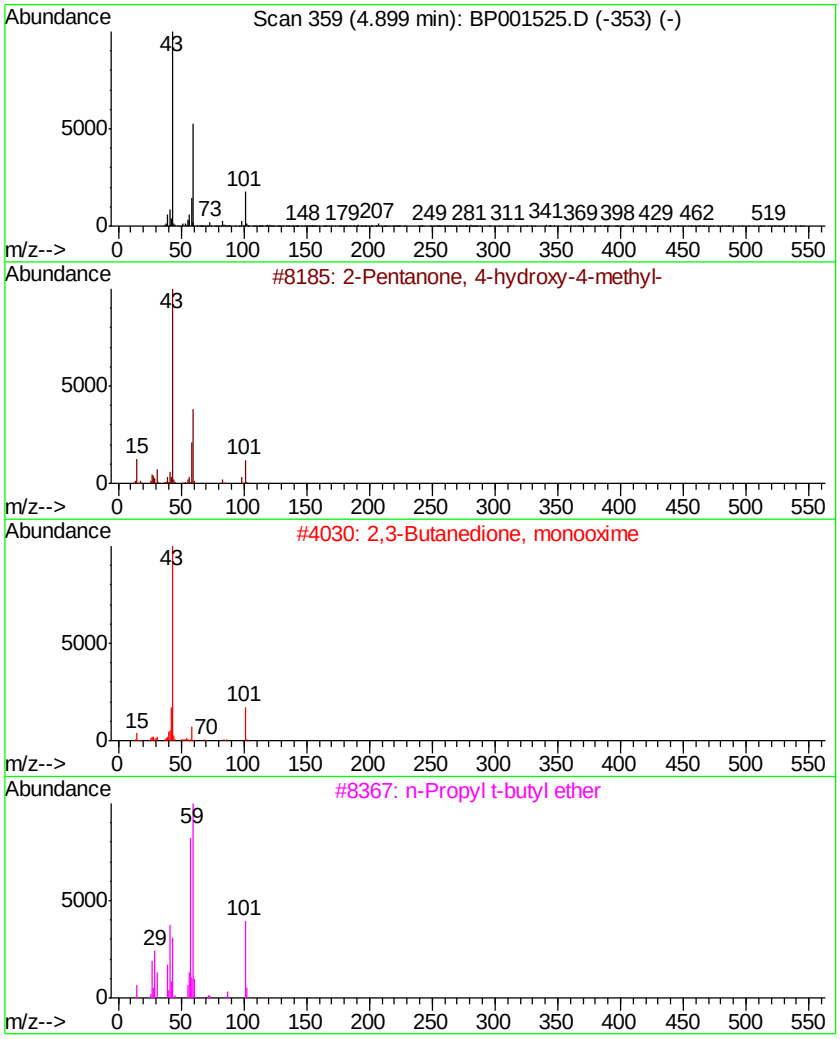
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

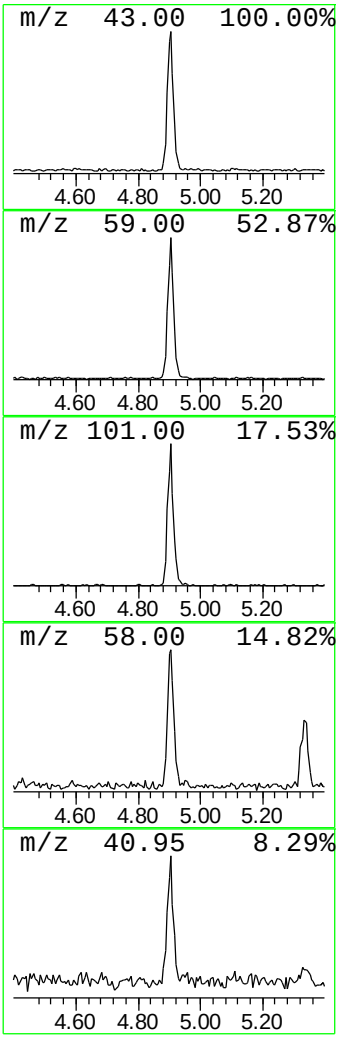
****

Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.90	3.51 ng	70980	1,4-Dichlorobenzene-d4	7.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	38
3	n-Propyl t-butyl ether	116	C7H16O	1000334-81-9	28
4	1,3-Dioxolane-2-methanol, 2,4-di...	132	C6H12O3	053951-43-2	25
5	1,3-Dioxane, 4,4-dimethyl-	116	C6H12O2	000766-15-4	25





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP010320\
Data File : BP001525.D
Acq On : 04 Jan 2020 01:09
Operator : JU
Sample : K6471-10 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : MC-123019-0-2-COMP-B2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP010320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

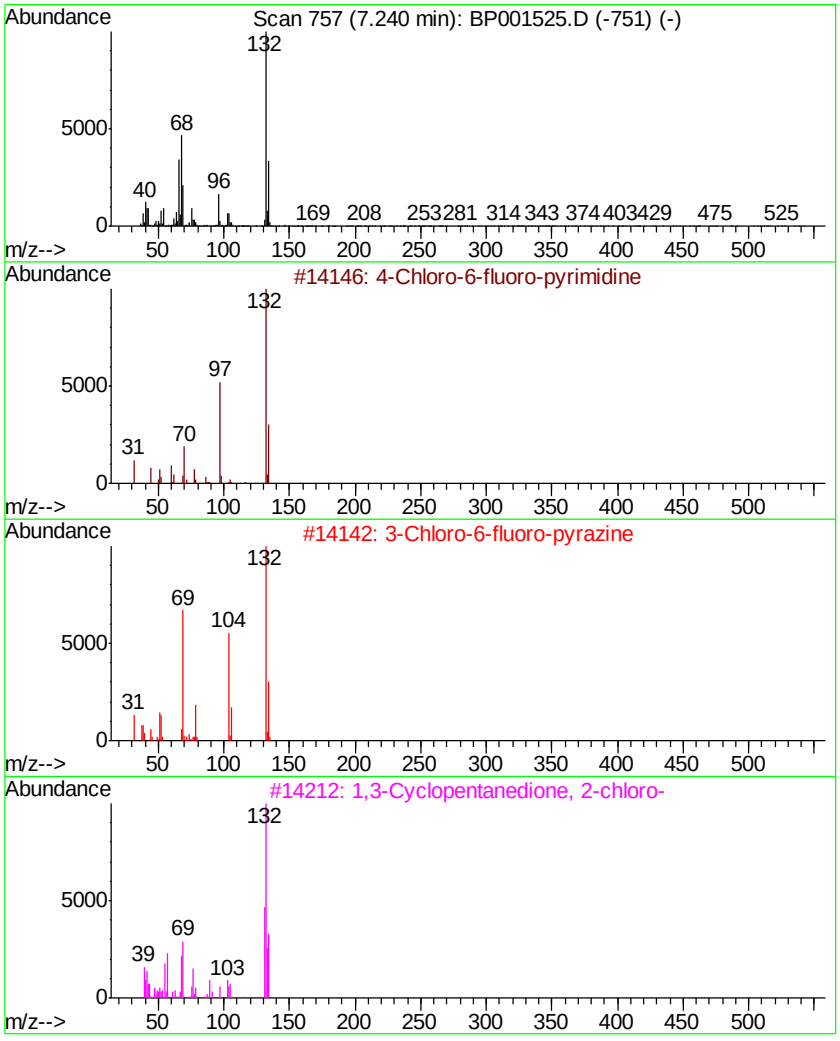
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

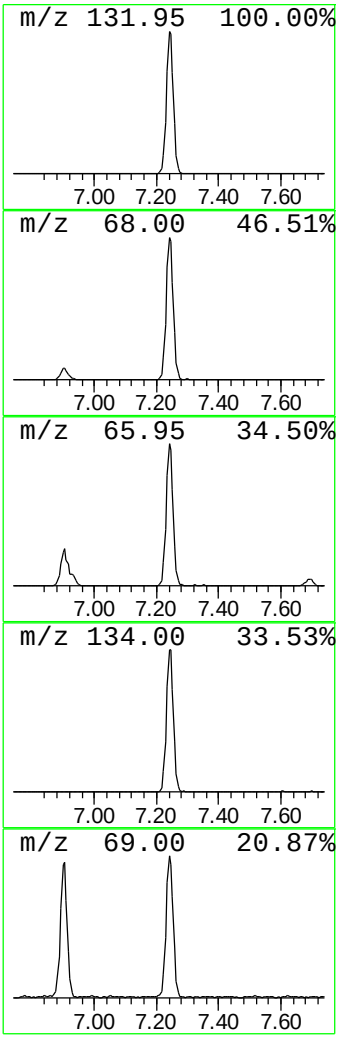
****

Peak Number 3 unknown7.24 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.24	17.03 ng	344604	1,4-Dichlorobenzene-d4	7.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Chloro-6-fluoro-pyrimidine	132	C4H2ClFN2	051422-01-6	27
2	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
3	1,3-Cyclopentanedione, 2-chloro-	132	C5H5ClO2	014203-19-1	25
4	1H-Benzimidazole, 2-methyl-	132	C8H8N2	000615-15-6	25
5	Imidazole, 4,5-dicyano-1-methyl-	132	C6H4N4	019485-35-9	22





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP010320\
Data File : BP001525.D
Acq On : 04 Jan 2020 01:09
Operator : JU
Sample : K6471-10 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : MC-123019-0-2-COMP-B2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP010320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

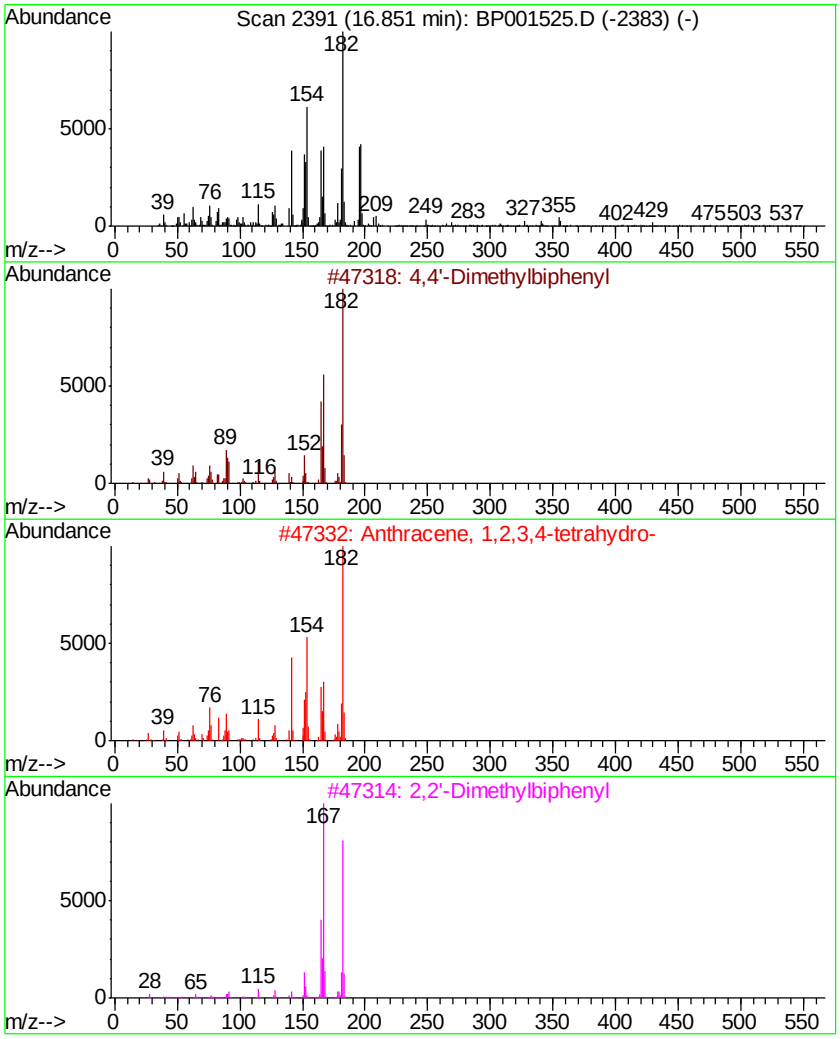
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

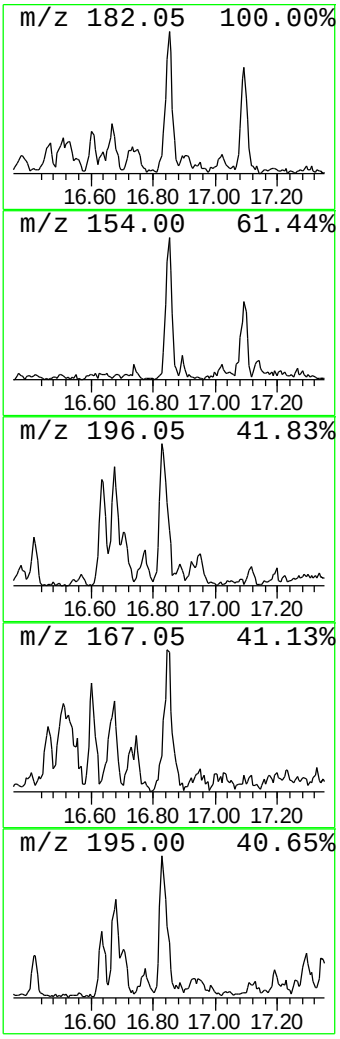
****

Peak Number 6 4,4'-Dimethylbiphenyl Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.85	2.12 ng	87537	Phenanthrene-d10	17.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4,4'-Dimethylbiphenyl	182	C14H14	000613-33-2	55
2	Anthracene, 1,2,3,4-tetrahydro-	182	C14H14	002141-42-6	55
3	2,2'-Dimethylbiphenyl	182	C14H14	000605-39-0	41
4	Phenanthrene, 1,2,3,4-tetrahydro-	182	C14H14	001013-08-7	41
5	Phenol, 4-(2-phenylethenyl)-	196	C14H12O	003839-46-1	41





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP010320\
Data File : BP001525.D
Acq On : 04 Jan 2020 01:09
Operator : JU
Sample : K6471-10 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : MC-123019-0-2-COMP-B2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP010320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

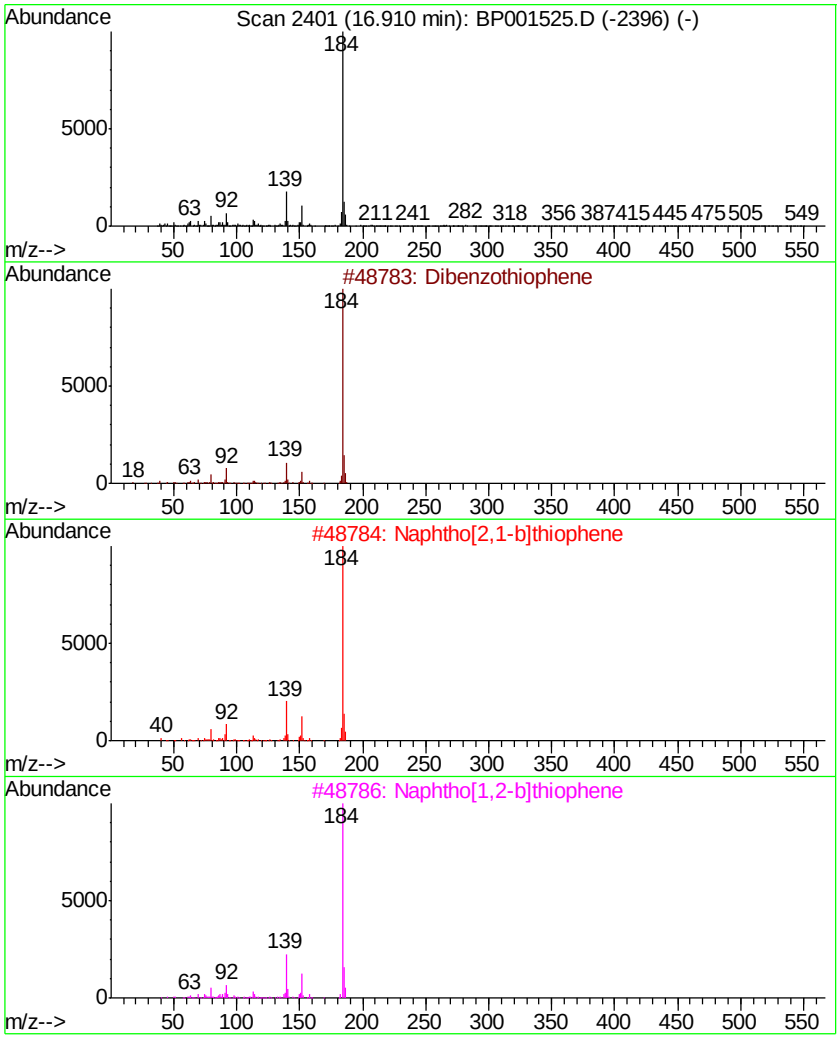
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

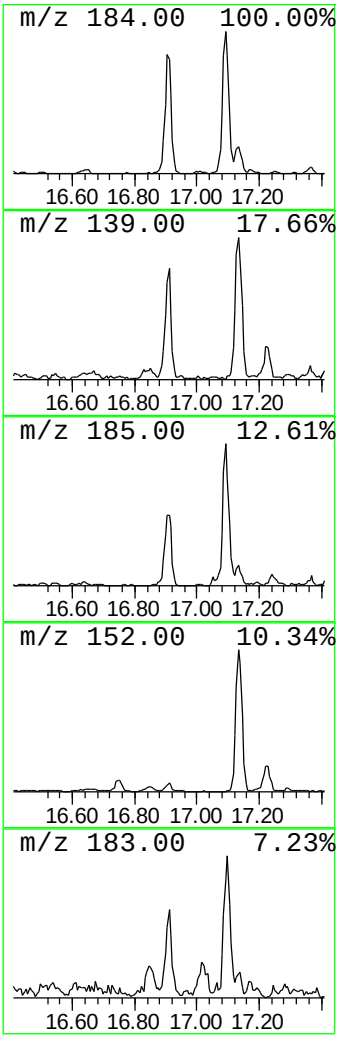
****

Peak Number 7 Dibenzothiophene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.91	2.24 ng	92625	Phenanthrene-d10	17.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	94
2	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	94
3	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	93
4	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91
5	2,5-Cyclohexadiene-1,4-dione, 2,...	184	C8H8O5	000085-23-4	59





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP010320\
Data File : BP001525.D
Acq On : 04 Jan 2020 01:09
Operator : JU
Sample : K6471-10 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : MC-123019-0-2-COMP-B2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP010320.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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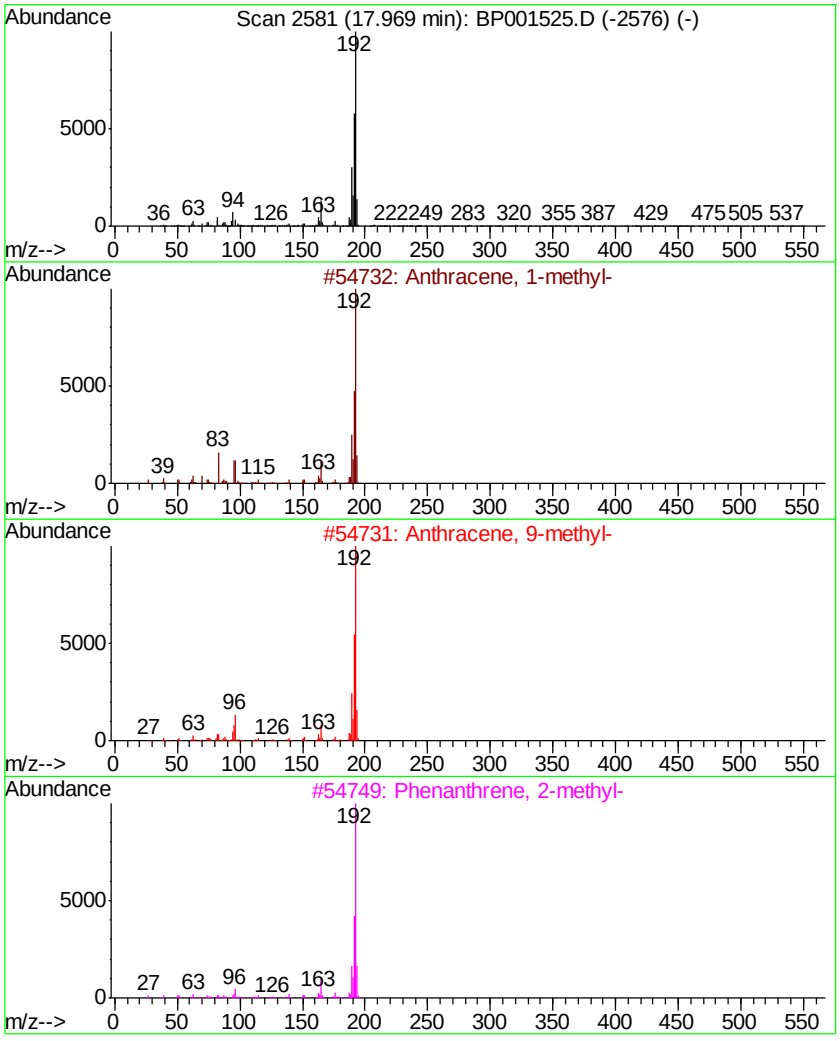
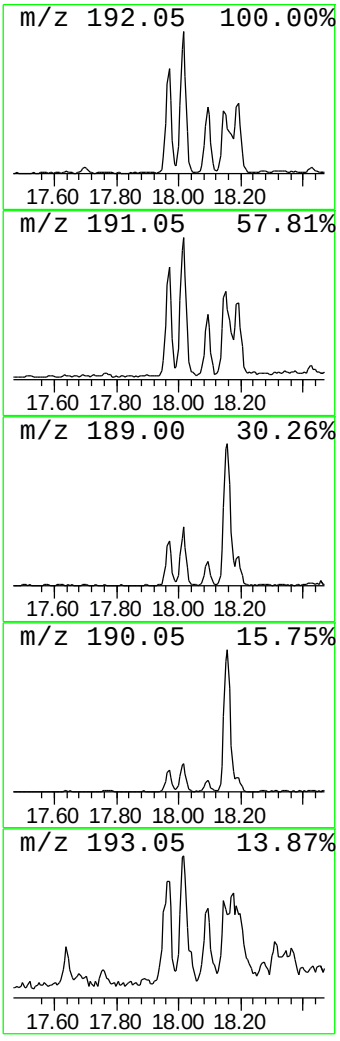
Peak Number 8 Anthracene, 1-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.97	3.84 ng	158635	Phenanthrene-d10	17.09

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





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP010320\
Data File : BP001525.D
Acq On : 04 Jan 2020 01:09
Operator : JU
Sample : K6471-10 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : MC-123019-0-2-COMP-B2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP010320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

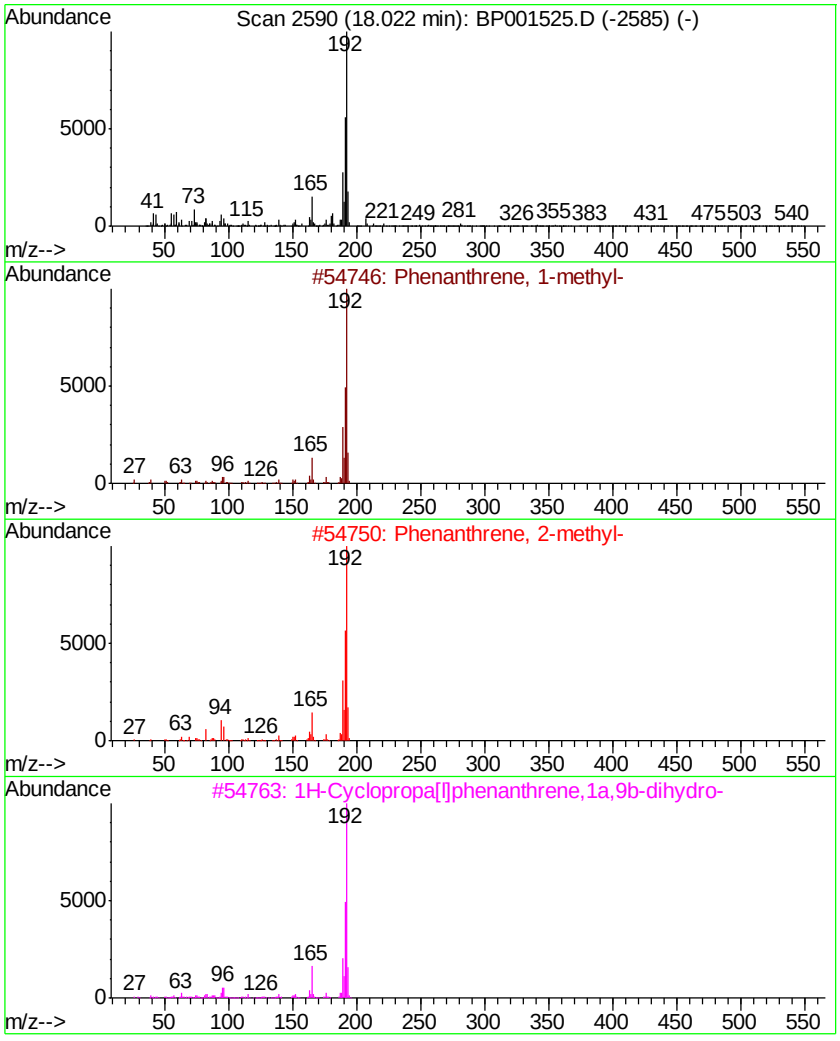
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

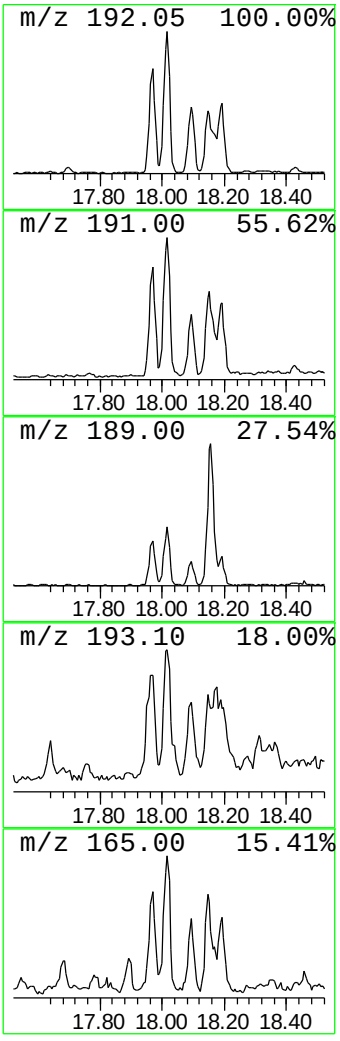
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.02	7.39 ng	304920	Phenanthrene-d10	17.09

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	96
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	95
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP010320\
Data File : BP001525.D
Acq On : 04 Jan 2020 01:09
Operator : JU
Sample : K6471-10 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : MC-123019-0-2-COMP-B2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP010320.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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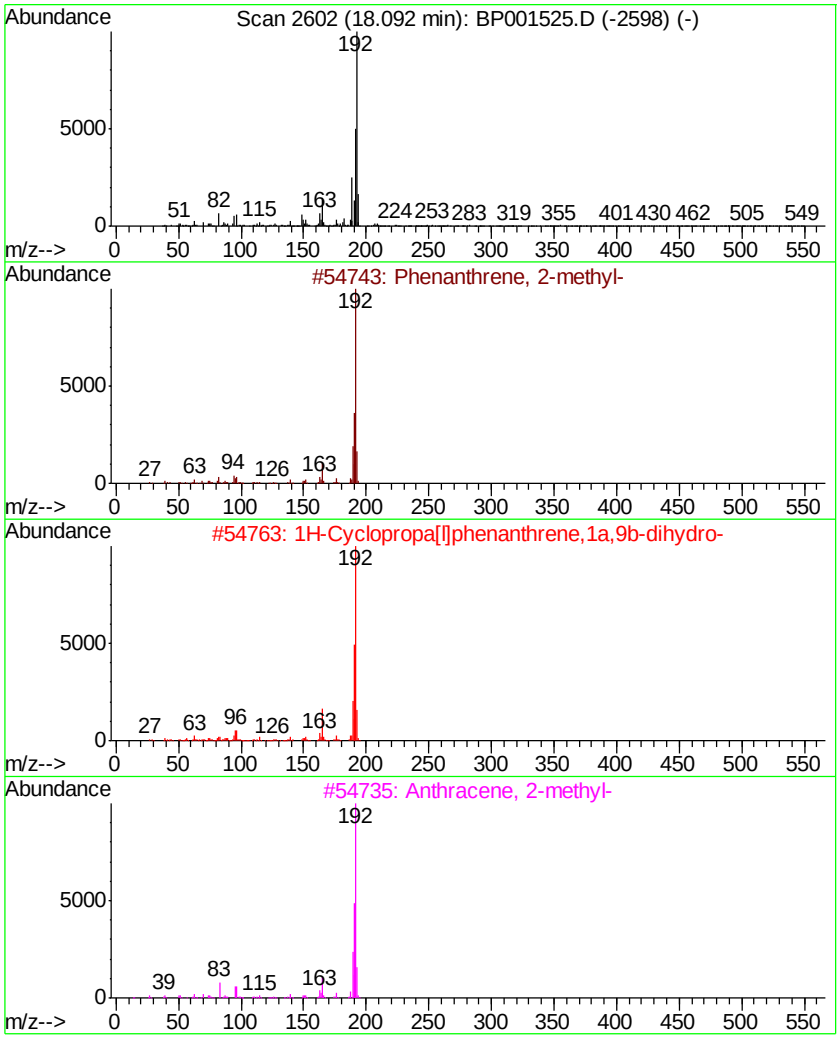
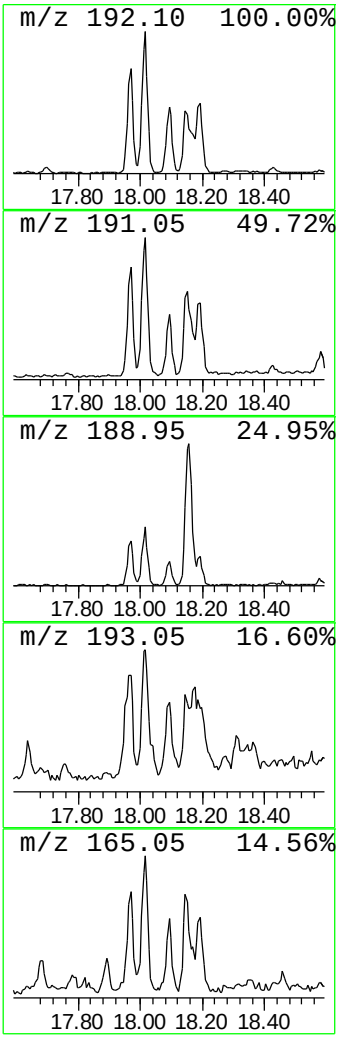
Peak Number 10 Phenanthrene, 2-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.09	2.61 ng	107641	Phenanthrene-d10	17.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP010320\
Data File : BP001525.D
Acq On : 04 Jan 2020 01:09
Operator : JU
Sample : K6471-10 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : MC-123019-0-2-COMP-B2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP010320.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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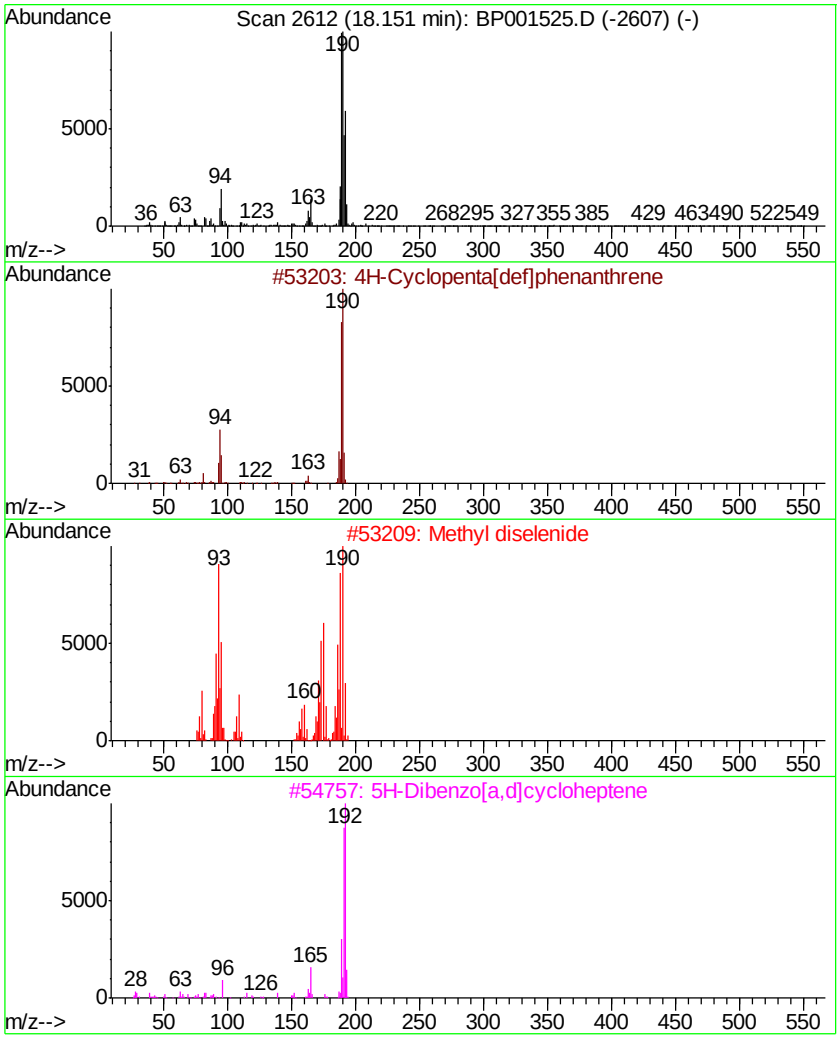
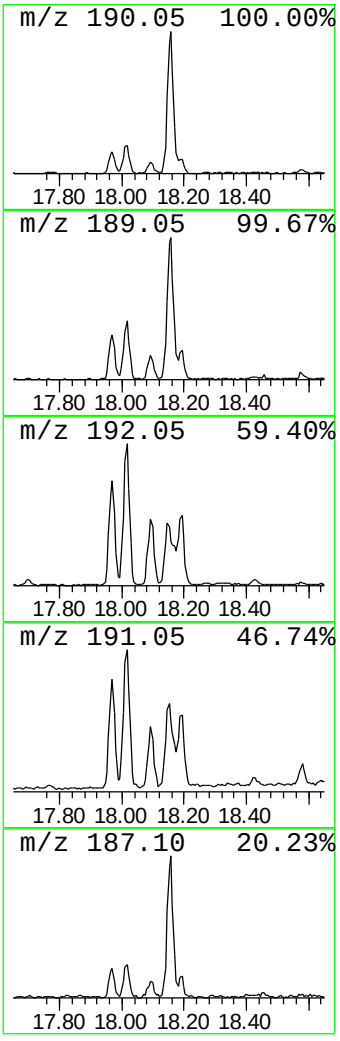
Peak Number 11 4H-Cyclopenta[def]phenanthrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.15	7.65 ng	315690	Phenanthrene-d10	17.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	70
2	Methyl diselenide	190	C2H6Se2	007101-31-7	41
3	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	38
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	35
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	30





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP010320\
Data File : BP001525.D
Acq On : 04 Jan 2020 01:09
Operator : JU
Sample : K6471-10 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : MC-123019-0-2-COMP-B2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP010320.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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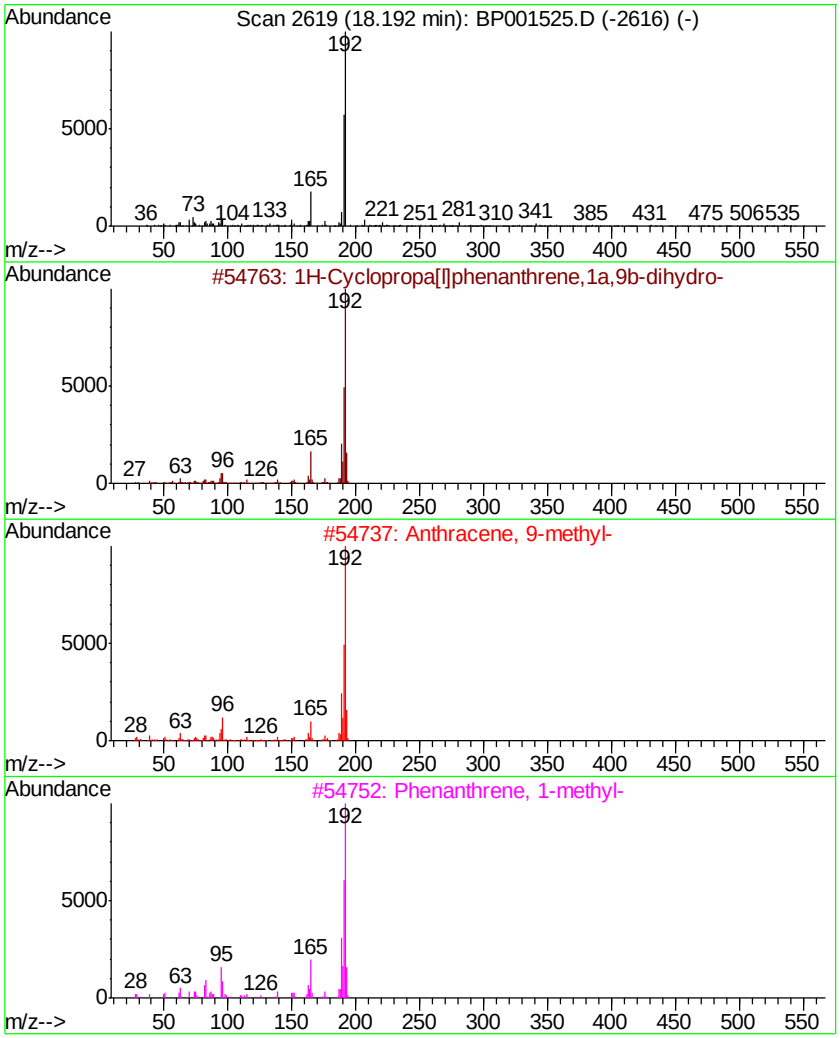
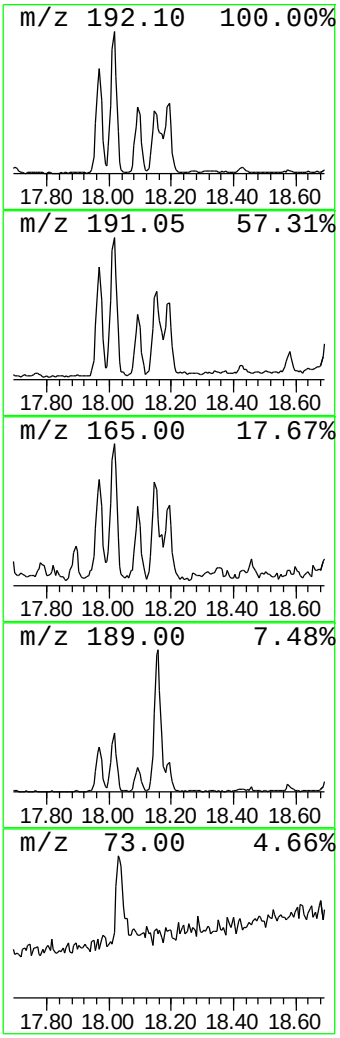
Peak Number 12 1H-Cyclopropa[l]phenanthren... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.19	2.68 ng	110780	Phenanthrene-d10	17.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	86
2	Anthracene, 9-methyl-	192	C15H12	000779-02-2	78
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	78
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	78
5	Propyne, 1,3-diphenyl-	192	C15H12	004980-70-5	72





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP010320\
Data File : BP001525.D
Acq On : 04 Jan 2020 01:09
Operator : JU
Sample : K6471-10 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : MC-123019-0-2-COMP-B2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP010320.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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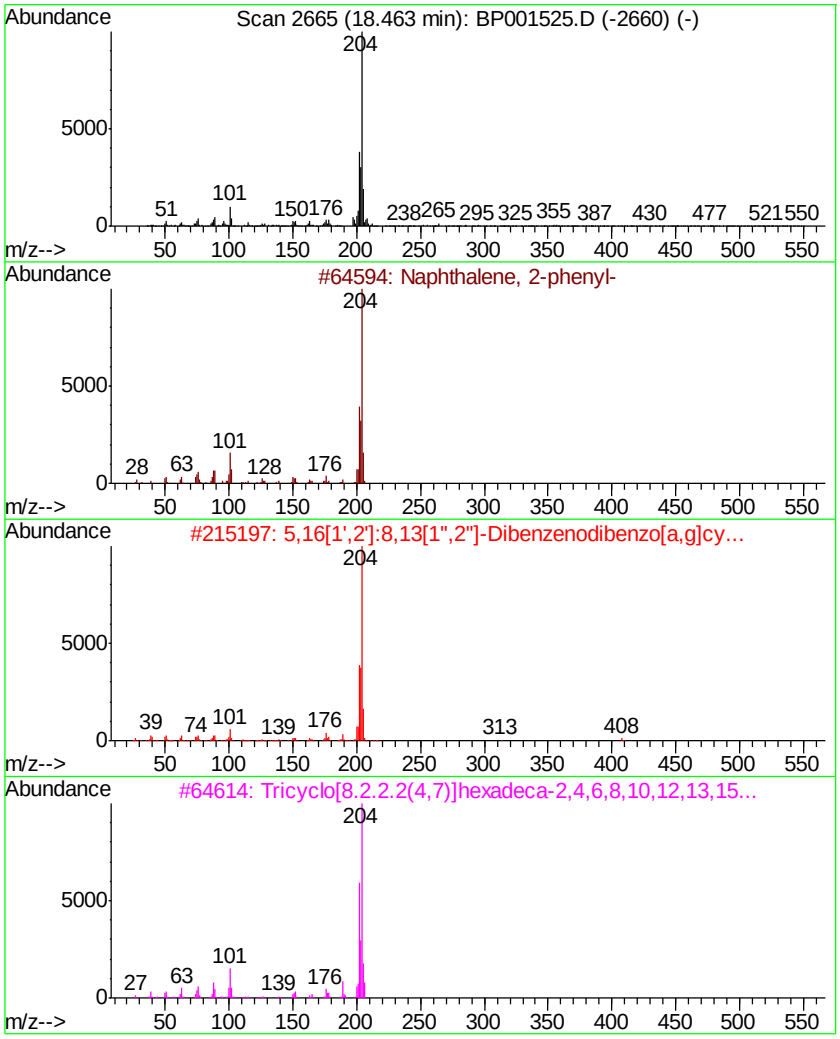
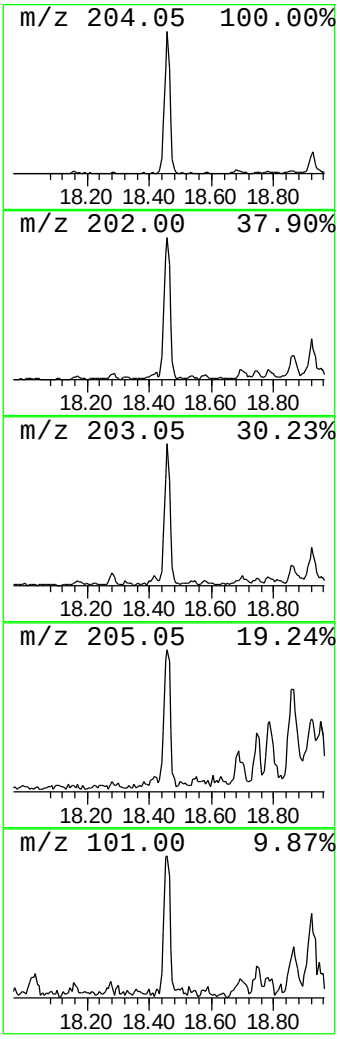
Peak Number 13 Naphthalene, 2-phenyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.46	3.16 ng	130324	Phenanthrene-d10	17.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	93
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	83
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	70
4	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	60
5	9-Acridinecarbonitrile	204	C14H8N2	005326-19-2	58





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP010320\
Data File : BP001525.D
Acq On : 04 Jan 2020 01:09
Operator : JU
Sample : K6471-10 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : MC-123019-0-2-COMP-B2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP010320.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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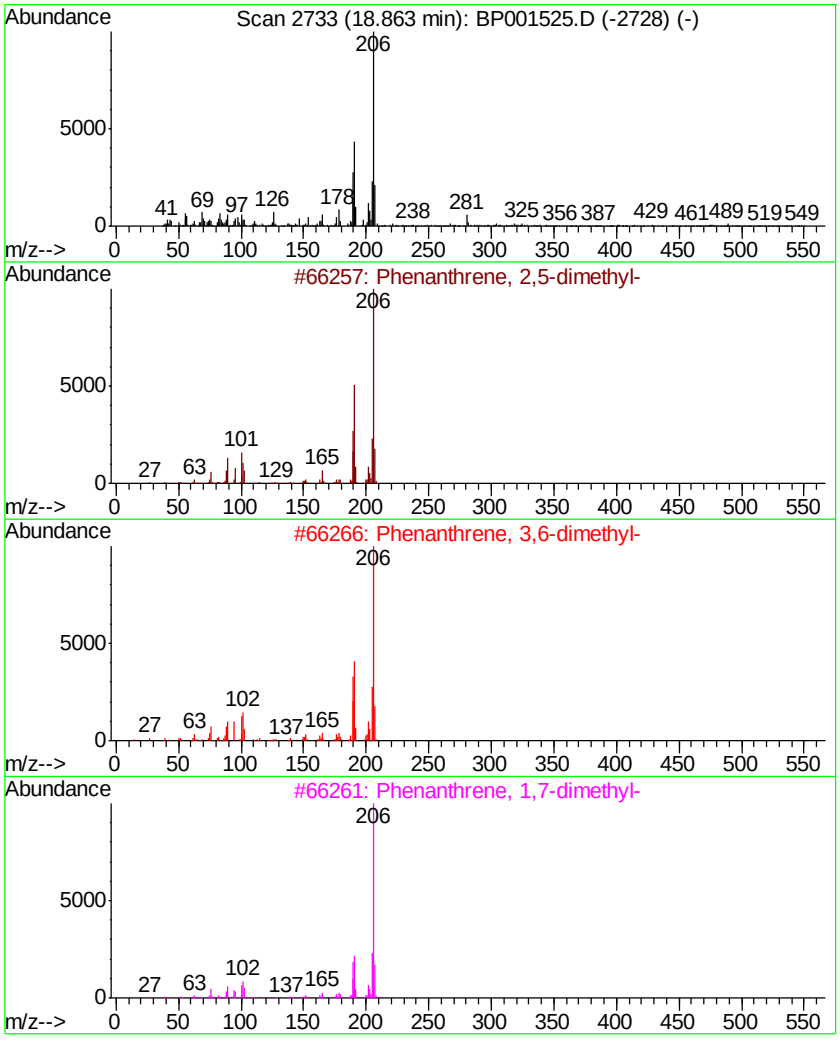
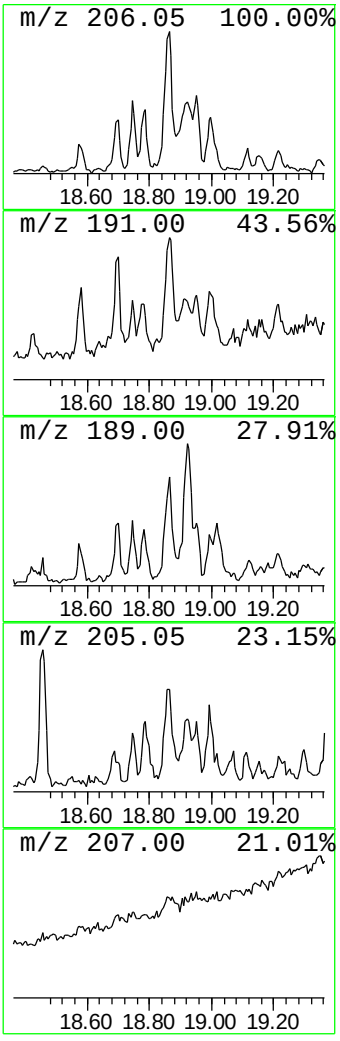
Peak Number 14 Phenanthrene, 2,5-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.86	3.08 ng	127164	Phenanthrene-d10	17.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	87
3	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	87
4	di-p-Tolylacetylene	206	C16H14	002789-88-0	87
5	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	83





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP010320\
Data File : BP001525.D
Acq On : 04 Jan 2020 01:09
Operator : JU
Sample : K6471-10 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : MC-123019-0-2-COMP-B2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP010320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

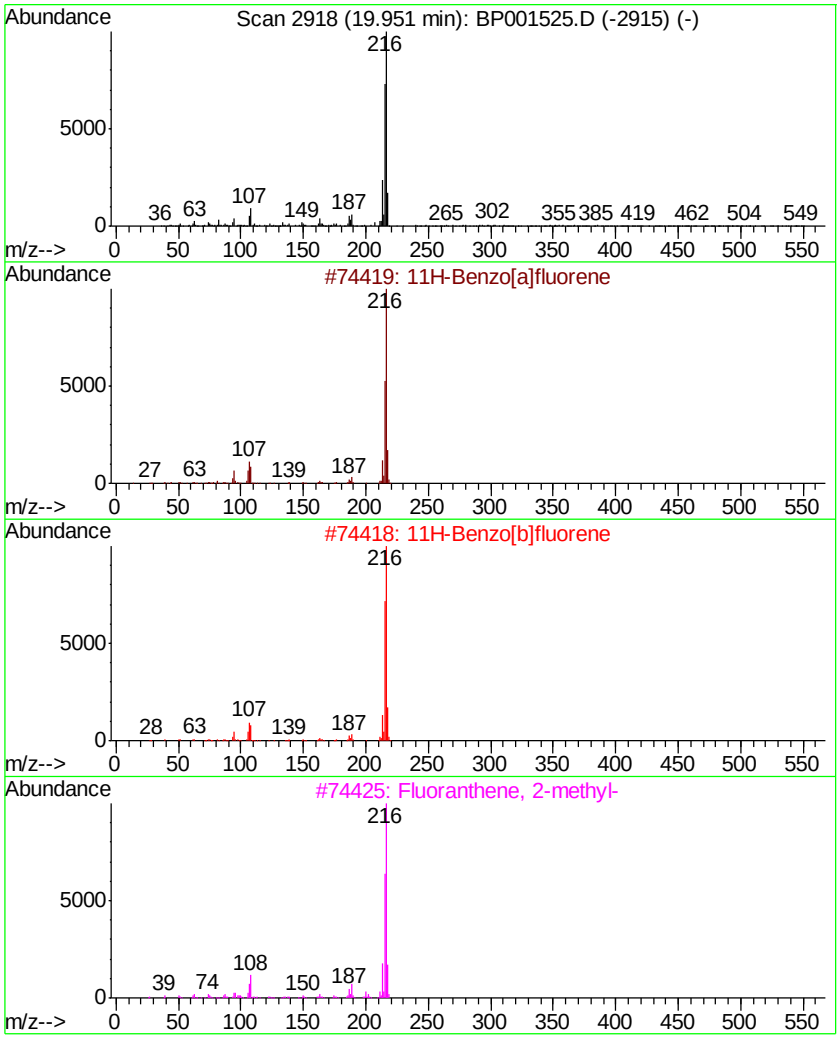
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

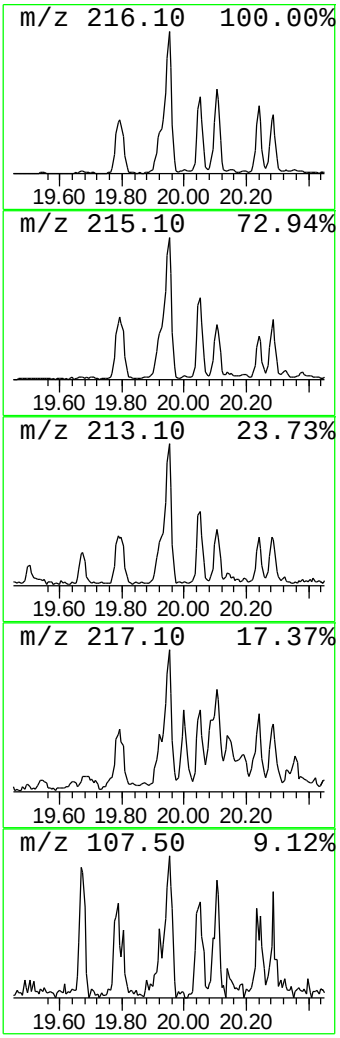
****

Peak Number 15 11H-Benzo[a]fluorene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.95	2.43 ng	198981	Chrysene-d12	21.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	90
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	87
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	87
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	72





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP010320\
Data File : BP001525.D
Acq On : 04 Jan 2020 01:09
Operator : JU
Sample : K6471-10 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
MC-123019-0-2-COMP-B2

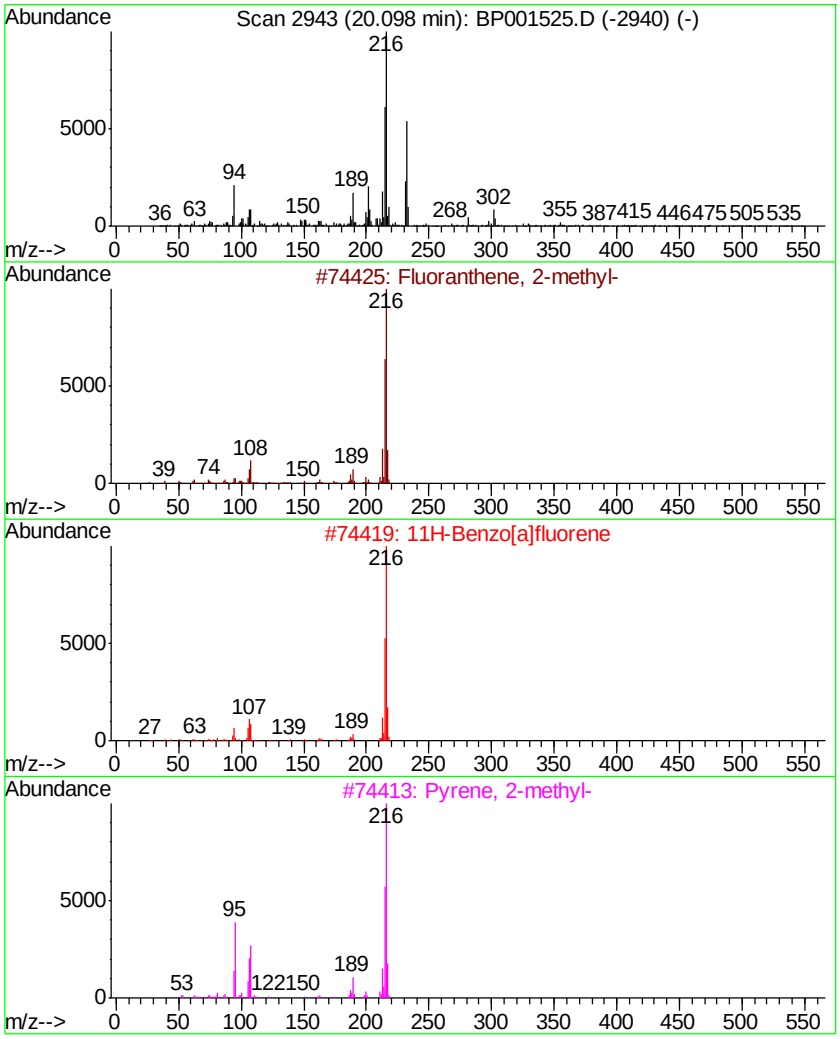
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP010320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

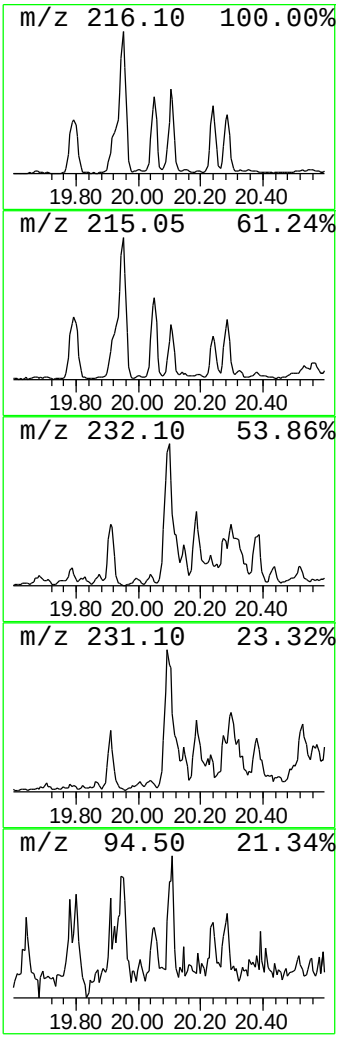
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 16 Fluoranthene, 2-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.10	2.34 ng	192203	Chrysene-d12	21.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	86
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	76
3	Pyrene, 2-methyl-	216	C17H12	003442-78-2	70
4	Pyrene, 4-methyl-	216	C17H12	003353-12-6	64
5	Pyrene, 1-methyl-	216	C17H12	002381-21-7	58





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_P\DATA\BP010320\
Data File : BP001525.D
Acq On : 04 Jan 2020 01:09
Operator : JU
Sample : K6471-10 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : MC-123019-0-2-COMP-B2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP010320.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...	3.02	2.9	ng	57931	1	7.69	404708	20.0
2-Pentanone, 4-hy...	4.90	3.5	ng	70980	1	7.69	404708	20.0
unknown7.24	7.24	17.0	ng	344604	1	7.69	404708	20.0
4,4'-Dimethylbiph...	16.85	2.1	ng	87537	4	17.09	825754	20.0
Dibenzothiophene	16.91	2.2	ng	92625	4	17.09	825754	20.0
Anthracene, 1-met...	17.97	3.8	ng	158635	4	17.09	825754	20.0
Phenanthrene, 1-m...	18.02	7.4	ng	304920	4	17.09	825754	20.0
Phenanthrene, 2-m...	18.09	2.6	ng	107641	4	17.09	825754	20.0
4H-Cyclopenta[def...	18.15	7.7	ng	315690	4	17.09	825754	20.0
1H-Cyclopropa[l]p...	18.19	2.7	ng	110780	4	17.09	825754	20.0
Naphthalene, 2-ph...	18.46	3.2	ng	130324	4	17.09	825754	20.0
Phenanthrene, 2,5...	18.86	3.1	ng	127164	4	17.09	825754	20.0
11H-Benzo[a]fluorene	19.95	2.4	ng	198981	5	21.19	1640140	20.0
Fluoranthene, 2-m...	20.10	2.3	ng	192203	5	21.19	1640140	20.0