LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
Data File : BF115871.D
Acq On : 31 Jul 2019 17:39
Operator : HP/JU
Sample : K4049-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SP-12

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.122	3	6	21	rVB	693972	863645	28.12%	1.969%
2	2.487	59	68	78	rVB	133584	209034	6.81%	0.477%
3	5.469	571	575	600	rVB	2520708	2709749	88.23%	6.177%
4	6.481	742	747	750	rBV	2778785	2785995	90.71%	6.351%
5	6.622	767	771	774	rBV	3232614	2870802	93.47%	6.544%
6	6.851	806	810	817	rVB	925984	760489	24.76%	1.734%
7	7.004	833	836	840	rBV	2362360	2261918	73.65%	5.156%
8	7.410	900	905	908	rBV	2013929	1809228	58.91%	4.124%
9	8.127	1024	1027	1030	rBV	1016987	920420	29.97%	2.098%
10	9.210	1206	1211	1214	rBV	3543944	3071332	100.00%	7.001%
11	9.604	1275	1278	1286	rVB	533759	452257	14.73%	1.031%
12	9.751	1299	1303	1307	rBV	102025	86665	2.82%	0.198%
13	9.892	1323	1327	1330	rBV	1154528	1053625	34.31%	2.402%
14	9.922	1330	1332	1336	rVB	62525	51300	1.67%	0.117%
15	10.092	1358	1361	1366	rBV	53720	55287	1.80%	0.126%
16	10.439	1416	1420	1426	rBV2	58366	63954	2.08%	0.146%
17	10.680	1456	1461	1472	rBV	1913874	2017798	65.70%	4.600%
18	10.810	1478	1483	1488	rVB6	34474	52908	1.72%	0.121%
19	11.139	1537	1539	1544	rVB3	37801	49713	1.62%	0.113%
20	11.186	1544	1547	1549	rBV	71451	67394	2.19%	0.154%
21	11.227	1549	1554	1555	rBV4	48908	58979	1.92%	0.134%
22	11.274	1560	1562	1567	rVB	57176	51538	1.68%	0.117%
23	11.374	1576	1579	1581	rBV	1164628	1034082	33.67%	2.357%
24	11.398	1581	1583	1587	rVV	1082917	901641	29.36%	2.055%
25	11.451	1589	1592	1595	rVB	195116	168890	5.50%	0.385%
26	11.486	1595	1598	1603	rBV3	70910	83665	2.72%	0.191%
27	11.604	1614	1618	1620	rBV2	122158	143834	4.68%	0.328%
28	11.668	1627	1629	1633	rVB2	87909	77108	2.51%	0.176%
29	11.710	1633	1636	1643	rBV7	41073	93453	3.04%	0.213%
30	11.768	1643	1646	1648	rBV	94953	77026	2.51%	0.176%
31	11.880	1661	1665	1666	rBV	184158	173185	5.64%	0.395%
32	11.910	1666	1670	1676	rVV	918018	917883	29.89%	2.092%
33	11.957	1676	1678	1681	rVB	70412	57527	1.87%	0.131%
34	11.992	1681	1684	1686	rBV2	190518	196389	6.39%	0.448%

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Instrument : BNA_F
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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 >
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Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	12.074	1695	1698	1702	rVB6	86513	100487	3.27%	0.229%
36	12.174	1712	1715	1717	rBV	105476	90383	2.94%	0.206%
37	12.204	1717	1720	1723	rVV2	133135	183379	5.97%	0.418%
38	12.233	1723	1725	1730	rVB2	78126	80314	2.61%	0.183%
39	12.304	1735	1737	1739	rBV2	55177	54740	1.78%	0.125%
40	12.427	1755	1758	1763	rBV	127554	188633	6.14%	0.430%
41	12.515	1771	1773	1777	rVB	102263	82149	2.67%	0.187%
42	12.592	1782	1786	1791	rBV	1916408	1613548	52.54%	3.678%
43	12.692	1799	1803	1810	rBV3	512560	703224	22.90%	1.603%
44	12.821	1819	1825	1828	rBV	1656895	1618516	52.70%	3.690%
45	12.962	1842	1849	1852	rBV	2684066	2630959	85.66%	5.997%
46	13.127	1874	1877	1878	rBV2	79797	85012	2.77%	0.194%
47	13.215	1890	1892	1895	rBV	75539	64067	2.09%	0.146%
48	13.251	1895	1898	1901	rVB2	179634	183224	5.97%	0.418%
49	13.345	1912	1914	1917	rVB2	106325	92260	3.00%	0.210%
50	13.374	1917	1919	1923	rBV	94140	99654	3.24%	0.227%
51	13.574	1951	1953	1956	rVB	99914	75499	2.46%	0.172%
52	13.657	1965	1967	1971	rVB	172253	161314	5.25%	0.368%
53	13.768	1983	1986	1988	rBV2	149462	146163	4.76%	0.333%
54	13.792	1988	1990	1992	rVV	106599	93238	3.04%	0.213%
55	13.815	1992	1994	2000	rVV2	203962	281503	9.17%	0.642%
56	13.868	2000	2003	2006	rVB	161886	162058	5.28%	0.369%
57	14.015	2023	2028	2031	rBV2	1185220	1659380	54.03%	3.783%
58	14.045	2031	2033	2036	rVB	741216	579523	18.87%	1.321%
59	14.404	2092	2094	2098	rVB	142808	126620	4.12%	0.289%
60	14.786	2157	2159	2164	rVB2	131148	149147	4.86%	0.340%
61	15.062	2202	2206	2209	rBV	772271	1142926	37.21%	2.605%
62	15.127	2213	2217	2221	rVV3	237561	341866	11.13%	0.779%
63	15.168	2221	2224	2228	rVB	139375	145275	4.73%	0.331%
64	15.362	2253	2257	2263	rVB	468217	647866	21.09%	1.477%
65	15.427	2264	2268	2273	rVB	648720	767570	24.99%	1.750%
66	15.492	2274	2279	2291	rBV3	818196	1581148	51.48%	3.604%
67	15.939	2350	2355	2359	rBV	209401	329988	10.74%	0.752%
68	16.956	2523	2528	2537	rVB2	340273	666281	21.69%	1.519%
69	17.403	2598	2604	2615	rVB	280418	585897	19.08%	1.336%
70	17.645	2641	2645	2652	rVB2	51055	105330	3.43%	0.240%

LSC Area Percent Report

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Integration Parameters: rteint.p
Integrator: RTE
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Sampling : 1 Min Area: 3 % of largest Peak
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Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Sum of corrected areas: 43867854

LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
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Acq On : 31 Jul 2019 17:39
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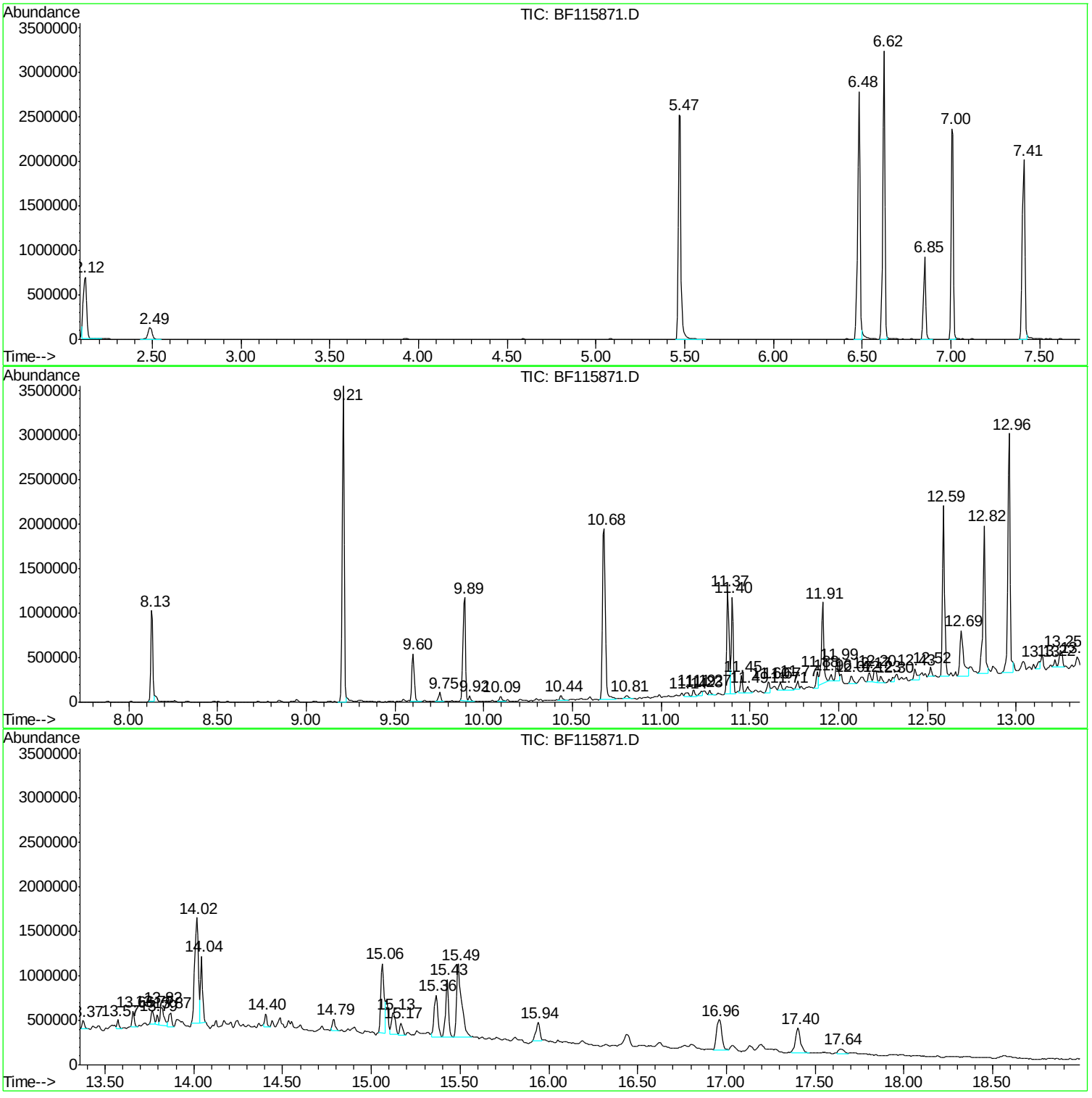
Sample : K4049-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SP-12

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
Data File : BF115871.D
Acq On : 31 Jul 2019 17:39
Operator : HP/JU
Sample : K4049-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SP-12

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

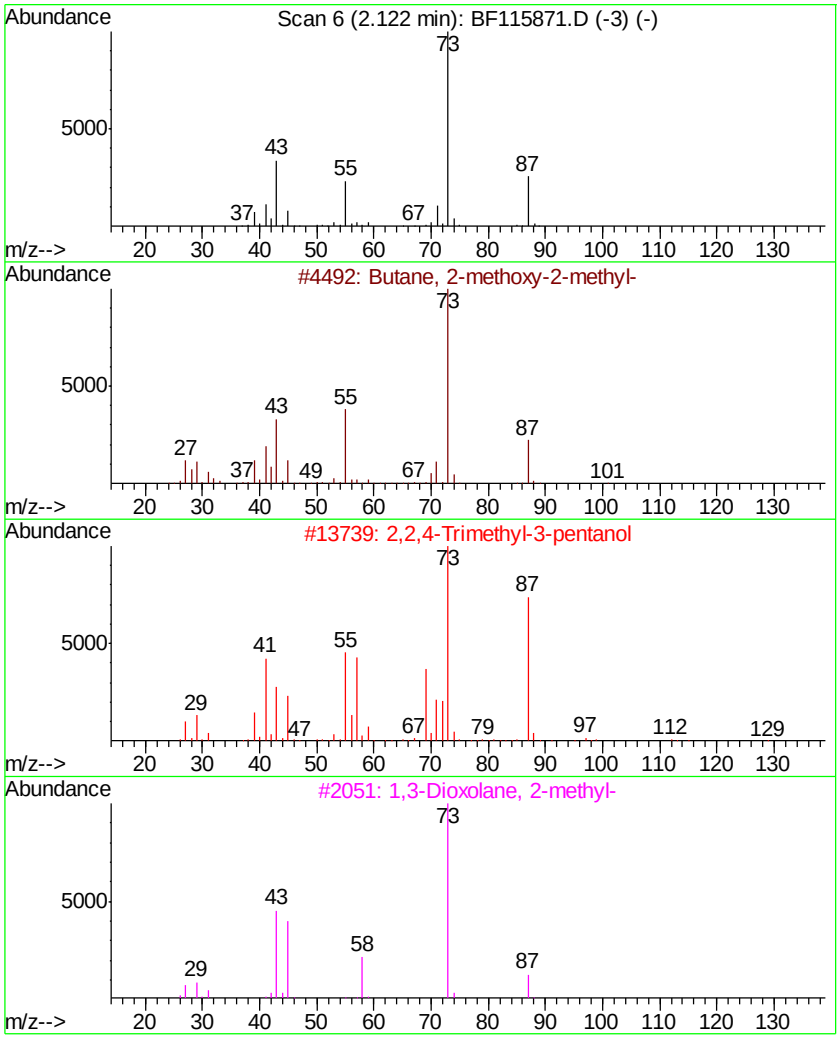
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

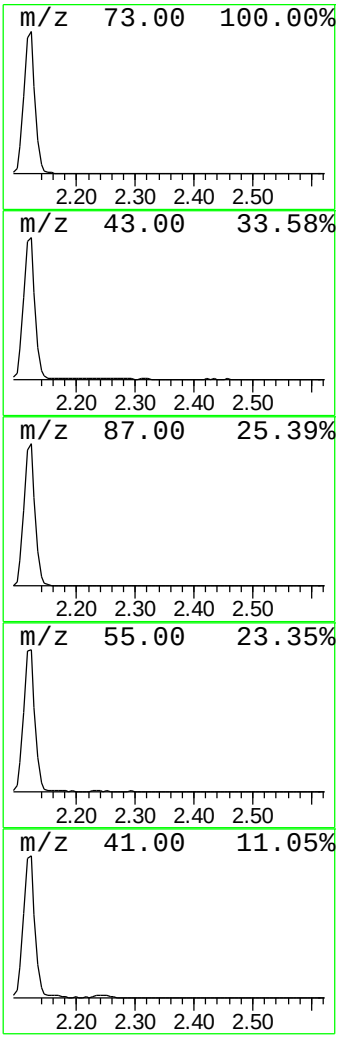
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.12	22.71 ng	863645	1,4-Dichlorobenzene-d4	6.85

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	39
3	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	25
4	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	23
5	Silane, tetramethyl-	88	C4H12Si	000075-76-3	17





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
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Sample : K4049-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SP-12

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

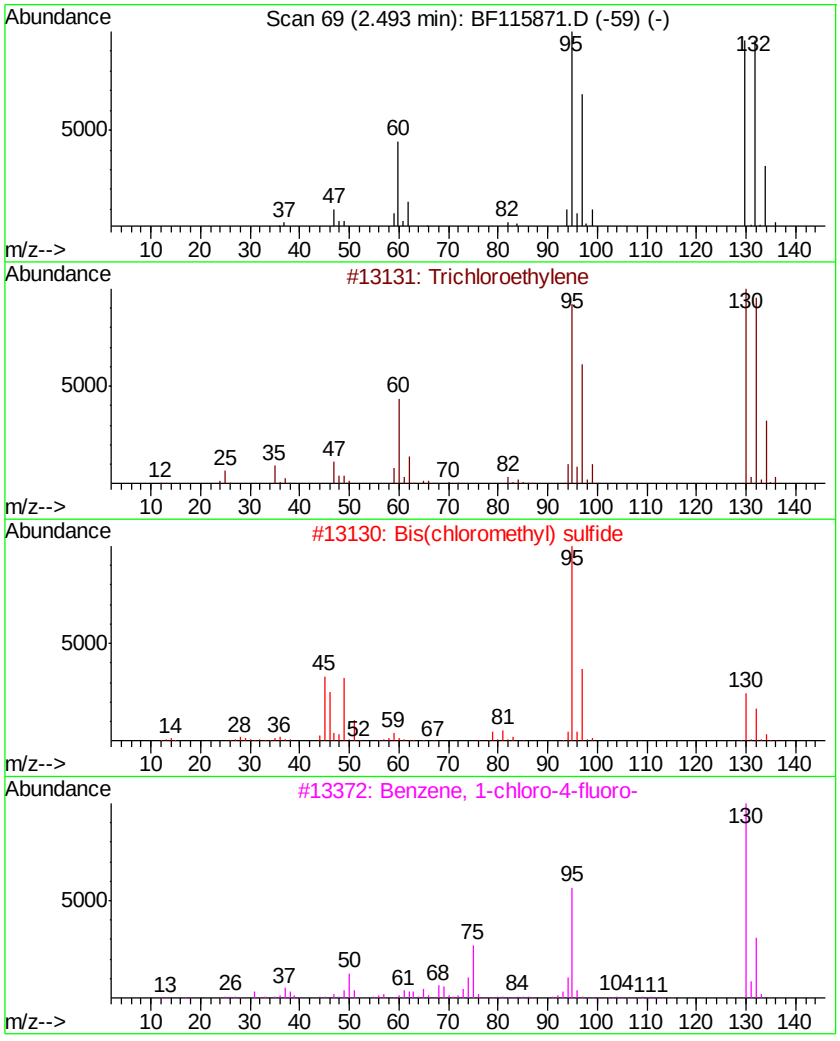
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

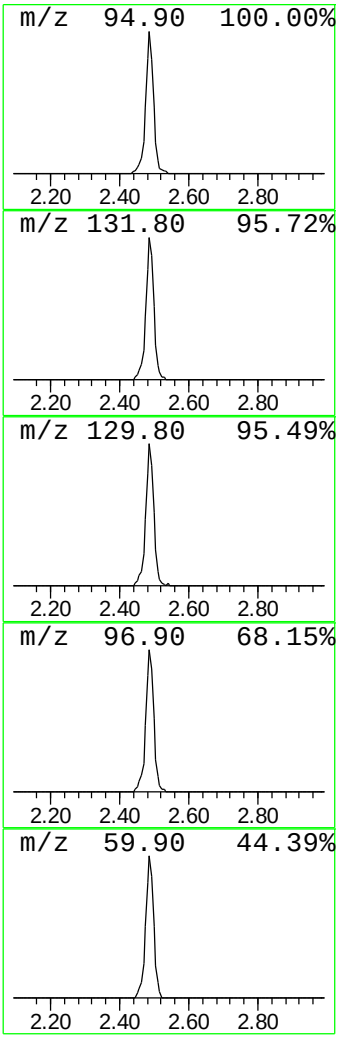
****

Peak Number 2 Bis(chloromethyl) sulfide Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.49	5.50 ng	209034	1,4-Dichlorobenzene-d4	6.85

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Trichloroethylene	130	C2HCl3	000079-01-6	98
2	Bis(chloromethyl) sulfide	130	C2H4Cl2S	003592-44-7	53
3	Benzene, 1-chloro-4-fluoro-	130	C6H4ClF	000352-33-0	22
4	1,3-Oxathiane, 4,6-dimethyl-, tr...	132	C6H12OS	022452-26-2	10
5	Methylphosphonothioicchlorofluoride	132	CH3ClFPS	027127-27-1	10





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
Data File : BF115871.D
Acq On : 31 Jul 2019 17:39
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Sample : K4049-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SP-12

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

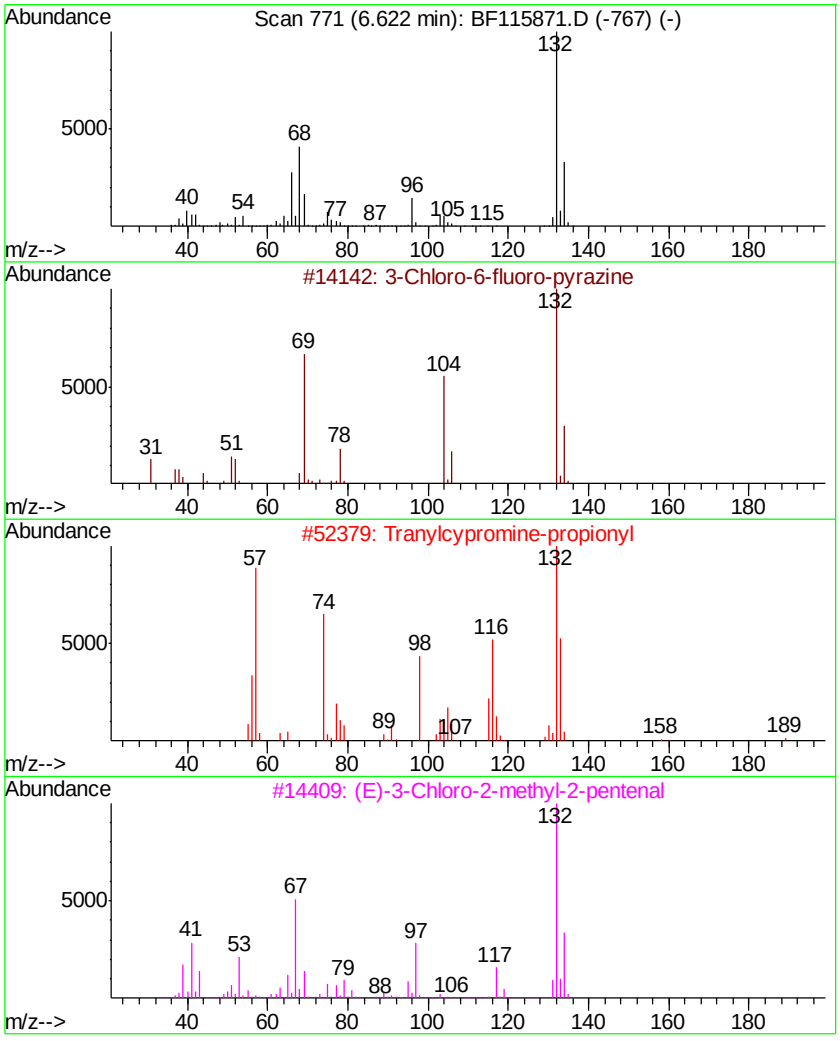
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

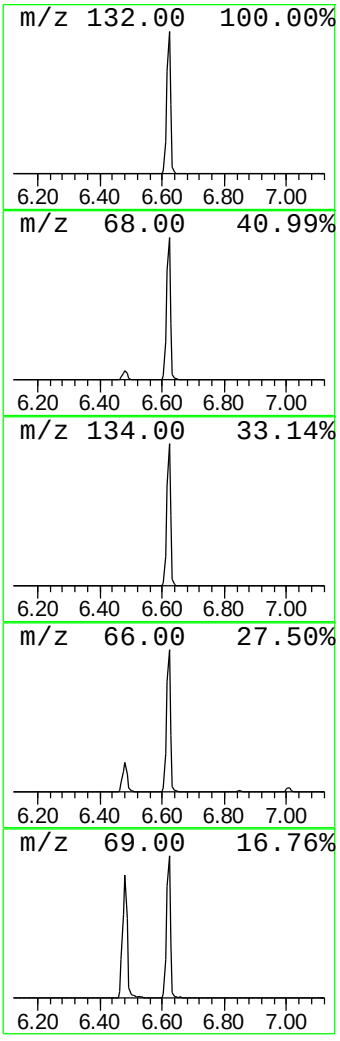
****

Peak Number 3 unknown6.62 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.62	75.50 ng	2870800	1,4-Dichlorobenzene-d4	6.85

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	12
3	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	12
4	Xenon	132	Xe	007440-63-3	9
5	Bicyclo[4.2.0]octa-1,3,5-triene,...	132	C10H12	028749-81-7	9





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

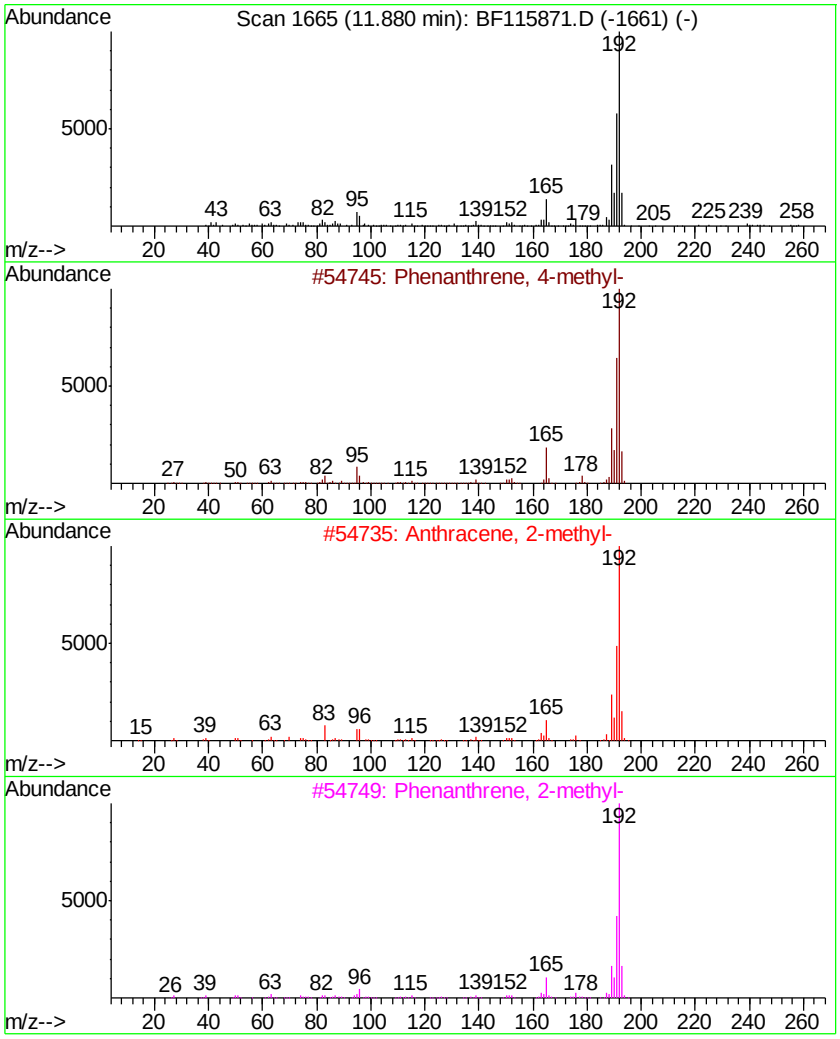
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

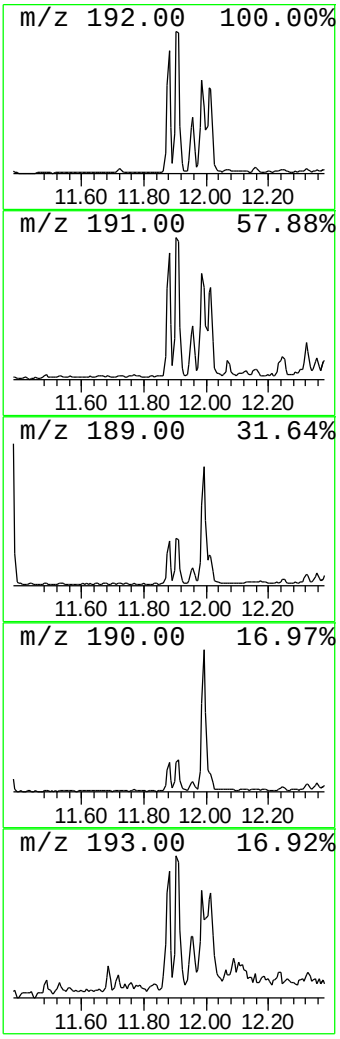
****

Peak Number 5 Phenanthrene, 4-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.88	3.35 ng	173185	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	96
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	91
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91





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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

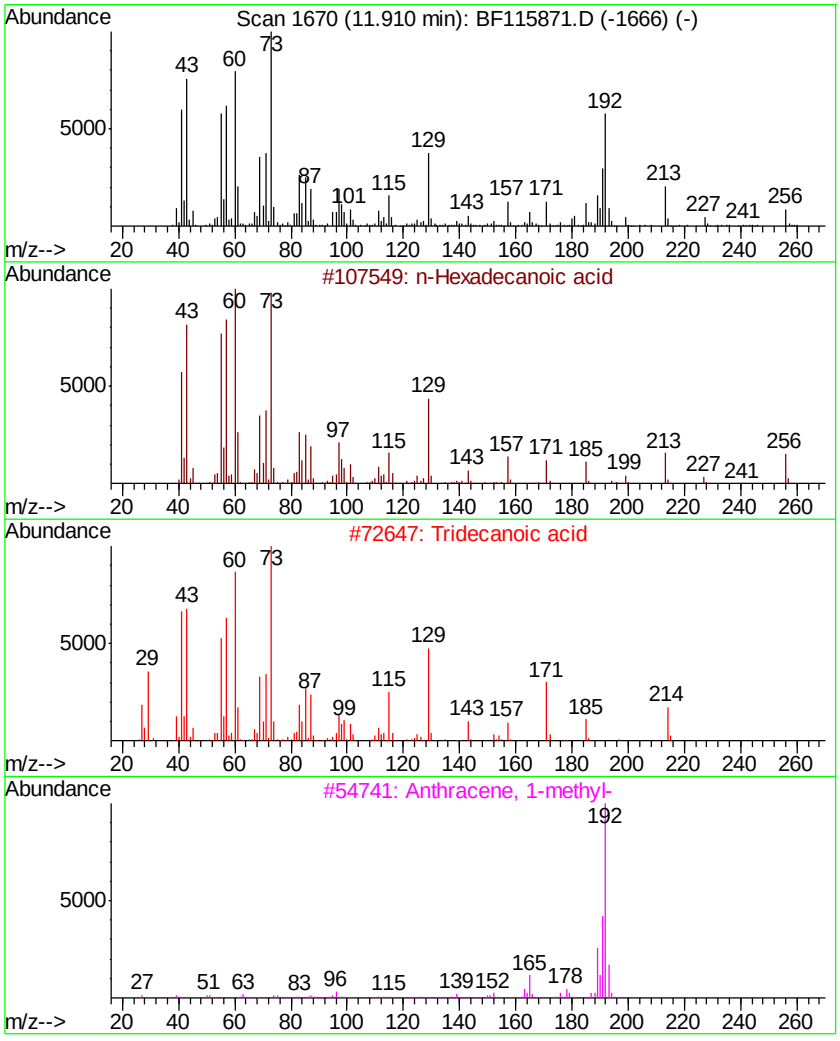
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

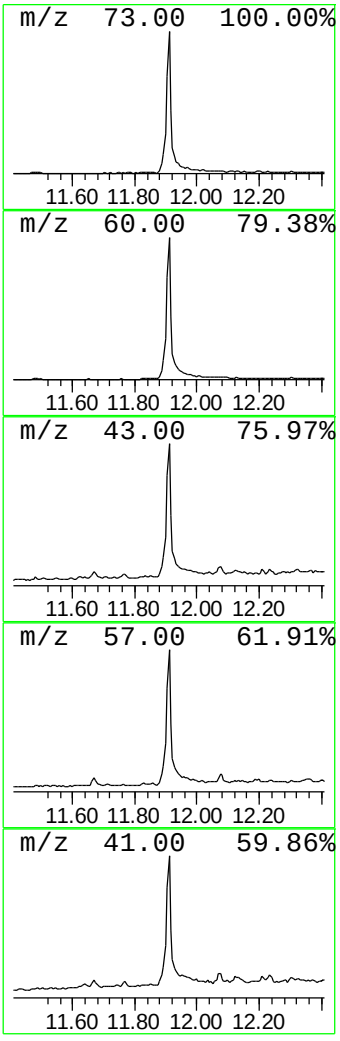
****

Peak Number 6 n-Hexadecanoic acid Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.91	17.75 ng	917883	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Tridecanoic acid	214	C13H26O2	000638-53-9	93
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	90
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	83
5	Pentadecanoic acid	242	C15H30O2	001002-84-2	83





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Instrument : BNA_F
ClientSampleId : SP-12

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

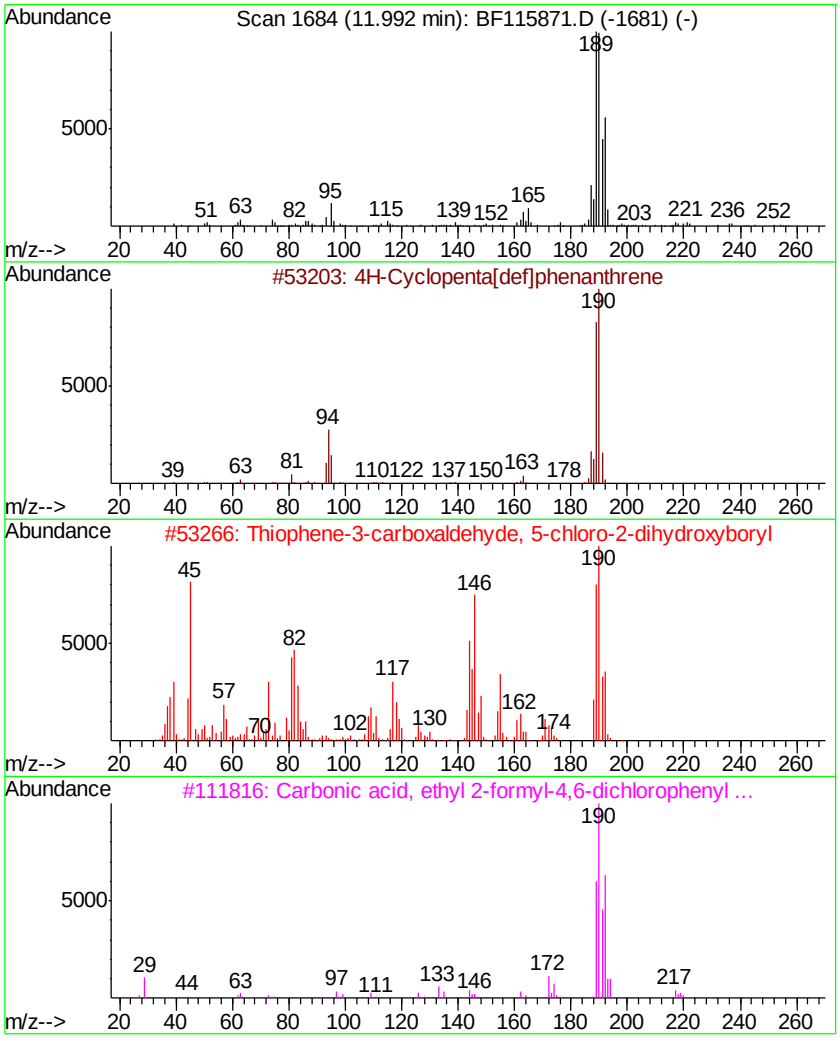
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

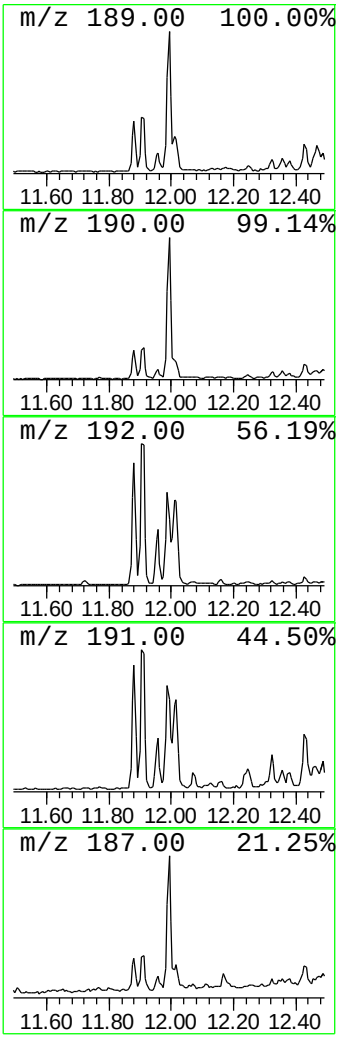
****

Peak Number 7 4H-Cyclopenta[def]phenanthrene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.99	3.80 ng	196389	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	70
2	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	53
3	Carbonic acid, ethyl 2-formyl-4,...	262	C10H8Cl2O4	1000331-34-4	50
4	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	46
5	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	43





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Instrument : BNA_F
ClientSampleId : SP-12

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
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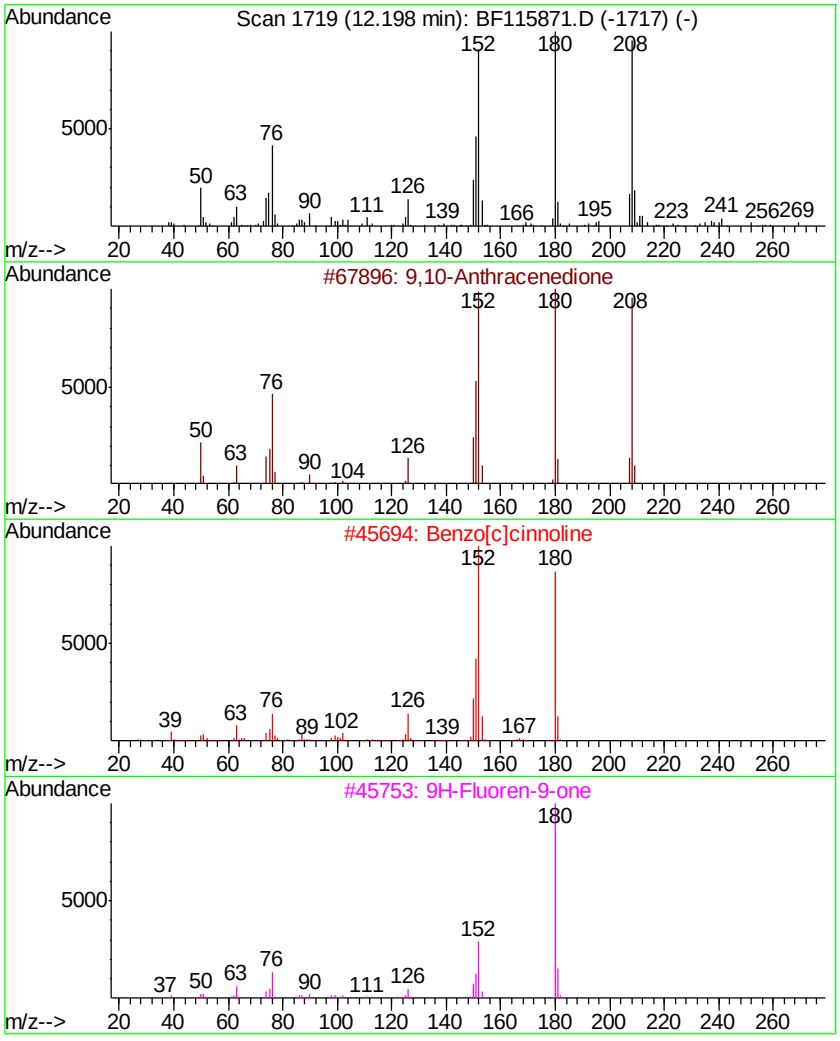
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

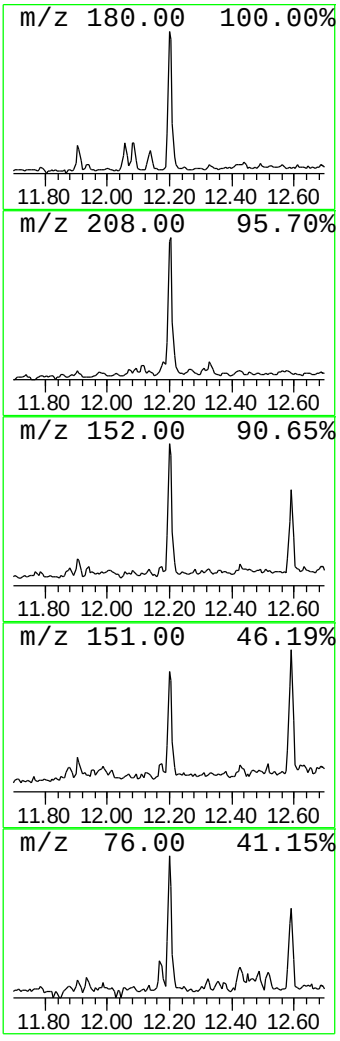
****

Peak Number 8 9,10-Anthracenedione Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.20	3.55 ng	183379	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	97
2	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	83
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	64
4	1H-Phenalen-1-one	180	C13H8O	000548-39-0	49
5	1,4-Anthracenedione	208	C14H8O2	000635-12-1	47





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Acq On : 31 Jul 2019 17:39
Operator : HP/JU
Sample : K4049-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SP-12

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.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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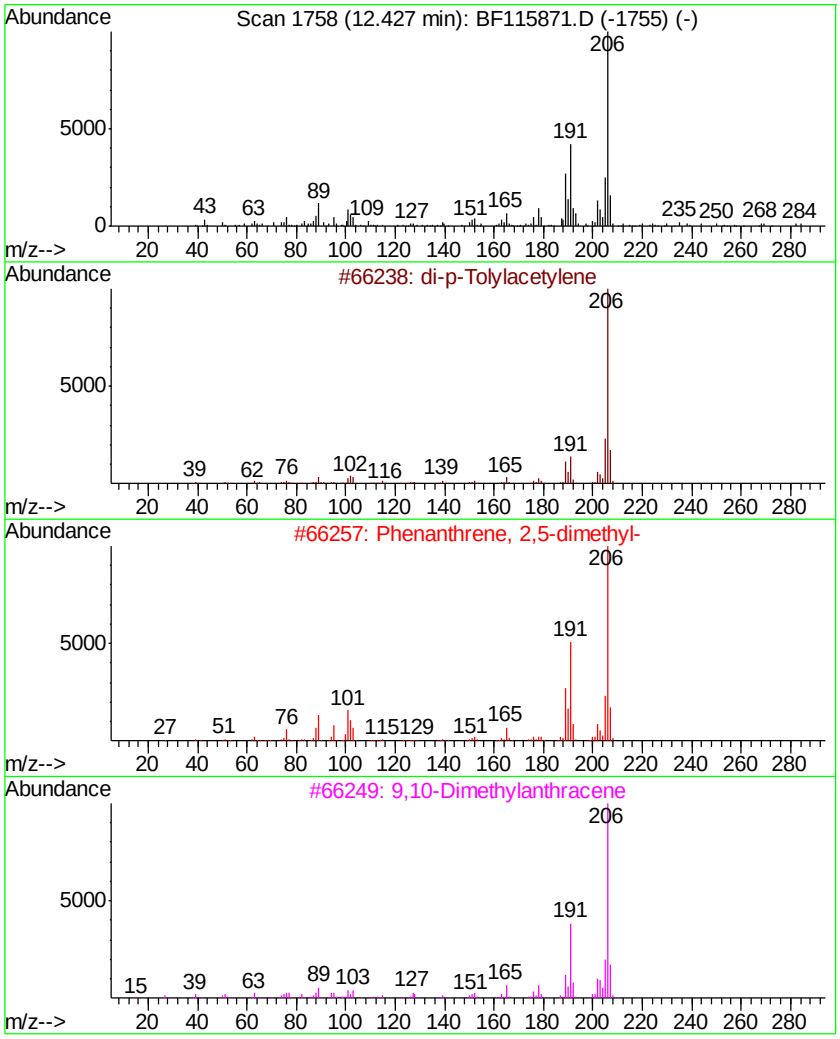
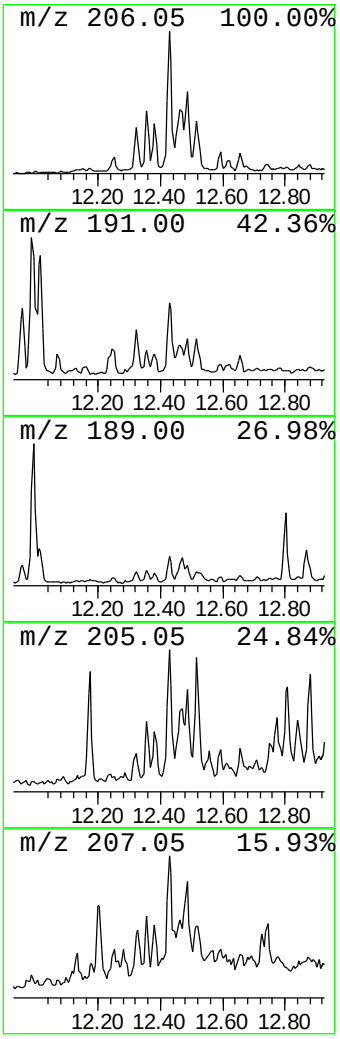
Peak Number 9 di-p-Tolylacetylene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.43	3.65 ng	188633	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	di-p-Tolylacetylene	206	C16H14	002789-88-0	95
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	93
4	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	93
5	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	90





Library Search Compound Report

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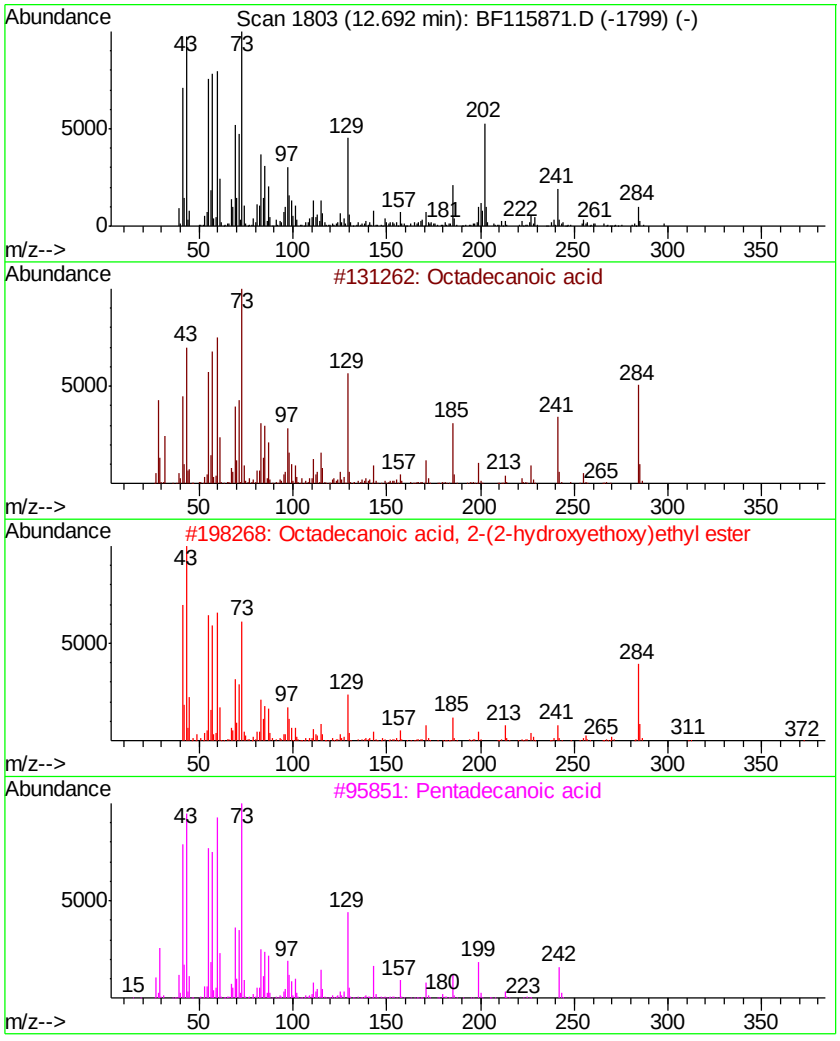
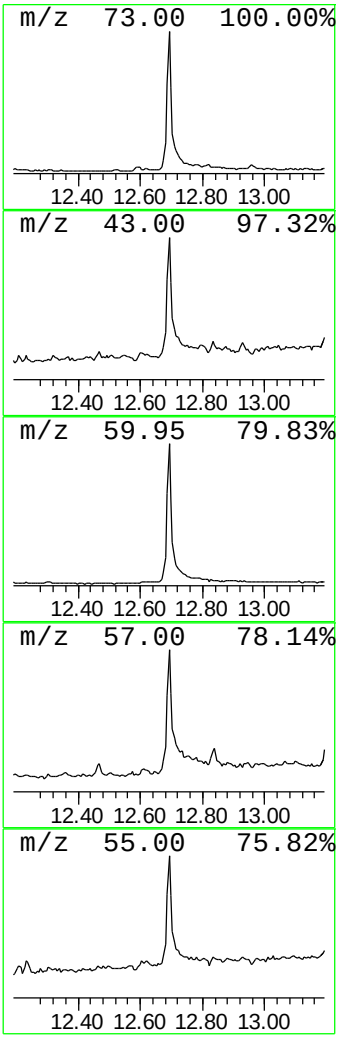
Peak Number 10 Octadecanoic acid Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.69	13.60 ng	703224	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99
2	Octadecanoic acid, 2-(2-hydroxye...	372	C22H44O4	000106-11-6	74
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	64
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	62
5	n-Decanoic acid	172	C10H20O2	000334-48-5	55





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Instrument : BNA_F
ClientSampleId : SP-12

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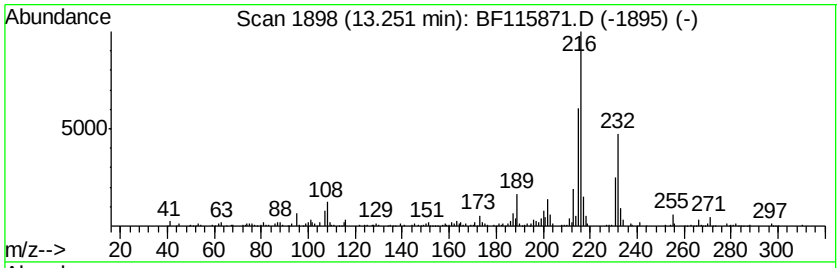
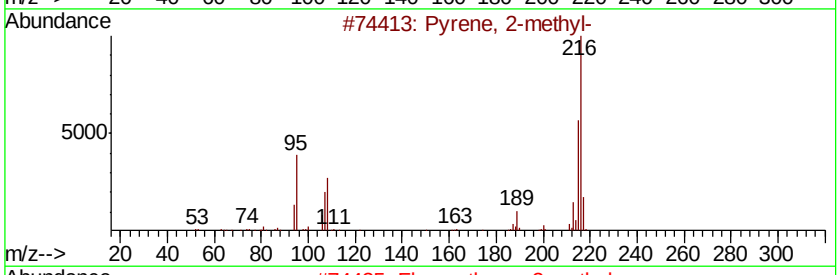
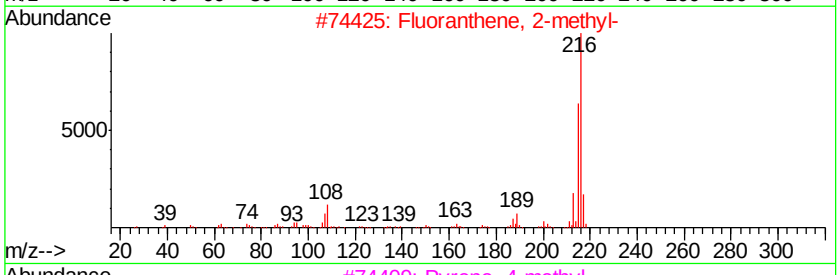
Peak Number 11 Pyrene, 2-methyl- Concentration Rank 14

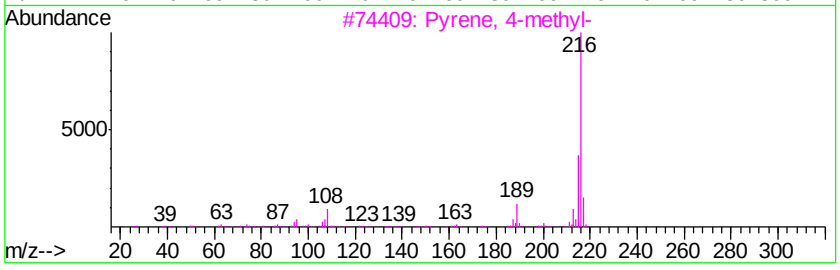
R.T.	EstConc	Area	Relative to ISTD	R.T.
13.25	2.21 ng	183224	Chrysene-d12	14.02

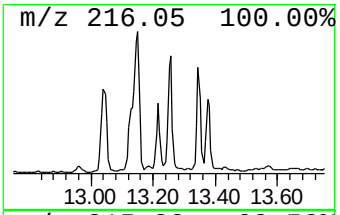
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 2-methyl-	216	C17H12	003442-78-2	90
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	90
3	Pyrene, 4-methyl-	216	C17H12	003353-12-6	70
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	70
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	60

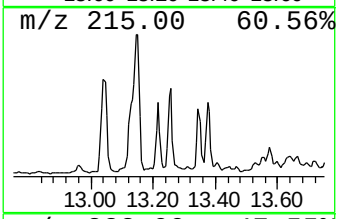


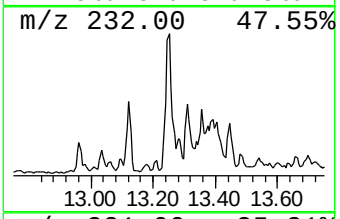


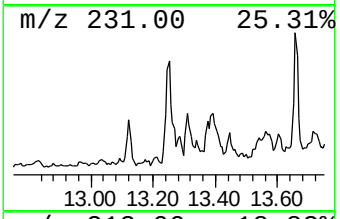


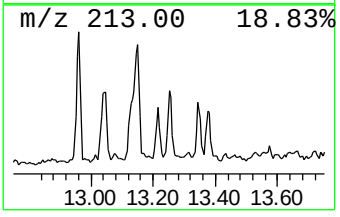












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TIC Integration Parameters: LSCINT.P

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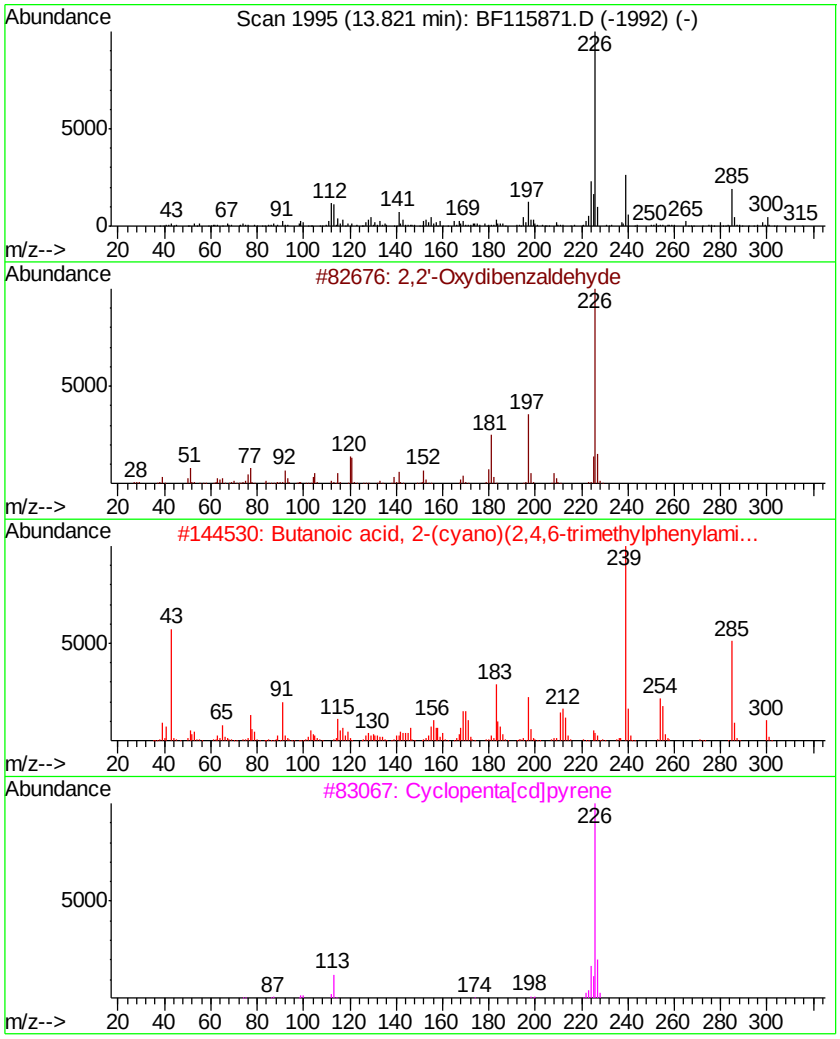
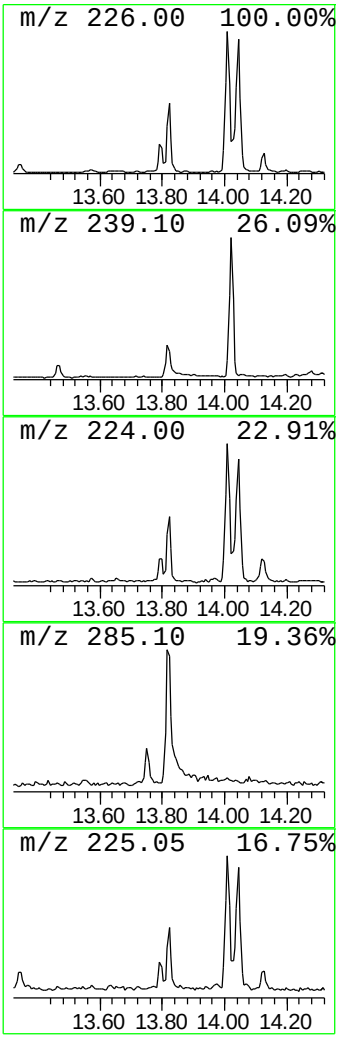
Peak Number 12 unknown13.82 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.82	3.39 ng	281503	Chrysene-d12	14.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,2'-Oxydibenzaldehyde	226	C14H10O3	049590-51-4	38
2	Butanoic acid, 2-(cyano)(2,4,6-t...	300	C17H20N2O3	1000267-71-7	30
3	Cyclopenta[cd]pyrene	226	C18H10	027208-37-3	30
4	3-Amino-10H-dibenzo[b,f][1,4]oxa...	226	C13H10N2O2	1000311-61-3	27
5	Benzene, [4-(3-ethynylphenyl)-1,...	226	C18H10	1000115-87-3	27





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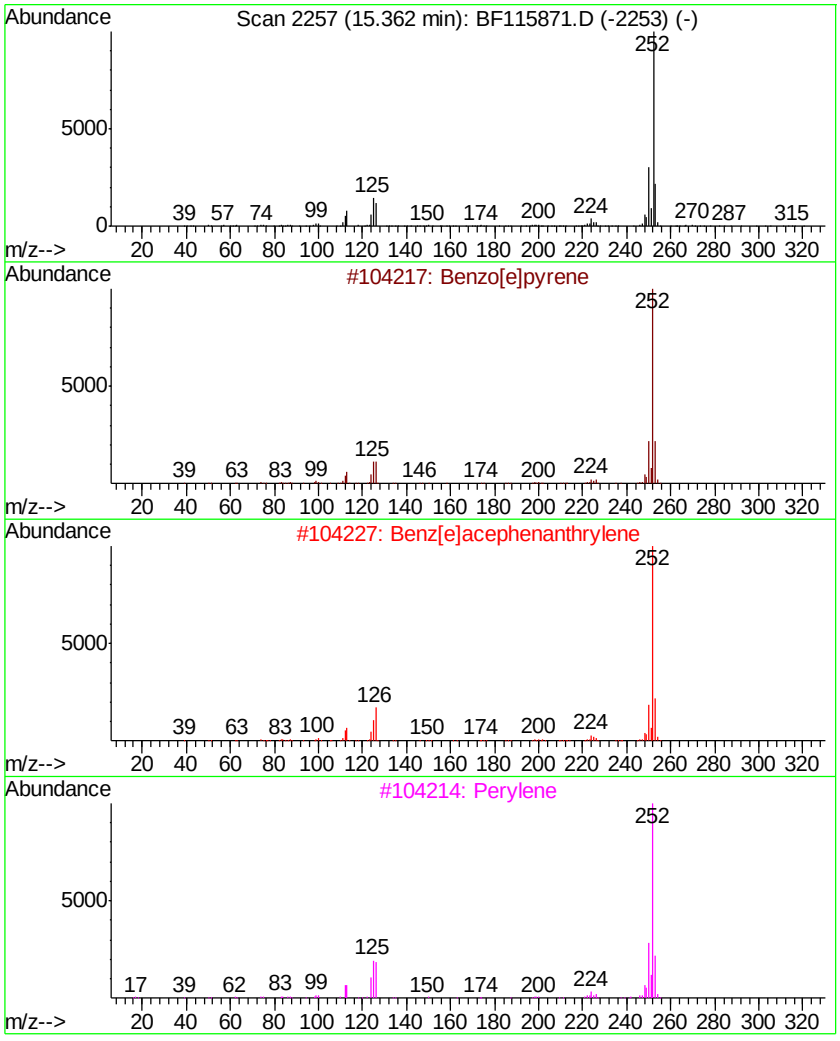
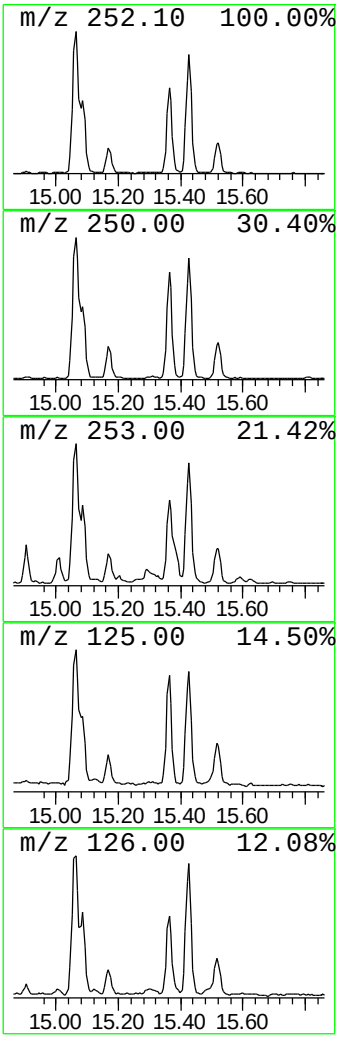
Peak Number 13 Benzo[e]pyrene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.36	8.19 ng	647866	Perylene-d12	15.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	99
2	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	97
3	Perylene	252	C20H12	000198-55-0	96
4	Benzo[j]fluoranthene	252	C20H12	000205-82-3	95
5	Benzo[a]pyrene	252	C20H12	000050-32-8	94





Library Search Compound Report

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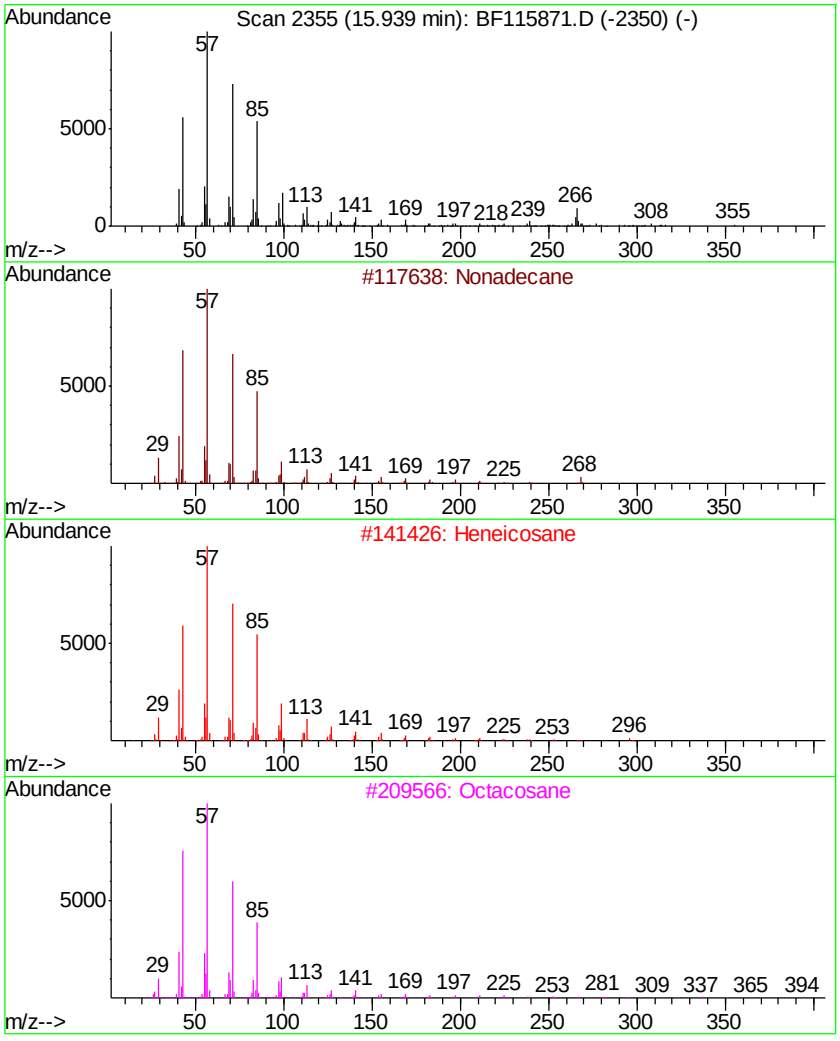
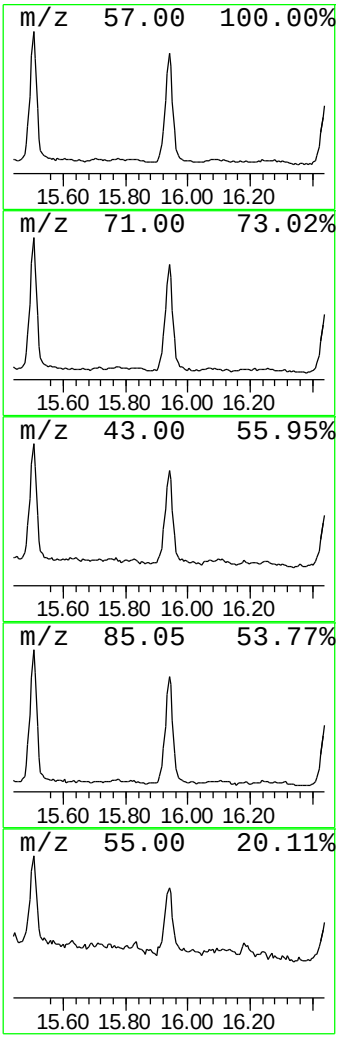
Peak Number 14 Nonadecane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.94	4.17 ng	329988	Perylene-d12	15.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonadecane	268	C19H40	000629-92-5	94
2	Heneicosane	296	C21H44	000629-94-7	87
3	Octacosane	394	C28H58	000630-02-4	87
4	Hexacosane	366	C26H54	000630-01-3	87
5	Heneicosane, 11-(1-ethylpropyl)-	366	C26H54	055282-11-6	80





Tentatively Identified Compound (LSC) summary

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TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Butane, 2-methoxy...	2.12	22.7	ng	863645	1	6.85	760489	20.0
Bis(chloromethyl)...	2.49	5.5	ng	209034	1	6.85	760489	20.0
unknown6.62	6.62	75.5	ng	2870800	1	6.85	760489	20.0
Phenanthrene, 4-m...	11.88	3.4	ng	173185	4	11.37	1034080	20.0
n-Hexadecanoic acid	11.91	17.8	ng	917883	4	11.37	1034080	20.0
4H-Cyclopenta[def...	11.99	3.8	ng	196389	4	11.37	1034080	20.0
9,10-Anthracenedione	12.20	3.5	ng	183379	4	11.37	1034080	20.0
di-p-Tolylacetylene	12.43	3.6	ng	188633	4	11.37	1034080	20.0
Octadecanoic acid	12.69	13.6	ng	703224	4	11.37	1034080	20.0
Pyrene, 2-methyl-	13.25	2.2	ng	183224	5	14.02	1659380	20.0
unknown13.82	13.82	3.4	ng	281503	5	14.02	1659380	20.0
Benzo[e]pyrene	15.36	8.2	ng	647866	6	15.49	1581150	20.0
Nonadecane	15.94	4.2	ng	329988	6	15.49	1581150	20.0