LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM083019\
Data File : BM022461.D
Acq On : 31 Aug 2019 03:26
Operator : HP/JU
Sample : K4439-03 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : S-2-(1-3)

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_M\METHODS\8270-BM082919.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	5.140	361	366	379	rBV	154100	237603	14.50%	1.400%
2	6.722	629	635	652	rBV	140086	255886	15.62%	1.508%
3	7.058	686	692	702	rBV	170192	269843	16.47%	1.590%
4	7.516	765	770	777	rBB	101531	152081	9.28%	0.896%
5	7.828	817	823	832	rBB	140224	215480	13.15%	1.270%
6	8.693	964	970	987	rBV	81307	150391	9.18%	0.886%
7	10.293	1235	1242	1256	rBV	101101	180880	11.04%	1.066%
8	12.787	1660	1666	1678	rBV	217411	317968	19.41%	1.874%
9	13.663	1811	1815	1822	rBB	16312	21806	1.33%	0.129%
10	14.181	1898	1903	1910	rBV	167135	239917	14.64%	1.414%
11	14.245	1910	1914	1920	rVB	16337	21937	1.34%	0.129%
12	15.698	2156	2161	2172	rBV	223358	325014	19.84%	1.915%
13	16.622	2312	2318	2323	rBV4	10832	17846	1.09%	0.105%
14	16.692	2323	2330	2335	rVV4	11988	25921	1.58%	0.153%
15	16.769	2339	2343	2350	rVB2	12123	16994	1.04%	0.100%
16	16.951	2368	2374	2377	rBV	241097	322271	19.67%	1.899%
17	16.992	2377	2381	2388	rVB	351985	459450	28.04%	2.708%
18	17.086	2392	2397	2401	rBV	64822	85485	5.22%	0.504%
19	17.380	2443	2447	2451	rVB2	13364	17426	1.06%	0.103%
20	17.469	2458	2462	2467	rBV	12789	18017	1.10%	0.106%
21	17.822	2517	2522	2528	rBV2	73034	148796	9.08%	0.877%
22	17.874	2528	2531	2536	rVB	100858	127605	7.79%	0.752%
23	17.957	2541	2545	2550	rVV2	29205	42549	2.60%	0.251%
24	18.016	2550	2555	2559	rVV2	95916	164897	10.07%	0.972%
25	18.057	2559	2562	2568	rVB	52756	72331	4.42%	0.426%
26	18.333	2603	2609	2615	rBV	58695	83223	5.08%	0.490%
27	18.404	2615	2621	2626	rVB2	43777	64838	3.96%	0.382%
28	18.451	2626	2629	2633	rVB3	12833	16478	1.01%	0.097%
29	18.580	2647	2651	2655	rVV2	24670	38893	2.37%	0.229%
30	18.627	2657	2659	2663	rVV	24944	26872	1.64%	0.158%
31	18.669	2663	2666	2670	rVV	18673	23107	1.41%	0.136%
32	18.751	2675	2680	2685	rBV	67489	114689	7.00%	0.676%
33	18.816	2685	2691	2694	rBV3	25033	50809	3.10%	0.299%
34	18.845	2694	2696	2700	rVB2	24626	25192	1.54%	0.148%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM083019\
Data File : BM022461.D
Acq On : 31 Aug 2019 03:26
Operator : HP/JU
Sample : K4439-03 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : S-2-(1-3)

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_M\METHODS\8270-BM082919.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	18.916	2700	2708	2712	rBV2	54865	109694	6.70%	0.646%
36	19.021	2720	2726	2732	rBV	1008123	1336131	81.56%	7.874%
37	19.086	2734	2737	2740	rVV	25115	33369	2.04%	0.197%
38	19.133	2740	2745	2750	rVB7	31186	56131	3.43%	0.331%
39	19.263	2761	2767	2771	rBV3	37656	66696	4.07%	0.393%
40	19.298	2771	2773	2779	rVV6	18959	27411	1.67%	0.162%
41	19.357	2779	2783	2785	rVV2	154921	225400	13.76%	1.328%
42	19.392	2785	2789	2797	rVV	1043291	1322419	80.72%	7.793%
43	19.463	2797	2801	2807	rVB	63292	97406	5.95%	0.574%
44	19.592	2817	2823	2828	rBV	627191	784395	47.88%	4.623%
45	19.721	2839	2845	2854	rBV3	70013	175649	10.72%	1.035%
46	19.792	2854	2857	2861	rBV5	24906	42522	2.60%	0.251%
47	19.892	2863	2874	2878	rVV2	110862	285447	17.42%	1.682%
48	19.992	2888	2891	2894	rBV	43316	55890	3.41%	0.329%
49	20.051	2895	2901	2905	rVV2	109856	185525	11.32%	1.093%
50	20.192	2921	2925	2928	rBV	75580	100646	6.14%	0.593%
51	20.239	2929	2933	2936	rVB	70598	95361	5.82%	0.562%
52	20.657	3000	3004	3009	rBV	123477	150876	9.21%	0.889%
53	20.810	3027	3030	3033	rBV	131806	157408	9.61%	0.928%
54	20.851	3033	3037	3041	rVV2	117772	218425	13.33%	1.287%
55	20.886	3041	3043	3051	rVV3	86337	160020	9.77%	0.943%
56	20.957	3052	3055	3059	rVB	119937	145295	8.87%	0.856%
57	21.157	3084	3089	3094	rBV2	772192	1638296	100.00%	9.655%
58	21.204	3094	3097	3103	rVB	629742	755653	46.12%	4.453%
59	21.321	3114	3117	3121	rBV	67965	75188	4.59%	0.443%
60	21.710	3181	3183	3188	rVB	145482	168974	10.31%	0.996%
61	22.709	3347	3353	3358	rBV2	570751	1322502	80.72%	7.794%
62	23.174	3426	3432	3442	rVB	356069	663324	40.49%	3.909%
63	23.262	3442	3447	3455	rVB	537860	926848	56.57%	5.462%
64	23.356	3458	3463	3468	rBV	379405	635052	38.76%	3.742%
65	25.539	3830	3834	3843	rVB	245694	598599	36.54%	3.528%

Sum of corrected areas: 16969047

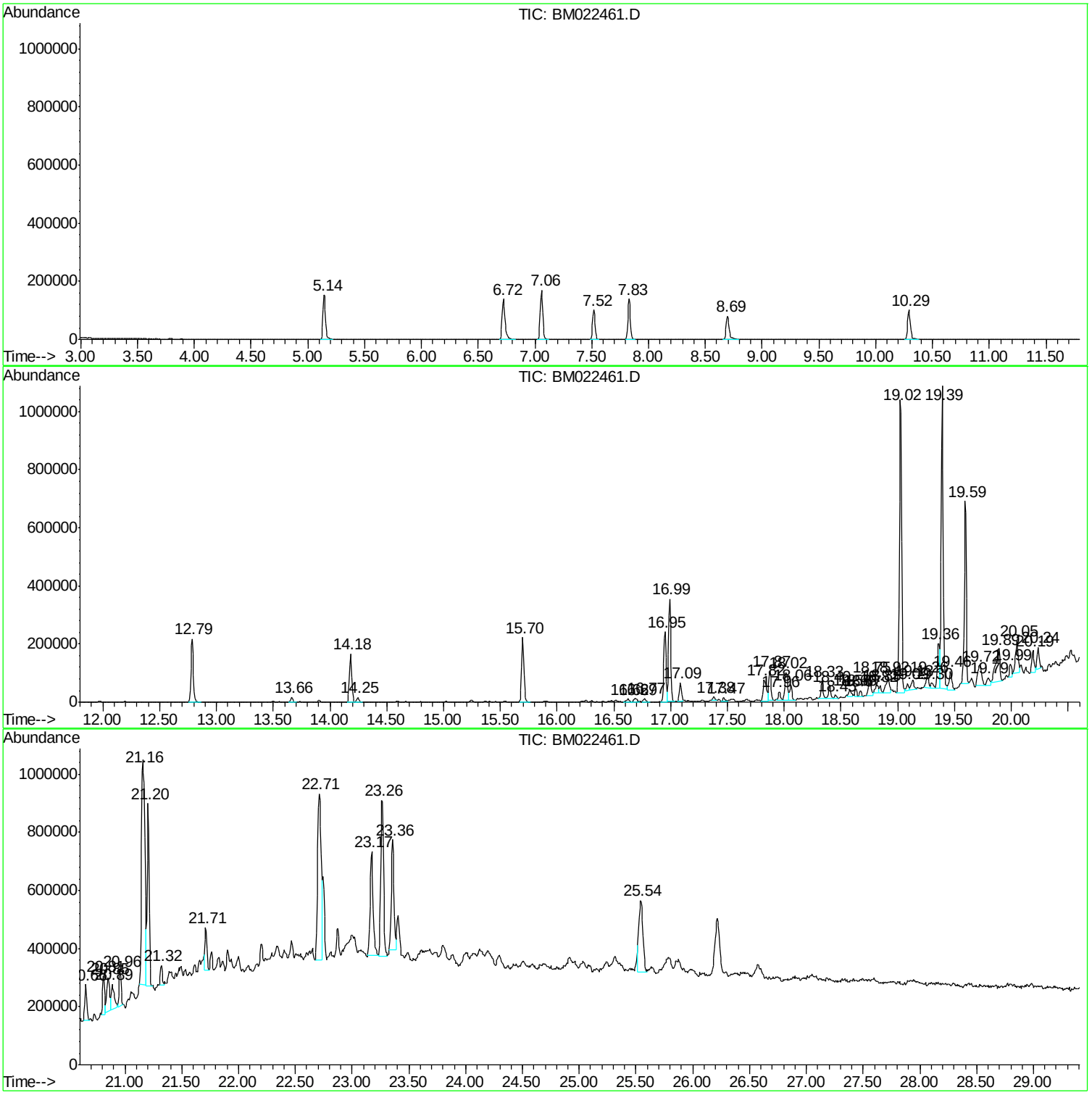
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM083019\
Data File : BM022461.D
Acq On : 31 Aug 2019 03:26
Operator : HP/JU
Sample : K4439-03 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : S-2-(1-3)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.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 M\DATA\BM083019\
Data File : BM022461.D
Acq On : 31 Aug 2019 03:26
Operator : HP/JU
Sample : K4439-03 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : S-2-(1-3)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

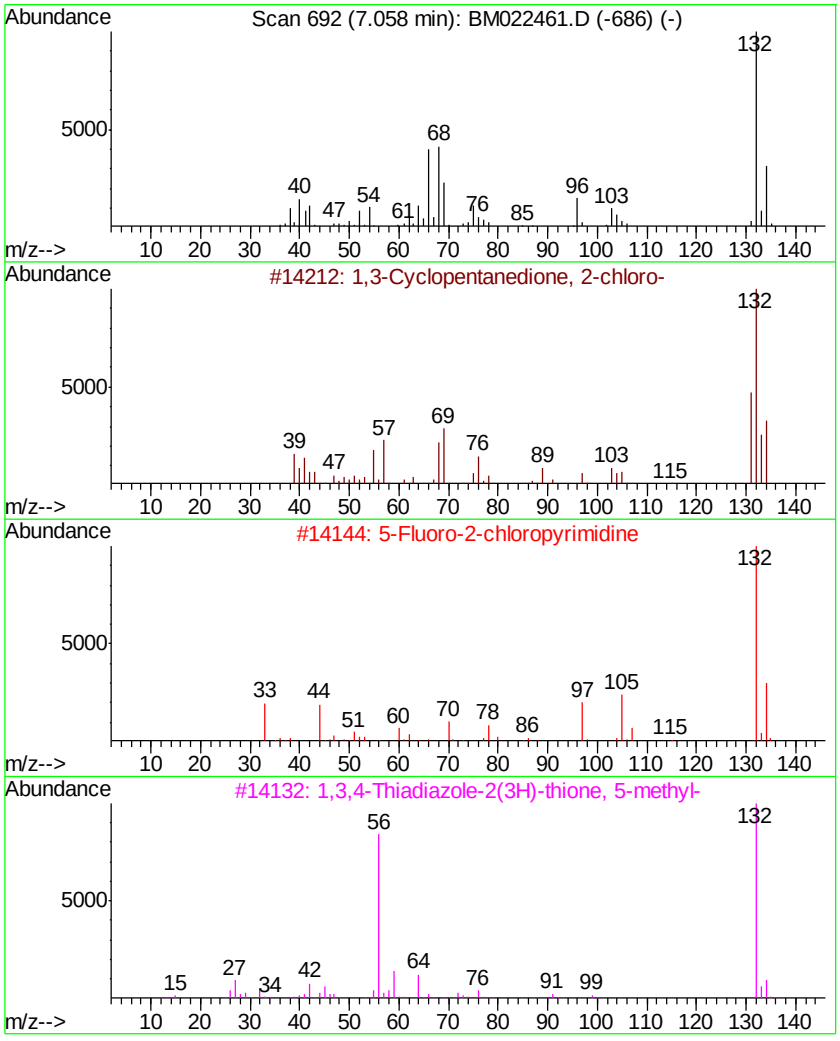
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

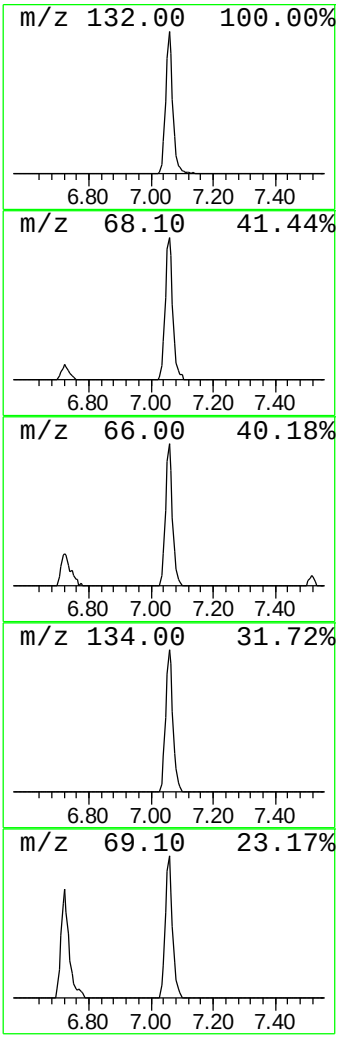
****

Peak Number 1 unknown7.06 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.06	35.49 ng	269843	1,4-Dichlorobenzene-d4	7.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3-Cyclopentanedione, 2-chloro-	132	C5H5ClO2	014203-19-1	27
2	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	14
3	1,3,4-Thiadiazole-2(3H)-thione, ...	132	C3H4N2S2	029490-19-5	14
4	Pyrazolo(2,3-a)pyridine, 7-methyl-	132	C8H8N2	034760-58-2	10
5	Cyclopropanamine, 1-phenyl-	133	C9H11N	1000351-26-2	10





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM083019\
Data File : BM022461.D
Acq On : 31 Aug 2019 03:26
Operator : HP/JU
Sample : K4439-03 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : S-2-(1-3)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

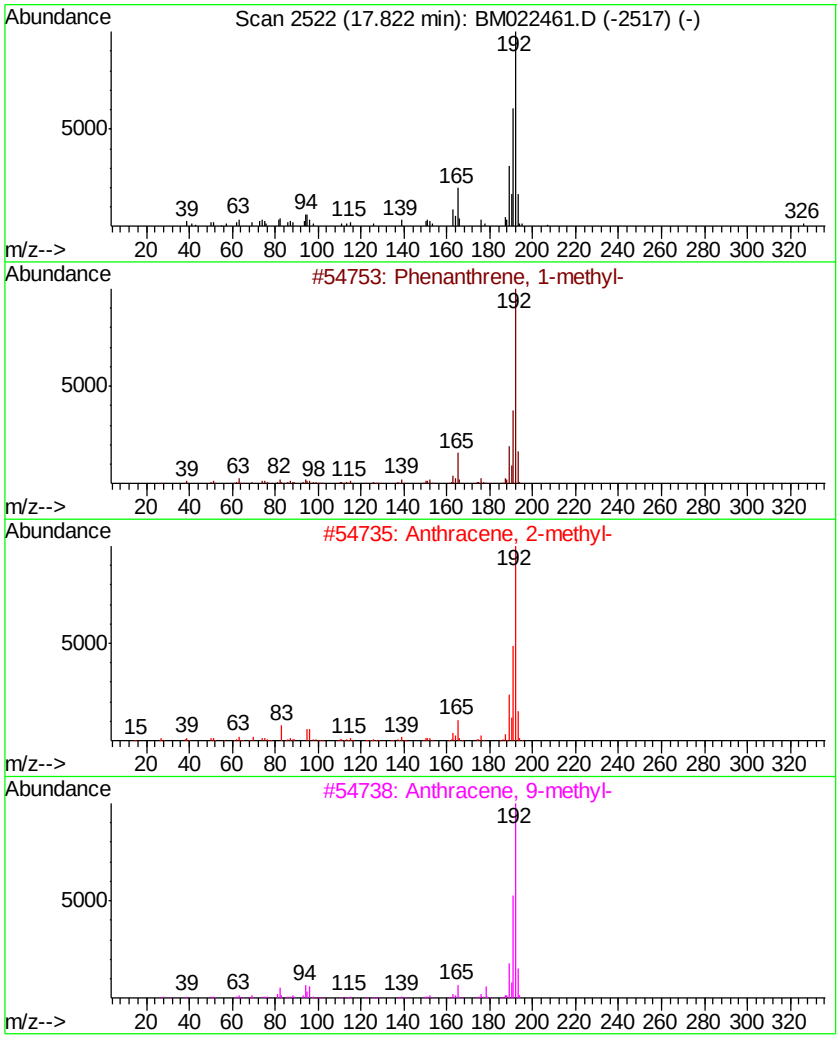
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

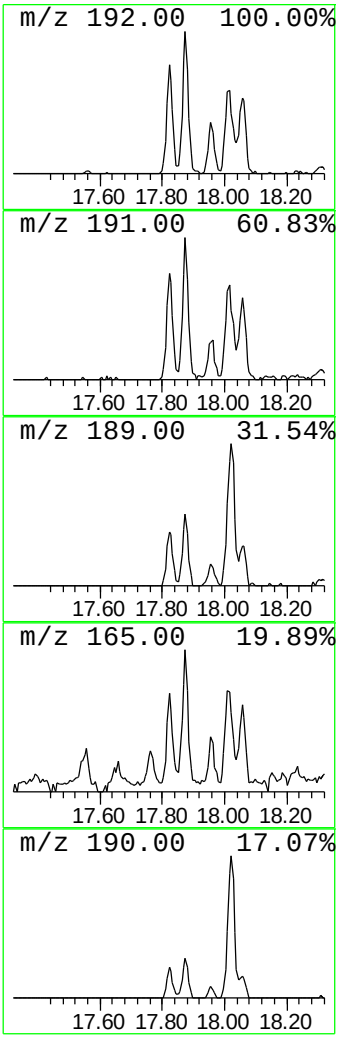
****

Peak Number 3 Phenanthrene, 1-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.82	9.23 ng	148796	Phenanthrene-d10	16.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	90
5	Naphtho[2,3-b]norbornadiene	192	C15H12	107426-38-0	90





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM083019\
Data File : BM022461.D
Acq On : 31 Aug 2019 03:26
Operator : HP/JU
Sample : K4439-03 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : S-2-(1-3)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.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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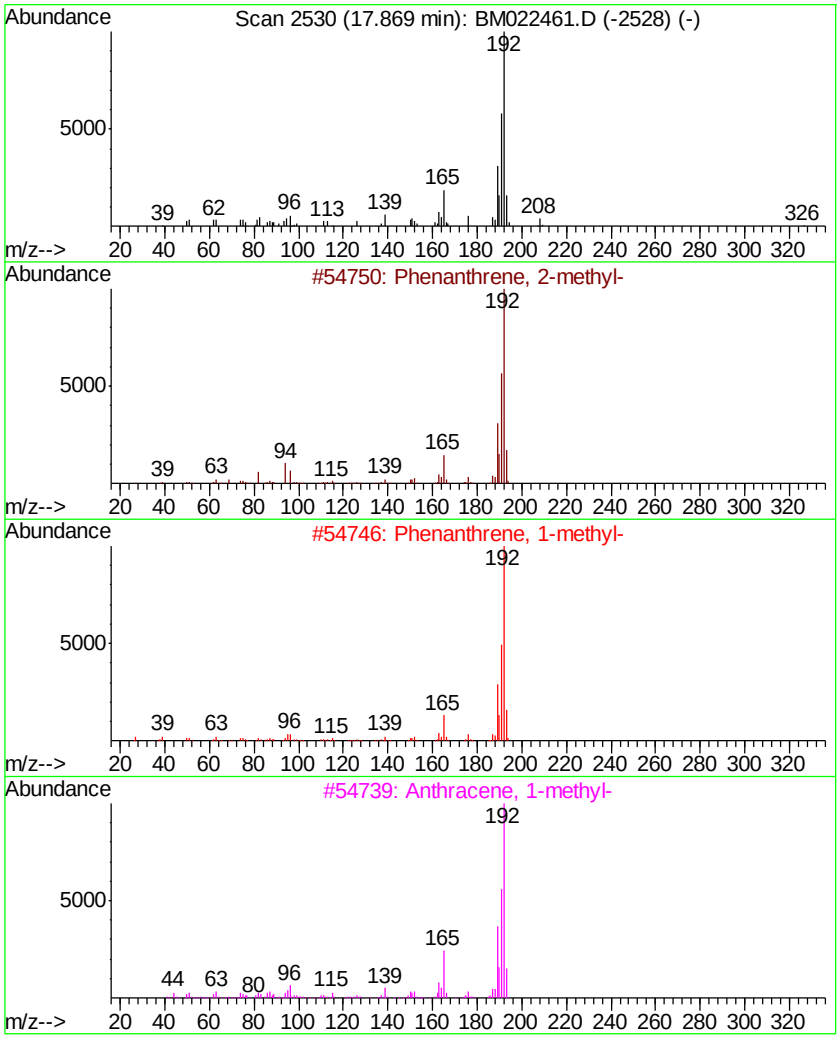
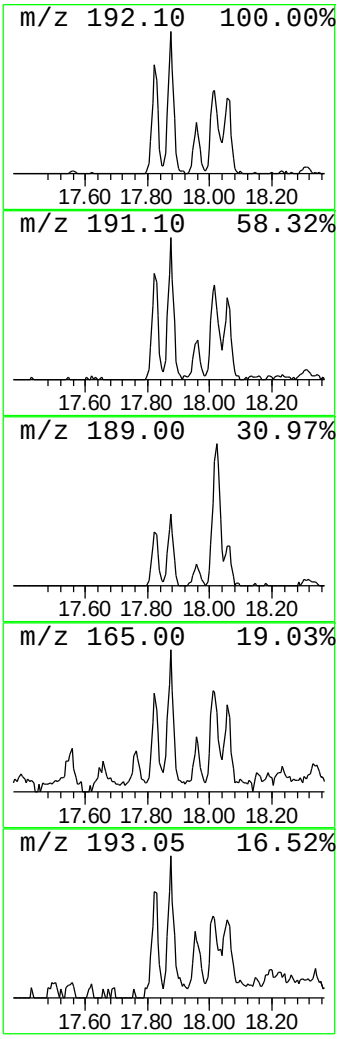
Peak Number 4 Phenanthrene, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.87	7.92 ng	127605	Phenanthrene-d10	16.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	94
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	93





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM083019\
Data File : BM022461.D
Acq On : 31 Aug 2019 03:26
Operator : HP/JU
Sample : K4439-03 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : S-2-(1-3)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

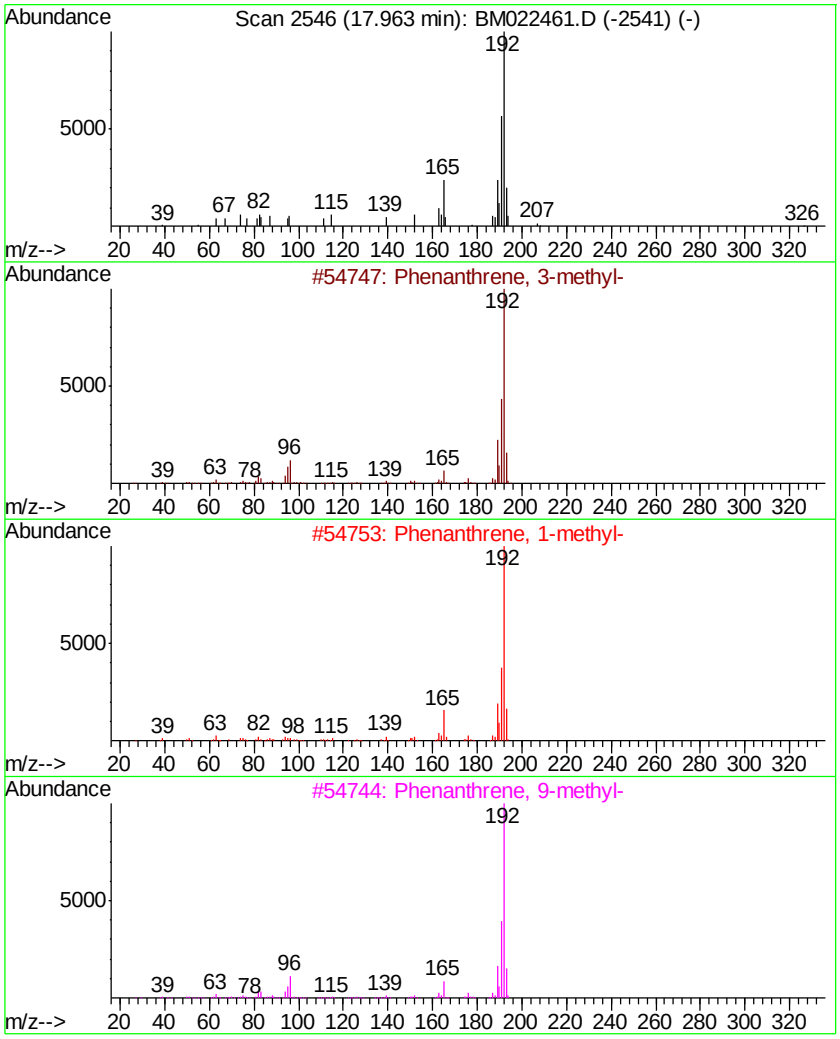
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

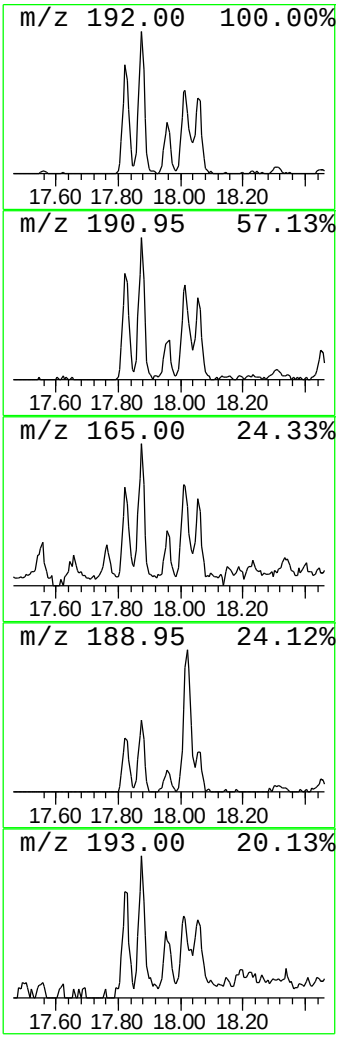
****

Peak Number 5 Phenanthrene, 3-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.96	2.64 ng	42549	Phenanthrene-d10	16.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	93
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
3	Phenanthrene, 9-methyl-	192	C15H12	000883-20-5	90
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	87
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	87





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM083019\
Data File : BM022461.D
Acq On : 31 Aug 2019 03:26
Operator : HP/JU
Sample : K4439-03 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : S-2-(1-3)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

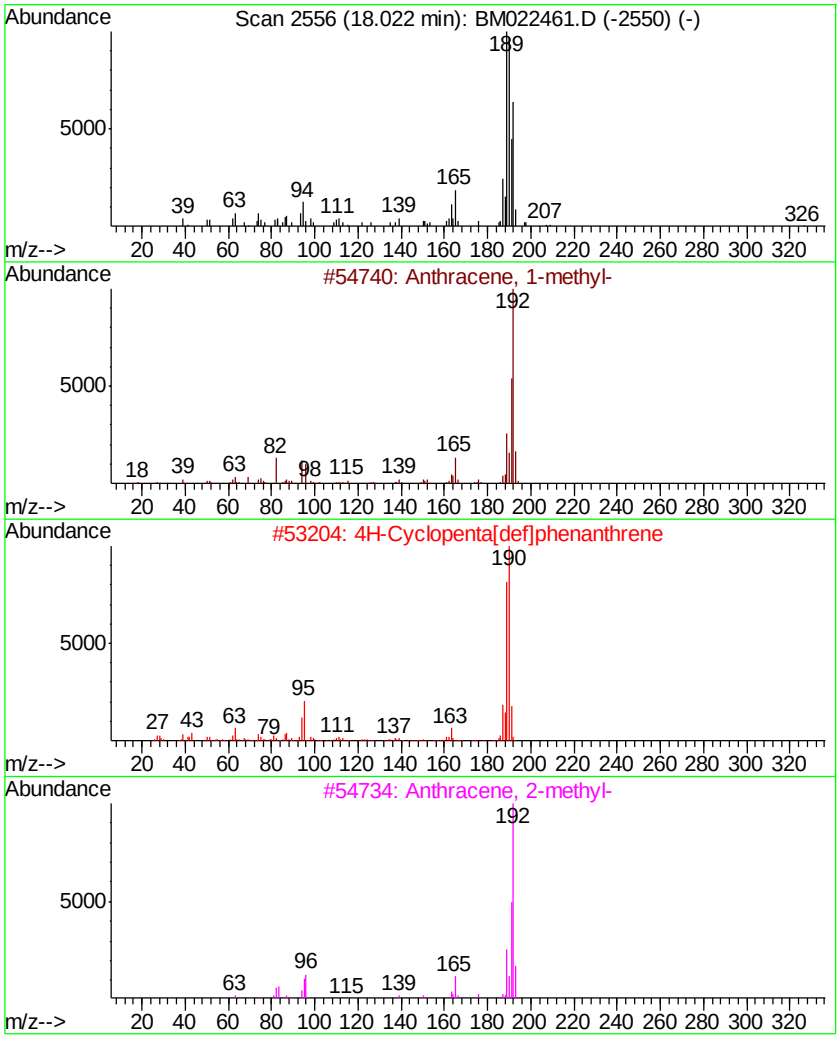
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

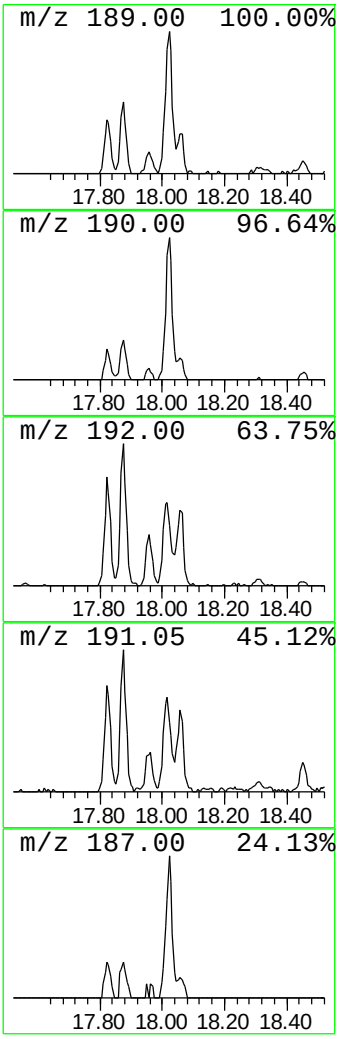
****

Peak Number 6 Anthracene, 1-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.02	10.23 ng	164897	Phenanthrene-d10	16.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	64
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	55
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	50
4	Naphtho[2,3-b]norbornadiene	192	C15H12	107426-38-0	50
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	46





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM083019\
Data File : BM022461.D
Acq On : 31 Aug 2019 03:26
Operator : HP/JU
Sample : K4439-03 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : S-2-(1-3)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

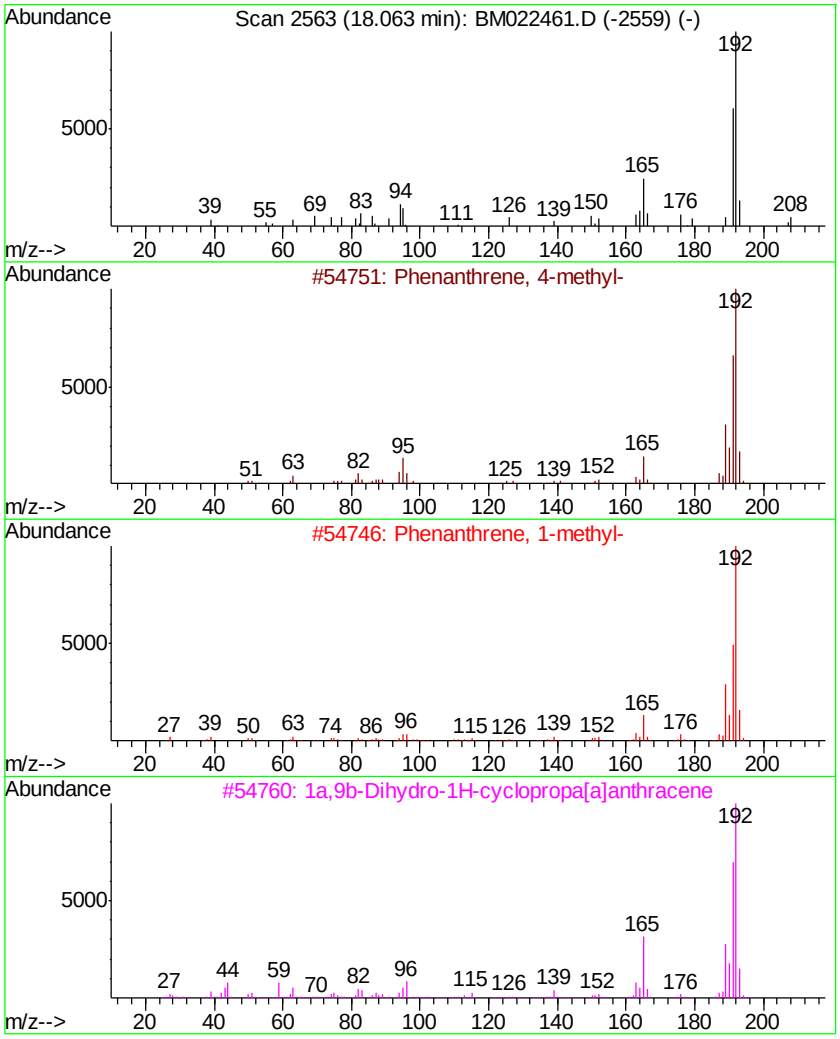
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

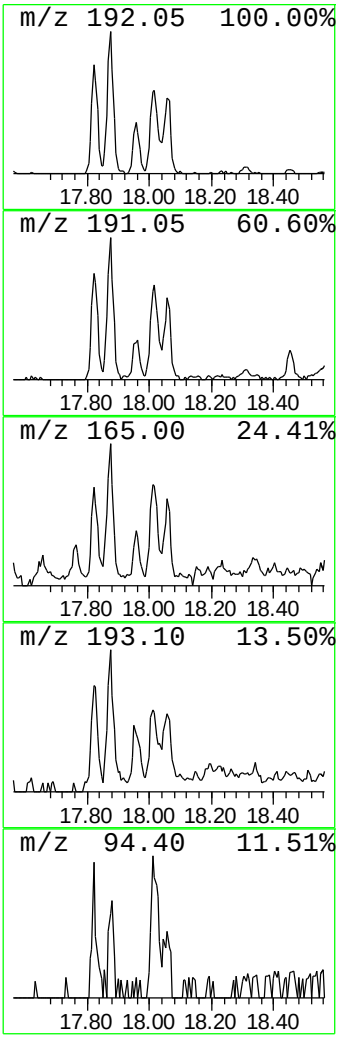
****

Peak Number 7 Phenanthrene, 4-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.06	4.49 ng	72331	Phenanthrene-d10	16.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	90
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	90
3	1a,9b-Dihydro-1H-cyclopropa[a]an...	192	C15H12	006109-24-6	90
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	90
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	90





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM083019\
Data File : BM022461.D
Acq On : 31 Aug 2019 03:26
Operator : HP/JU
Sample : K4439-03 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : S-2-(1-3)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

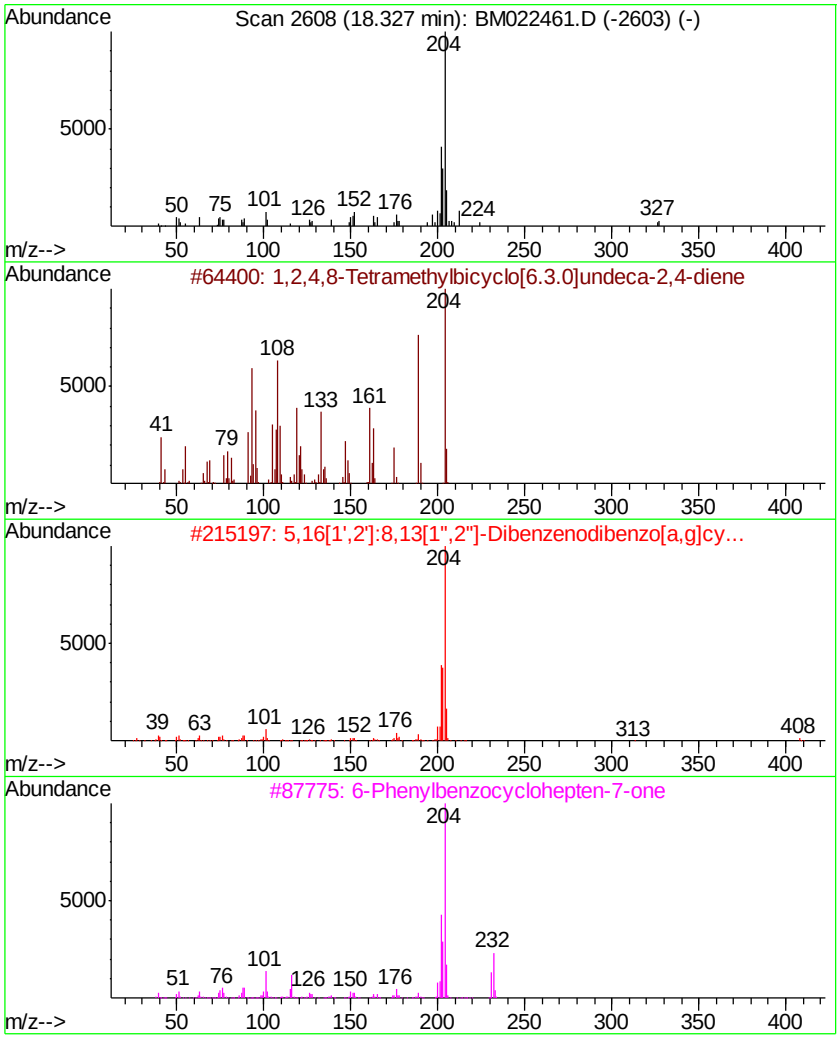
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

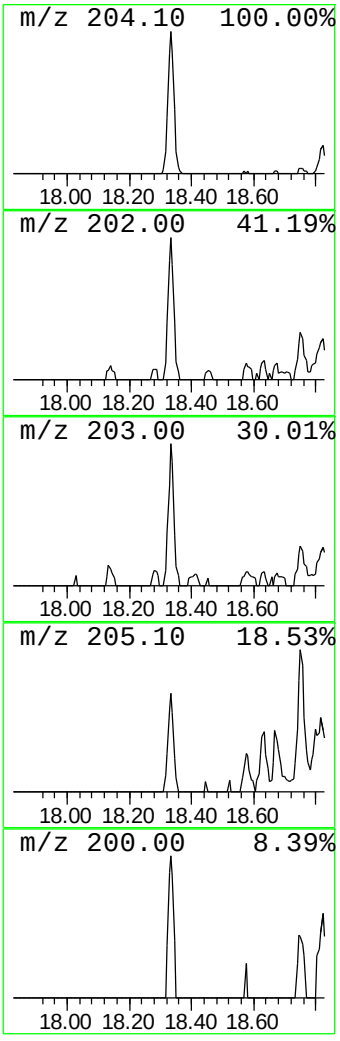
****

Peak Number 8 1,2,4,8-Tetramethylbicyclo[... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.33	5.16 ng	83223	Phenanthrene-d10	16.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	90
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	86
3	6-Phenylbenzocyclohepten-7-one	232	C17H12O	093327-56-1	78
4	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	78
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	64





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Data File : BM022461.D
Acq On : 31 Aug 2019 03:26
Operator : HP/JU
Sample : K4439-03 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : S-2-(1-3)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

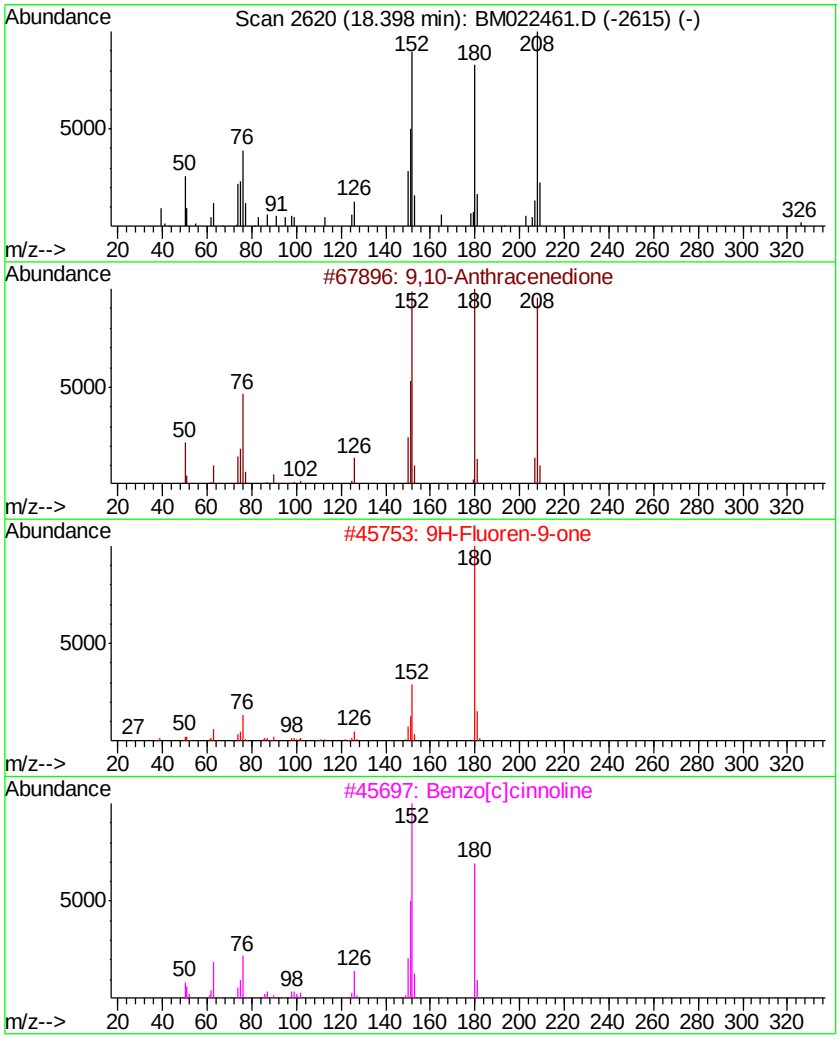
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

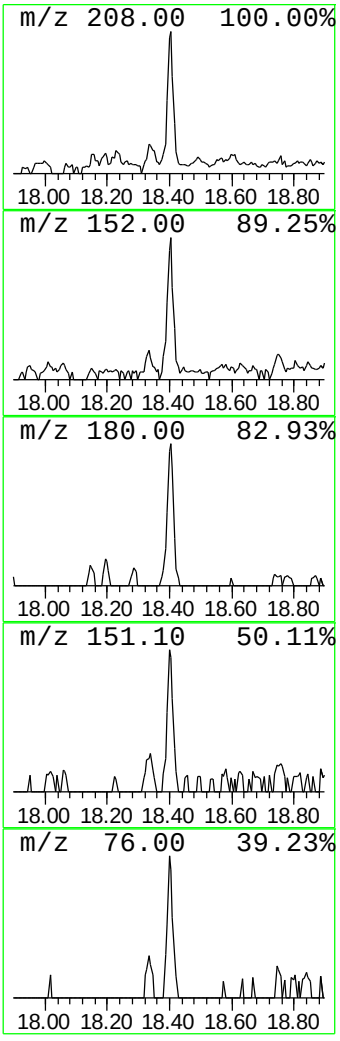
****

Peak Number 9 9,10-Anthracenedione Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.40	4.02 ng	64838	Phenanthrene-d10	16.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	96
2	9H-Fluoren-9-one	180	C13H8O	000486-25-9	83
3	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	83
4	1H-Phenalen-1-one	180	C13H8O	000548-39-0	60
5	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	58





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Acq On : 31 Aug 2019 03:26
Operator : HP/JU
Sample : K4439-03 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : S-2-(1-3)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.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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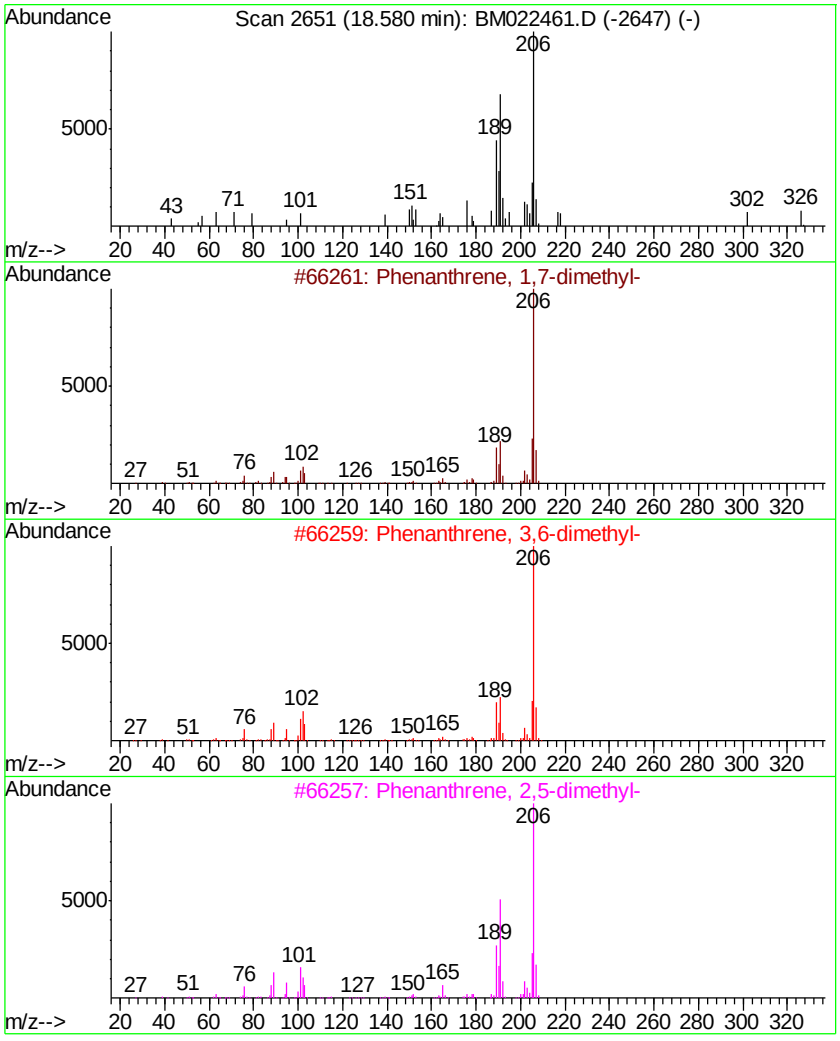
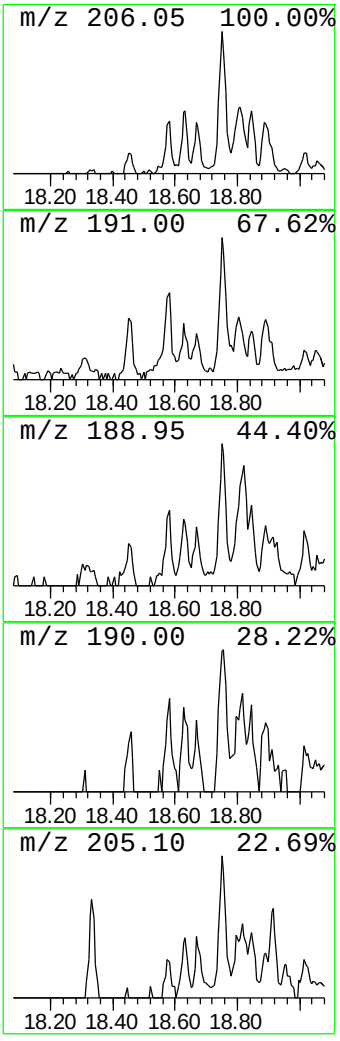
Peak Number 10 Phenanthrene, 1,7-dimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.58	2.41 ng	38893	Phenanthrene-d10	16.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	91
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	90
3	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	90
4	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	87
5	di-p-Tolylacetylene	206	C16H14	002789-88-0	87





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Acq On : 31 Aug 2019 03:26
Operator : HP/JU
Sample : K4439-03 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : S-2-(1-3)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.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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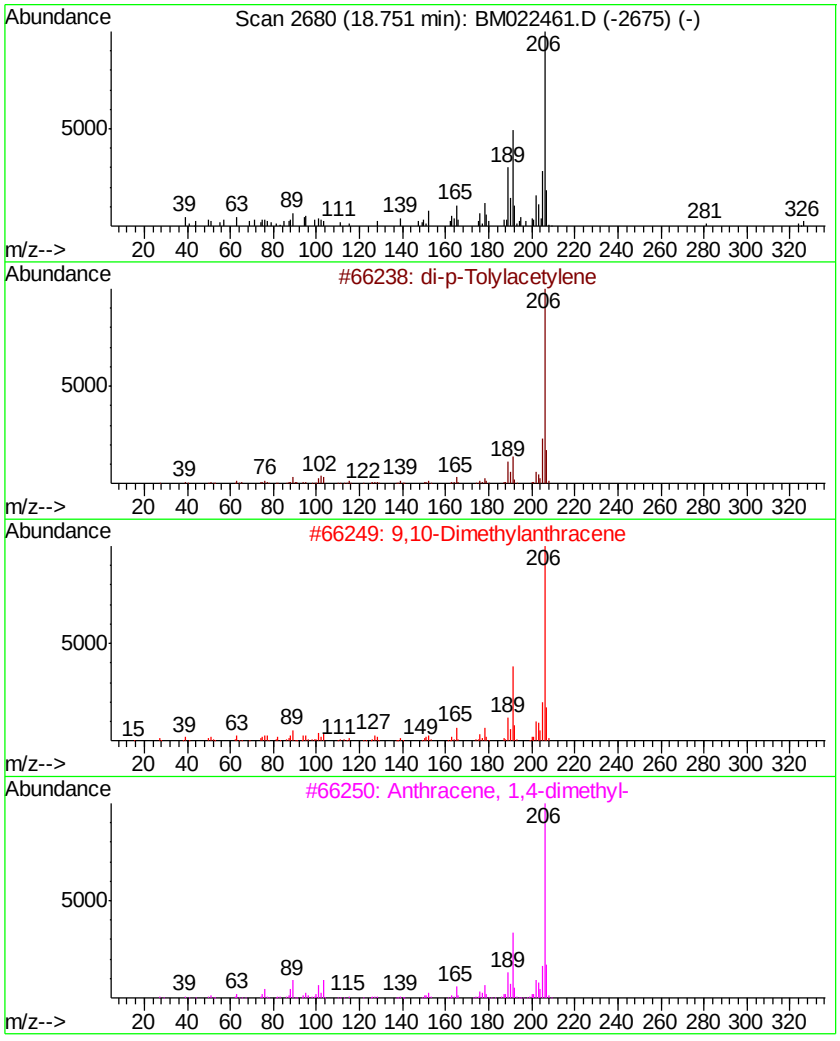
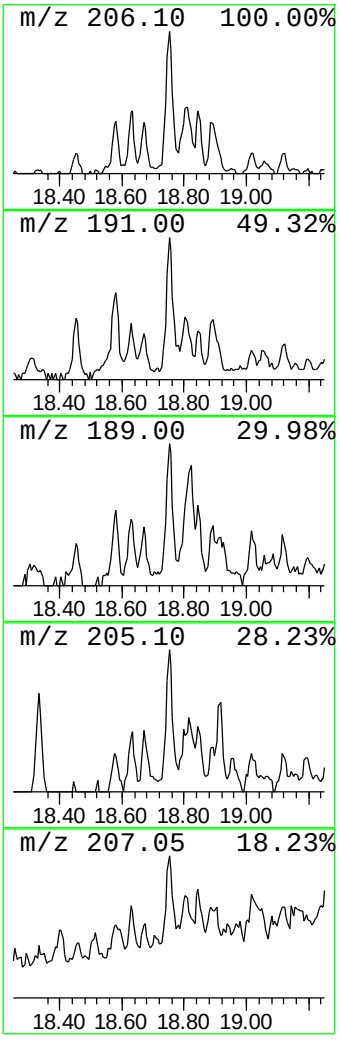
Peak Number 11 di-p-Tolylacetylene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.75	7.12 ng	114689	Phenanthrene-d10	16.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	di-p-Tolylacetylene	206	C16H14	002789-88-0	94
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
3	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	90
4	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	87
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	83





Library Search Compound Report

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Data File : BM022461.D
Acq On : 31 Aug 2019 03:26
Operator : HP/JU
Sample : K4439-03 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : S-2-(1-3)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.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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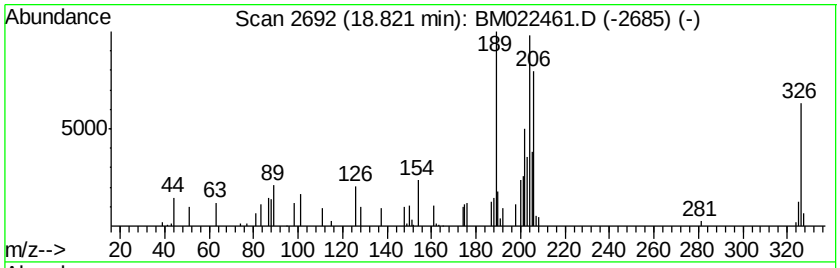
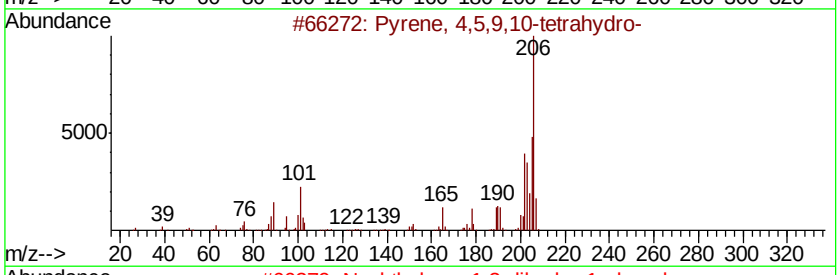
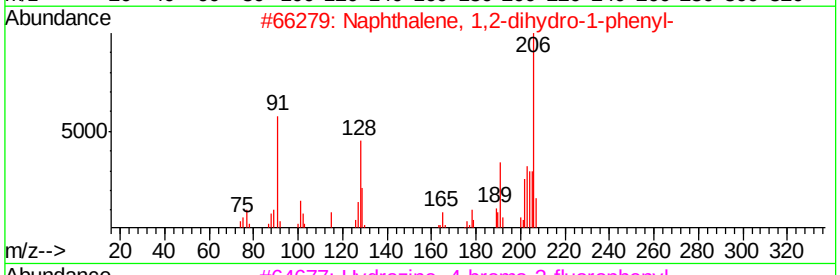
Peak Number 12 unknown18.82 Concentration Rank 13

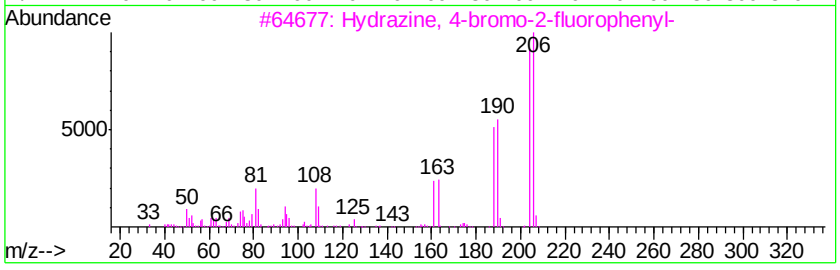
R.T.	EstConc	Area	Relative to ISTD	R.T.
18.82	3.15 ng	50809	Phenanthrene-d10	16.95

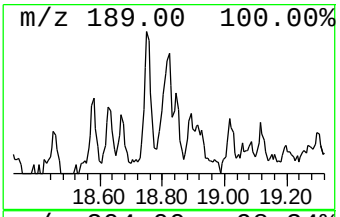
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	38
2	Naphthalene, 1,2-dihydro-1-phenyl-	206	C16H14	016606-46-5	27
3	Hydrazine, 4-bromo-2-fluorophenyl-	204	C6H6BrFN2	299440-17-8	22
4	2,5,5,8a-Tetramethyl-6,7,8,8a-te...	204	C14H20O	124957-09-1	22
5	Dibenzo[b,f][1,4]diazocine	206	C14H10N2	000262-92-0	22

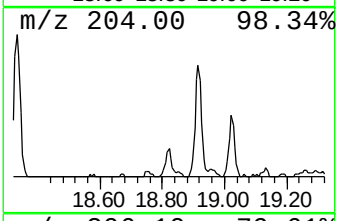


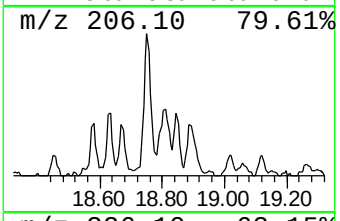


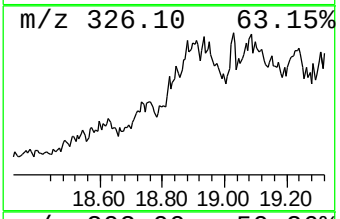


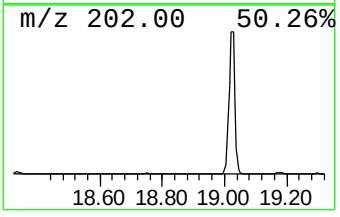












Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM083019\
Data File : BM022461.D
Acq On : 31 Aug 2019 03:26
Operator : HP/JU
Sample : K4439-03 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : S-2-(1-3)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

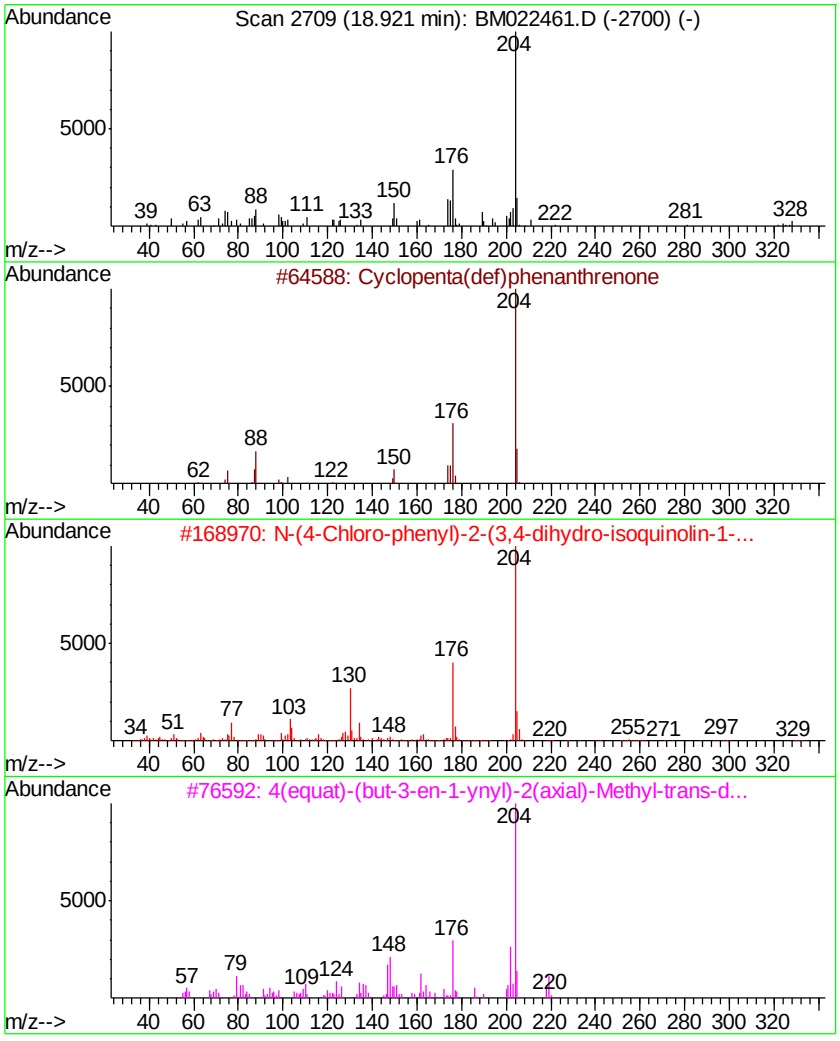
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

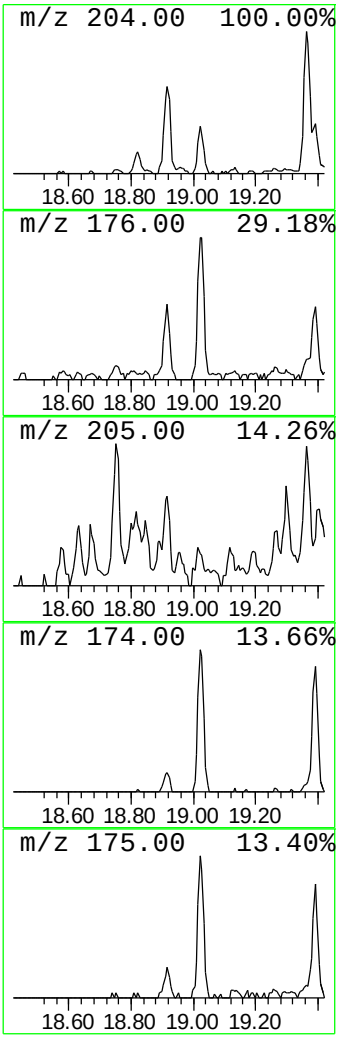
****

Peak Number 13 Cyclopenta(def)phenanthrenone Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.92	6.81 ng	109694	Phenanthrene-d10	16.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	72
2	N-(4-Chloro-phenyl)-2-(3,4-dihyd...	330	C17H15ClN2OS	1000296-34-3	59
3	4(equat)-(but-3-en-1-ynyl)-2(axi...	219	C14H21NO	038423-22-2	59
4	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	55
5	4-Methyl-6,7-methylenedioxycoumarin	204	C11H8O4	015071-04-2	52





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Data File : BM022461.D
Acq On : 31 Aug 2019 03:26
Operator : HP/JU
Sample : K4439-03 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : S-2-(1-3)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.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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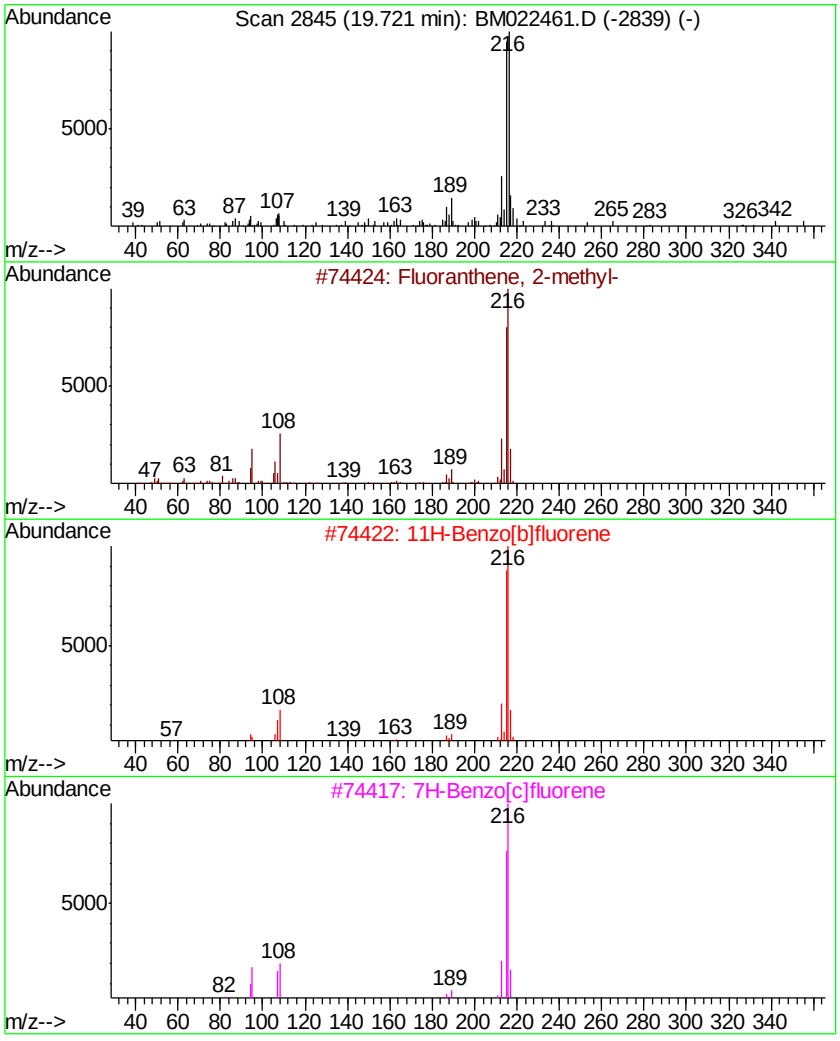
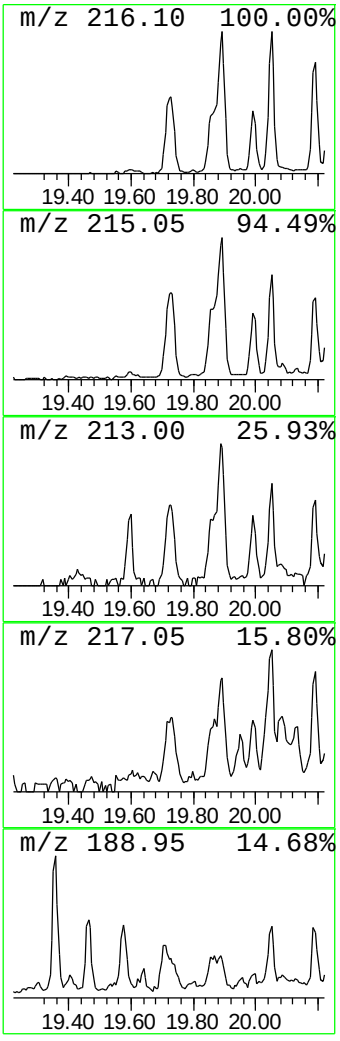
Peak Number 14 Fluoranthene, 2-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.72	2.14 ng	175649	Chrysene-d12	21.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
3	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	72
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	72
5	Pyrene, 1-methyl-	216	C17H12	002381-21-7	70





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Data File : BM022461.D
Acq On : 31 Aug 2019 03:26
Operator : HP/JU
Sample : K4439-03 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : S-2-(1-3)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

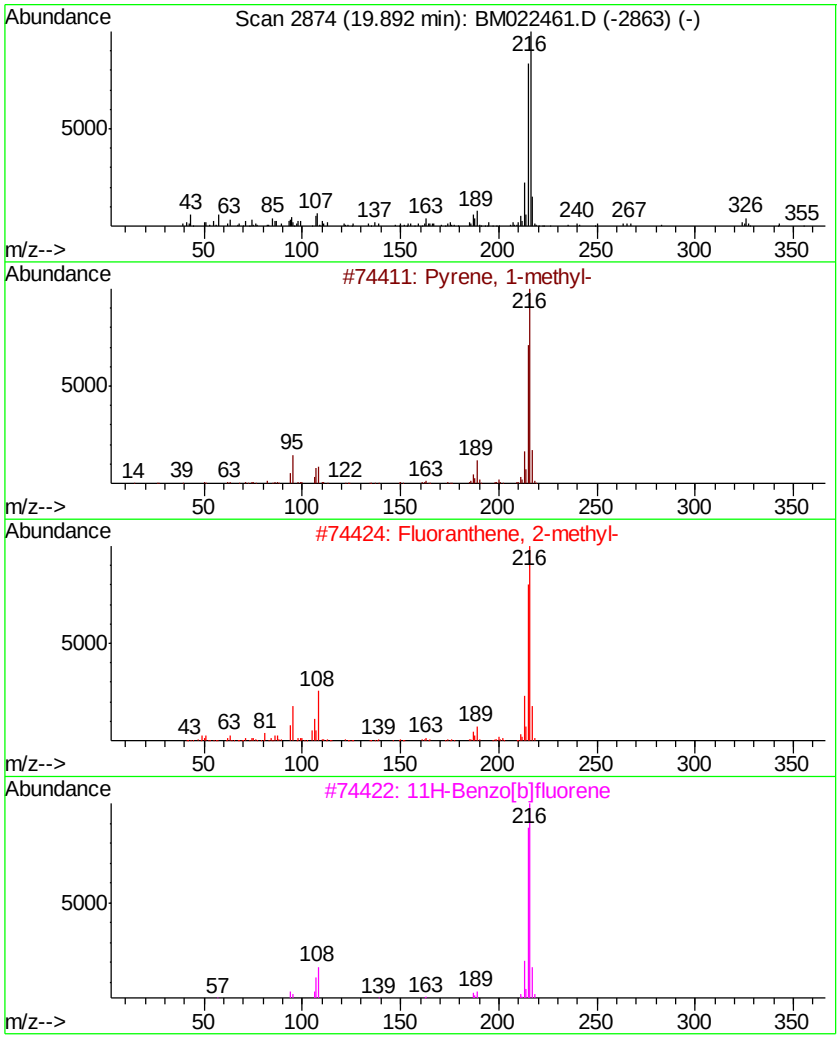
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

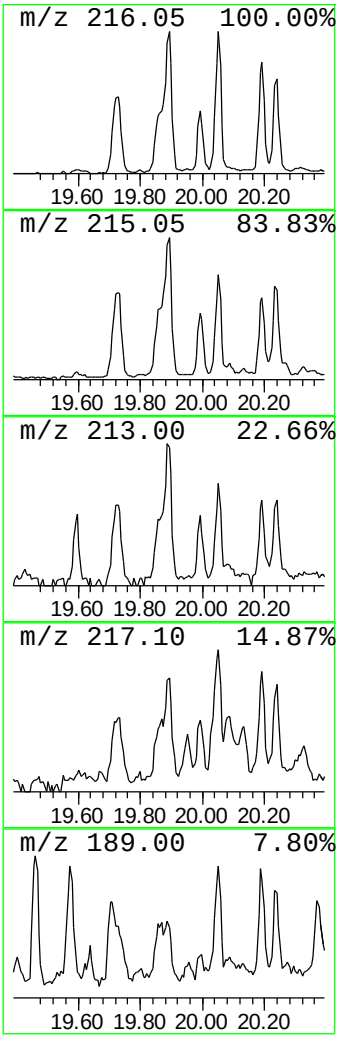
****

Peak Number 15 Pyrene, 1-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.89	3.48 ng	285447	Chrysene-d12	21.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	90
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	74





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Acq On : 31 Aug 2019 03:26
Operator : HP/JU
Sample : K4439-03 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : S-2-(1-3)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.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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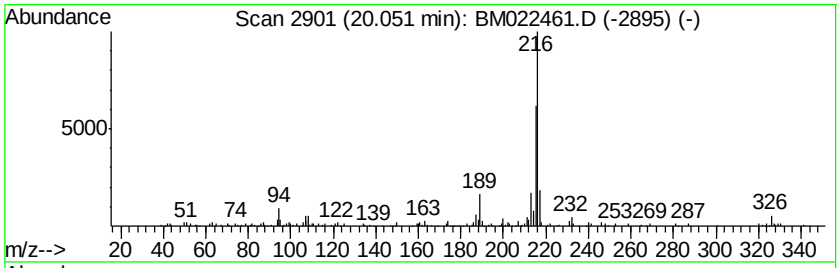
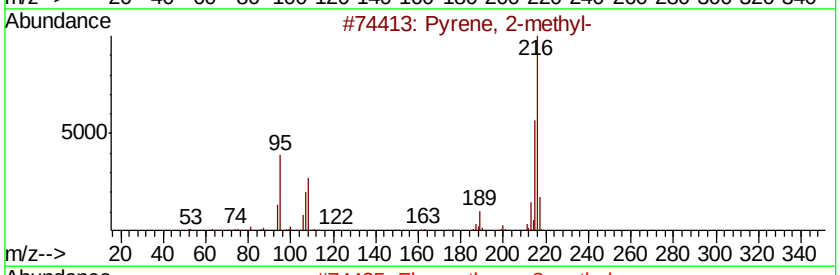
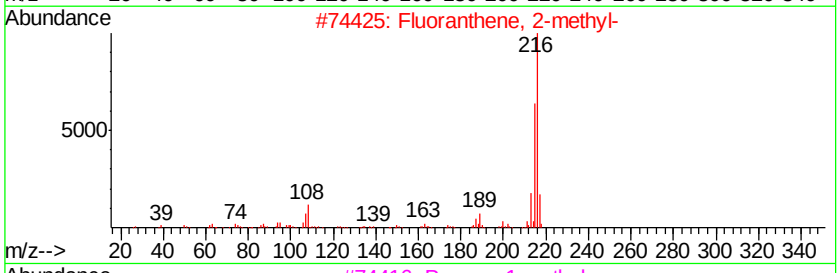
Peak Number 16 Pyrene, 2-methyl- Concentration Rank 17

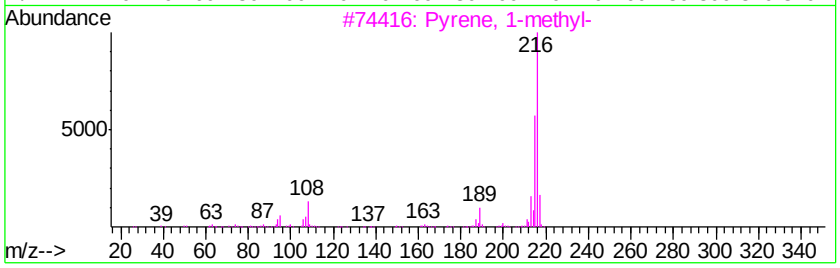
R.T.	EstConc	Area	Relative to ISTD	R.T.
20.05	2.26 ng	185525	Chrysene-d12	21.17

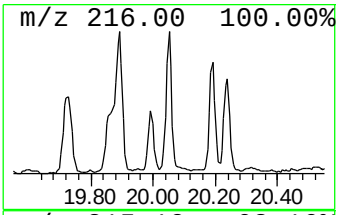
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 2-methyl-	216	C17H12	003442-78-2	94
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	90
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	80

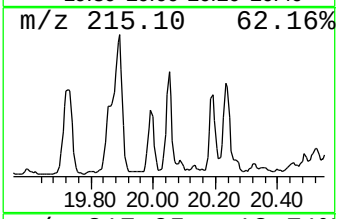


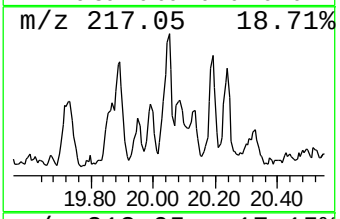


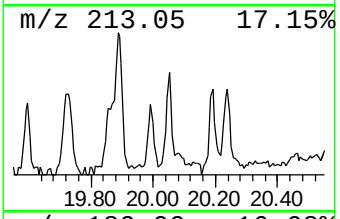


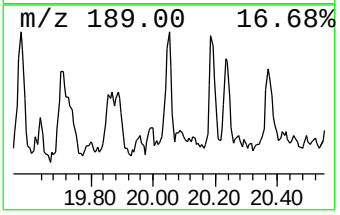












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Data File : BM022461.D
Acq On : 31 Aug 2019 03:26
Operator : HP/JU
Sample : K4439-03 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : S-2-(1-3)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.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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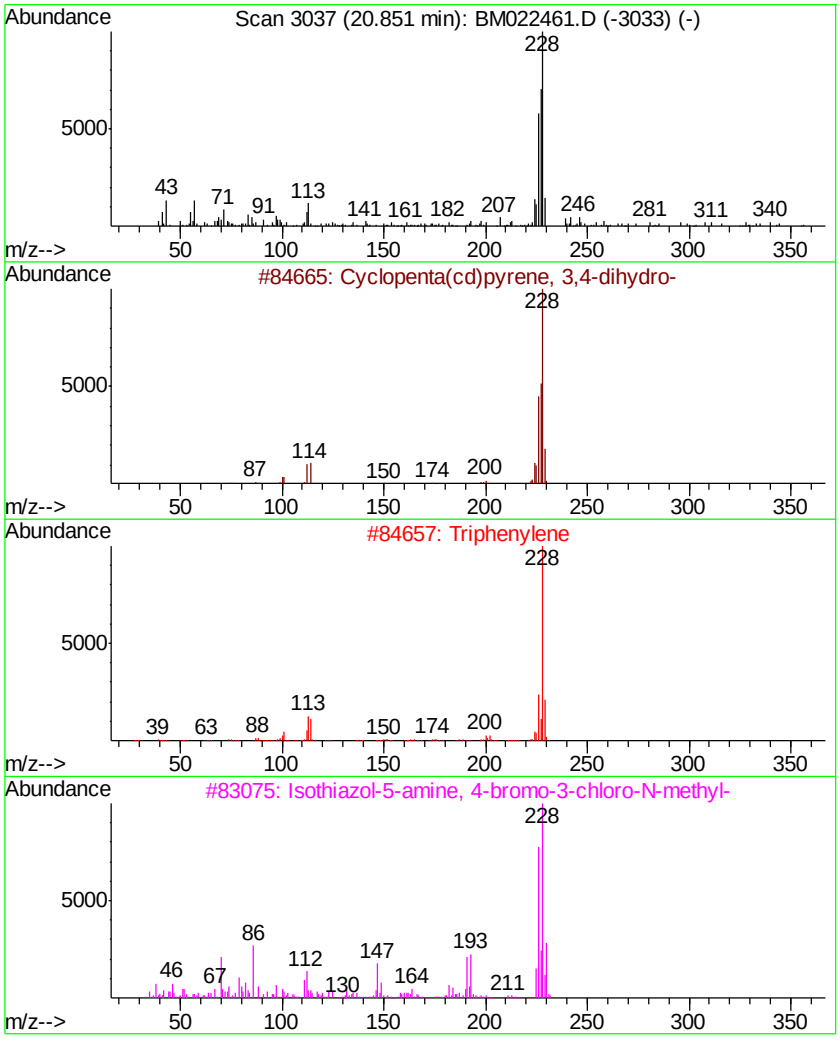
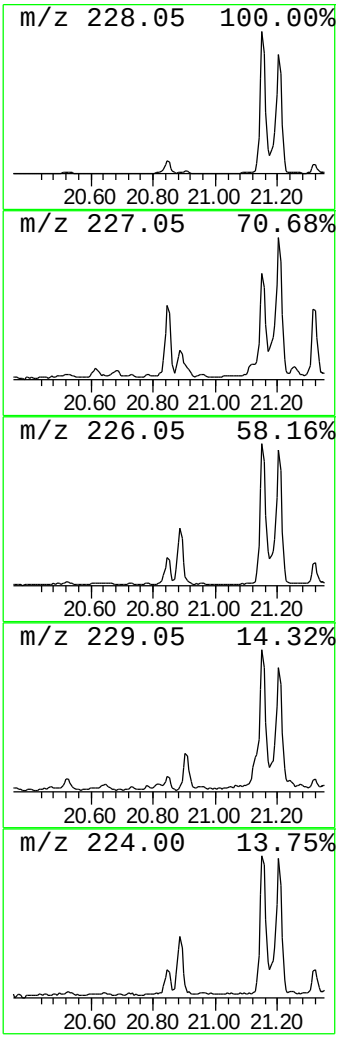
Peak Number 17 unknown20.85 Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.85	2.67 ng	218425	Chrysene-d12	21.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	46
2	Triphenylene	228	C18H12	000217-59-4	43
3	Isothiazol-5-amine, 4-bromo-3-ch...	226	C4H4BrClN2S	1000272-59-9	42
4	Benzo[c]phenanthrene	228	C18H12	000195-19-7	37
5	2,5-Dimethyl-4-(4-nitrophenyl)py...	228	C13H12N2O2	059195-23-2	35





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Data File : BM022461.D
Acq On : 31 Aug 2019 03:26
Operator : HP/JU
Sample : K4439-03 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : S-2-(1-3)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

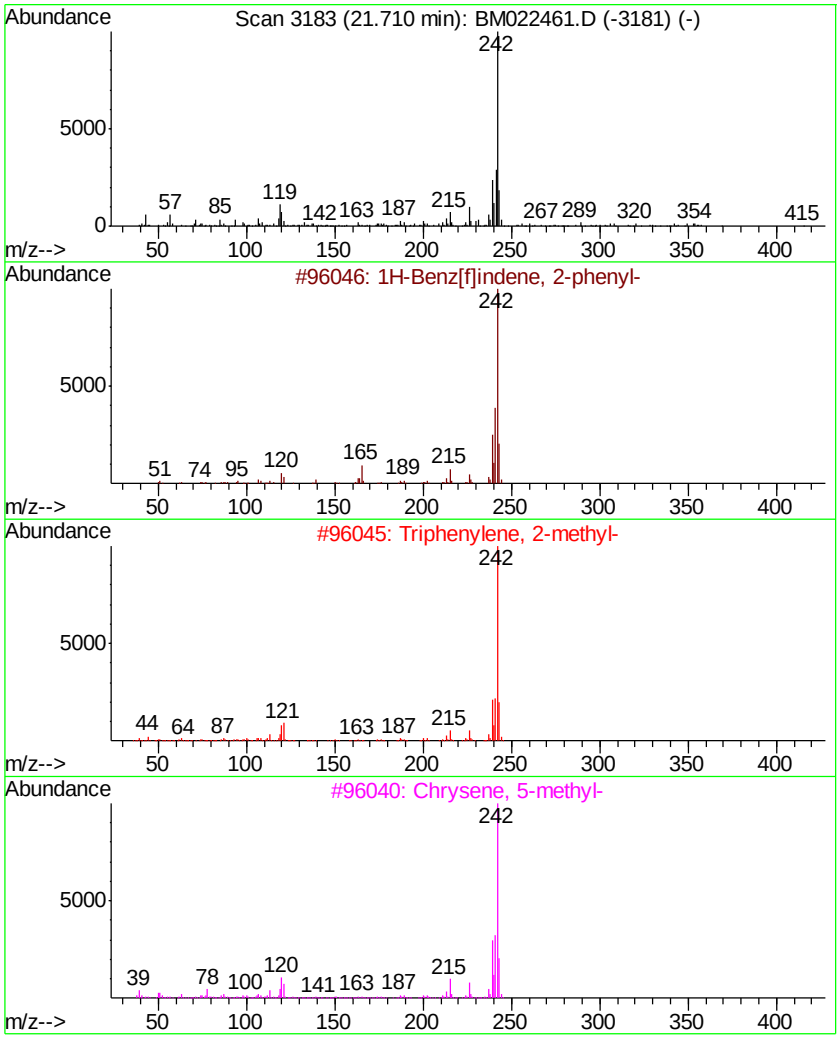
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

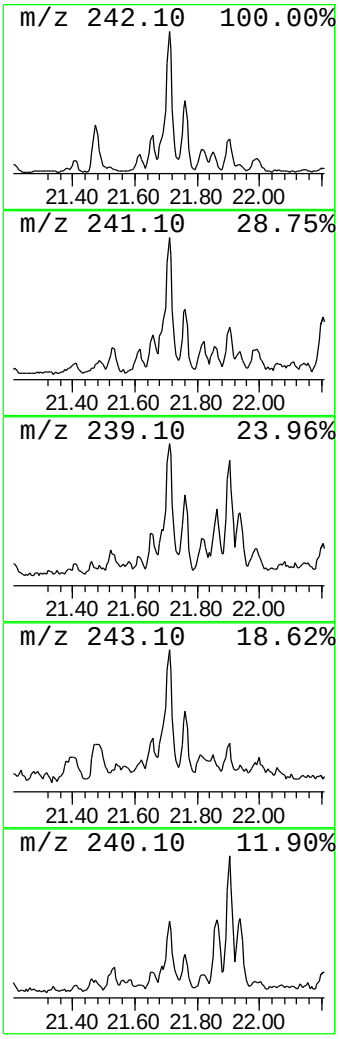
****

Peak Number 18 1H-Benz[f]indene, 2-phenyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.71	2.06 ng	168974	Chrysene-d12	21.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Benz[f]indene, 2-phenyl-	242	C19H14	1000305-22-4	94
2	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	93
3	Chrysene, 5-methyl-	242	C19H14	003697-24-3	93
4	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	90
5	Chrysene, 1-methyl-	242	C19H14	003351-28-8	90





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM083019\
Data File : BM022461.D
Acq On : 31 Aug 2019 03:26
Operator : HP/JU
Sample : K4439-03 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : S-2-(1-3)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

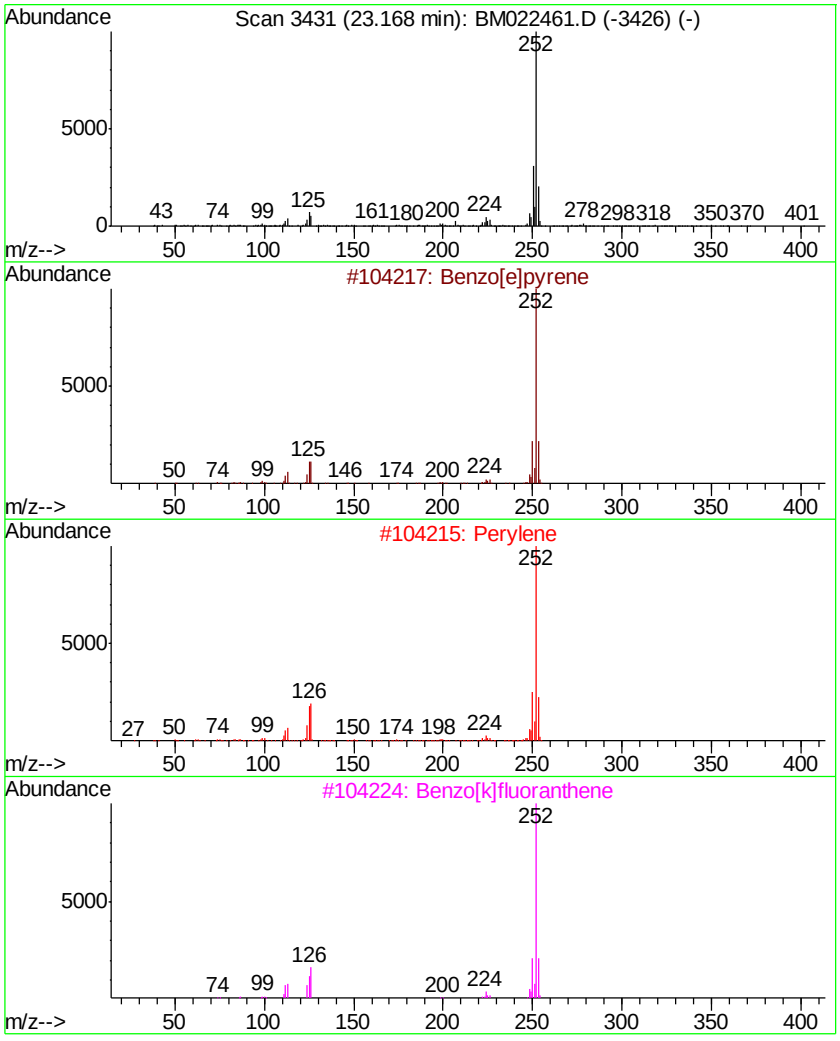
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

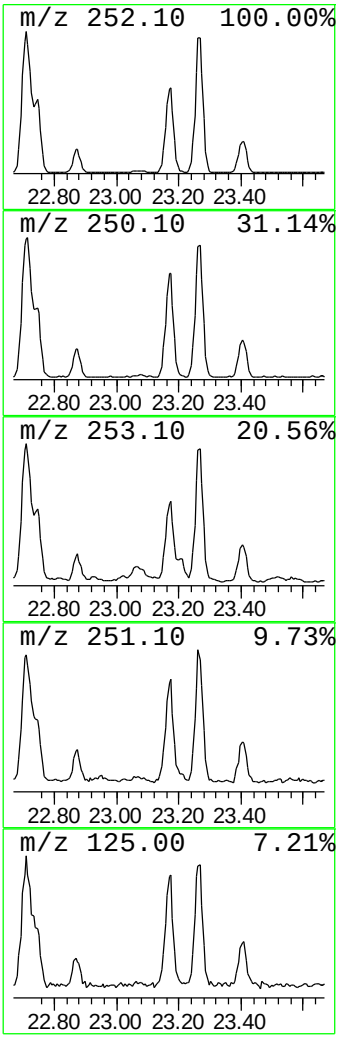
****

Peak Number 19 Benzo[e]pyrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.17	20.89 ng	663324	Perylene-d12	23.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	90
2	Perylene	252	C20H12	000198-55-0	89
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	89
4	Benzo[j]fluoranthene	252	C20H12	000205-82-3	89
5	Benzo[a]pyrene	252	C20H12	000050-32-8	81





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM083019\
Data File : BM022461.D
Acq On : 31 Aug 2019 03:26
Operator : HP/JU
Sample : K4439-03 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : S-2-(1-3)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.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
unknown7.06	7.06	35.5	ng	269843	1	7.52	152081	20.0
Phenanthrene, 1-m...	17.82	9.2	ng	148796	4	16.95	322271	20.0
Phenanthrene, 2-m...	17.87	7.9	ng	127605	4	16.95	322271	20.0
Phenanthrene, 3-m...	17.96	2.6	ng	42549	4	16.95	322271	20.0
Anthracene, 1-met...	18.02	10.2	ng	164897	4	16.95	322271	20.0
Phenanthrene, 4-m...	18.06	4.5	ng	72331	4	16.95	322271	20.0
1,2,4,8-Tetrameth...	18.33	5.2	ng	83223	4	16.95	322271	20.0
9,10-Anthracenedione	18.40	4.0	ng	64838	4	16.95	322271	20.0
Phenanthrene, 1,7...	18.58	2.4	ng	38893	4	16.95	322271	20.0
di-p-Tolylacetylene	18.75	7.1	ng	114689	4	16.95	322271	20.0
unknown18.82	18.82	3.1	ng	50809	4	16.95	322271	20.0
Cyclopenta(def)ph...	18.92	6.8	ng	109694	4	16.95	322271	20.0
Fluoranthene, 2-m...	19.72	2.1	ng	175649	5	21.17	1638300	20.0
Pyrene, 1-methyl-	19.89	3.5	ng	285447	5	21.17	1638300	20.0
Pyrene, 2-methyl-	20.05	2.3	ng	185525	5	21.17	1638300	20.0
unknown20.85	20.85	2.7	ng	218425	5	21.17	1638300	20.0
1H-Benz[f]indene,...	21.71	2.1	ng	168974	5	21.17	1638300	20.0
Benzo[e]pyrene	23.17	20.9	ng	663324	6	23.36	635052	20.0