LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM051419\
Data File : BM020335.D
Acq On : 14 May 2019 16:40
Operator : JU/SJ
Sample : K2836-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : CULVER-CBTC-WC1-051019

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-BM043019.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	5.340	394	400	414	rBV	1006049	1526566	46.21%	5.682%
2	6.928	663	670	681	rBV	920094	1480823	44.82%	5.512%
3	7.287	724	731	742	rBV	992236	1643772	49.75%	6.118%
4	7.757	805	811	817	rBV	218329	340327	10.30%	1.267%
5	8.075	857	865	879	rVB	794665	1286427	38.94%	4.788%
6	8.928	1002	1010	1024	rBV	505570	917111	27.76%	3.413%
7	10.551	1279	1286	1291	rBV	216149	373208	11.30%	1.389%
8	10.598	1291	1294	1304	rVB	55322	93552	2.83%	0.348%
9	13.021	1699	1706	1721	rBV	1315044	2033682	61.56%	7.569%
10	13.863	1844	1849	1858	rBV	150036	215718	6.53%	0.803%
11	14.127	1889	1894	1901	rBV2	26316	39114	1.18%	0.146%
12	14.404	1933	1941	1947	rBV2	351228	535098	16.20%	1.992%
13	14.468	1947	1952	1960	rVB	71043	107620	3.26%	0.401%
14	14.804	2003	2009	2018	rBV	50983	88687	2.68%	0.330%
15	15.457	2113	2120	2132	rBV2	89742	148890	4.51%	0.554%
16	15.898	2189	2195	2204	rBV	1149232	1749853	52.96%	6.513%
17	16.457	2282	2290	2294	rBV3	18021	33736	1.02%	0.126%
18	16.974	2374	2378	2383	rVB	26128	37196	1.13%	0.138%
19	17.156	2403	2409	2412	rBV	468579	666977	20.19%	2.482%
20	17.198	2412	2416	2423	rVV	509602	741114	22.43%	2.758%
21	17.286	2426	2431	2438	rVV	112926	173171	5.24%	0.645%
22	17.568	2471	2479	2486	rBV2	30638	64900	1.96%	0.242%
23	18.039	2552	2559	2563	rBV2	264319	419562	12.70%	1.562%
24	18.074	2563	2565	2570	rVB	85950	114749	3.47%	0.427%
25	18.156	2575	2579	2585	rVB2	35951	53910	1.63%	0.201%
26	18.227	2585	2591	2595	rBV3	102570	183395	5.55%	0.683%
27	18.533	2638	2643	2647	rBV	42431	62917	1.90%	0.234%
28	18.950	2709	2714	2720	rBV3	34406	77768	2.35%	0.289%
29	19.215	2754	2759	2765	rBV	671741	882812	26.72%	3.286%
30	19.321	2773	2777	2781	rBV2	132114	187811	5.68%	0.699%
31	19.550	2811	2816	2817	rBV2	113865	148702	4.50%	0.553%
32	19.580	2817	2821	2830	rVV	509221	841157	25.46%	3.131%
33	19.656	2830	2834	2840	rVB3	36130	66312	2.01%	0.247%
34	19.786	2849	2856	2863	rBV	2534002	3303813	100.00%	12.297%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM051419\
Data File : BM020335.D
Acq On : 14 May 2019 16:40
Operator : JU/SJ
Sample : K2836-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : CULVER-CBTC-WC1-051019

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-BM043019.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	19.897	2872	2875	2876	rBV2	33356	34831	1.05%	0.130%
36	20.074	2902	2905	2910	rVB2	107834	141704	4.29%	0.527%
37	20.174	2919	2922	2926	rBV	83037	97109	2.94%	0.361%
38	21.039	3065	3069	3073	rBV3	273459	371193	11.24%	1.382%
39	21.344	3115	3121	3125	rBV2	759820	1326686	40.16%	4.938%
40	21.386	3125	3128	3133	rVB	260473	333175	10.08%	1.240%
41	21.480	3141	3144	3146	rBV	103988	116446	3.52%	0.433%
42	21.915	3215	3218	3222	rVB2	200060	237770	7.20%	0.885%
43	22.386	3294	3298	3305	rVB	391388	518653	15.70%	1.930%
44	22.903	3381	3386	3389	rBV	414519	629255	19.05%	2.342%
45	23.480	3480	3484	3489	rVB	370308	548546	16.60%	2.042%
46	23.533	3489	3493	3501	rVB	195016	353797	10.71%	1.317%
47	23.633	3504	3510	3516	rBV	474700	934543	28.29%	3.478%
48	24.138	3591	3596	3604	rVB	299214	583032	17.65%	2.170%

Sum of corrected areas: 26867190

LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM051419\
Data File : BM020335.D
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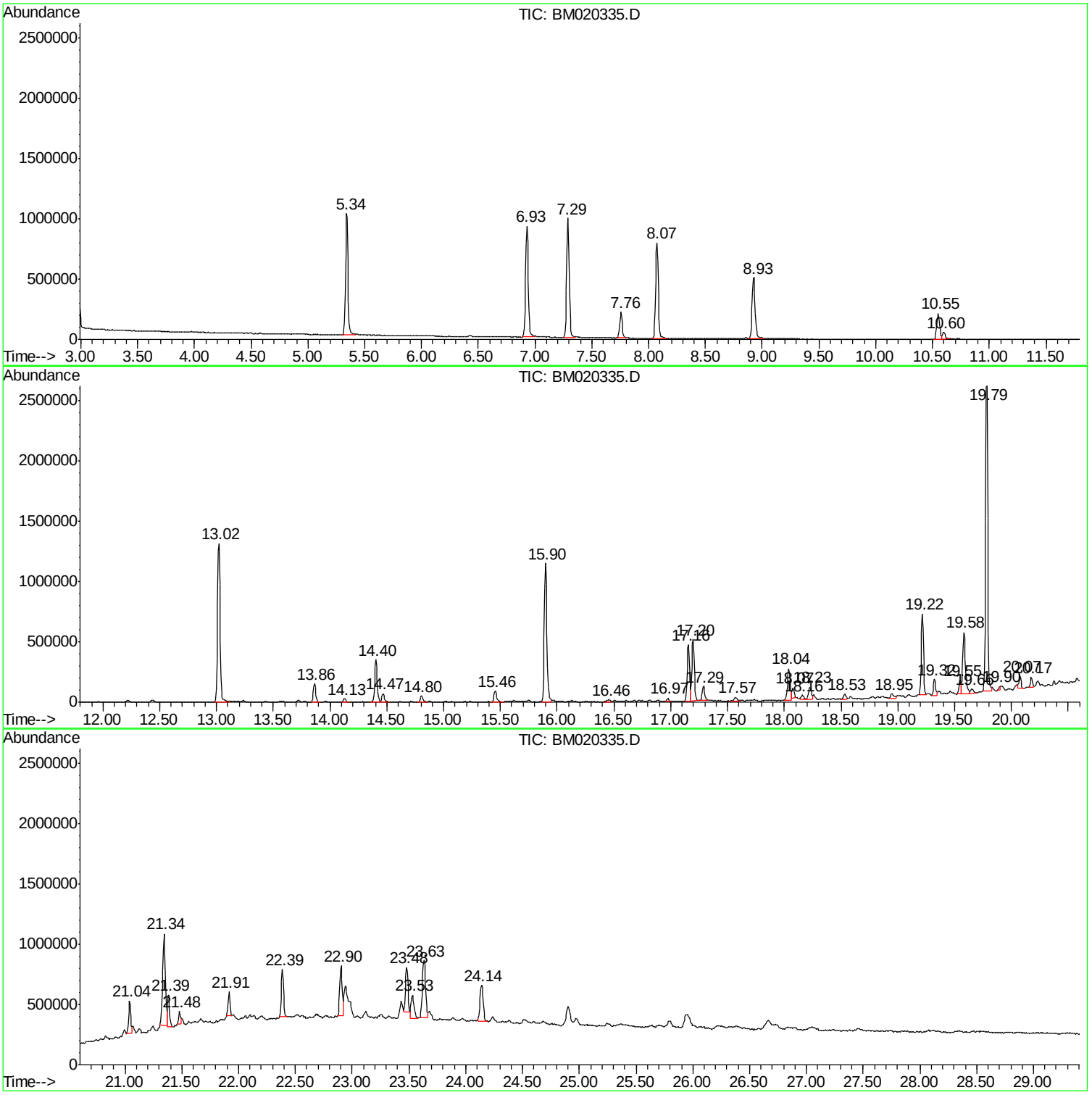
Operator : JU/SJ
Sample : K2836-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
CULVER-CBTC-WC1-051019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM051419\
Data File : BM020335.D
Acq On : 14 May 2019 16:40
Operator : JU/SJ
Sample : K2836-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : CULVER-CBTC-WC1-051019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

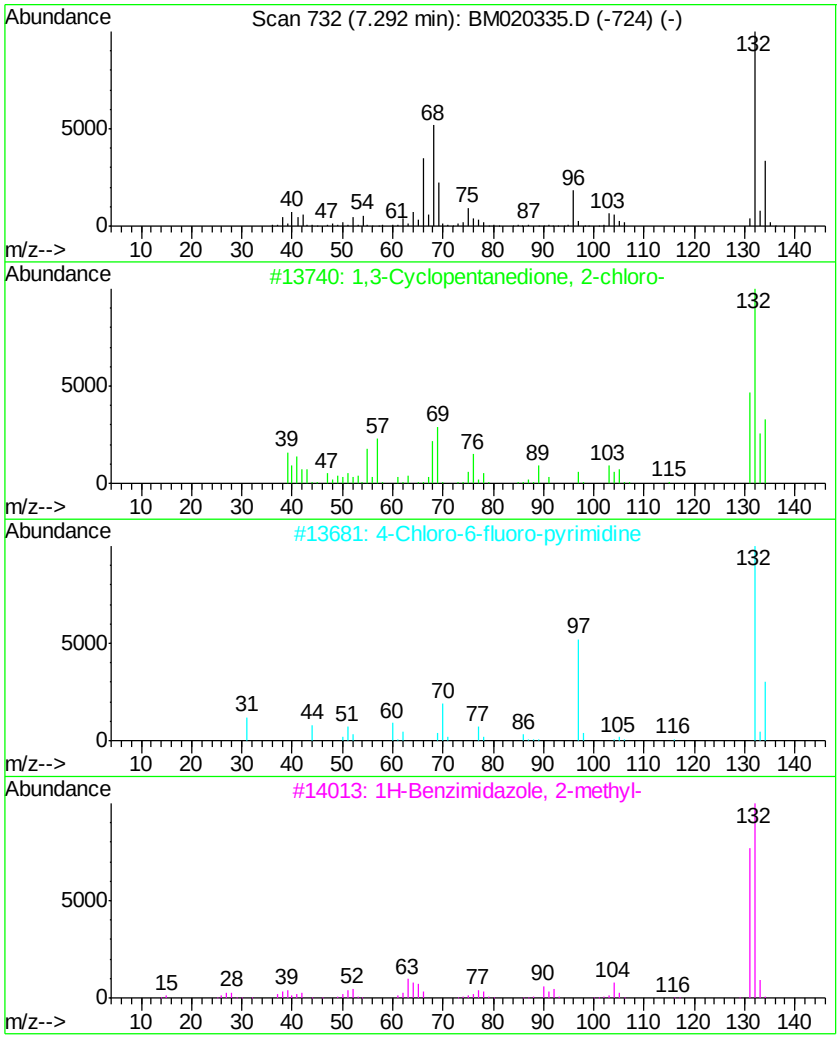
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

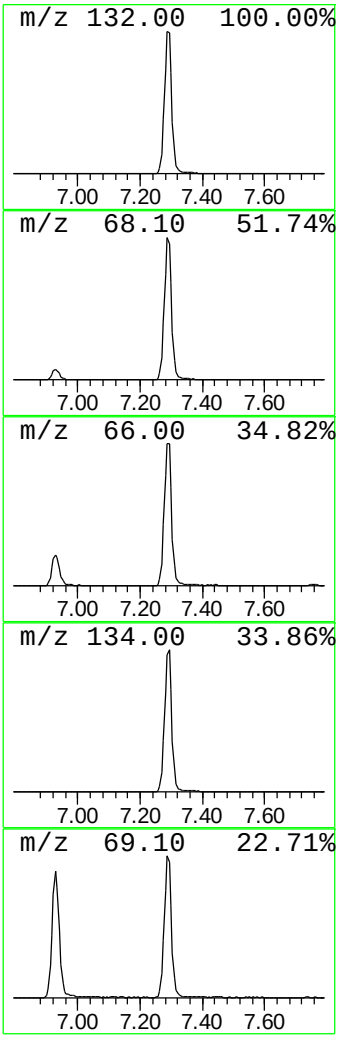
****

Peak Number 1 unknown7.29 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.29	96.60 ng	1643770	1,4-Dichlorobenzene-d4	7.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3-Cyclopentanedione, 2-chloro-	132	C5H5ClO2	014203-19-1	38
2	4-Chloro-6-fluoro-pyrimidine	132	C4H2ClFN2	051422-01-6	27
3	1H-Benzimidazole, 2-methyl-	132	C8H8N2	000615-15-6	22
4	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	16
5	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	12





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Data File : BM020335.D
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Operator : JU/SJ
Sample : K2836-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : CULVER-CBTC-WC1-051019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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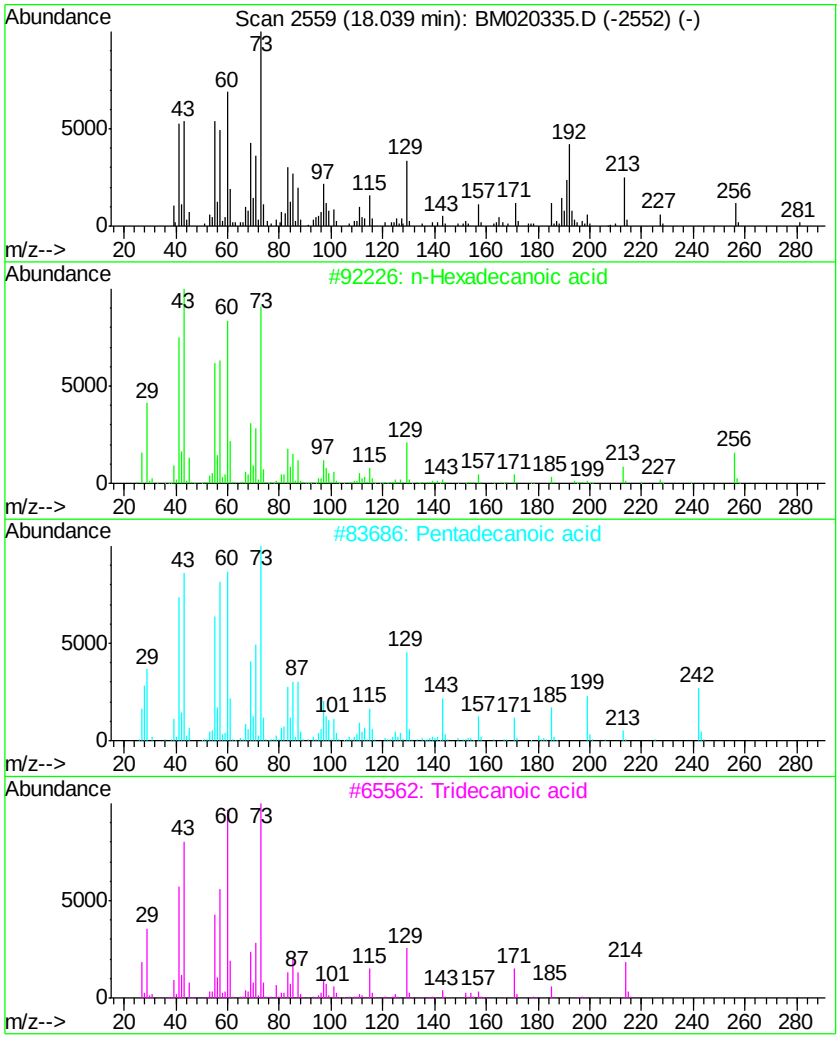
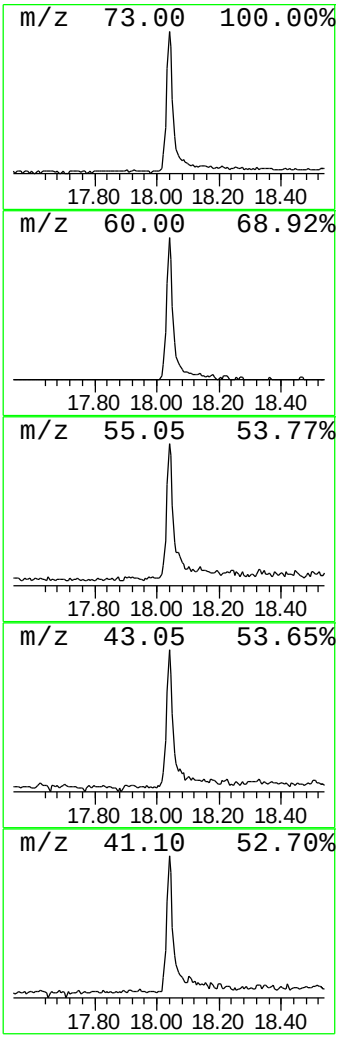
Peak Number 3 n-Hexadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.04	12.58 ng	419562	Phenanthrene-d10	17.16

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	98
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	49
3	Tridecanoic acid	214	C13H26O2	000638-53-9	43
4	Undecanoic acid	186	C11H22O2	000112-37-8	43
5	Tetradecanoic acid	228	C14H28O2	000544-63-8	38





Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM051419\
Data File : BM020335.D
Acq On : 14 May 2019 16:40
Operator : JU/SJ
Sample : K2836-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : CULVER-CBTC-WC1-051019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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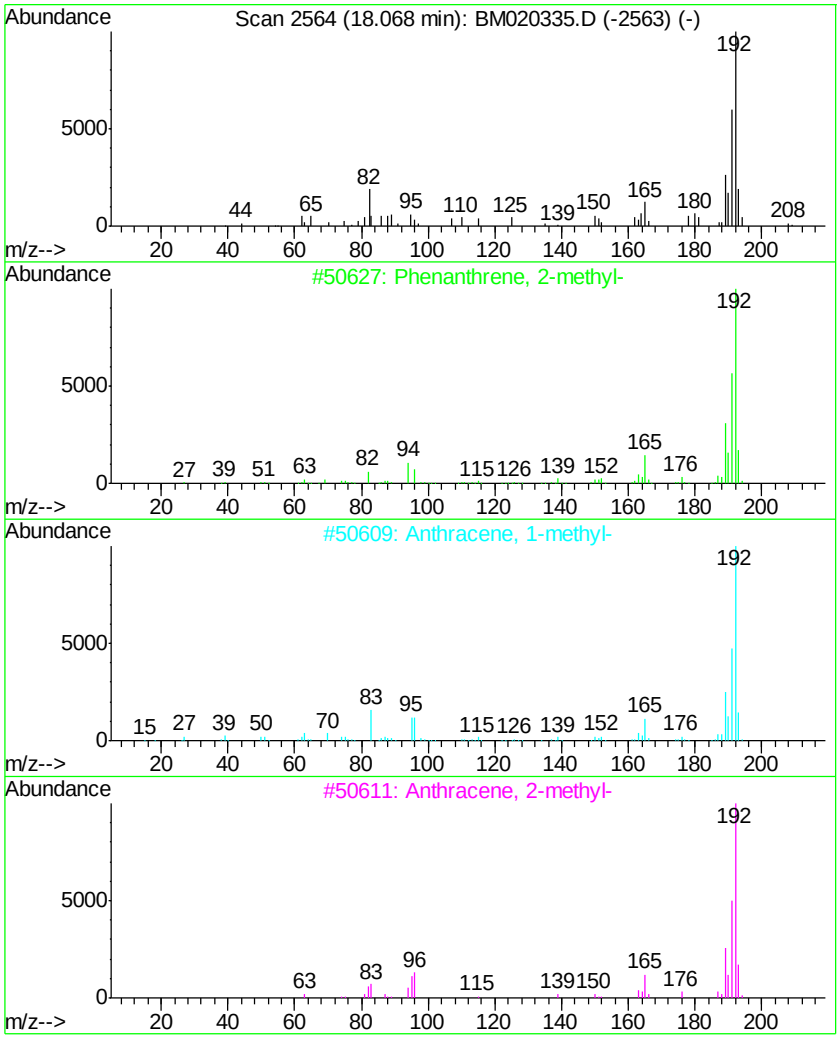
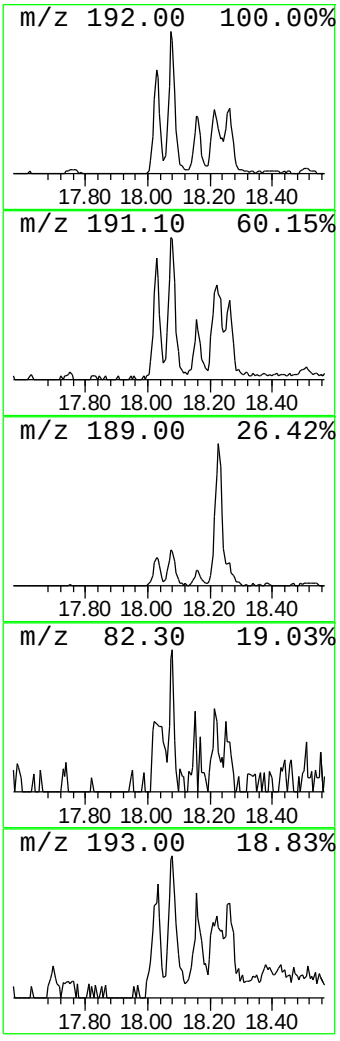
Peak Number 4 Phenanthrene, 2-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.07	3.44 ng	114749	Phenanthrene-d10	17.16

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	91
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	91
4	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	91
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	87





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM051419\
Data File : BM020335.D
Acq On : 14 May 2019 16:40
Operator : JU/SJ
Sample : K2836-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : CULVER-CBTC-WC1-051019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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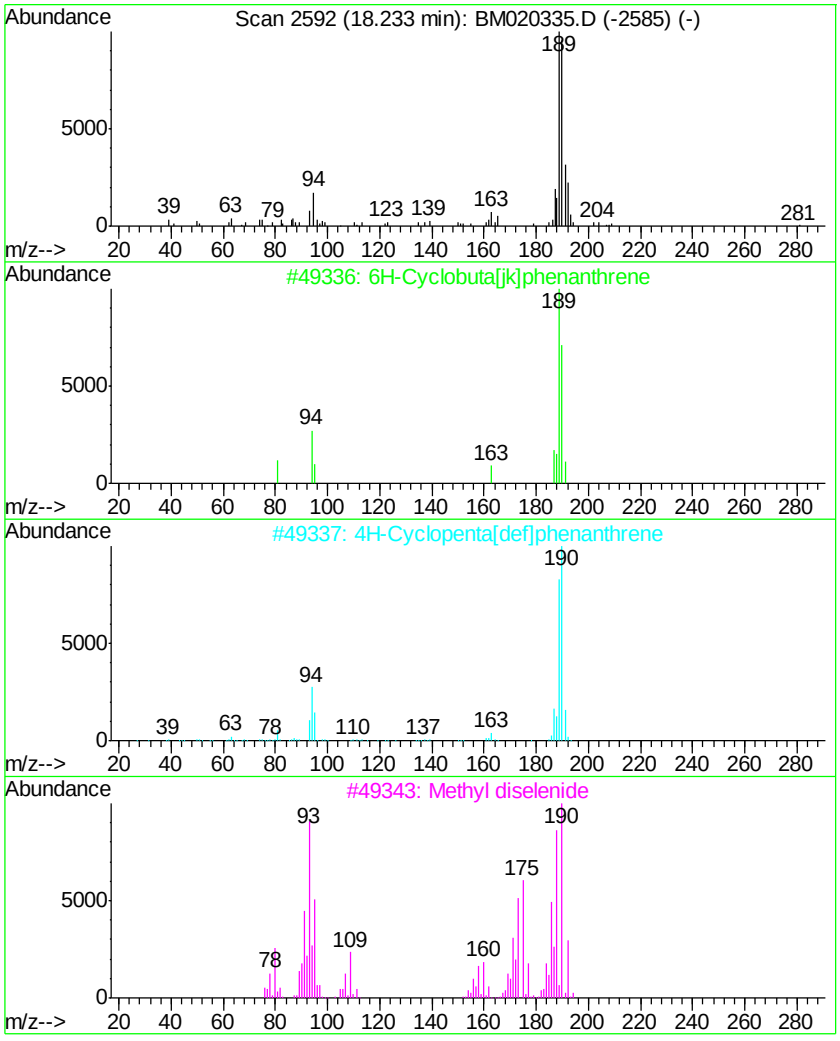
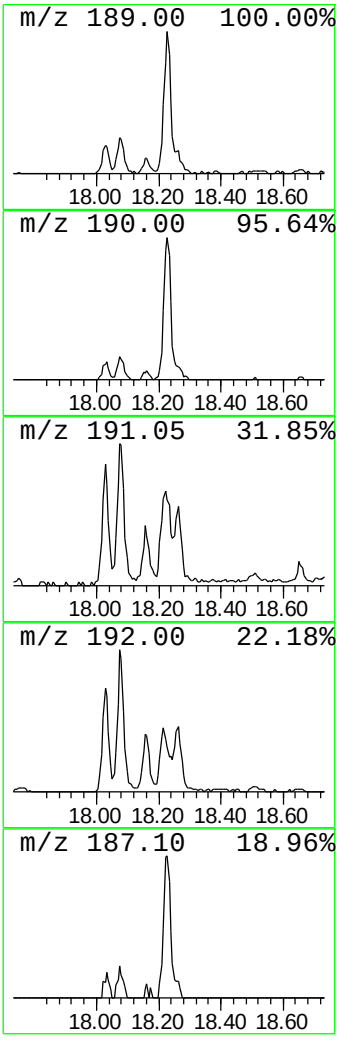
Peak Number 5 6H-Cyclobuta[jk]phenanthrene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.23	5.50 ng	183395	Phenanthrene-d10	17.16

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	80
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	72
3	Methyl diselenide	190	C2H6Se2	007101-31-7	55
4	4,4'-Difluorobiphenyl	190	C12H8F2	000398-23-2	23
5	2-Naphthaldehyde, 1,2,3,4-tetrah...	190	C12H14O2	002472-02-8	14





Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM051419\
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Sample : K2836-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : CULVER-CBTC-WC1-051019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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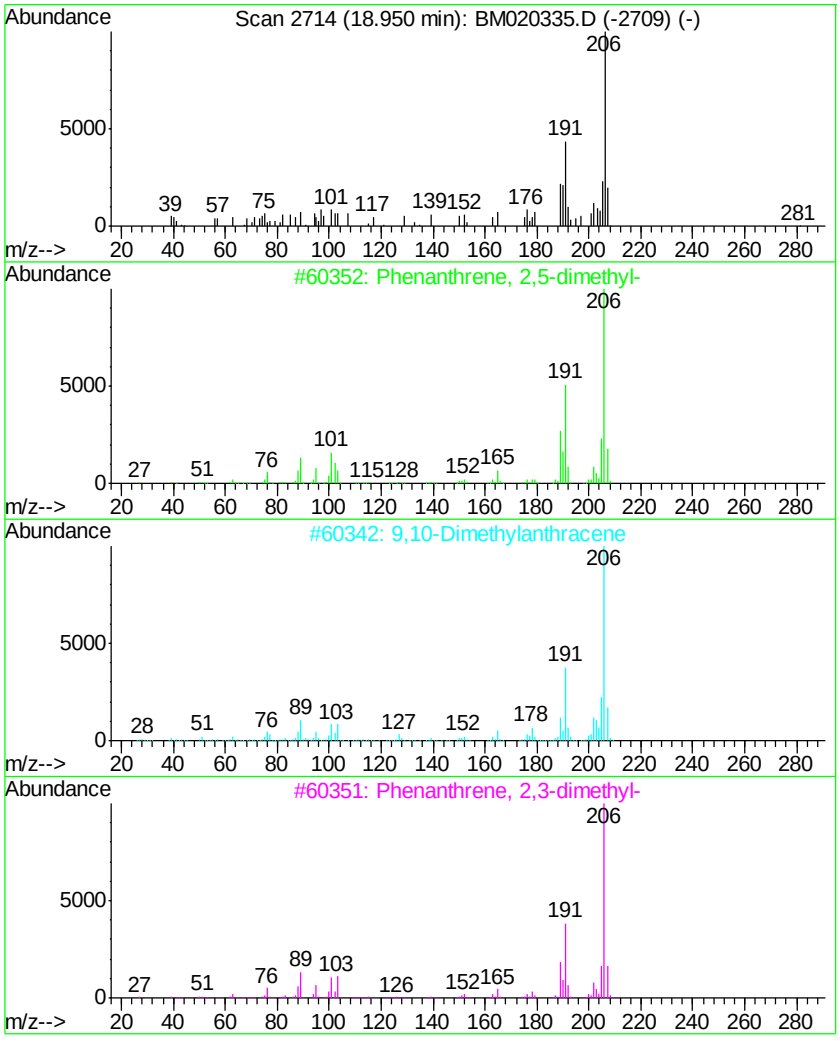
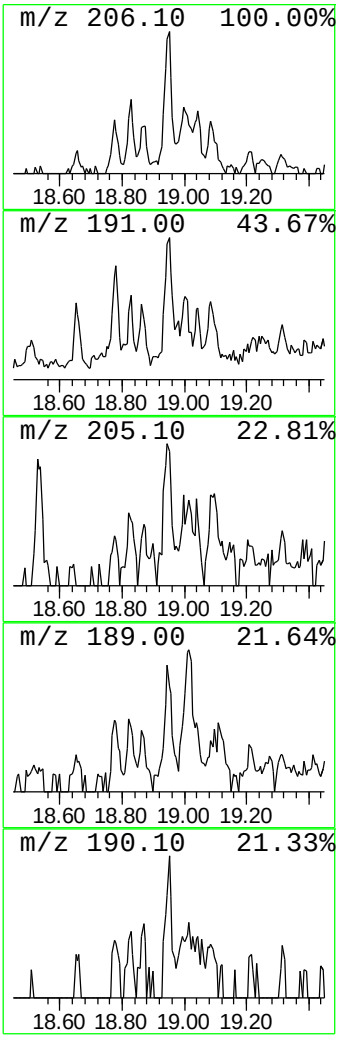
Peak Number 6 Phenanthrene, 2,5-dimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.95	2.33 ng	77768	Phenanthrene-d10	17.16

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	95
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	90
4	di-p-Tolylacetylene	206	C16H14	002789-88-0	87
5	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	87





Library Search Compound Report

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Data File : BM020335.D
Acq On : 14 May 2019 16:40
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Sample : K2836-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : CULVER-CBTC-WC1-051019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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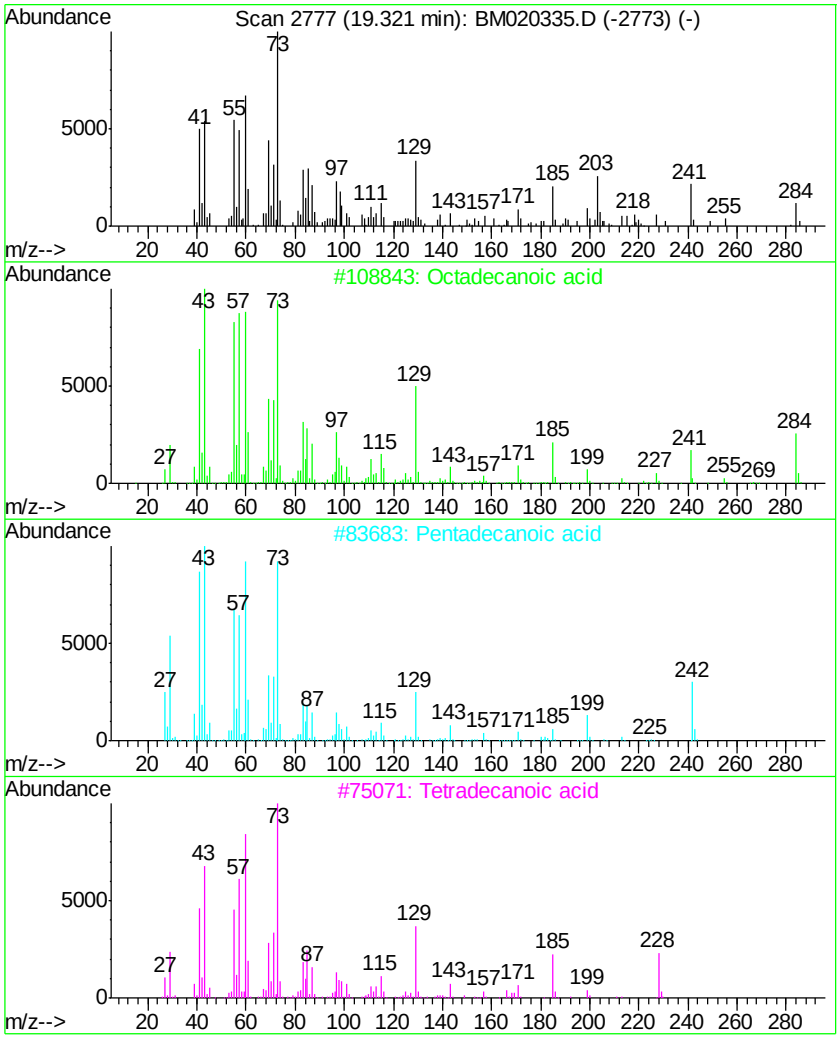
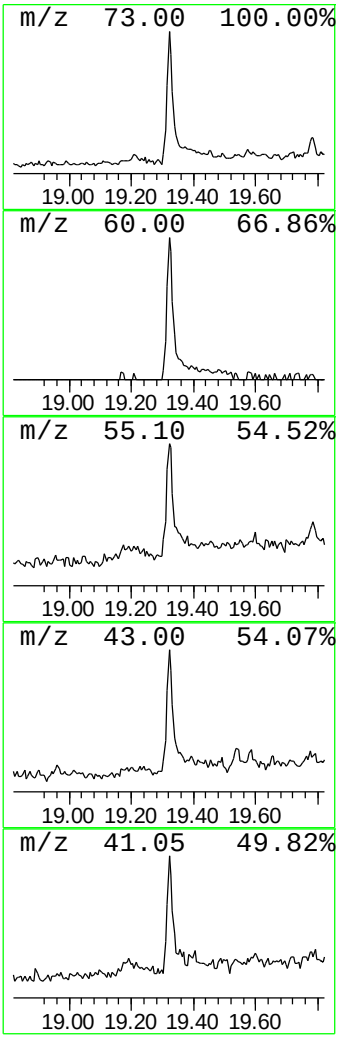
Peak Number 7 Octadecanoic acid Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.32	2.83 ng	187811	Chrysene-d12	21.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	97
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	86
3	Tetradecanoic acid	228	C14H28O2	000544-63-8	58
4	Octadecanoic acid, 2-(2-hydroxye...	372	C22H44O4	000106-11-6	53
5	n-Decanoic acid	172	C10H20O2	000334-48-5	42





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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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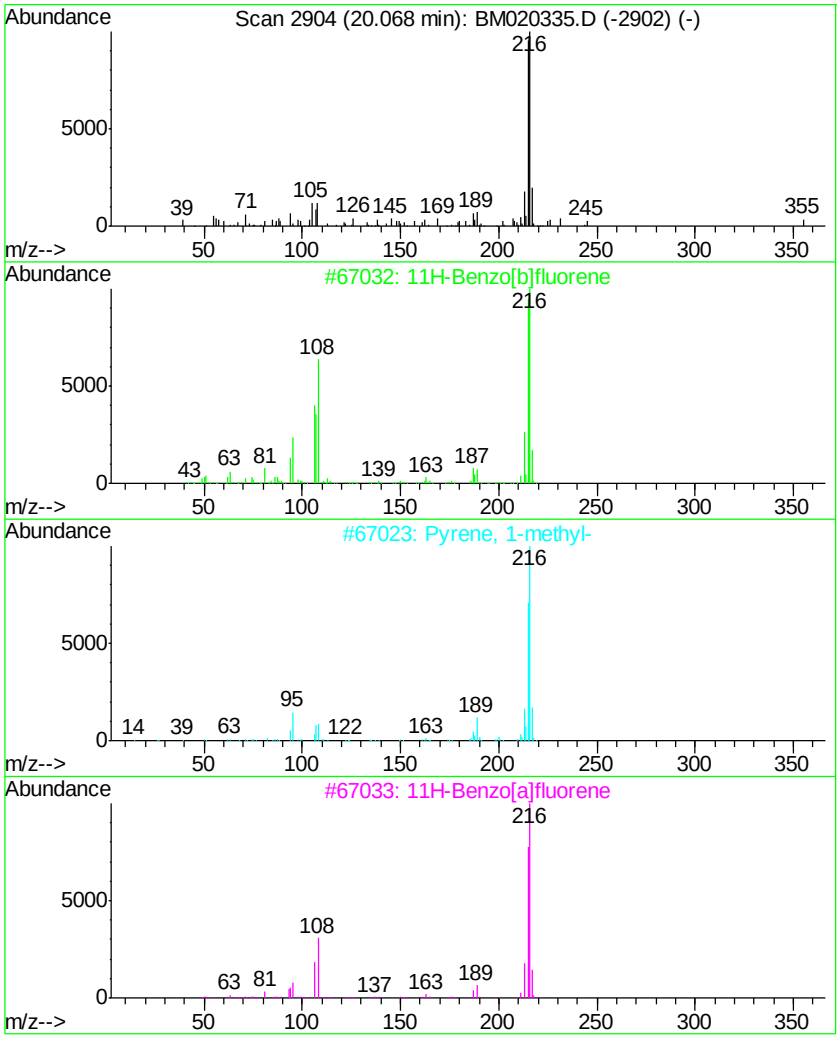
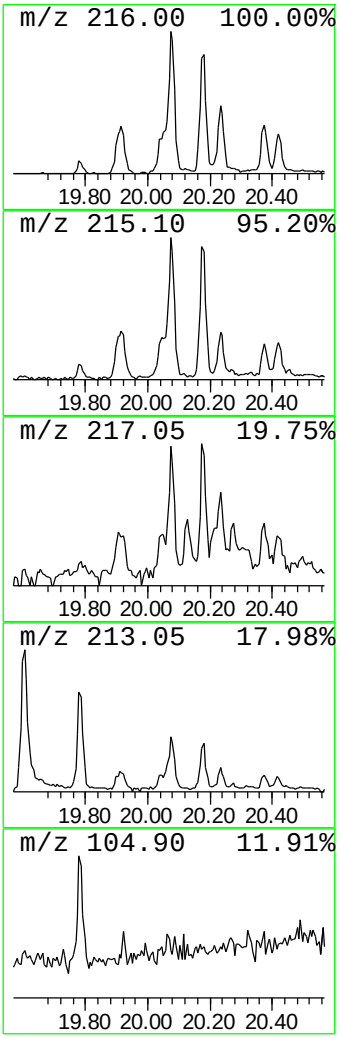
Peak Number 8 11H-Benzo[b]fluorene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.07	2.14 ng	141704	Chrysene-d12	21.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	87
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	76





Library Search Compound Report

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Data File : BM020335.D
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Instrument : BNA_M
ClientSampleId : CULVER-CBTC-WC1-051019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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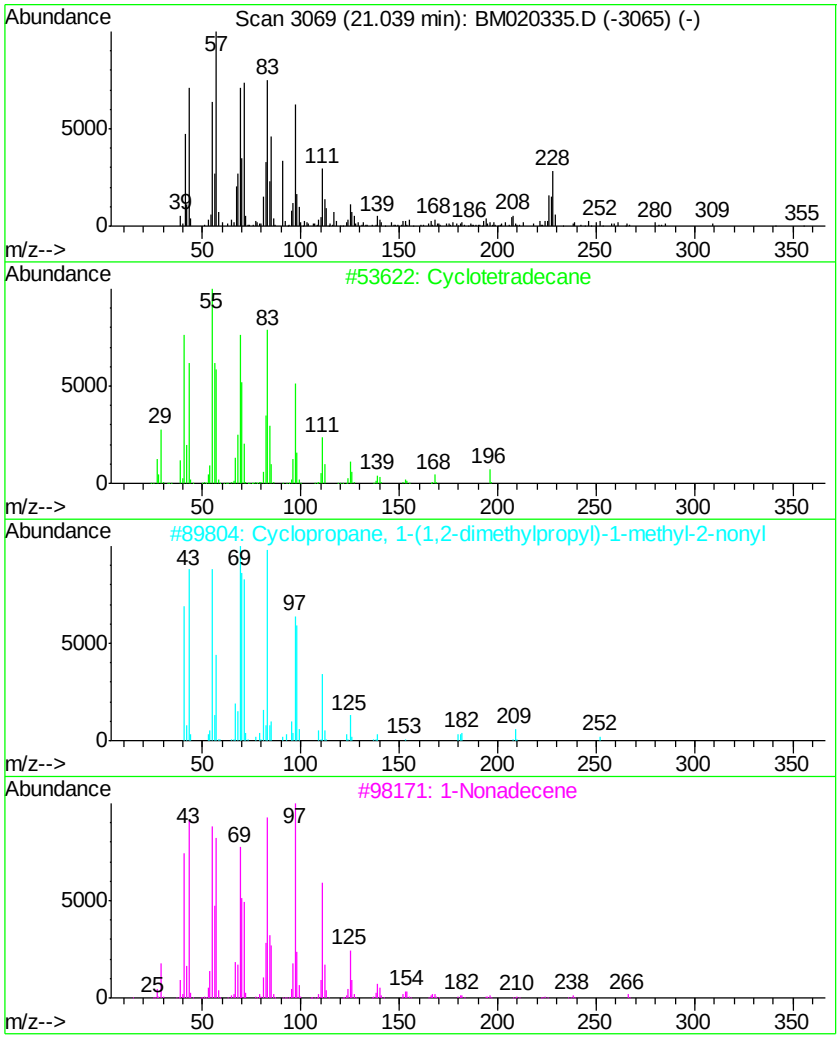
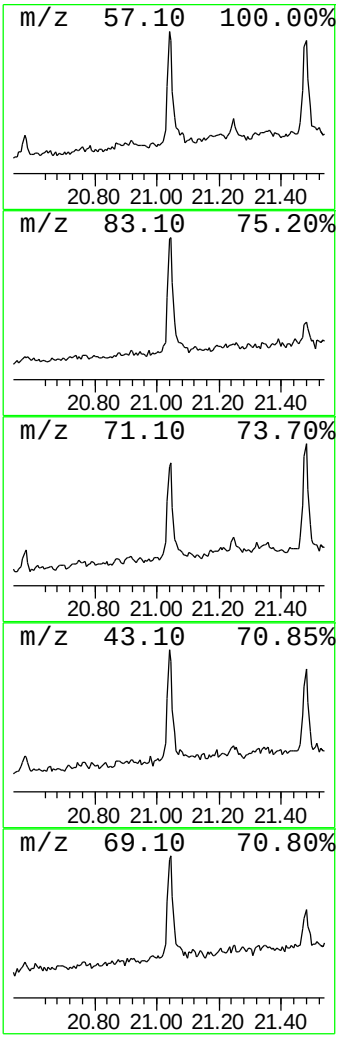
Peak Number 9 Cyclotetradecane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.04	5.60 ng	371193	Chrysene-d12	21.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclotetradecane	196	C14H28	000295-17-0	89
2	Cyclopropane, 1-(1,2-dimethylpro...	252	C18H36	041977-42-8	86
3	1-Nonadecene	266	C19H38	018435-45-5	80
4	5-Octadecene, (E)-	252	C18H36	007206-21-5	70
5	Heptafluorobutyric acid, n-penta...	424	C19H31F7O2	1000216-79-3	64





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Data File : BM020335.D
Acq On : 14 May 2019 16:40
Operator : JU/SJ
Sample : K2836-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
CULVER-CBTC-WC1-051019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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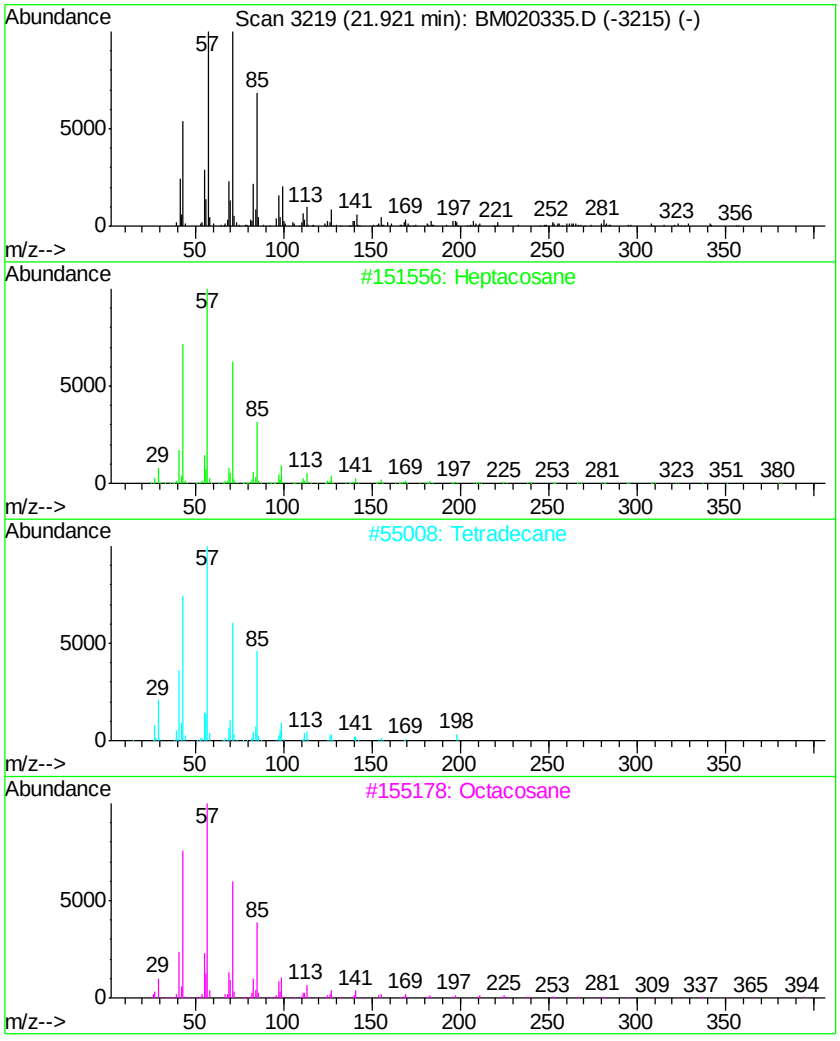
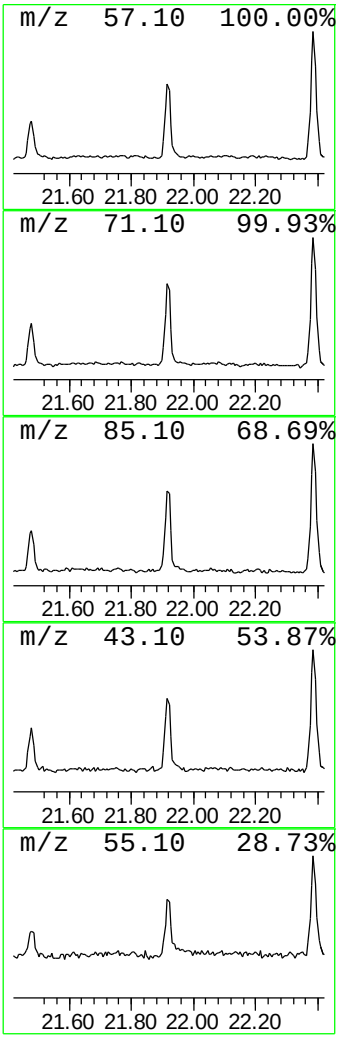
Peak Number 10 Heptacosane Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.92	3.58 ng	237770	Chrysene-d12	21.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptacosane	380	C27H56	000593-49-7	91
2	Tetradecane	198	C14H30	000629-59-4	87
3	Octacosane	394	C28H58	000630-02-4	83
4	Tetracosane	338	C24H50	000646-31-1	80
5	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	80





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Data File : BM020335.D
Acq On : 14 May 2019 16:40
Operator : JU/SJ
Sample : K2836-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : CULVER-CBTC-WC1-051019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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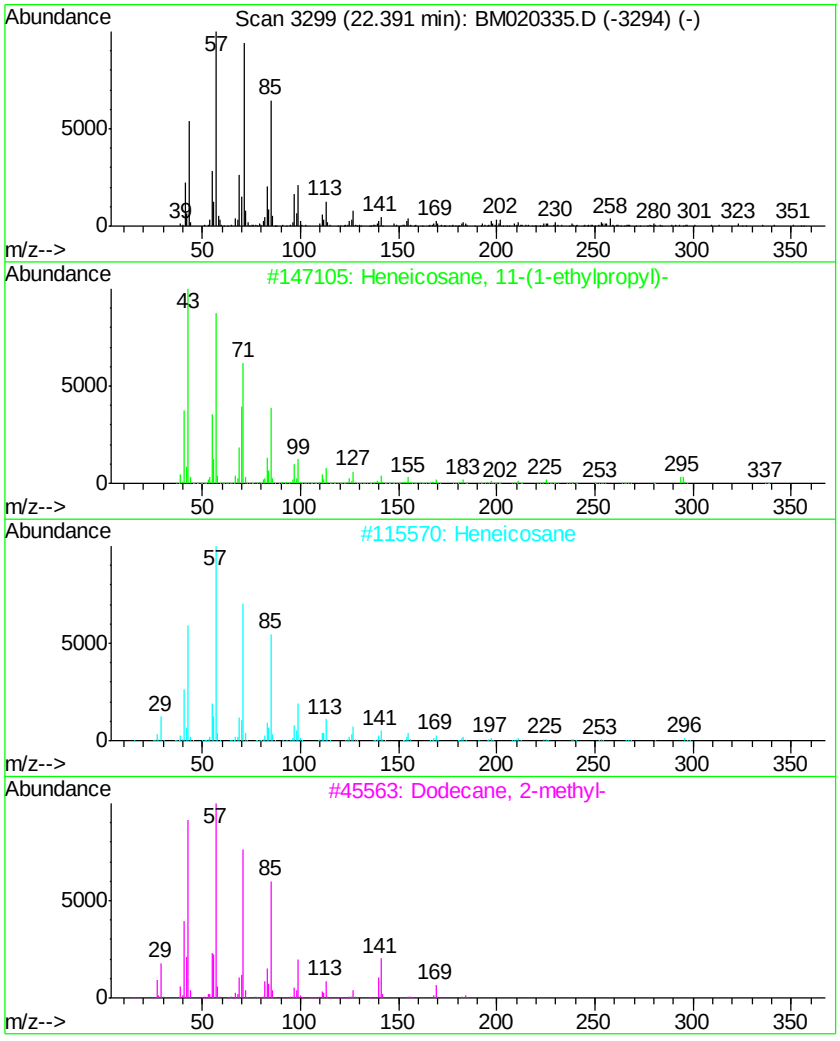
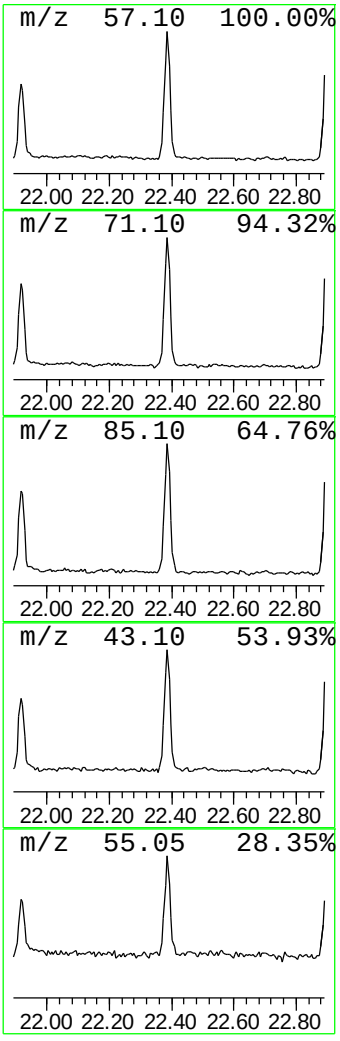
Peak Number 11 Heneicosane, 11-(1-ethylpro... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.39	7.82 ng	518653	Chrysene-d12	21.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heneicosane, 11-(1-ethylpropyl)-	366	C26H54	055282-11-6	91
2	Heneicosane	296	C21H44	000629-94-7	91
3	Dodecane, 2-methyl-	184	C13H28	001560-97-0	90
4	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	90
5	Docosane, 5-butyl-	366	C26H54	055282-16-1	90





Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM051419\
Data File : BM020335.D
Acq On : 14 May 2019 16:40
Operator : JU/SJ
Sample : K2836-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : CULVER-CBTC-WC1-051019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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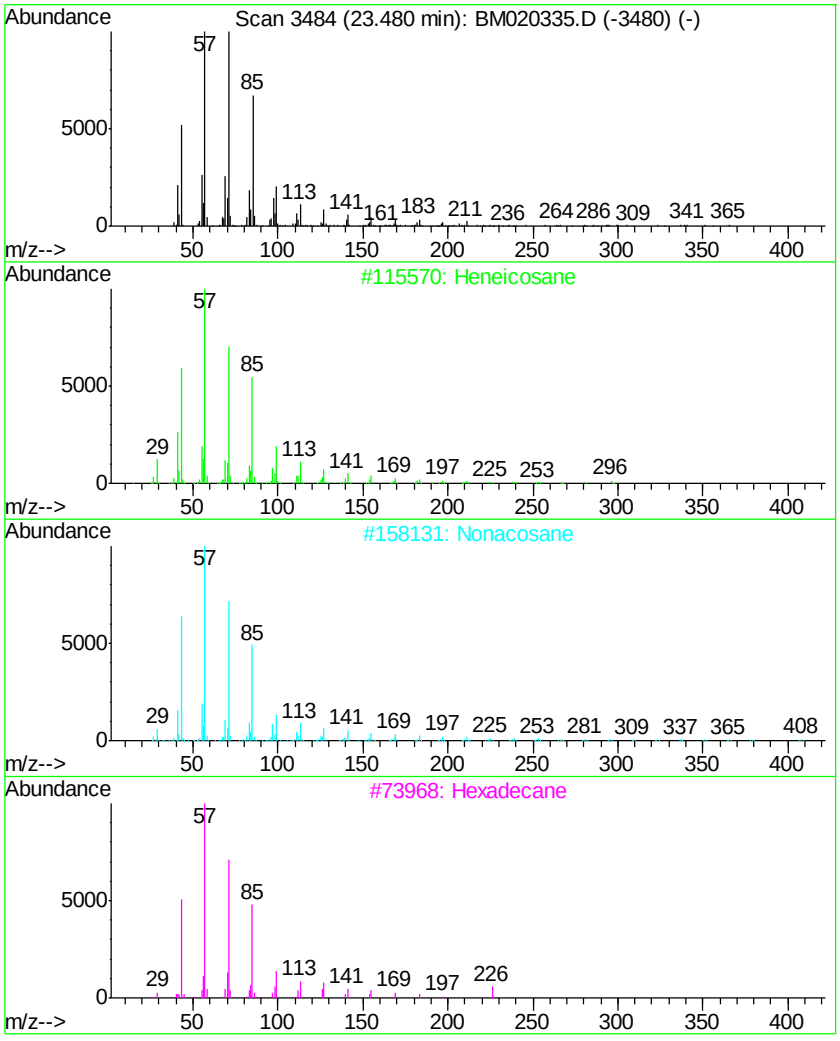
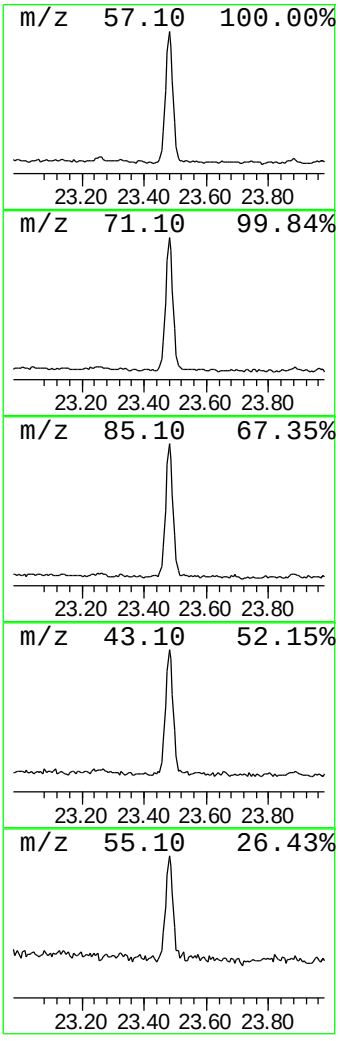
Peak Number 12 Heneicosane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.48	11.74 ng	548546	Perylene-d12	23.63

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heneicosane	296	C21H44	000629-94-7	91
2	Nonacosane	408	C29H60	000630-03-5	86
3	Hexadecane	226	C16H34	000544-76-3	83
4	Hexadecane, 3-methyl-	240	C17H36	006418-43-5	80
5	Docosane, 11-butyl-	366	C26H54	013475-76-8	80





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM051419\
Data File : BM020335.D
Acq On : 14 May 2019 16:40
Operator : JU/SJ
Sample : K2836-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : CULVER-CBTC-WC1-051019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
unknown7.29	7.29	96.6	ng	1643770	1	7.76	340327	20.0
n-Hexadecanoic acid	18.04	12.6	ng	419562	4	17.16	666977	20.0
Phenanthrene, 2-m...	18.07	3.4	ng	114749	4	17.16	666977	20.0
6H-Cyclobuta[jk]p...	18.23	5.5	ng	183395	4	17.16	666977	20.0
Phenanthrene, 2,5...	18.95	2.3	ng	77768	4	17.16	666977	20.0
Octadecanoic acid	19.32	2.8	ng	187811	5	21.34	1326690	20.0
11H-Benzo[b]fluorene	20.07	2.1	ng	141704	5	21.34	1326690	20.0
Cyclotetradecane	21.04	5.6	ng	371193	5	21.34	1326690	20.0
Heptacosane	21.92	3.6	ng	237770	5	21.34	1326690	20.0
Heneicosane, 11-(...	22.39	7.8	ng	518653	5	21.34	1326690	20.0
Heneicosane	23.48	11.7	ng	548546	6	23.63	934543	20.0