LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122018\
Data File : BF111653.D
Acq On : 20 Dec 2018 21:55
Operator : JU/SJ
Sample : J6357-09
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-09B

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-BF121918.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	2.258	22	29	36	rVB	737170	1045518	15.53%	1.657%
2	5.140	513	519	526	rVB	263077	340577	5.06%	0.540%
3	5.528	579	585	588	rBV	5690382	6007806	89.22%	9.522%
4	6.528	748	755	759	rBV	5665096	6733488	100.00%	10.672%
5	6.669	774	779	782	rBV	6171090	6249609	92.81%	9.905%
6	6.898	814	818	821	rBV	1602640	1326956	19.71%	2.103%
7	7.057	840	845	848	rBV	5486108	4822255	71.62%	7.643%
8	7.457	907	913	916	rBV	4064743	4060653	60.31%	6.436%
9	8.175	1030	1035	1038	rBV	1895113	1698178	25.22%	2.691%
10	9.251	1213	1218	1222	rBV	6373574	6126196	90.98%	9.709%
11	9.351	1228	1235	1237	rVB4	56985	74052	1.10%	0.117%
12	9.639	1281	1284	1287	rVB	443887	322046	4.78%	0.510%
13	9.934	1326	1334	1337	rBV	1934009	1797591	26.70%	2.849%
14	9.963	1337	1339	1342	rVB2	118429	95659	1.42%	0.152%
15	10.134	1364	1368	1371	rVB	90749	84564	1.26%	0.134%
16	10.475	1423	1426	1432	rBV2	84808	92130	1.37%	0.146%
17	10.716	1462	1467	1471	rBV	3584275	3261589	48.44%	5.169%
18	10.839	1484	1488	1495	rVB5	75879	91982	1.37%	0.146%
19	11.216	1549	1552	1556	rVB2	91965	90849	1.35%	0.144%
20	11.286	1556	1564	1566	rVV5	60602	117504	1.75%	0.186%
21	11.310	1566	1568	1574	rVB	70598	72675	1.08%	0.115%
22	11.416	1582	1586	1588	rBV	1618273	1523630	22.63%	2.415%
23	11.439	1588	1590	1593	rVV	1134930	859554	12.77%	1.362%
24	11.486	1593	1598	1601	rVB	222429	215909	3.21%	0.342%
25	11.639	1619	1624	1627	rBV2	66172	77741	1.15%	0.123%
26	11.916	1667	1671	1673	rBV	288846	265981	3.95%	0.422%
27	11.939	1673	1675	1680	rVV	604702	534658	7.94%	0.847%
28	11.986	1680	1683	1686	rVV	85375	96709	1.44%	0.153%
29	12.022	1686	1689	1692	rVV2	293710	356609	5.30%	0.565%
30	12.045	1692	1693	1697	rVB	180372	145927	2.17%	0.231%
31	12.210	1718	1721	1723	rBV	187399	178512	2.65%	0.283%
32	12.227	1723	1724	1731	rVB2	108814	73523	1.09%	0.117%
33	12.357	1741	1746	1749	rBV	94000	104766	1.56%	0.166%
34	12.463	1760	1764	1767	rBV2	207350	252907	3.76%	0.401%

LSC Area Percent Report

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Data File : BF111653.D
Acq On : 20 Dec 2018 21:55
Operator : JU/SJ
Sample : J6357-09
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-09B

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-BF121918.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	12.504	1767	1771	1773	rVV3	93490	133904	1.99%	0.212%
36	12.545	1776	1778	1784	rVB3	101336	115703	1.72%	0.183%
37	12.622	1788	1791	1795	rBV	1106655	970838	14.42%	1.539%
38	12.722	1805	1808	1810	rBV2	87374	69644	1.03%	0.110%
39	12.851	1824	1830	1836	rBV	1194425	1232176	18.30%	1.953%
40	12.898	1836	1838	1844	rVB2	68664	103807	1.54%	0.165%
41	12.998	1851	1855	1858	rVB	4363066	3810729	56.59%	6.039%
42	13.069	1862	1867	1871	rBV2	123878	175501	2.61%	0.278%
43	13.180	1883	1886	1889	rVB	193477	186287	2.77%	0.295%
44	13.245	1893	1897	1900	rBV	124350	123106	1.83%	0.195%
45	13.280	1900	1903	1906	rBV2	150384	157184	2.33%	0.249%
46	13.374	1917	1919	1922	rBV	92771	79134	1.18%	0.125%
47	13.404	1922	1924	1928	rVB	122169	104266	1.55%	0.165%
48	13.680	1965	1971	1977	rBV2	107158	180885	2.69%	0.287%
49	13.798	1986	1991	1994	rBV2	82105	146598	2.18%	0.232%
50	13.886	2003	2006	2014	rVB2	253475	282887	4.20%	0.448%
51	14.045	2028	2033	2036	rBV2	1631018	2004196	29.76%	3.176%
52	14.074	2036	2038	2046	rVB	537920	486765	7.23%	0.771%
53	14.221	2058	2063	2066	rVB5	61070	102222	1.52%	0.162%
54	14.433	2095	2099	2101	rVB	141561	139744	2.08%	0.221%
55	14.463	2101	2104	2107	rVB	95325	85048	1.26%	0.135%
56	14.521	2108	2114	2117	rBV3	131074	183965	2.73%	0.292%
57	14.557	2117	2120	2122	rVV	81090	74841	1.11%	0.119%
58	15.086	2205	2210	2214	rBV	328757	580344	8.62%	0.920%
59	15.392	2258	2262	2268	rVV	193781	235711	3.50%	0.374%
60	15.457	2268	2273	2278	rVB	285723	359740	5.34%	0.570%
61	15.521	2279	2284	2288	rBV	993547	1205268	17.90%	1.910%
62	15.557	2288	2290	2296	rVB3	102443	158878	2.36%	0.252%
63	16.010	2363	2367	2371	rBV4	66140	105166	1.56%	0.167%
64	16.992	2529	2534	2542	rVB2	101450	183654	2.73%	0.291%
65	17.439	2605	2610	2616	rVB2	70704	120319	1.79%	0.191%

Sum of corrected areas: 63096813

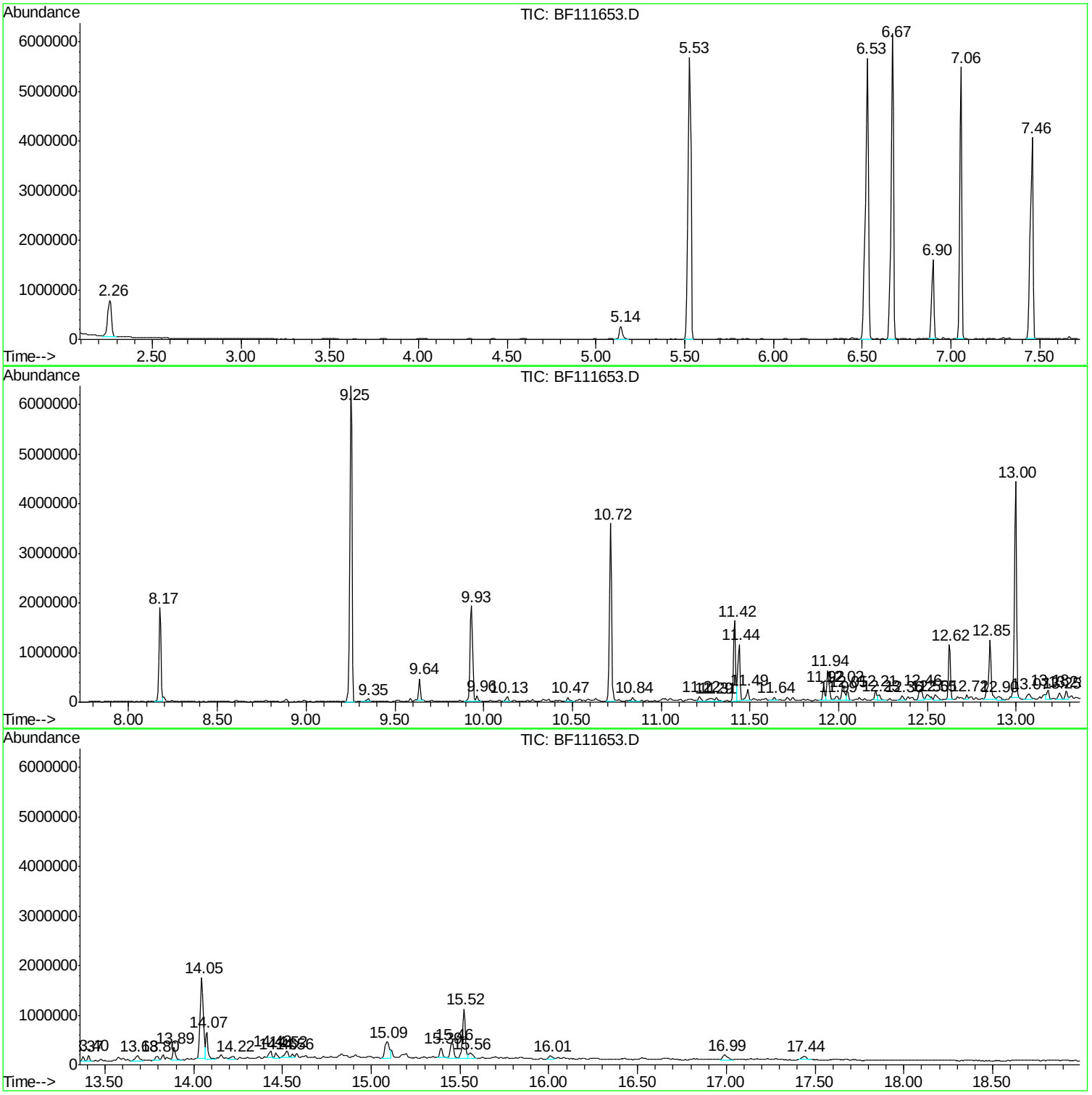
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122018\
Data File : BF111653.D
Acq On : 20 Dec 2018 21:55
Operator : JU/SJ
Sample : J6357-09
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-09B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121918.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\BF122018\
Data File : BF111653.D
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Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-09B

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

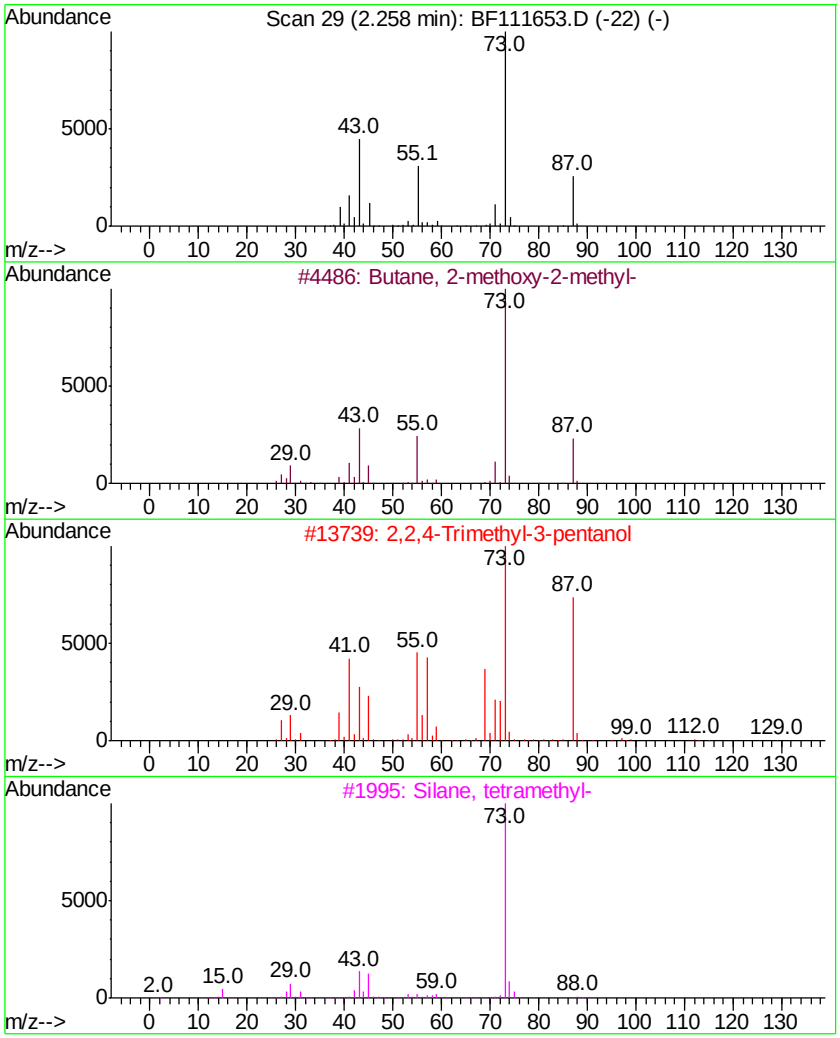
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

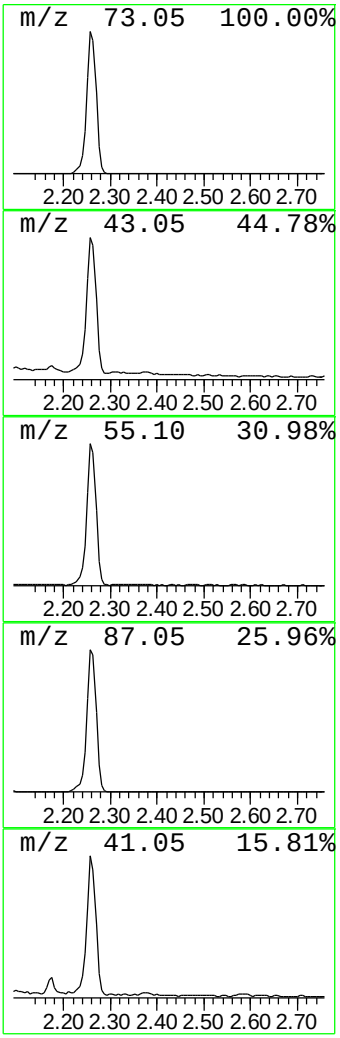
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.26	15.76 ng	1045520	1,4-Dichlorobenzene-d4	6.90

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	40
3	Silane, tetramethyl-	88	C4H12Si	000075-76-3	38
4	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	23
5	N-Ethylformamide	73	C3H7NO	000627-45-2	9





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122018\
Data File : BF111653.D
Acq On : 20 Dec 2018 21:55
Operator : JU/SJ
Sample : J6357-09
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-09B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

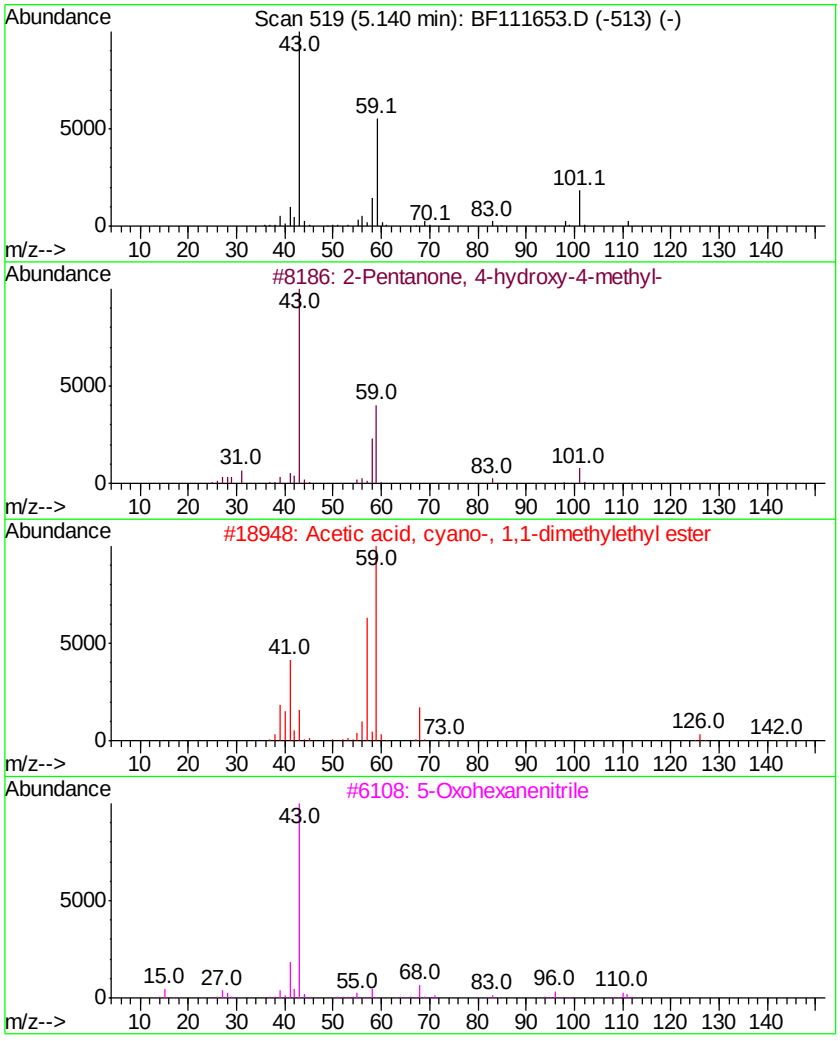
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

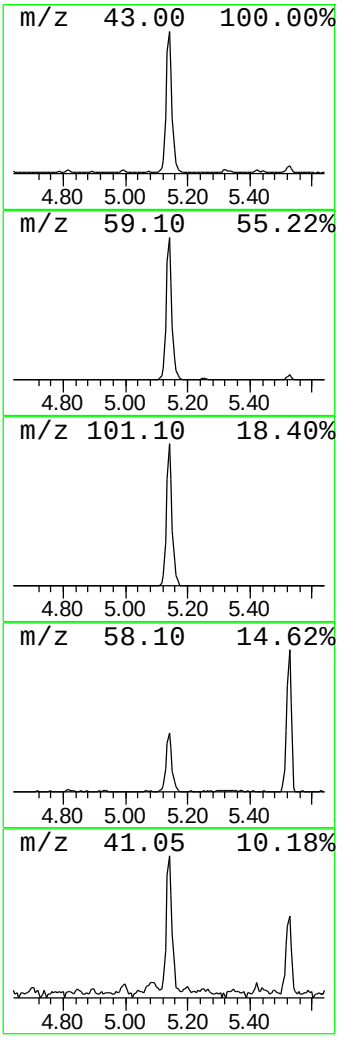
****

Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.14	5.13 ng	340577	1,4-Dichlorobenzene-d4	6.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	45
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	25
3	5-Oxohexanenitrile	111	C6H9NO	010412-98-3	14
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	10
5	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122018\
Data File : BF111653.D
Acq On : 20 Dec 2018 21:55
Operator : JU/SJ
Sample : J6357-09
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-09B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121918.M
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TIC Library : C:\DATABASE\NIST11.L
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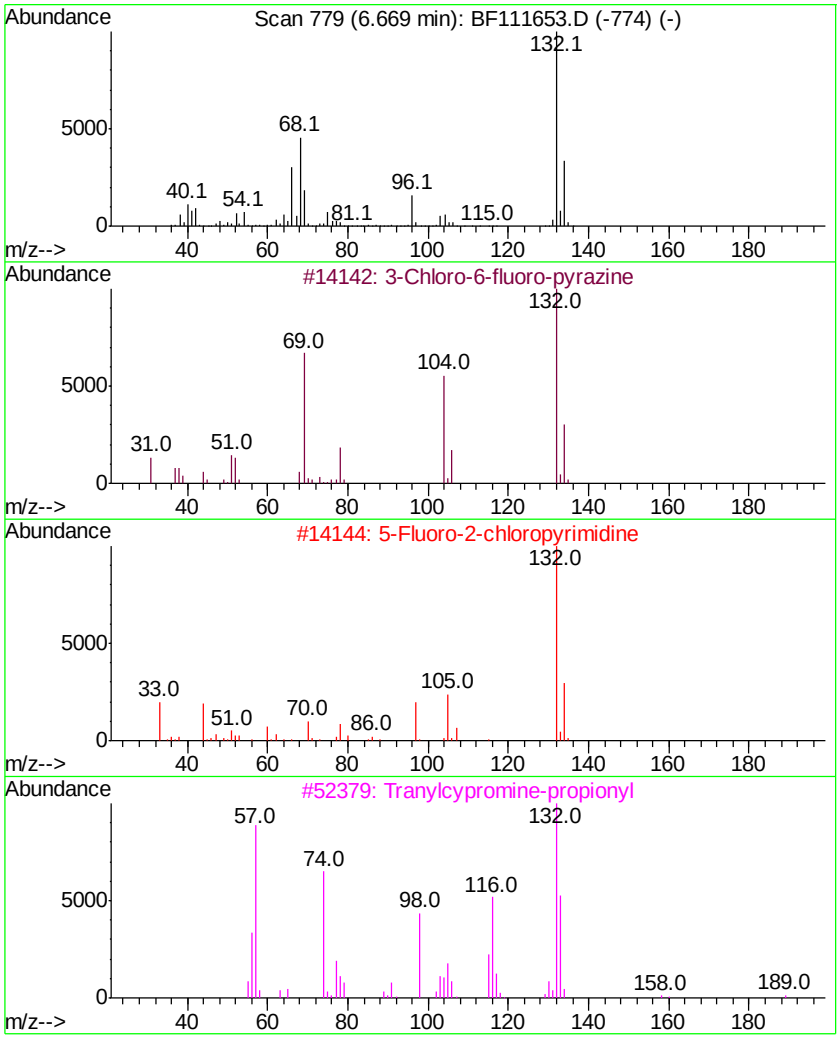
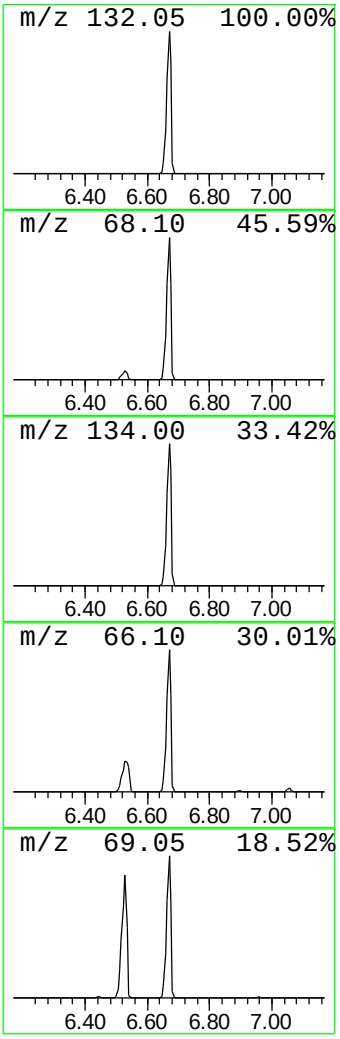
****

Peak Number 3 unknown6.67 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.67	94.19 ng	6249610	1,4-Dichlorobenzene-d4	6.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	16
3	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	12
4	1,3,5-Trifluorobenzene	132	C6H3F3	000372-38-3	9
5	Bicyclo[4.2.0]octa-1,3,5-triene,...	132	C10H12	028749-81-7	9





Library Search Compound Report

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Operator : JU/SJ
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Misc :
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Instrument : BNA_F
ClientSampleId : SB-09B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121918.M
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TIC Library : C:\DATABASE\NIST11.L
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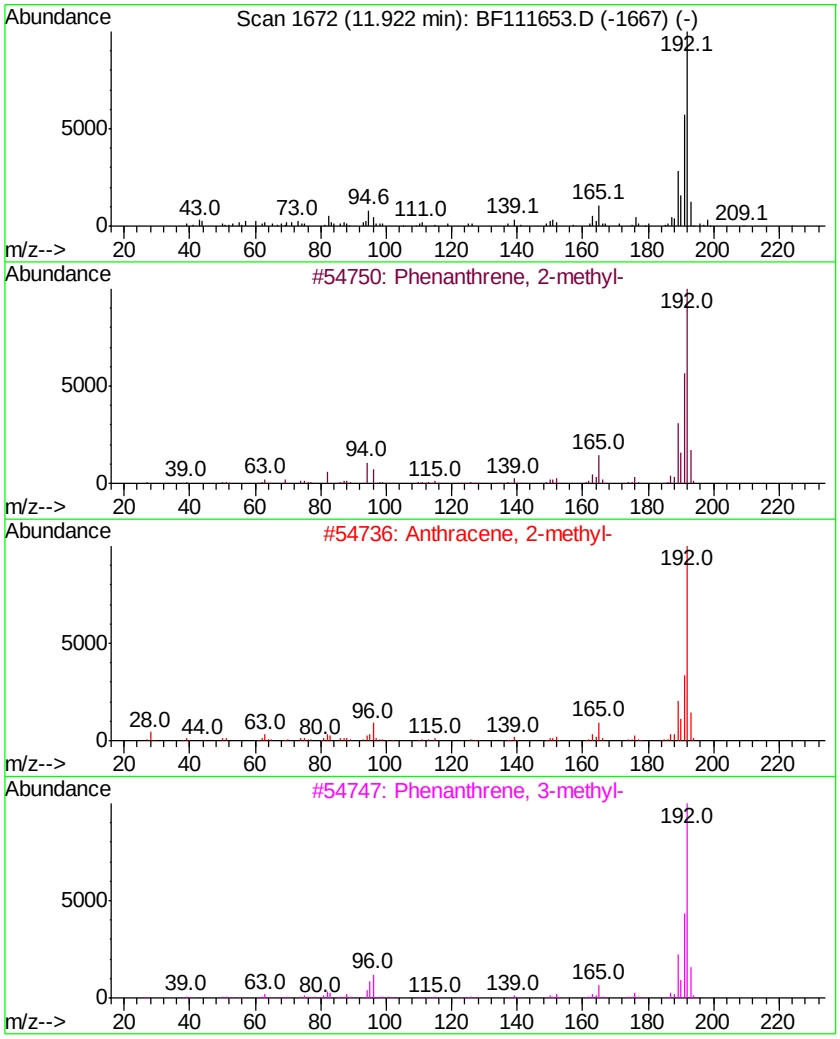
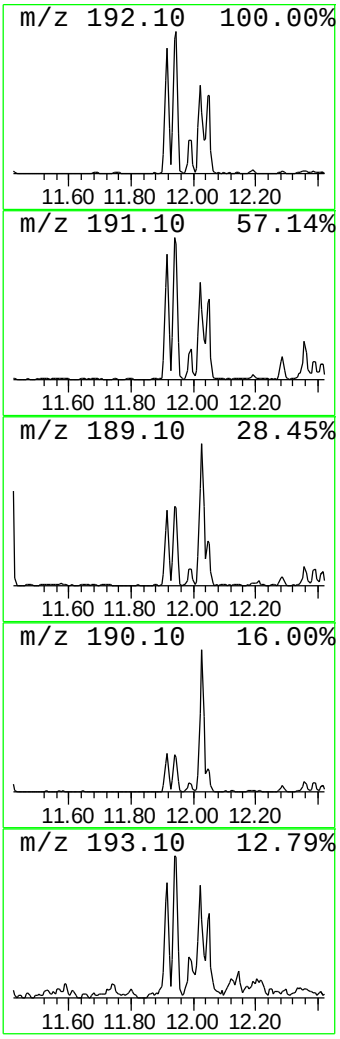
****

Peak Number 5 Phenanthrene, 2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.92	3.49 ng	265981	Phenanthrene-d10	11.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
3	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	93
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	91





Library Search Compound Report

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Data File : BF111653.D
Acq On : 20 Dec 2018 21:55
Operator : JU/SJ
Sample : J6357-09
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-09B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

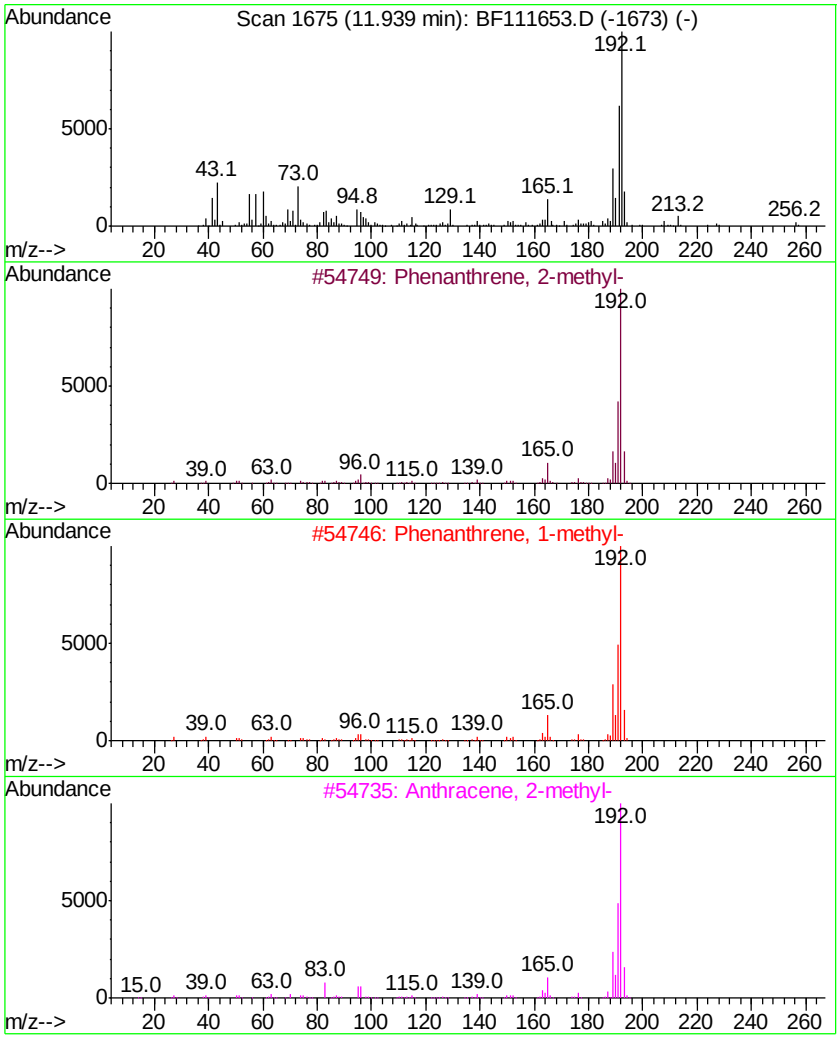
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

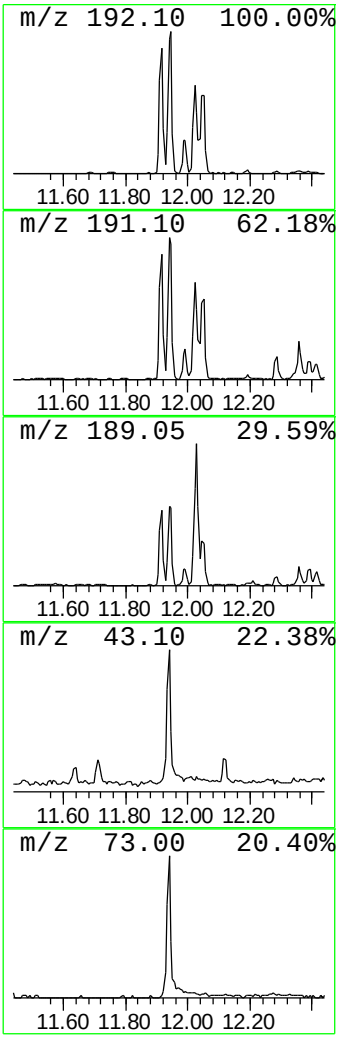
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.94	7.02 ng	534658	Phenanthrene-d10	11.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	94
5	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	93





Library Search Compound Report

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Data File : BF111653.D
Acq On : 20 Dec 2018 21:55
Operator : JU/SJ
Sample : J6357-09
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-09B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

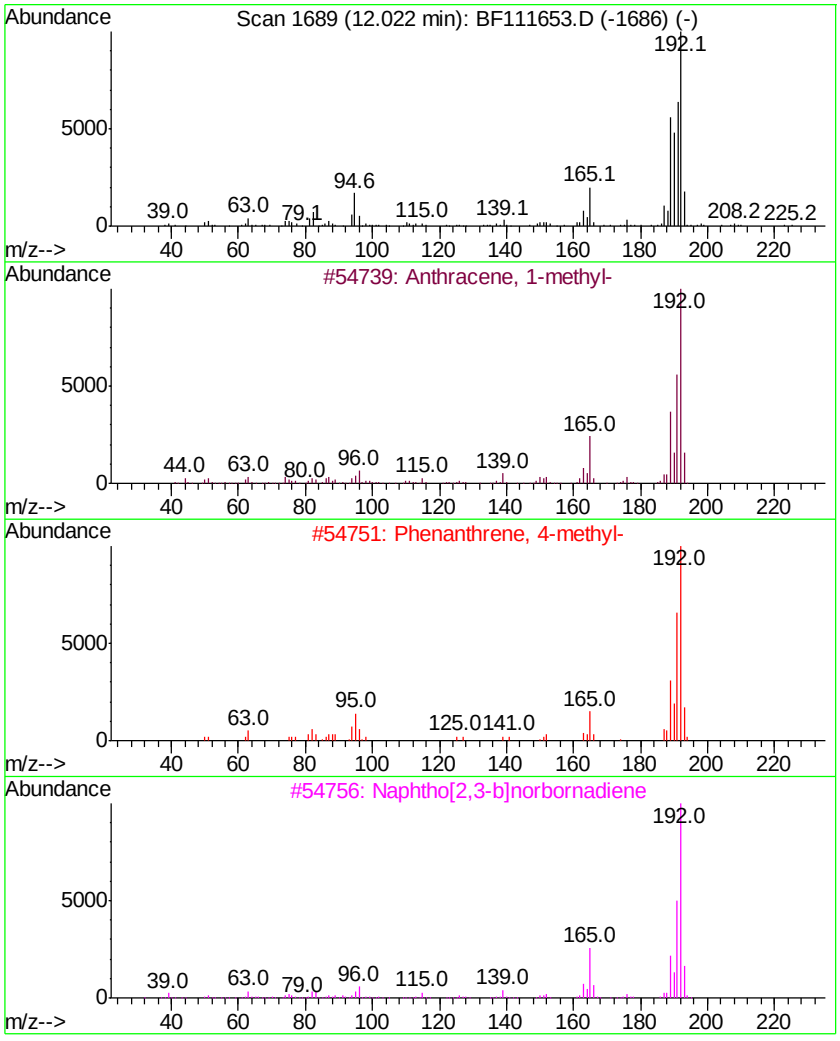
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

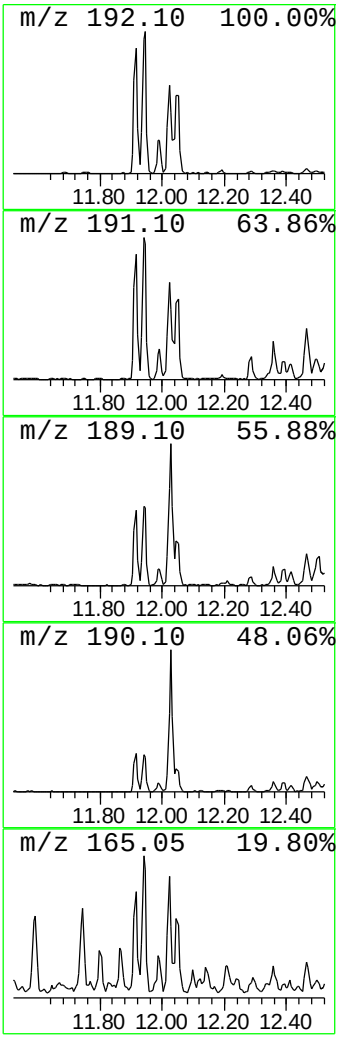
****

Peak Number 7 Anthracene, 1-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.02	4.68 ng	356609	Phenanthrene-d10	11.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	70
2	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	60
3	Naphtho[2,3-b]norbornadiene	192	C15H12	107426-38-0	60
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	60
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	55





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122018\
Data File : BF111653.D
Acq On : 20 Dec 2018 21:55
Operator : JU/SJ
Sample : J6357-09
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-09B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

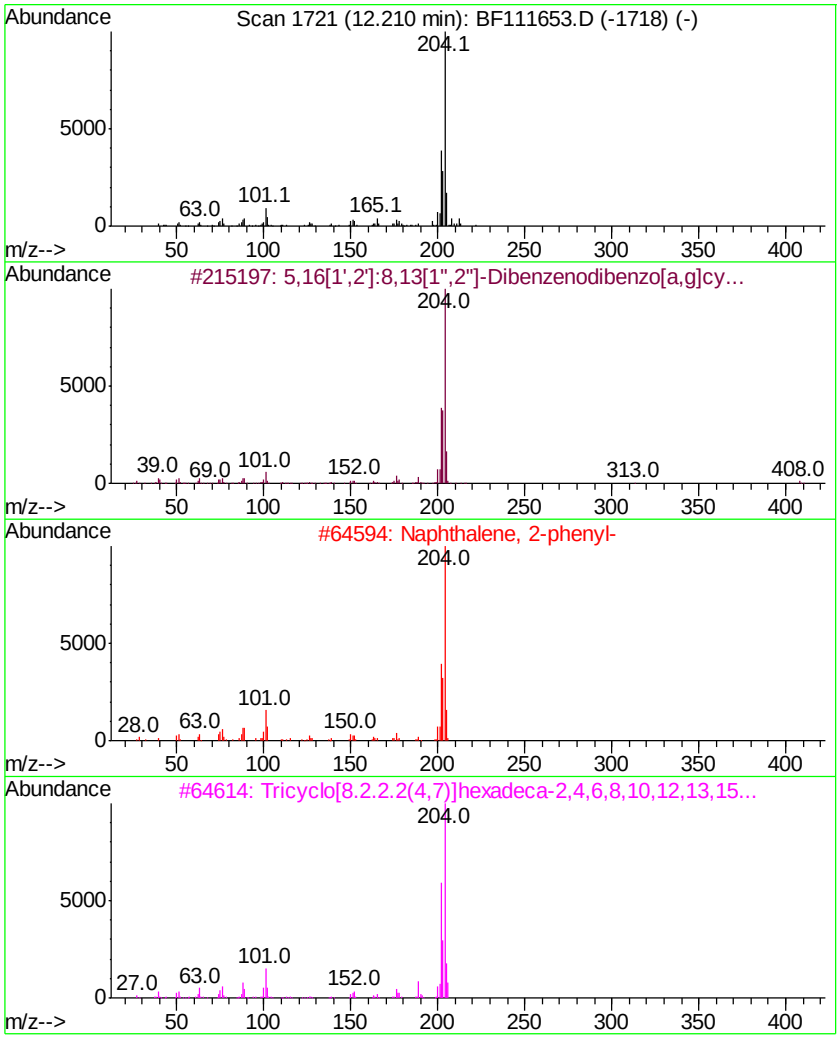
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

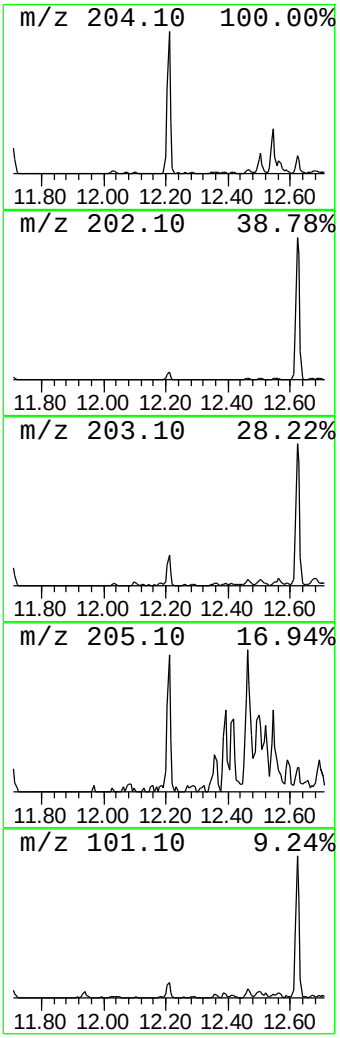
****

Peak Number 8 5,16[1',2']:8,13[1'',2'']-D... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.21	2.34 ng	178512	Phenanthrene-d10	11.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	91
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	86
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	70
4	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	53
5	Benzene, 1,1'-(1-buten-3-yne-1,4...	204	C16H12	013141-45-2	49





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Data File : BF111653.D
Acq On : 20 Dec 2018 21:55
Operator : JU/SJ
Sample : J6357-09
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-09B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121918.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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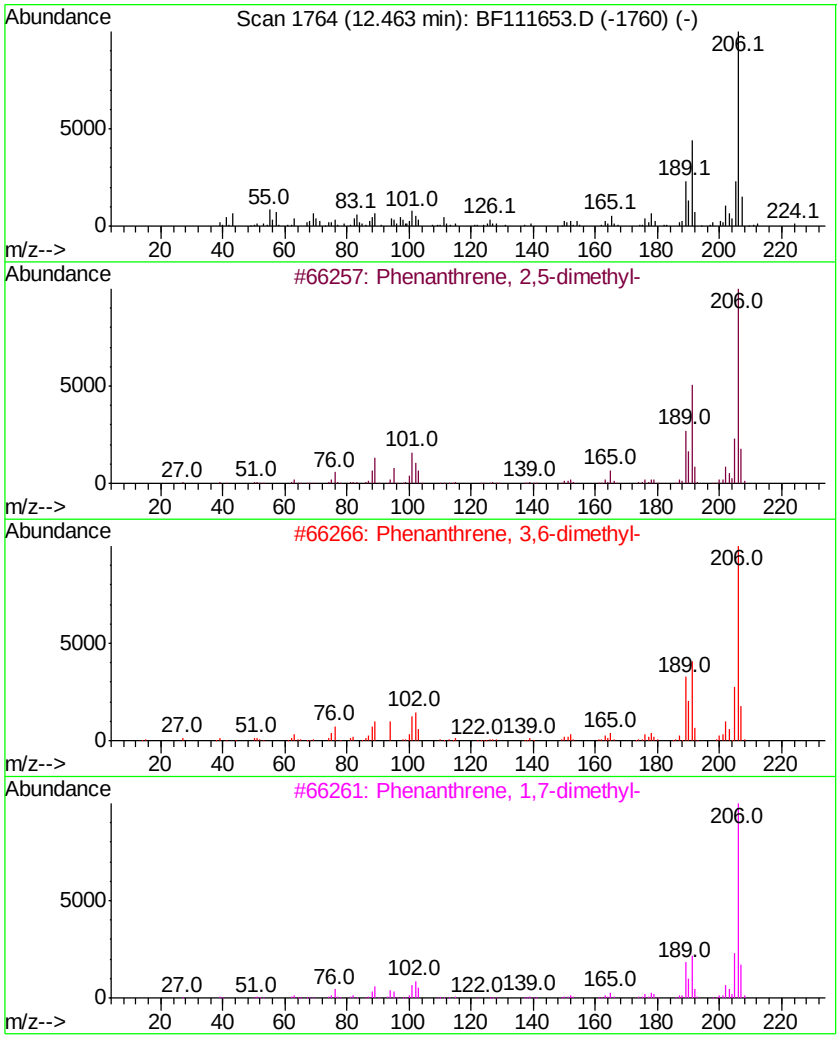
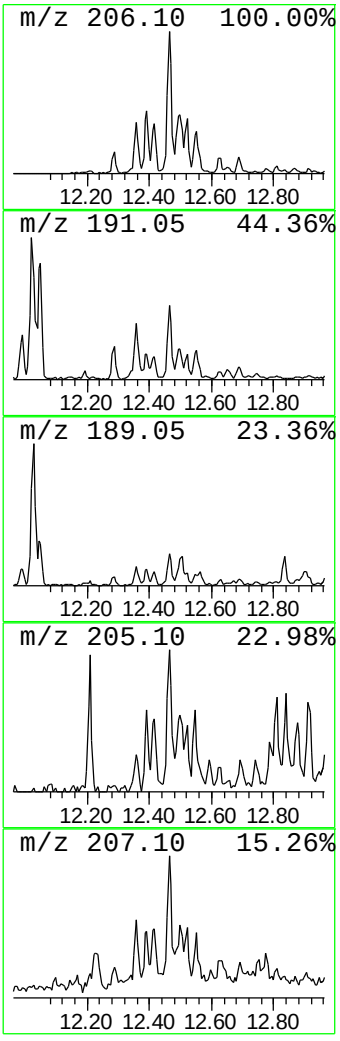
Peak Number 9 Phenanthrene, 2,5-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.46	3.32 ng	252907	Phenanthrene-d10	11.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	96
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	94
3	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	90
4	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	87
5	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	86





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122018\
Data File : BF111653.D
Acq On : 20 Dec 2018 21:55
Operator : JU/SJ
Sample : J6357-09
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-09B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121918.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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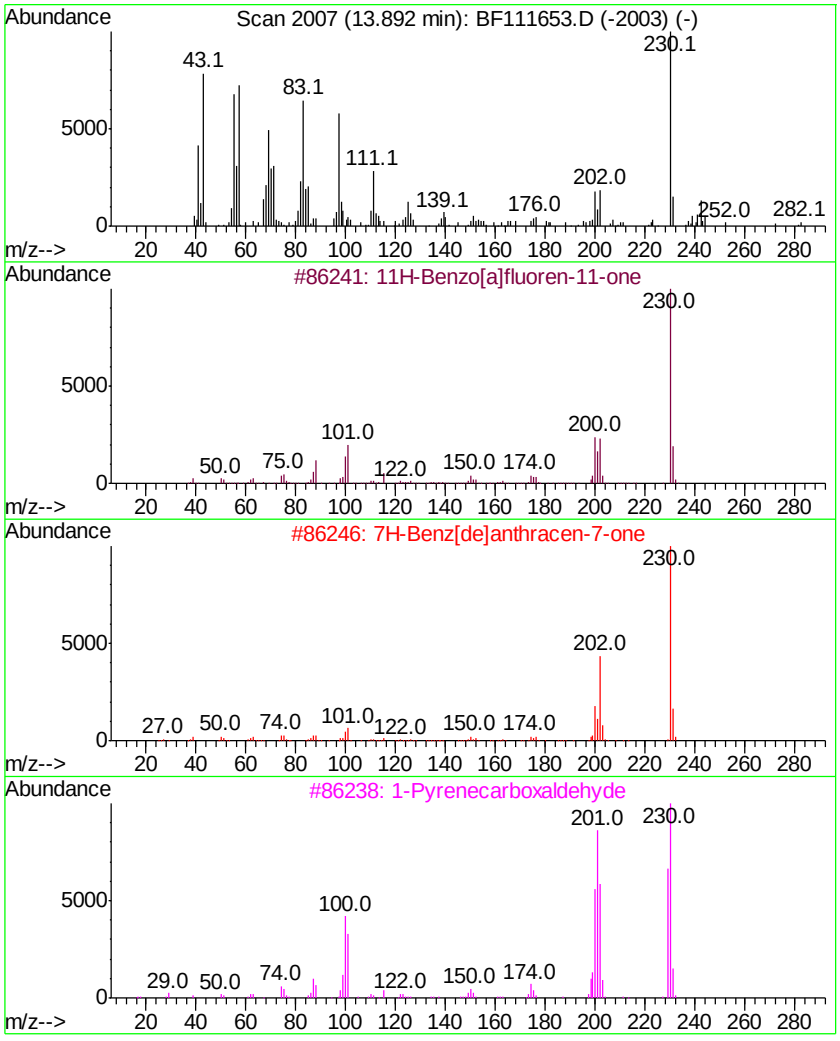
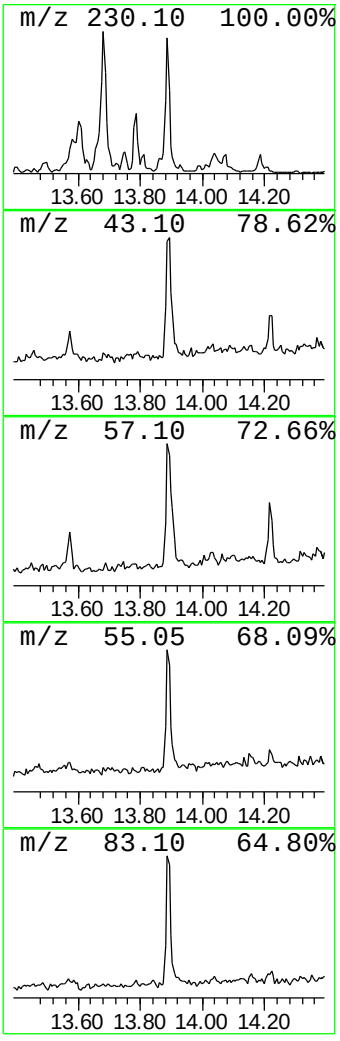
Peak Number 10 11H-Benzo[a]fluoren-11-one Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.89	2.82 ng	282887	Chrysene-d12	14.05

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	78
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	50
3	1-Pyrenecarboxaldehyde	230	C17H10O	003029-19-4	38
4	9-Chloro-1-phenazinol	230	C12H7ClN2O	091268-03-0	35
5	(E)-.alpha.,.alpha.'-Dicyanostil...	230	C16H10N2	002450-55-7	35





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122018\
Data File : BF111653.D
Acq On : 20 Dec 2018 21:55
Operator : JU/SJ
Sample : J6357-09
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-09B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121918.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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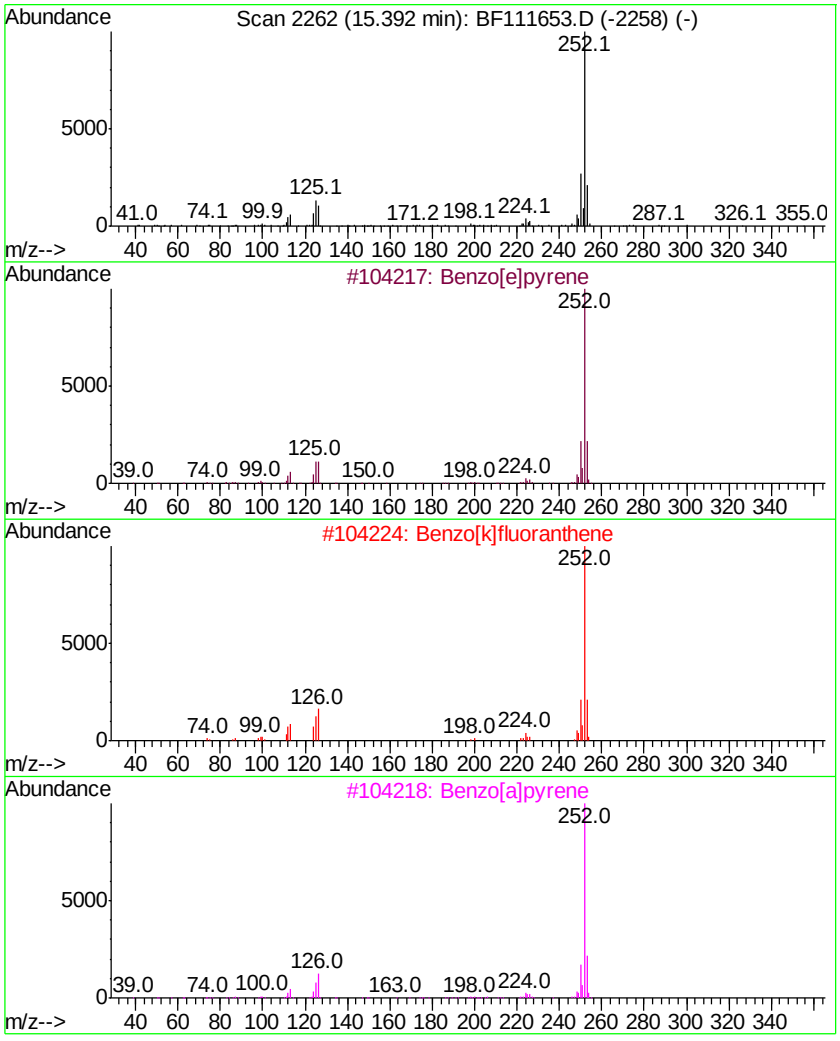
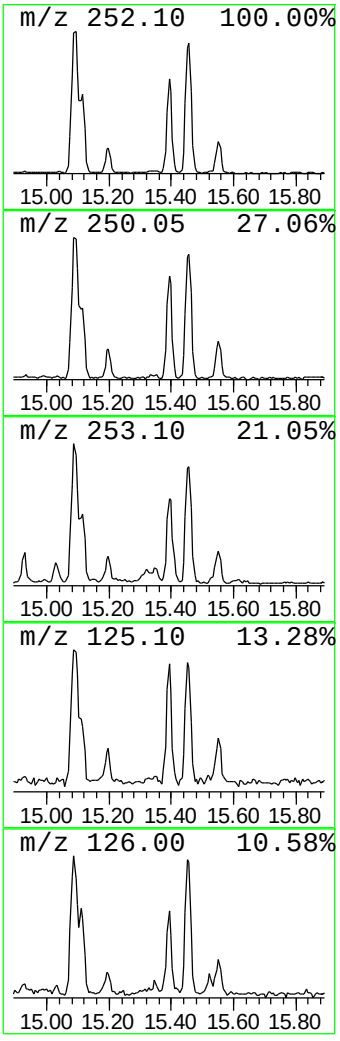
Peak Number 11 Benzo[e]pyrene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.39	3.91 ng	235711	Perylene-d12	15.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	97
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	90
3	Benzo[a]pyrene	252	C20H12	000050-32-8	90
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90
5	Perylene	252	C20H12	000198-55-0	81





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF122018\
Data File : BF111653.D
Acq On : 20 Dec 2018 21:55
Operator : JU/SJ
Sample : J6357-09
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-09B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121918.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...	2.26	15.8	ng	1045520	1	6.90	1326960	20.0
2-Pentanone, 4-hy...	5.14	5.1	ng	340577	1	6.90	1326960	20.0
unknown6.67	6.67	94.2	ng	6249610	1	6.90	1326960	20.0
Phenanthrene, 2-m...	11.92	3.5	ng	265981	4	11.42	1523630	20.0
Phenanthrene, 1-m...	11.94	7.0	ng	534658	4	11.42	1523630	20.0
Anthracene, 1-met...	12.02	4.7	ng	356609	4	11.42	1523630	20.0
5,16[1',2']:8,13[...	12.21	2.3	ng	178512	4	11.42	1523630	20.0
Phenanthrene, 2,5...	12.46	3.3	ng	252907	4	11.42	1523630	20.0
11H-Benzo[a]fluor...	13.89	2.8	ng	282887	5	14.05	2004200	20.0
Benzo[e]pyrene	15.39	3.9	ng	235711	6	15.52	1205270	20.0