LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG062119\
Data File : BG041388.D
Acq On : 21 Jun 2019 22:29
Operator : HP/JU
Sample : K3453-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : FRAC-TANK-MUD

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_G\METHODS\8270-BG061719.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.118	3	5	17	rVB	180596	209319	8.02%	0.750%
2	4.587	251	255	260	rVB	22697	28721	1.10%	0.103%
3	5.592	420	426	441	rBV	591418	971669	37.21%	3.482%
4	7.214	695	702	717	rBV	663058	1148990	44.01%	4.118%
5	7.584	758	765	783	rVB	622856	1089267	41.72%	3.904%
6	8.054	839	845	852	rBV	128428	213436	8.17%	0.765%
7	8.377	892	900	908	rBV	422225	728656	27.91%	2.611%
8	8.841	973	979	986	rBV3	14746	29543	1.13%	0.106%
9	9.235	1038	1046	1056	rBV	386348	702833	26.92%	2.519%
10	9.487	1084	1089	1095	rBV4	22129	38197	1.46%	0.137%
11	10.069	1178	1188	1199	rBV3	37301	90622	3.47%	0.325%
12	10.504	1256	1262	1271	rBV3	19112	40085	1.54%	0.144%
13	10.874	1317	1325	1335	rBV	166475	298085	11.42%	1.068%
14	13.312	1733	1740	1751	rBV	942225	1427712	54.68%	5.117%
15	14.141	1875	1881	1890	rVB	76022	114484	4.38%	0.410%
16	14.693	1968	1975	1983	rBV2	292361	463221	17.74%	1.660%
17	16.185	2222	2229	2238	rBV	1009299	1514496	58.00%	5.428%
18	16.920	2350	2354	2357	rBV3	22437	28084	1.08%	0.101%
19	17.302	2412	2419	2423	rBV	306271	423326	16.21%	1.517%
20	17.337	2423	2425	2431	rVB	77760	94897	3.63%	0.340%
21	17.443	2434	2443	2449	rBV	410624	653773	25.04%	2.343%
22	17.601	2464	2470	2476	rBV2	149692	230194	8.82%	0.825%
23	17.878	2510	2517	2526	rBV	37592	70082	2.68%	0.251%
24	18.019	2535	2541	2549	rBV	493895	1031091	39.49%	3.695%
25	18.154	2554	2564	2570	rBV3	188612	378414	14.49%	1.356%
26	18.218	2570	2575	2580	rBV2	33636	45558	1.74%	0.163%
27	18.289	2580	2587	2591	rBV2	170761	340206	13.03%	1.219%
28	18.330	2591	2594	2600	rVB2	108381	142631	5.46%	0.511%
29	18.442	2609	2613	2617	rVB	47721	60736	2.33%	0.218%
30	18.494	2617	2622	2627	rBV	621091	847367	32.45%	3.037%
31	18.553	2627	2632	2636	rVV	394912	549294	21.04%	1.969%
32	18.594	2636	2639	2644	rVB	301979	387734	14.85%	1.390%
33	18.777	2663	2670	2675	rBV	628258	878250	33.64%	3.148%
34	18.824	2675	2678	2683	rVV	208048	258530	9.90%	0.927%

LSC Area Percent Report

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Acq On : 21 Jun 2019 22:29
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Sample : K3453-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : FRAC-TANK-MUD

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_G\METHODS\8270-BG061719.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	18.912	2683	2693	2696	rVV3	204752	430394	16.48%	1.542%
36	18.953	2696	2700	2706	rVB2	418153	558849	21.40%	2.003%
37	19.053	2708	2717	2722	rVB4	132302	230111	8.81%	0.825%
38	19.129	2722	2730	2735	rBV3	25955	49480	1.90%	0.177%
39	19.194	2735	2741	2746	rBV2	120525	188492	7.22%	0.676%
40	19.258	2746	2752	2756	rBV	353045	471415	18.05%	1.689%
41	19.311	2756	2761	2764	rVV	748951	1106591	42.38%	3.966%
42	19.346	2764	2767	2775	rVV	705753	943916	36.15%	3.383%
43	19.411	2775	2778	2782	rVV2	95206	134253	5.14%	0.481%
44	19.458	2782	2786	2793	rVB2	65170	100332	3.84%	0.360%
45	19.523	2793	2797	2798	rBV2	29565	37948	1.45%	0.136%
46	19.558	2798	2803	2809	rVV2	457328	839363	32.15%	3.008%
47	19.611	2809	2812	2819	rVB	318879	404393	15.49%	1.449%
48	19.675	2819	2823	2828	rBV	146933	195794	7.50%	0.702%
49	19.734	2828	2833	2839	rVB4	62446	132140	5.06%	0.474%
50	19.793	2839	2843	2847	rBV3	49737	74212	2.84%	0.266%
51	19.869	2851	2856	2861	rBV3	102054	176269	6.75%	0.632%
52	19.952	2866	2870	2875	rVB3	129664	172194	6.59%	0.617%
53	19.999	2875	2878	2880	rBV2	85886	103029	3.95%	0.369%
54	20.040	2880	2885	2892	rVB	1848263	2611020	100.00%	9.357%
55	20.110	2892	2897	2900	rBV2	58560	95673	3.66%	0.343%
56	20.198	2908	2912	2916	rVB3	74352	100964	3.87%	0.362%
57	20.310	2926	2931	2935	rVB7	44158	68617	2.63%	0.246%
58	20.369	2936	2941	2945	rVV	187550	242260	9.28%	0.868%
59	20.492	2957	2962	2964	rBV7	29411	49214	1.88%	0.176%
60	20.586	2975	2978	2983	rBV6	28558	46279	1.77%	0.166%
61	20.674	2989	2993	3000	rVB	143845	193579	7.41%	0.694%
62	20.909	3031	3033	3040	rVB7	30044	40948	1.57%	0.147%
63	21.303	3098	3100	3109	rVB7	28112	51616	1.98%	0.185%
64	21.714	3163	3170	3181	rBV	423022	733820	28.10%	2.630%
65	21.849	3190	3193	3197	rVB	37775	44060	1.69%	0.158%
66	22.437	3285	3293	3294	rBV3	232043	528951	20.26%	1.896%
67	22.854	3360	3364	3375	rVB8	55316	122840	4.70%	0.440%
68	23.160	3412	3416	3424	rVB	80063	142325	5.45%	0.510%
69	23.970	3549	3554	3560	rVB2	73757	151241	5.79%	0.542%
70	24.928	3712	3717	3722	rBV2	49799	117930	4.52%	0.423%
71	25.005	3723	3730	3743	rVB	235980	682981	26.16%	2.448%

LSC Area Percent Report

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Data File : BG041388.D
Acq On : 21 Jun 2019 22:29
Operator : HP/JU
Sample : K3453-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : FRAC-TANK-MUD

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_G\METHODS\8270-BG061719.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

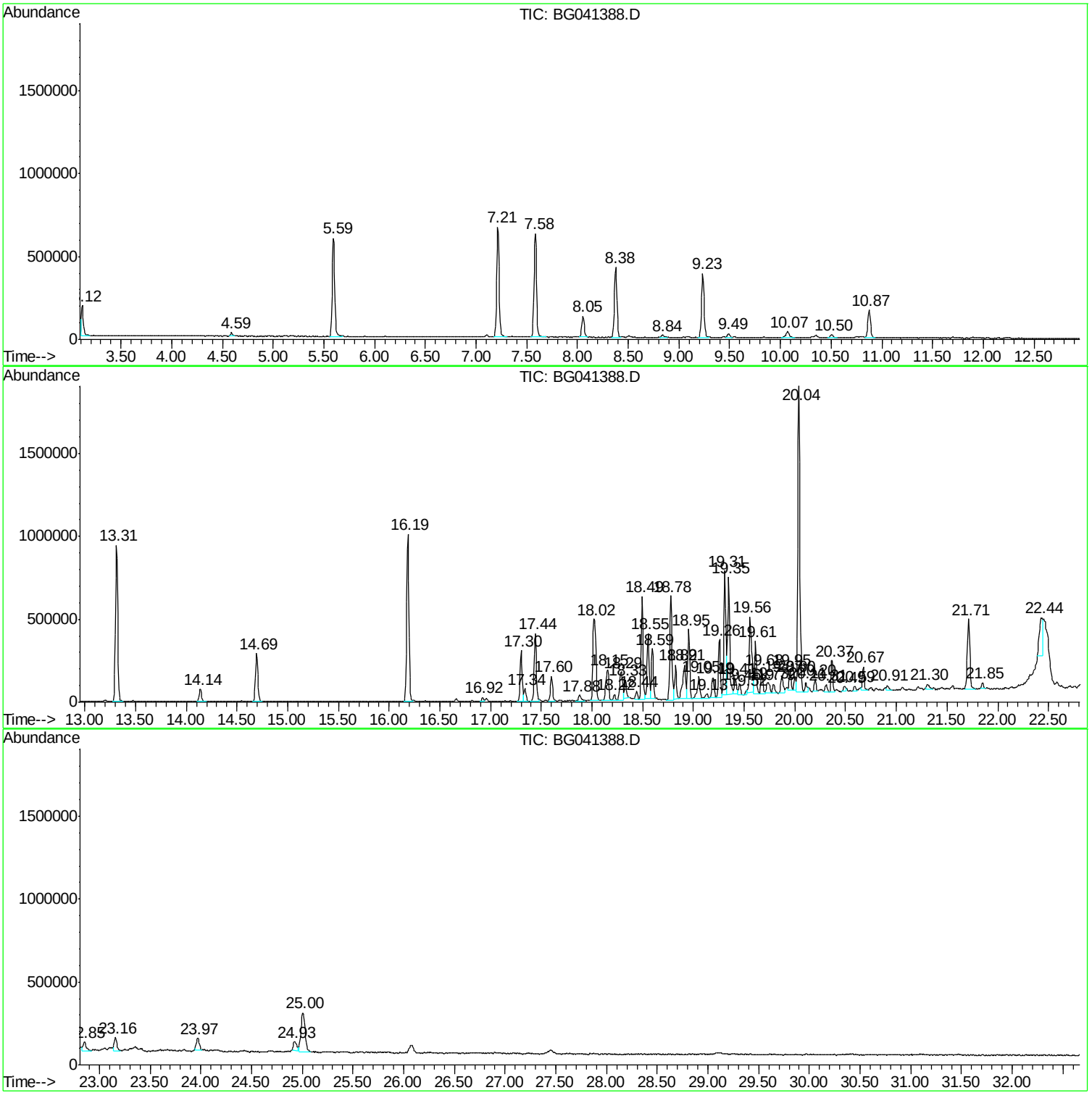
Sum of corrected areas: 27902996

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG062119\
Data File : BG041388.D
Acq On : 21 Jun 2019 22:29
Operator : HP/JU
Sample : K3453-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
FRAC-TANK-MUD

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG061719.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 G\DATA\BG062119\
Data File : BG041388.D
Acq On : 21 Jun 2019 22:29
Operator : HP/JU
Sample : K3453-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : FRAC-TANK-MUD

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG061719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

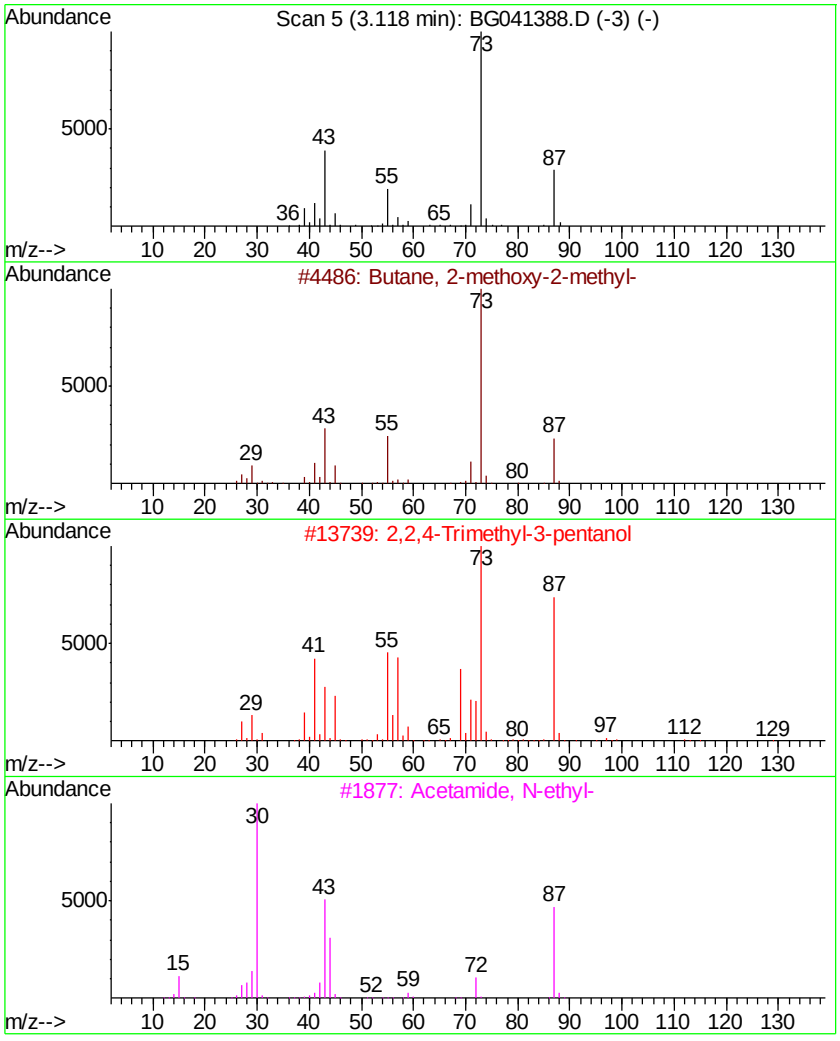
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

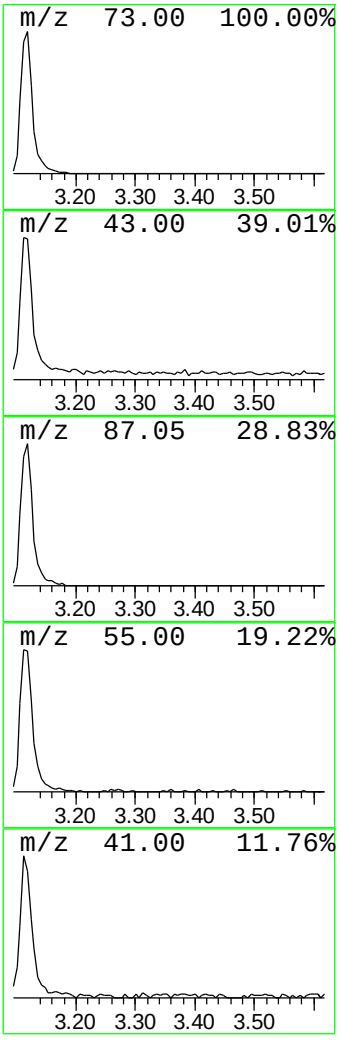
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.12	19.61 ng	209319	1,4-Dichlorobenzene-d4	8.05

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	59
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	39
3	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	10
4	N-Ethylformamide	73	C3H7NO	000627-45-2	9
5	1,3-Dioxolane, 2-(1-bromoethyl)-	180	C5H9BrO2	005267-73-2	9





Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG062119\
Data File : BG041388.D
Acq On : 21 Jun 2019 22:29
Operator : HP/JU
Sample : K3453-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : FRAC-TANK-MUD

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG061719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

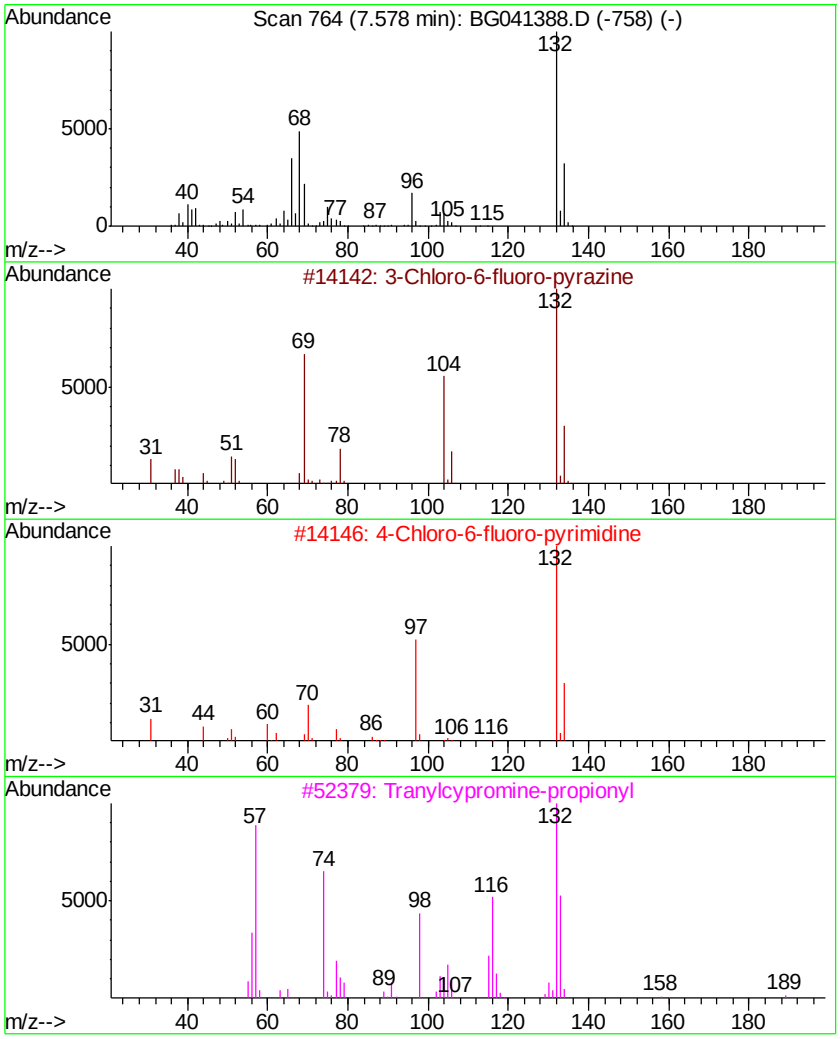
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

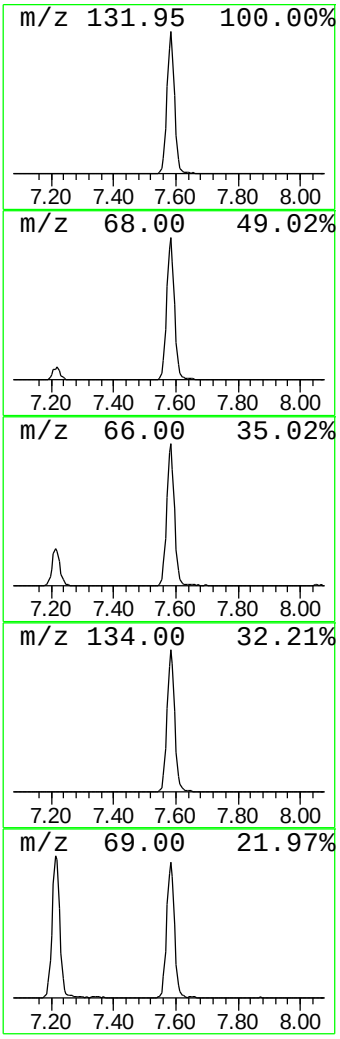
****

Peak Number 2 unknown7.58 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.58	102.07 ng	1089270	1,4-Dichlorobenzene-d4	8.05

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2	4-Chloro-6-fluoro-pyrimidine	132	C4H2ClFN2	051422-01-6	27
3	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	22
4	Pyrazolo(2,3-a)pyridine, 7-methyl-	132	C8H8N2	034760-58-2	22
5	5-Aminoindole	132	C8H8N2	005192-03-0	22





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG062119\
Data File : BG041388.D
Acq On : 21 Jun 2019 22:29
Operator : HP/JU
Sample : K3453-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : FRAC-TANK-MUD

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG061719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

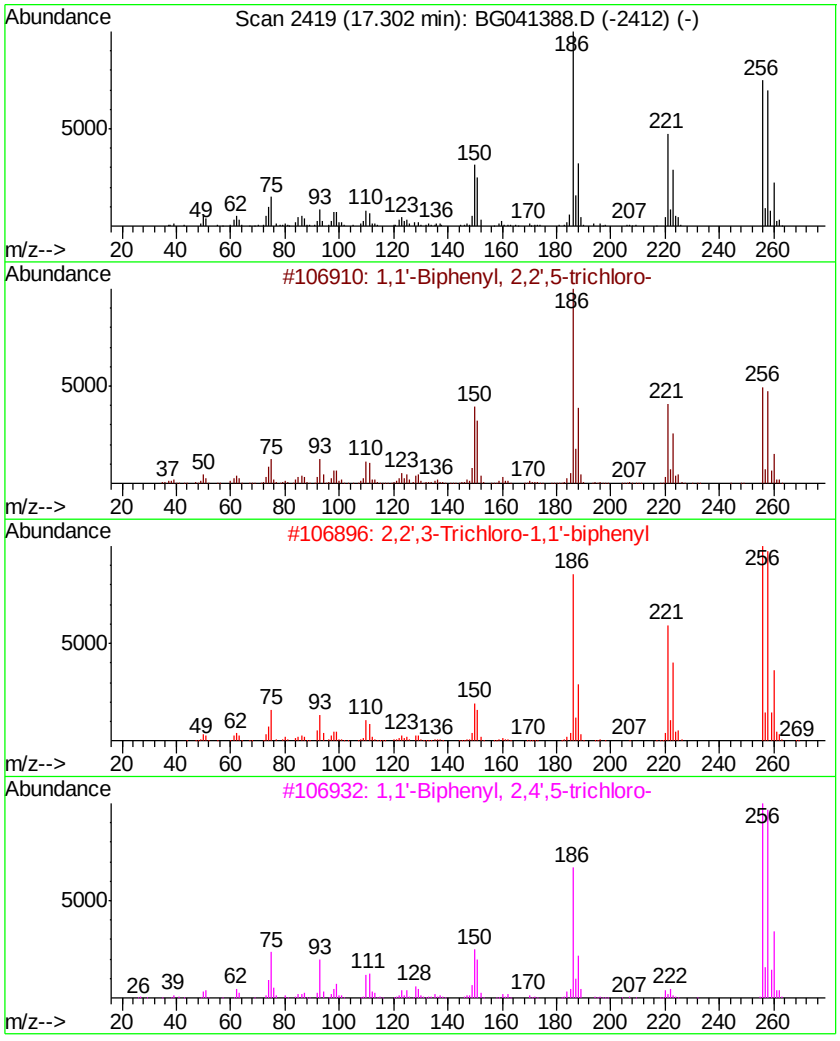
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

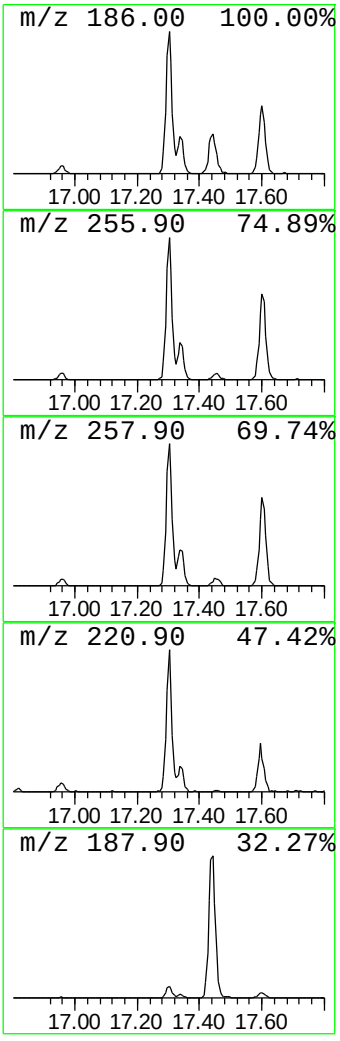
****

Peak Number 4 1,1'-Biphenyl, 2,2',5-trich... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.30	12.95 ng	423326	Phenanthrene-d10	17.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl, 2,2',5-trichloro-	256	C12H7Cl3	037680-65-2	99
2	2,2',3-Trichloro-1,1'-biphenyl	256	C12H7Cl3	038444-78-9	98
3	1,1'-Biphenyl, 2,4',5-trichloro-	256	C12H7Cl3	016606-02-3	95
4	1,1'-Biphenyl, 2',3,5-trichloro-	256	C12H7Cl3	037680-68-5	95
5	1,1'-Biphenyl, 2,3',5-trichloro-	256	C12H7Cl3	038444-81-4	95





Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG062119\
Data File : BG041388.D
Acq On : 21 Jun 2019 22:29
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Sample : K3453-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : FRAC-TANK-MUD

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG061719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

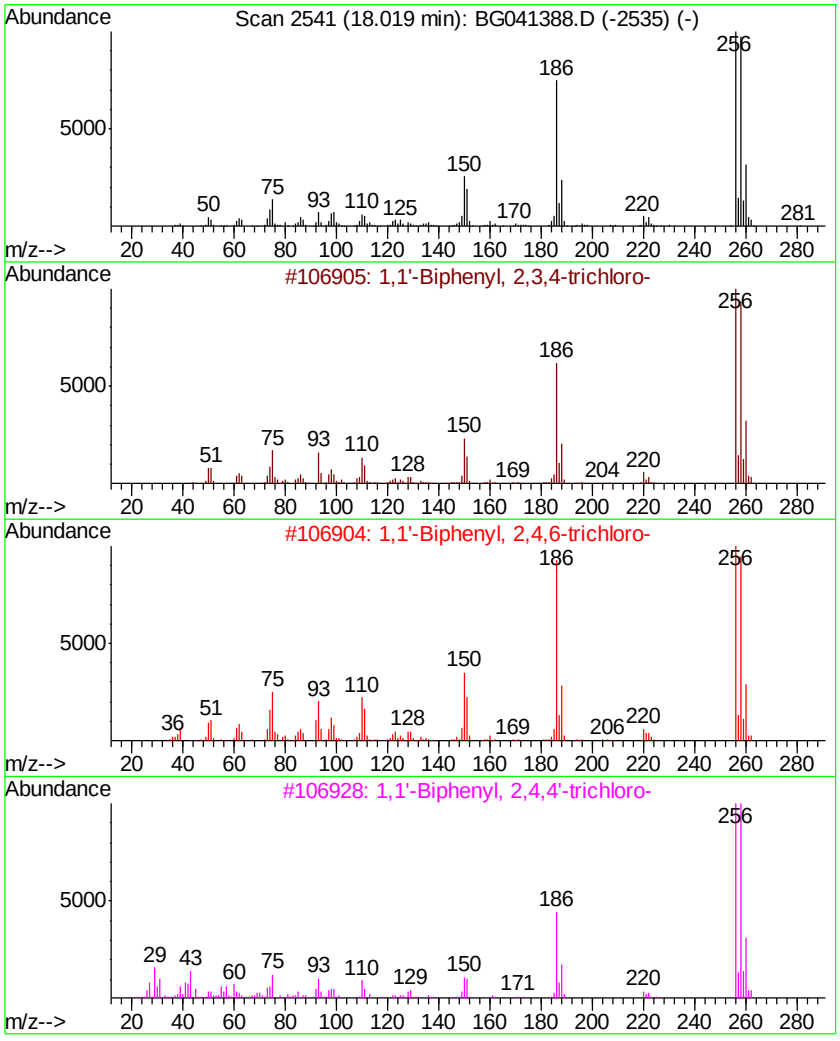
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

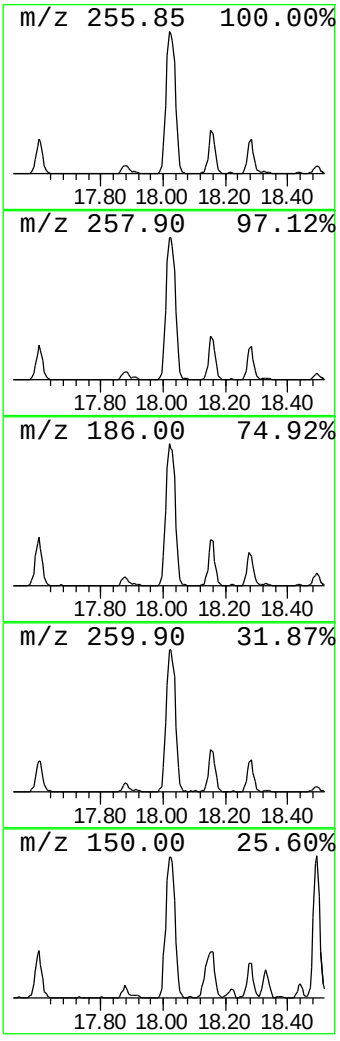
****

Peak Number 5 1,1'-Biphenyl, 2,3,4-trichl... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.02	31.54 ng	1031090	Phenanthrene-d10	17.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl, 2,3,4-trichloro-	256	C12H7Cl3	055702-46-0	98
2	1,1'-Biphenyl, 2,4,6-trichloro-	256	C12H7Cl3	035693-92-6	97
3	1,1'-Biphenyl, 2,4,4'-trichloro-	256	C12H7Cl3	007012-37-5	97
4	1,1'-Biphenyl, 2',3,4-trichloro-	256	C12H7Cl3	038444-86-9	96
5	1,1'-Biphenyl, 2,3,4'-Trichloro-	256	C12H7Cl3	038444-85-8	96





Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG062119\
Data File : BG041388.D
Acq On : 21 Jun 2019 22:29
Operator : HP/JU
Sample : K3453-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : FRAC-TANK-MUD

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG061719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

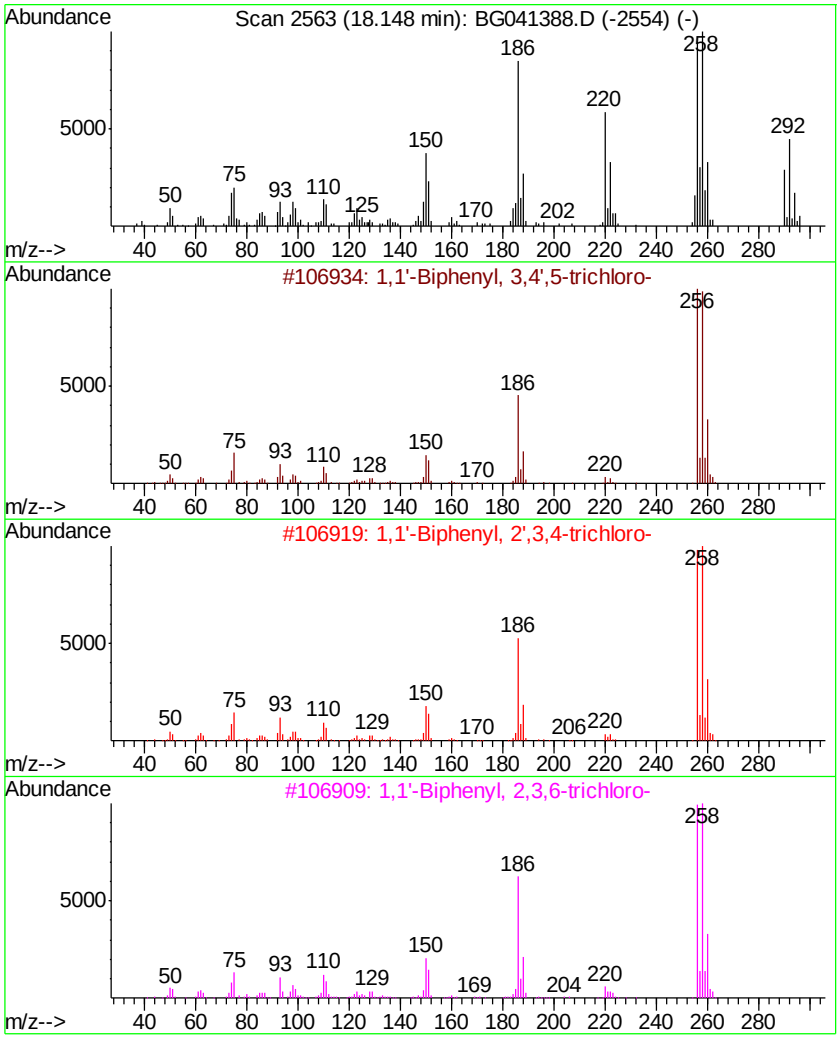
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

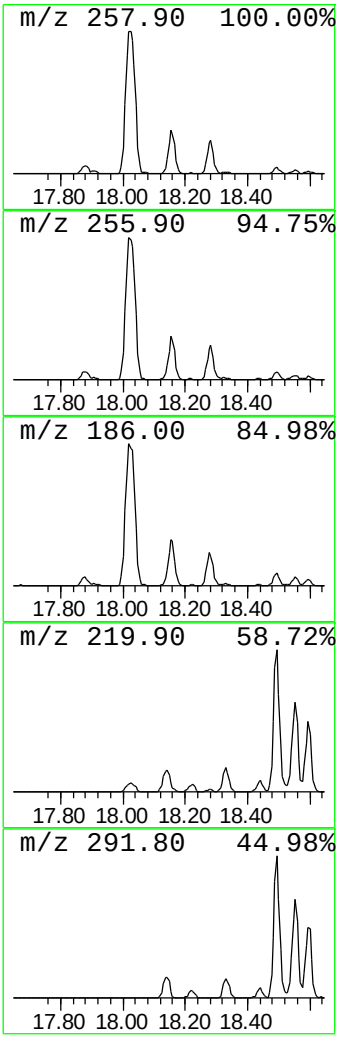
****

Peak Number 6 1,1'-Biphenyl, 3,4',5-trich... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.15	11.58 ng	378414	Phenanthrene-d10	17.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl, 3,4',5-trichloro-	256	C12H7Cl3	038444-88-1	98
2	1,1'-Biphenyl, 2',3,4-trichloro-	256	C12H7Cl3	038444-86-9	98
3	1,1'-Biphenyl, 2,3,6-trichloro-	256	C12H7Cl3	055702-45-9	98
4	1,1'-Biphenyl, 3,3',5-trichloro-	256	C12H7Cl3	038444-87-0	97
5	1,1'-Biphenyl, 2,3',5-trichloro-	256	C12H7Cl3	038444-81-4	97





Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG062119\
Data File : BG041388.D
Acq On : 21 Jun 2019 22:29
Operator : HP/JU
Sample : K3453-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : FRAC-TANK-MUD

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG061719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

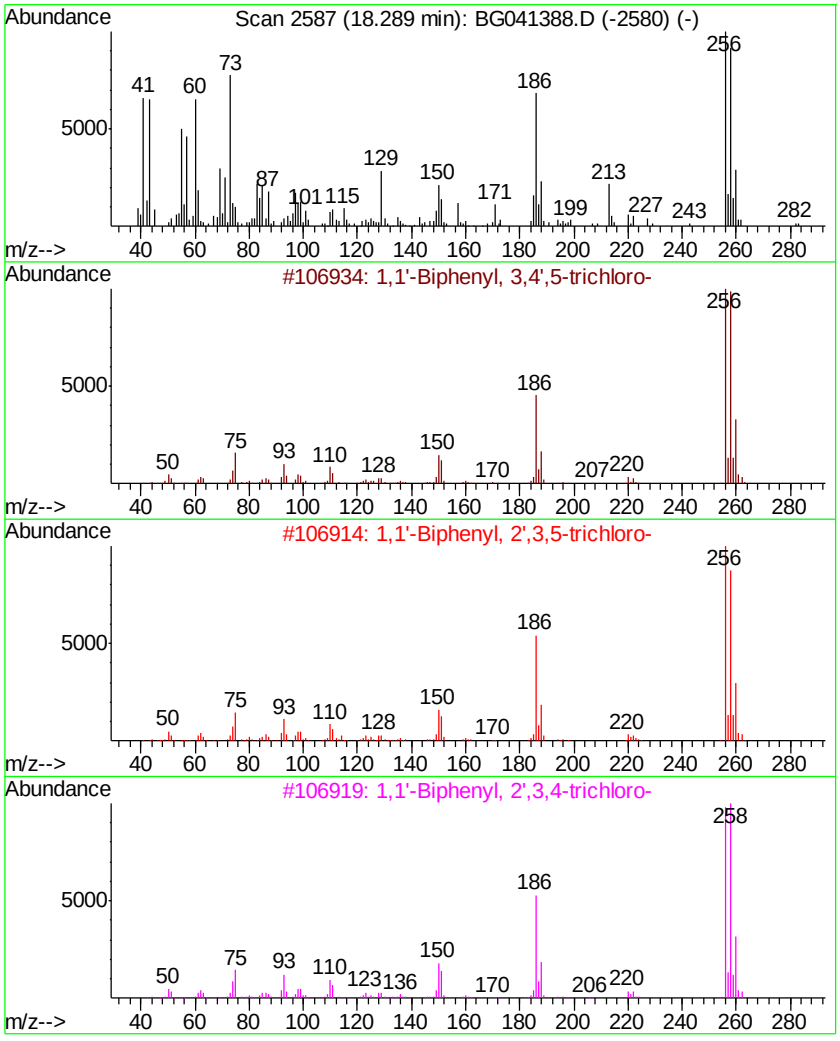
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

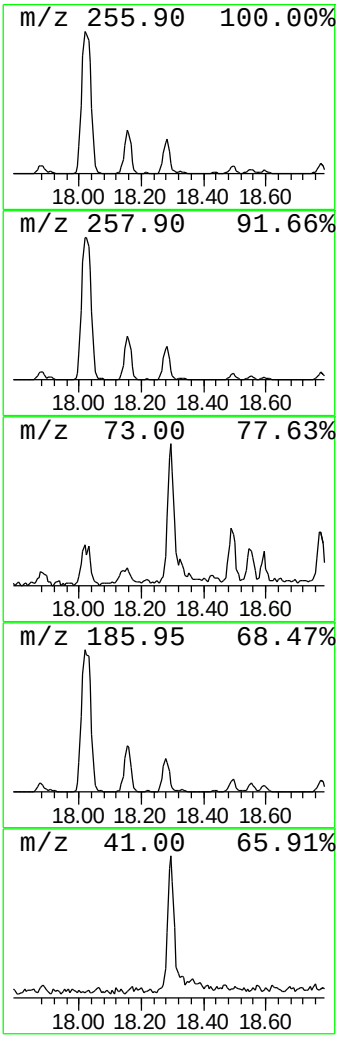
****

Peak Number 7 1,1'-Biphenyl, 2',3,5-trich... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.29	10.41 ng	340206	Phenanthrene-d10	17.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl, 3,4',5-trichloro-	256	C12H7Cl3	038444-88-1	99
2	1,1'-Biphenyl, 2',3,5-trichloro-	256	C12H7Cl3	037680-68-5	98
3	1,1'-Biphenyl, 2',3,4-trichloro-	256	C12H7Cl3	038444-86-9	98
4	1,1'-Biphenyl, 2,3,4-trichloro-	256	C12H7Cl3	055702-46-0	98
5	1,1'-Biphenyl, 3,4,4'-Trichloro-	256	C12H7Cl3	038444-90-5	97





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Acq On : 21 Jun 2019 22:29
Operator : HP/JU
Sample : K3453-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : FRAC-TANK-MUD

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

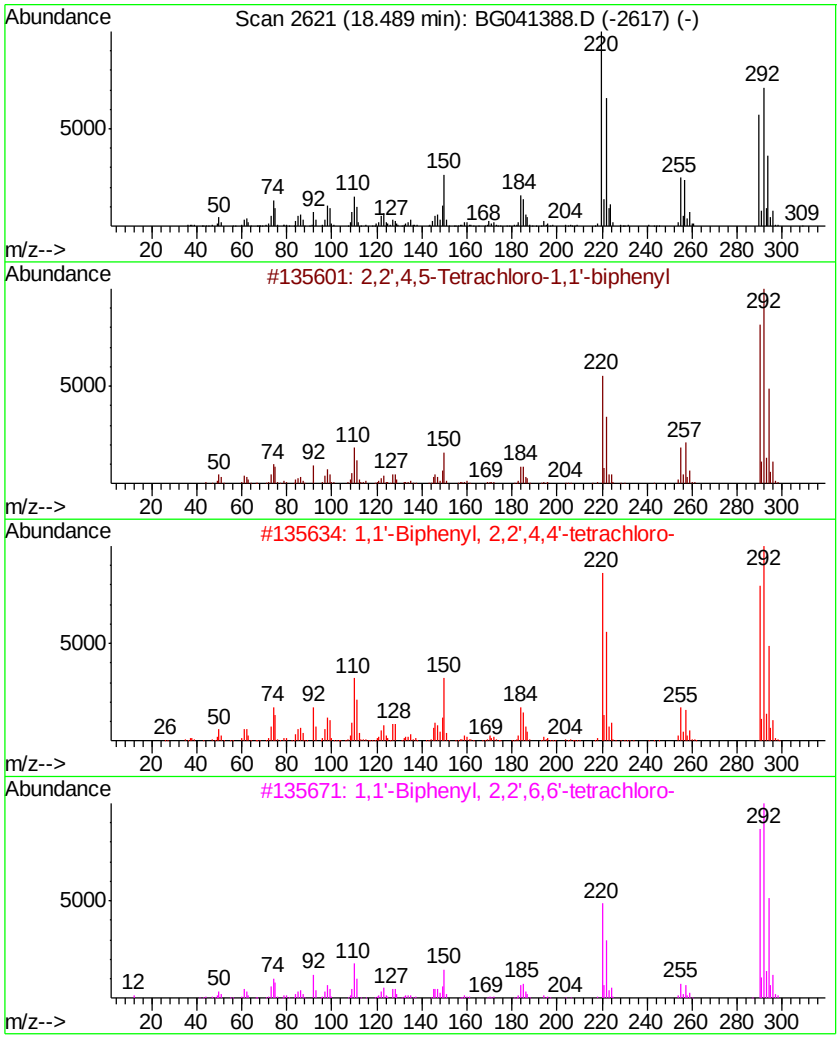
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

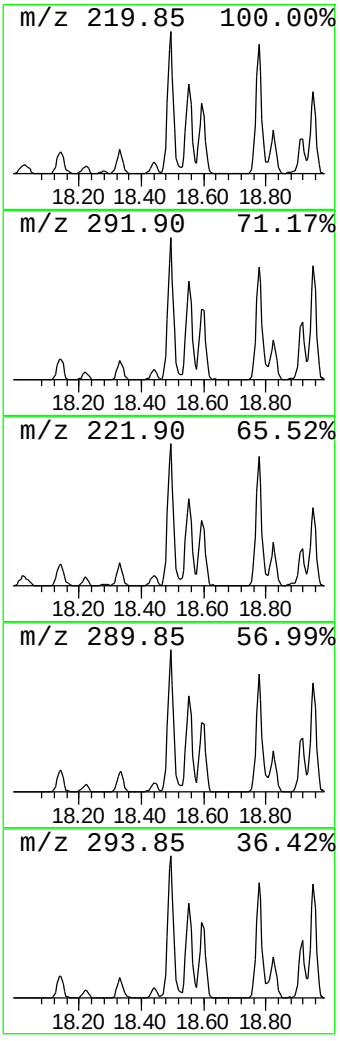
****

Peak Number 8 2,2',4,5-Tetrachloro-1,1'-b... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.49	25.92 ng	847367	Phenanthrene-d10	17.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,2',4,5-Tetrachloro-1,1'-biphenyl	290	C12H6Cl4	070362-47-9	99
2	1,1'-Biphenyl, 2,2',4,4'-tetrach...	290	C12H6Cl4	002437-79-8	99
3	1,1'-Biphenyl, 2,2',6,6'-tetrach...	290	C12H6Cl4	015968-05-5	99
4	1,1'-Biphenyl, 2,2',3,5'-tetrach...	290	C12H6Cl4	041464-39-5	99
5	1,1'-Biphenyl, 2,2',5,6'-Tetrach...	290	C12H6Cl4	041464-41-9	99





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Operator : HP/JU
Sample : K3453-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : FRAC-TANK-MUD

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

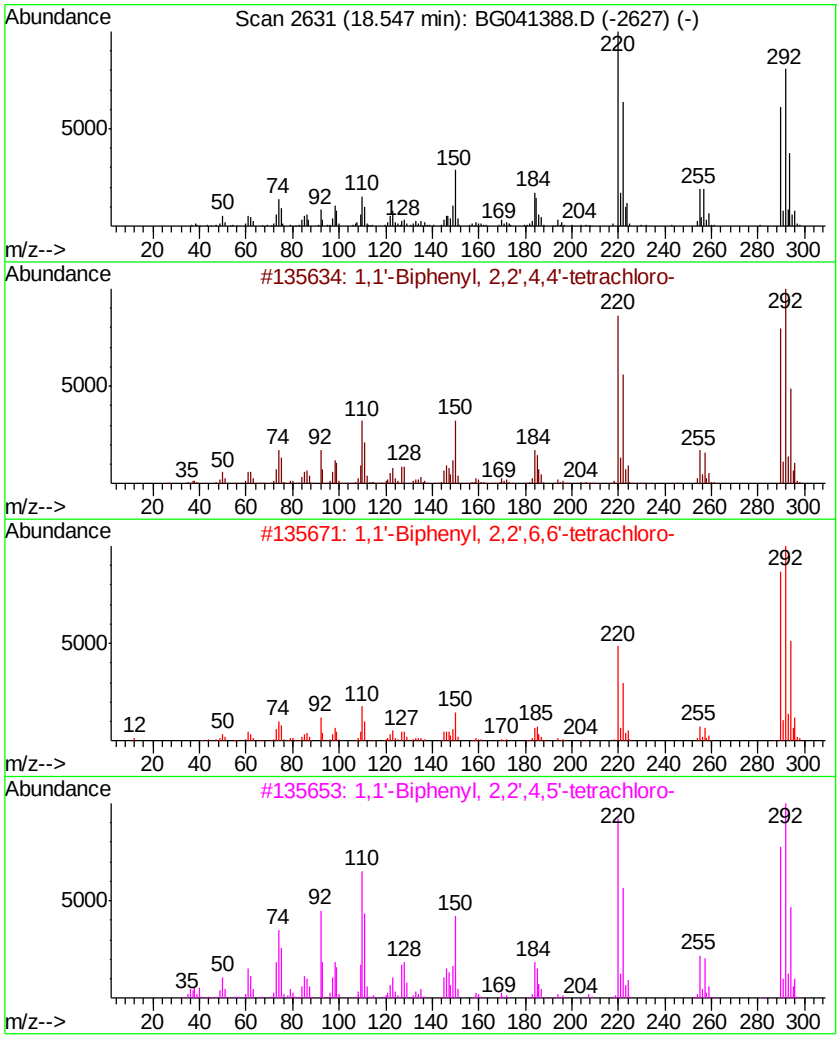
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

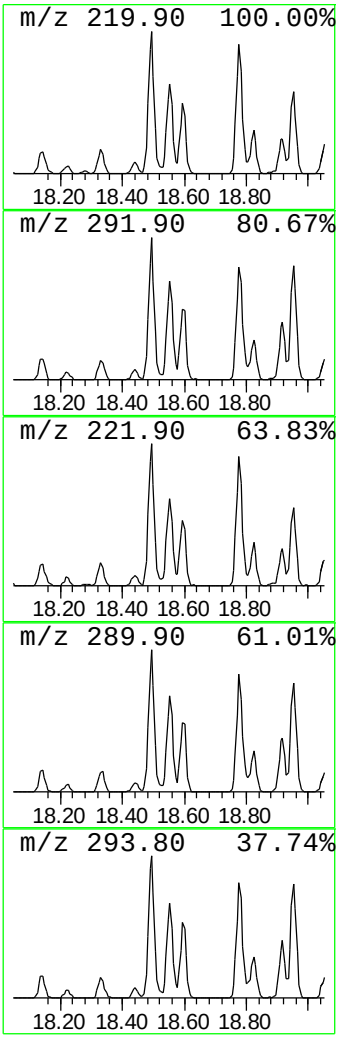
****

Peak Number 9 1,1'-Biphenyl, 2,2',4,4'-te... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.55	16.80 ng	549294	Phenanthrene-d10	17.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl, 2,2',4,4'-tetrach...	290	C12H6Cl4	002437-79-8	99
2	1,1'-Biphenyl, 2,2',6,6'-tetrach...	290	C12H6Cl4	015968-05-5	99
3	1,1'-Biphenyl, 2,2',4,5'-tetrach...	290	C12H6Cl4	041464-40-8	99
4	1,1'-Biphenyl, 2,2',5,5'-tetrach...	290	C12H6Cl4	035693-99-3	98
5	1,1'-Biphenyl, 2,2',3,4'-tetrach...	290	C12H6Cl4	036559-22-5	98





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Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : FRAC-TANK-MUD

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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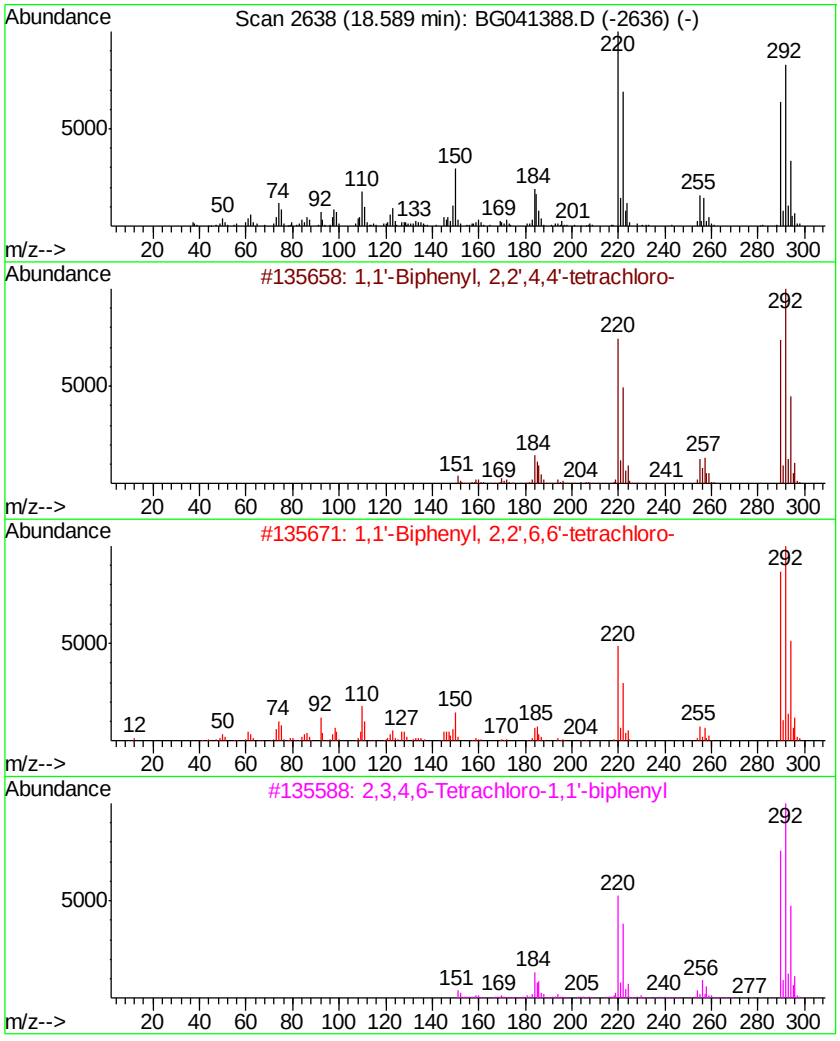
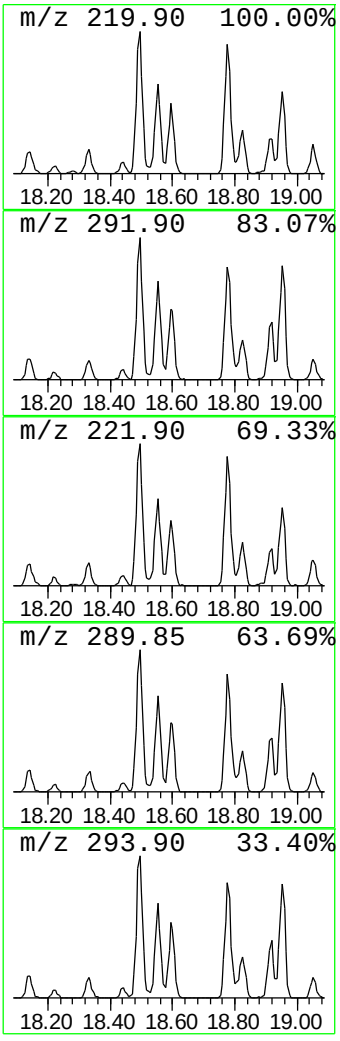
Peak Number 10 1,1'-Biphenyl, 2,2',6,6'-te... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.59	11.86 ng	387734	Phenanthrene-d10	17.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl, 2,2',4,4'-tetrach...	290	C12H6Cl4	002437-79-8	99
2	1,1'-Biphenyl, 2,2',6,6'-tetrach...	290	C12H6Cl4	015968-05-5	99
3	2,3,4,6-Tetrachloro-1,1'-biphenyl	290	C12H6Cl4	054230-22-7	99
4	2,2',4,5-Tetrachloro-1,1'-biphenyl	290	C12H6Cl4	070362-47-9	98
5	2,3,4',5-Tetrachloro-1,1'-biphenyl	290	C12H6Cl4	074472-34-7	96





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Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : FRAC-TANK-MUD

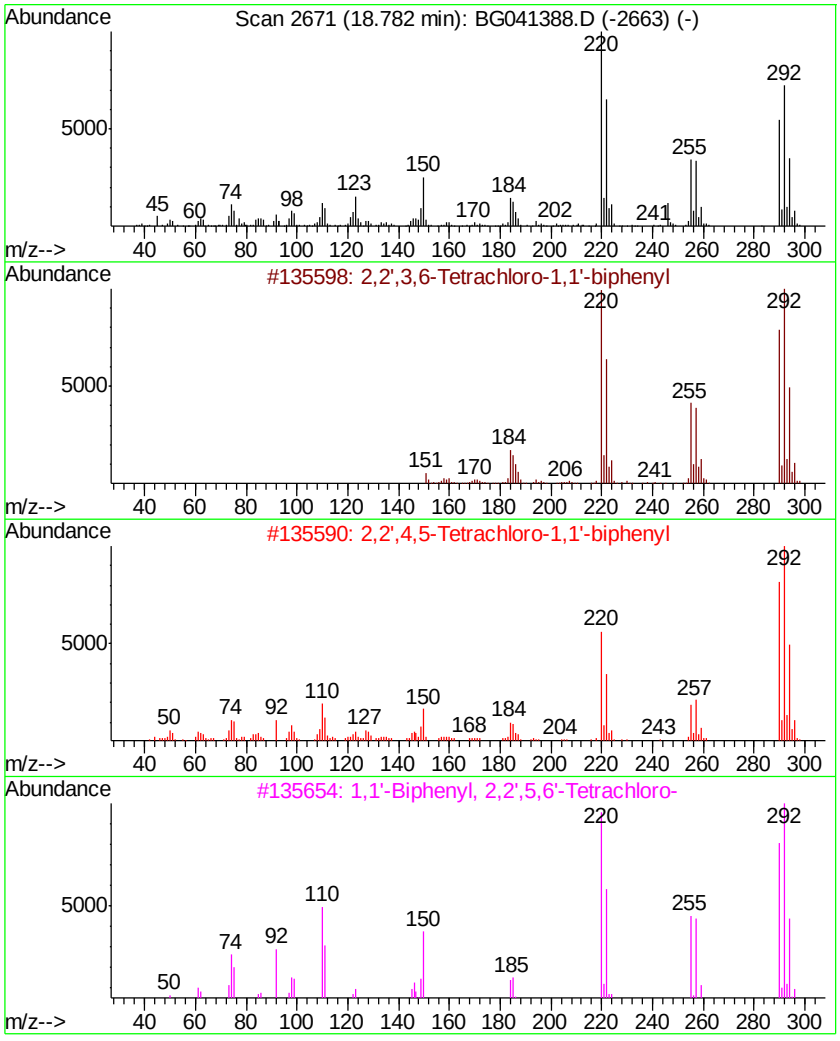
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG061719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

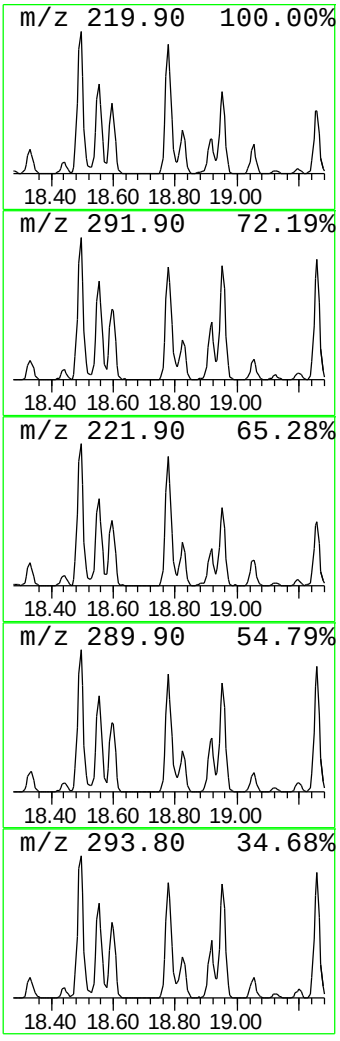
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 11 2,2',3,6-Tetrachloro-1,1'-b... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.78	26.87 ng	878250	Phenanthrene-d10	17.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,2',3,6-Tetrachloro-1,1'-biphenyl	290	C12H6Cl4	070362-45-7	99
2	2,2',4,5-Tetrachloro-1,1'-biphenyl	290	C12H6Cl4	070362-47-9	99
3	1,1'-Biphenyl, 2,2',5,6'-Tetrach...	290	C12H6Cl4	041464-41-9	99
4	1,1'-Biphenyl, 2,2',3,5'-tetrach...	290	C12H6Cl4	041464-39-5	99
5	1,1'-Biphenyl, 2,2',5,5'-tetrach...	290	C12H6Cl4	035693-99-3	99





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Misc :
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Instrument : BNA_G
ClientSampleId : FRAC-TANK-MUD

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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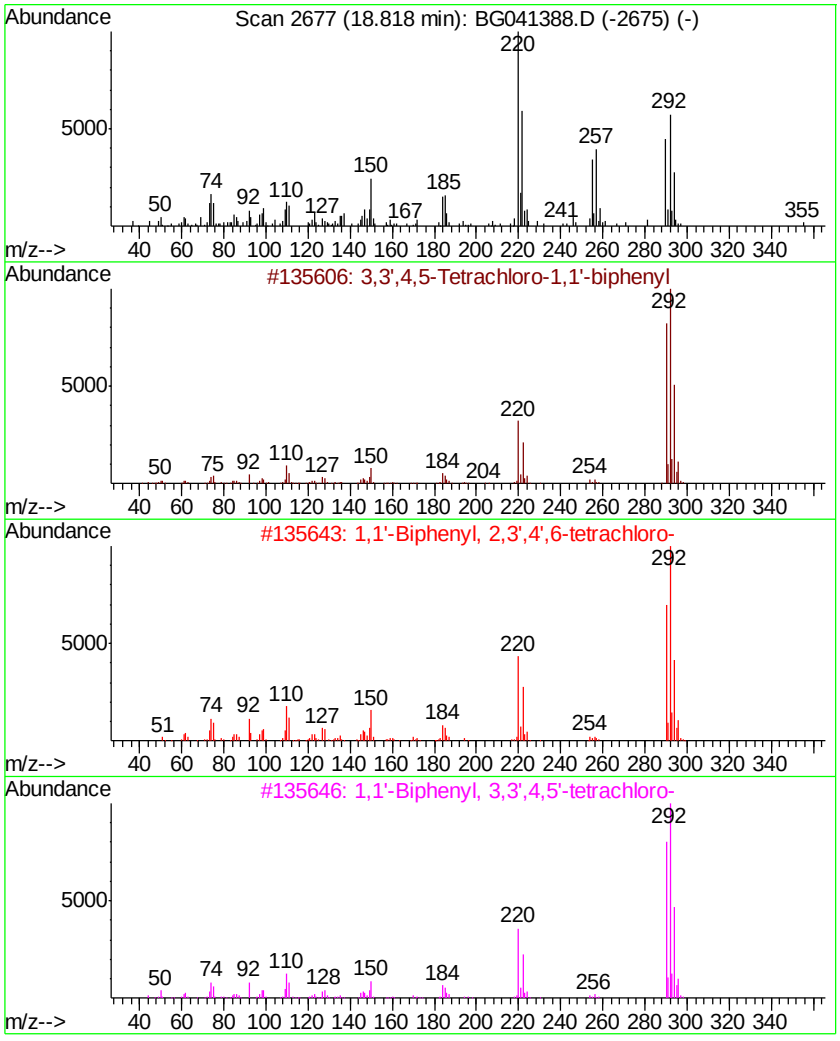
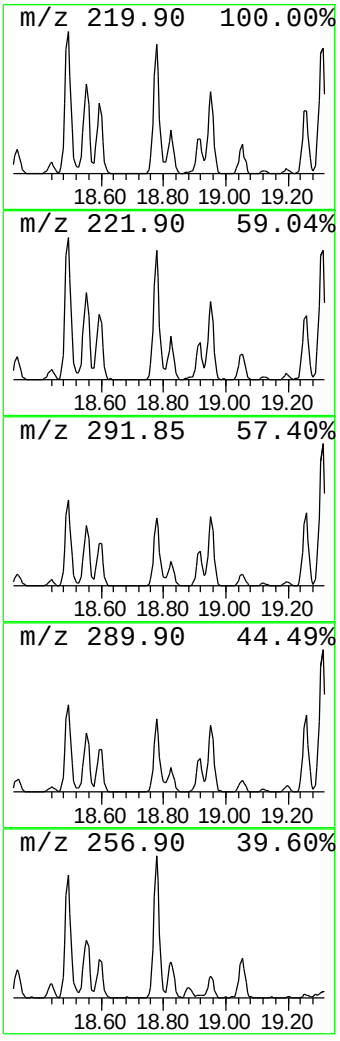
Peak Number 12 3,3',4,5-Tetrachloro-1,1'-b... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.82	7.91 ng	258530	Phenanthrene-d10	17.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,3',4,5-Tetrachloro-1,1'-biphenyl	290	C12H6Cl4	070362-49-1	99
2	1,1'-Biphenyl, 2,3',4',6-tetrach...	290	C12H6Cl4	041464-46-4	99
3	1,1'-Biphenyl, 3,3',4,5'-tetrach...	290	C12H6Cl4	041464-48-6	99
4	1,1'-Biphenyl, 2,2',4,6-Tetrachl...	290	C12H6Cl4	062796-65-0	99
5	1,1'-Biphenyl, 2,3,3',5'-tetrach...	290	C12H6Cl4	041464-49-7	99





Library Search Compound Report

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Instrument : BNA_G
ClientSampleId : FRAC-TANK-MUD

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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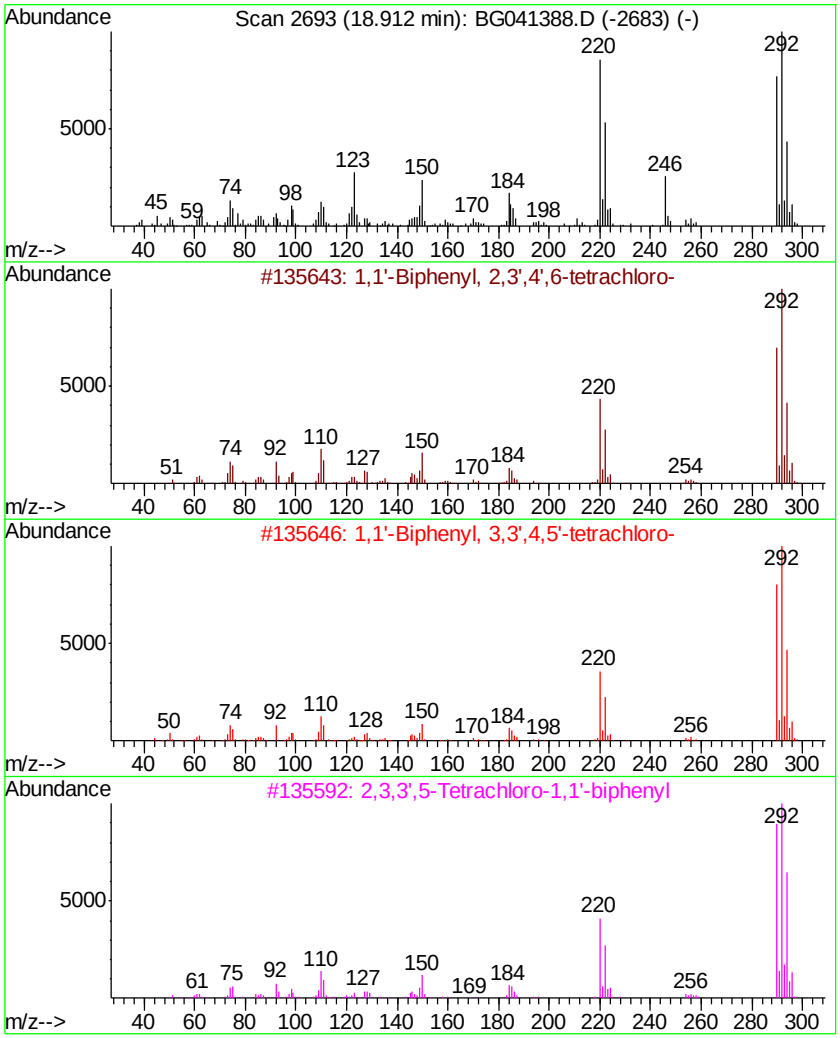
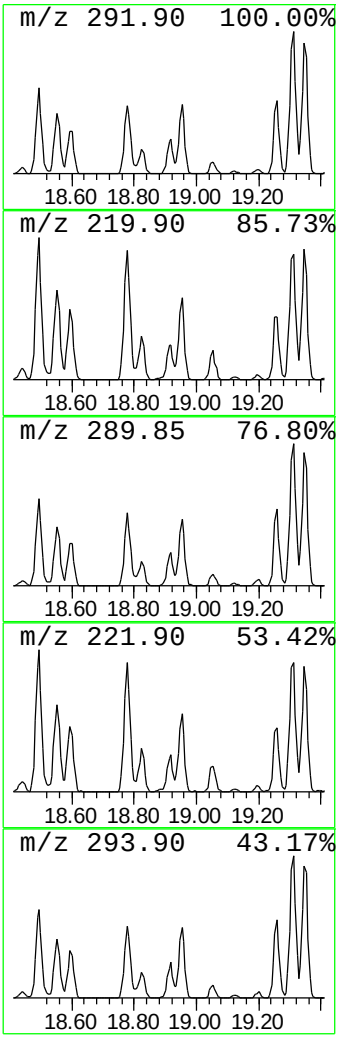
Peak Number 13 1,1'-Biphenyl, 2,3',4',6-te... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.91	13.17 ng	430394	Phenanthrene-d10	17.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl, 2,3',4',6-tetrach...	290	C12H6Cl4	041464-46-4	99
2	1,1'-Biphenyl, 3,3',4,5'-tetrach...	290	C12H6Cl4	041464-48-6	99
3	2,3,3',5-Tetrachloro-1,1'-biphenyl	290	C12H6Cl4	070424-67-8	99
4	3,3',4,5-Tetrachloro-1,1'-biphenyl	290	C12H6Cl4	070362-49-1	99
5	Biphenyl, 2,4,4',5-tetrachloro-	290	C12H6Cl4	032690-93-0	99





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Sample : K3453-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : FRAC-TANK-MUD

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG061719.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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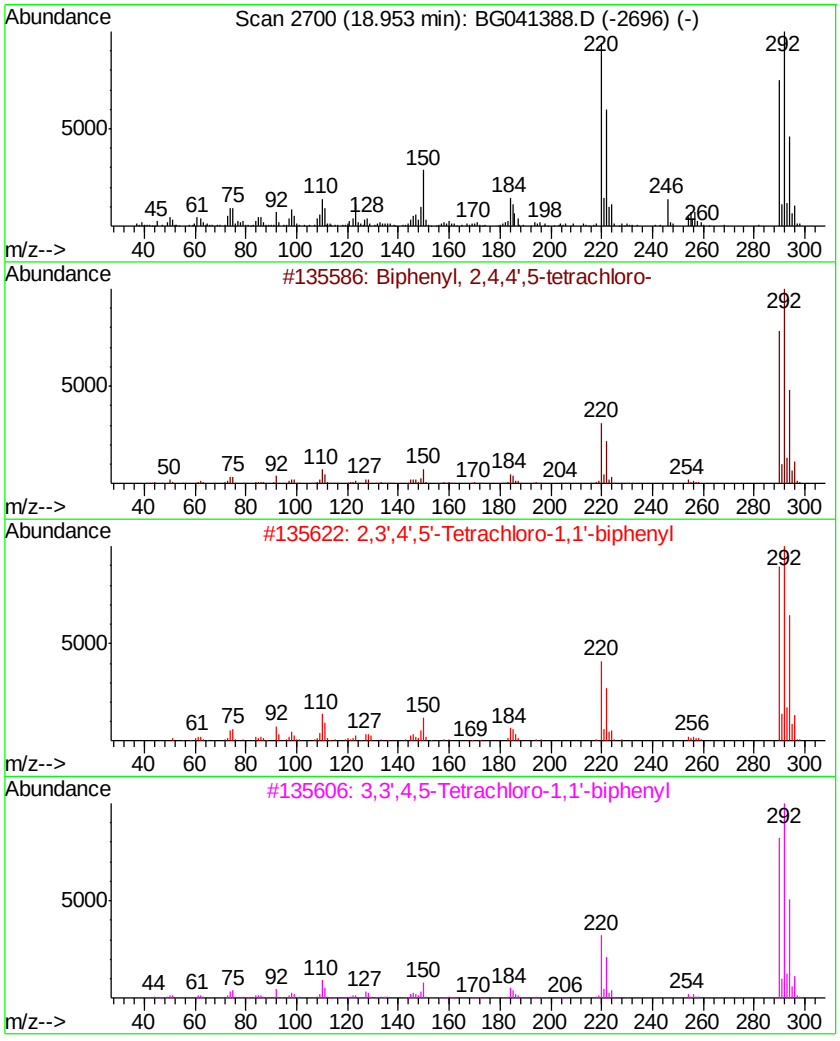
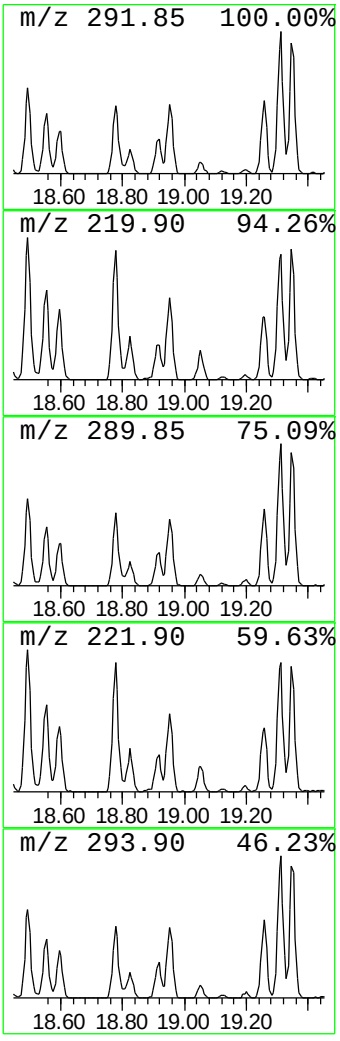
Peak Number 14 Biphenyl, 2,4,4',5-tetrachl... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.95	17.10 ng	558849	Phenanthrene-d10	17.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Biphenyl, 2,4,4',5-tetrachloro-	290	C12H6Cl4	032690-93-0	99
2	2,3',4',5'-Tetrachloro-1,1'-biph...	290	C12H6Cl4	070362-48-0	99
3	3,3',4,5-Tetrachloro-1,1'-biphenyl	290	C12H6Cl4	070362-49-1	99
4	2,3,3',6-Tetrachloro-1,1'-biphenyl	290	C12H6Cl4	074472-33-6	99
5	2,3',4,5-Tetrachloro-1,1'-biphenyl	290	C12H6Cl4	073575-53-8	99





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Sample : K3453-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : FRAC-TANK-MUD

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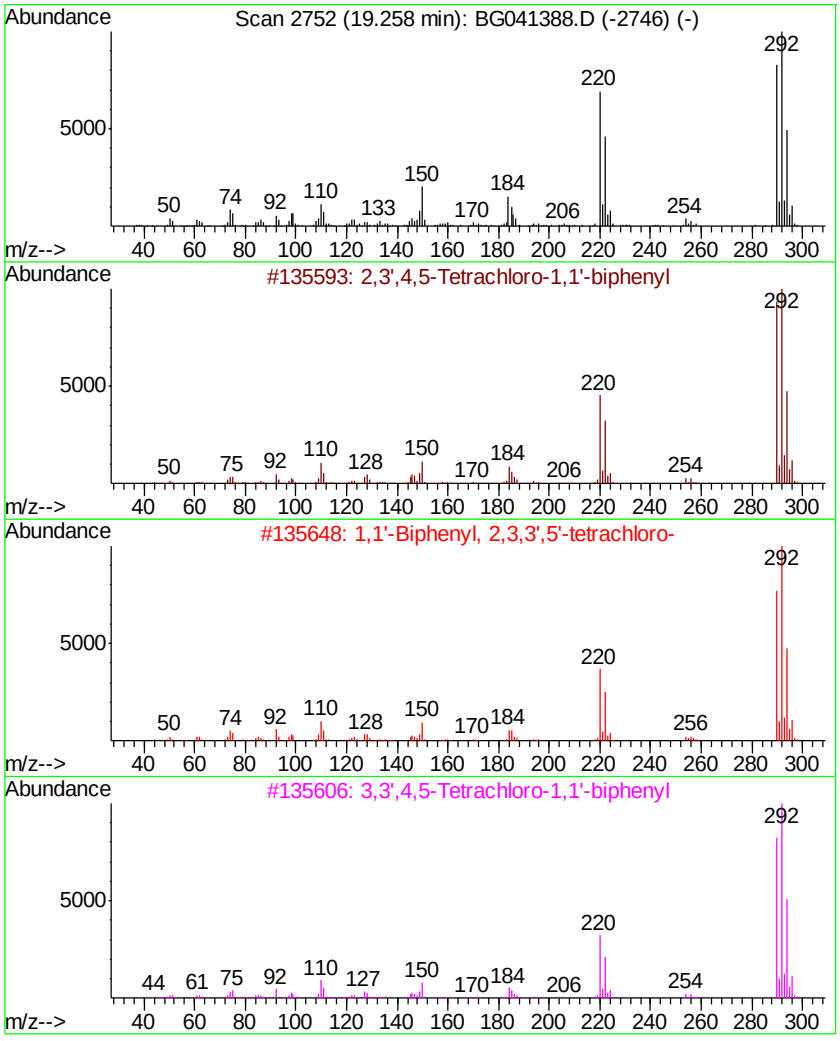
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

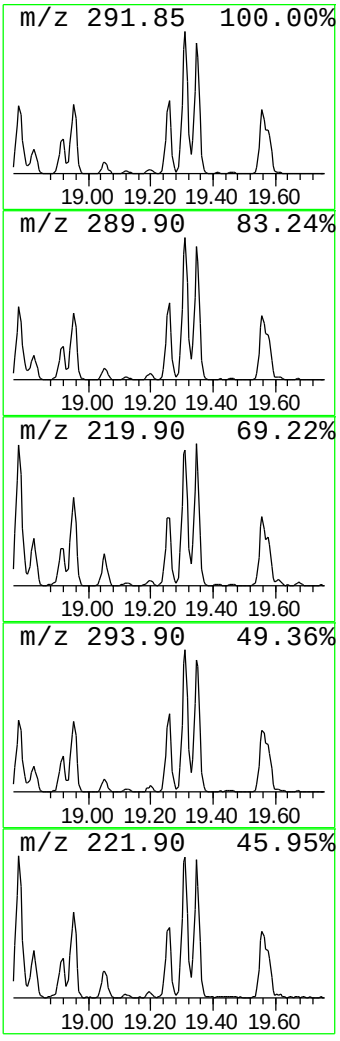
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 15 2,3',4,5-Tetrachloro-1,1'-b... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.26	14.42 ng	471415	Phenanthrene-d10	17.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,3',4,5-Tetrachloro-1,1'-biphenyl	290	C12H6Cl4	073575-53-8	99
2	1,1'-Biphenyl, 2,3,3',5'-tetrach...	290	C12H6Cl4	041464-49-7	99
3	3,3',4,5-Tetrachloro-1,1'-biphenyl	290	C12H6Cl4	070362-49-1	99
4	Biphenyl, 2,4,4',5-tetrachloro-	290	C12H6Cl4	032690-93-0	99
5	1,1'-Biphenyl, 2,3',4,6-Tetrachl...	290	C12H6Cl4	060233-24-1	99





Library Search Compound Report

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ClientSampleId : FRAC-TANK-MUD

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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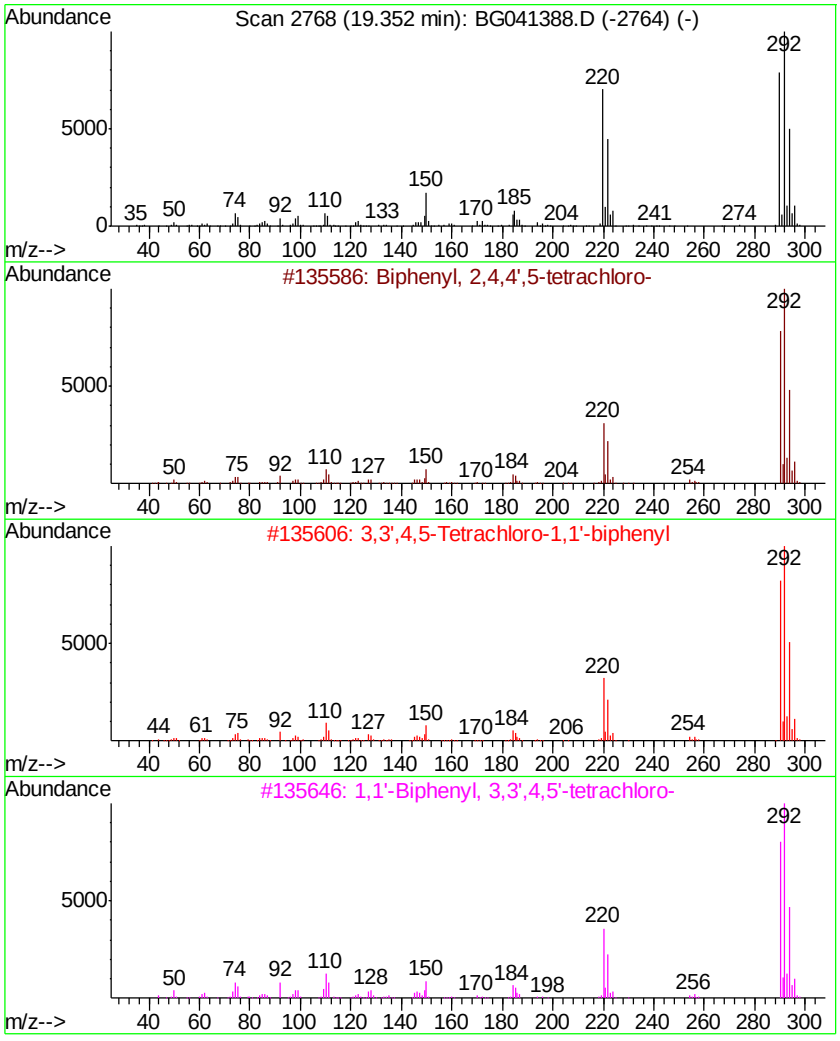
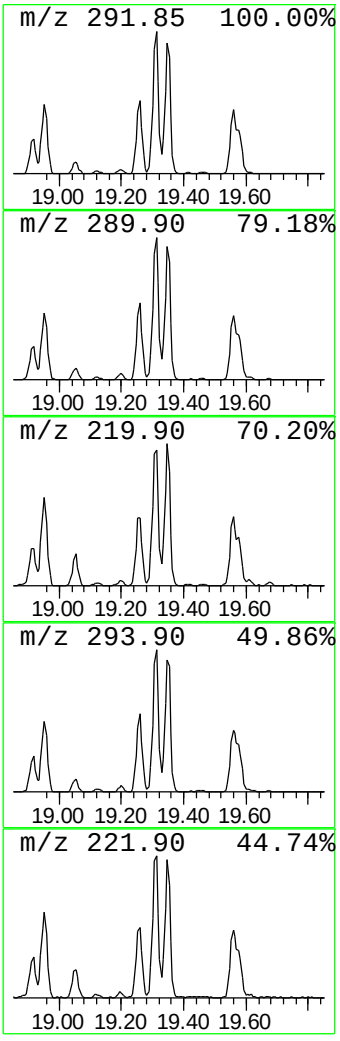
Peak Number 17 1,1'-Biphenyl, 3,3',4,5'-te... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.35	28.88 ng	943916	Phenanthrene-d10	17.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Biphenyl, 2,4,4',5-tetrachloro-	290	C12H6Cl4	032690-93-0	99
2	3,3',4,5-Tetrachloro-1,1'-biphenyl	290	C12H6Cl4	070362-49-1	99
3	1,1'-Biphenyl, 3,3',4,5'-tetrach...	290	C12H6Cl4	041464-48-6	99
4	2,3,3',6-Tetrachloro-1,1'-biphenyl	290	C12H6Cl4	074472-33-6	99
5	1,1'-Biphenyl, 2,3',4',6-tetrach...	290	C12H6Cl4	041464-46-4	99





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ALS Vial : 8 Sample Multiplier: 1

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ClientSampleId : FRAC-TANK-MUD

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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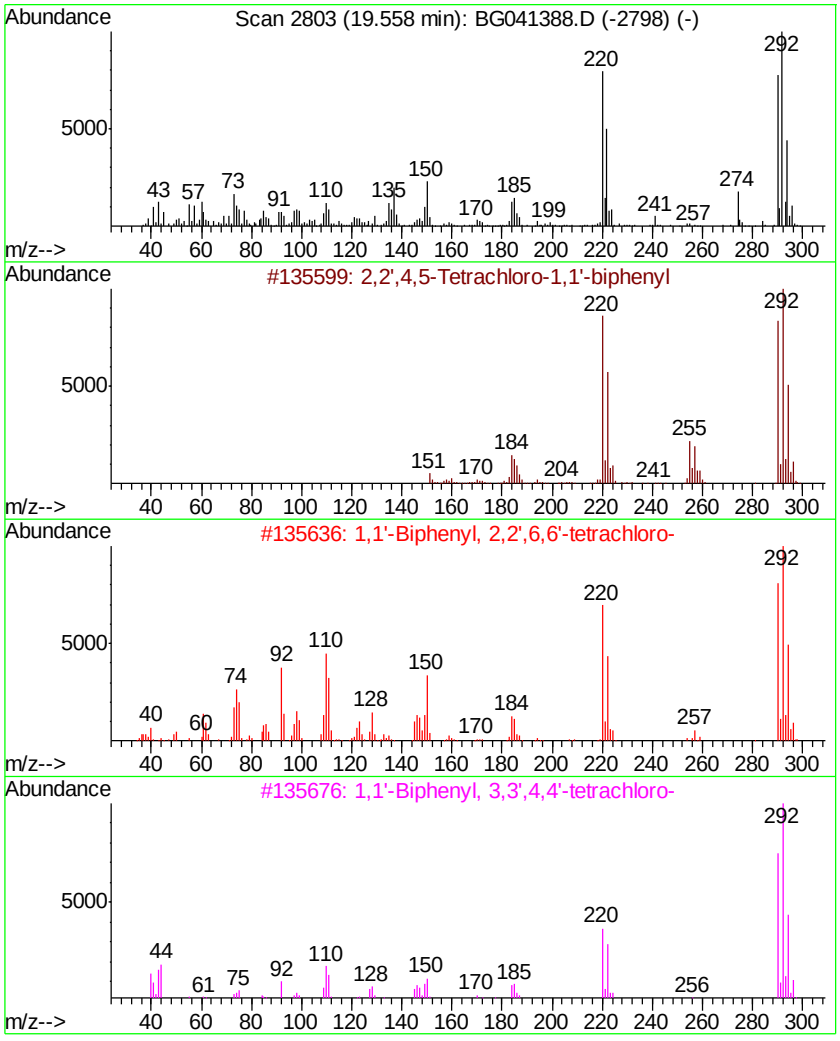
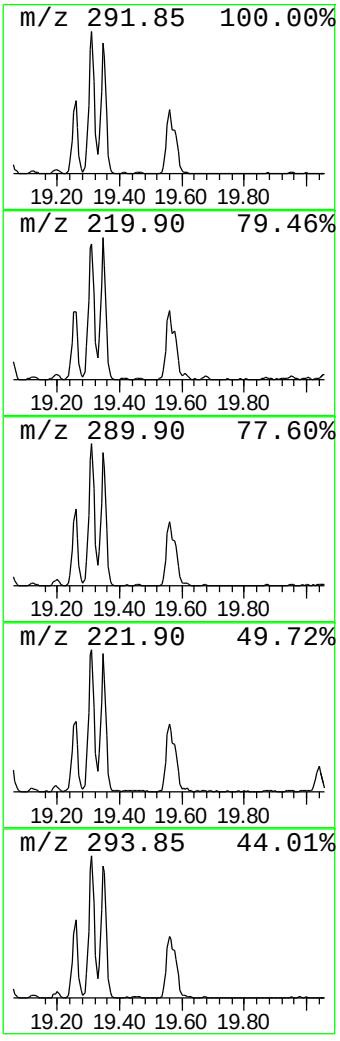
Peak Number 18 1,1'-Biphenyl, 3,3',4,4'-te... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.56	25.68 ng	839363	Phenanthrene-d10	17.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,2',4,5-Tetrachloro-1,1'-biphenyl	290	C12H6Cl4	070362-47-9	99
2	1,1'-Biphenyl, 2,2',6,6'-tetrach...	290	C12H6Cl4	015968-05-5	99
3	1,1'-Biphenyl, 3,3',4,4'-tetrach...	290	C12H6Cl4	032598-13-3	98
4	1,1'-Biphenyl, 2,2',4,4'-tetrach...	290	C12H6Cl4	002437-79-8	98
5	1,1'-Biphenyl, 2,2',4,5'-tetrach...	290	C12H6Cl4	041464-40-8	97





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Sample : K3453-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : FRAC-TANK-MUD

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG061719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

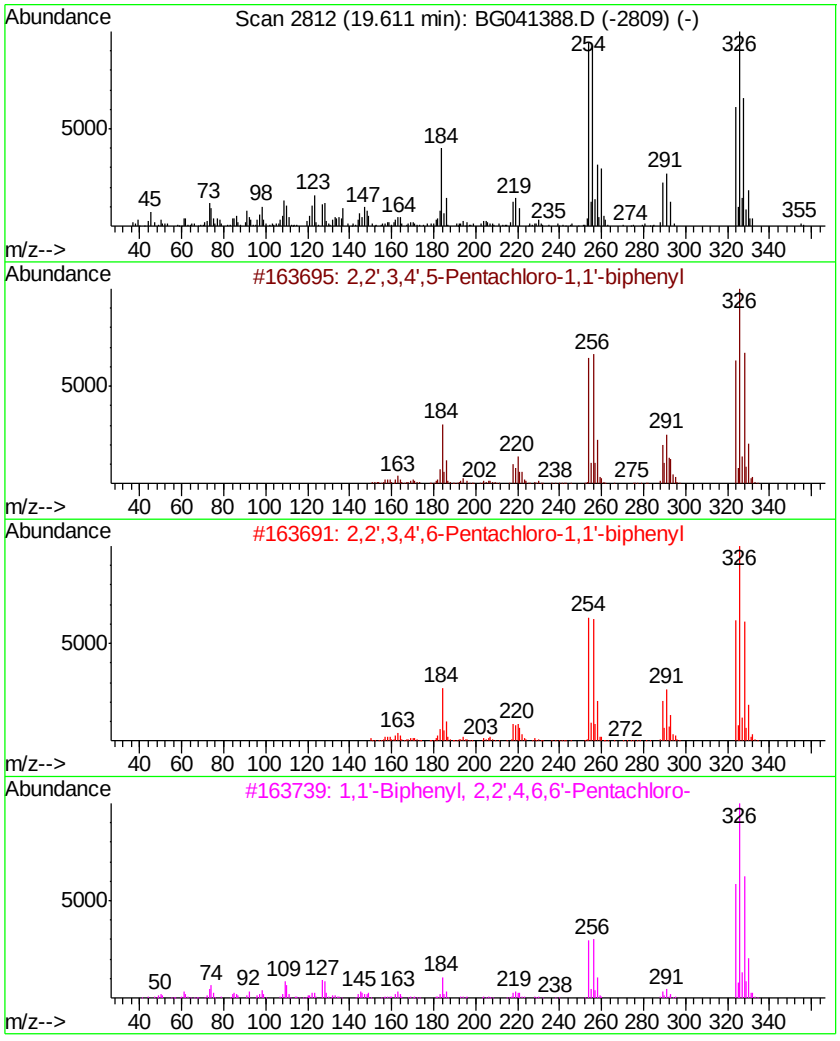
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

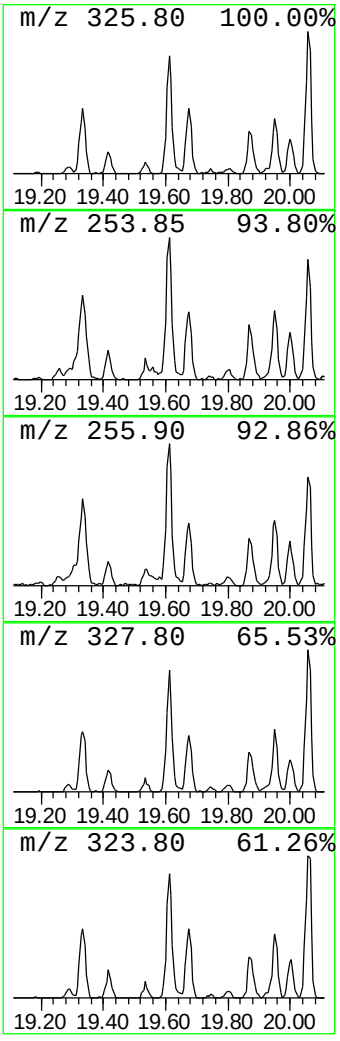
****

Peak Number 19 2,2',3,4',5-Pentachloro-1,1... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.61	11.02 ng	404393	Chrysene-d12	21.71

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,2',3,4',5-Pentachloro-1,1'-bip...	324	C12H5Cl5	068194-07-0	99
2	2,2',3,4',6-Pentachloro-1,1'-bip...	324	C12H5Cl5	068194-05-8	99
3	1,1'-Biphenyl, 2,2',4,6,6'-Penta...	324	C12H5Cl5	056558-16-8	99
4	1,1'-Biphenyl, 2,3,3',4,6-Pentac...	324	C12H5Cl5	074472-35-8	99
5	1,1'-Biphenyl, 2,2',3,5,5'-penta...	324	C12H5Cl5	052663-61-3	99





Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG062119\
Data File : BG041388.D
Acq On : 21 Jun 2019 22:29
Operator : HP/JU
Sample : K3453-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : FRAC-TANK-MUD

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG061719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

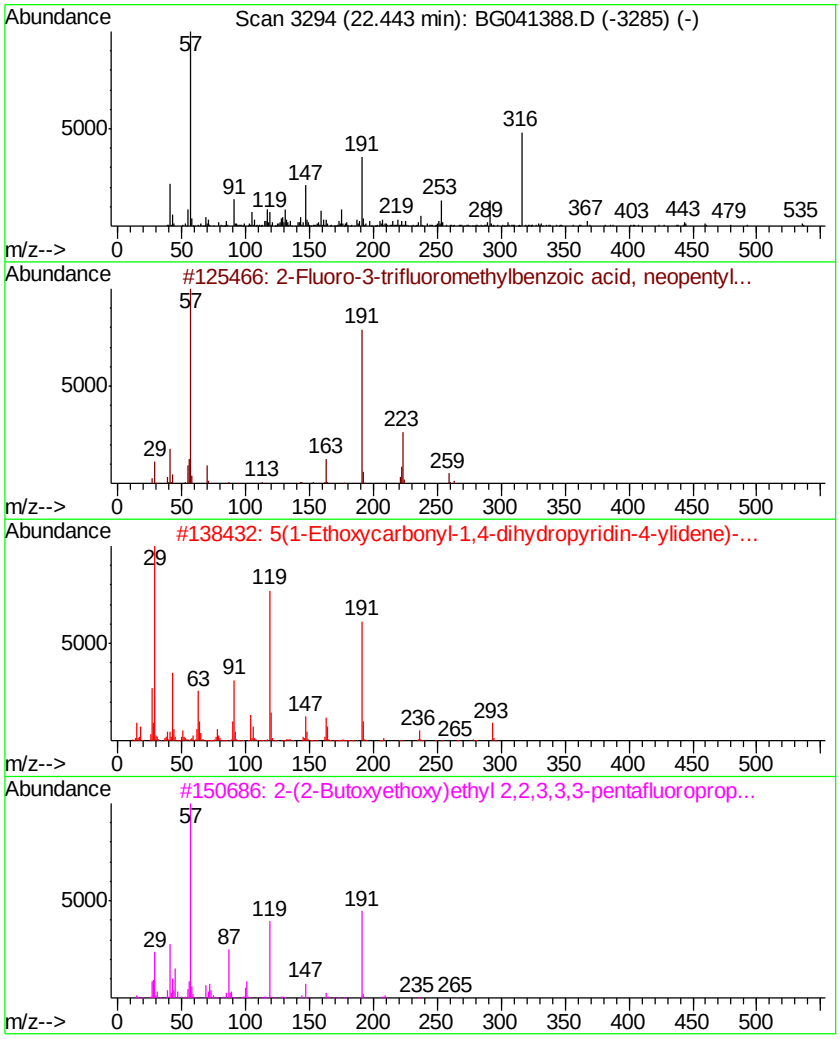
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

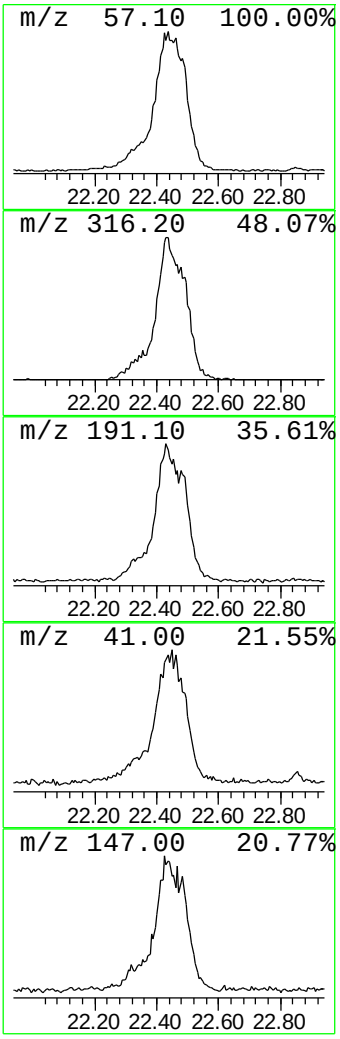
****

Peak Number 20 unknown22.44 Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.44	14.42 ng	528951	Chrysene-d12	21.71

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Fluoro-3-trifluoromethylbenzoi...	278	C13H14F4O2	1000357-63-9	9
2	5(1-Ethoxycarbonyl-1,4-dihydropy...	293	C14H15NO6	142131-81-5	4
3	2-(2-Butoxyethoxy)ethyl 2,2,3,3,...	308	C11H17F5O4	1000351-98-7	4
4	2-t-Butyl-5-chloromethyl-3-methy...	304	C14H25ClN2O3	1000192-88-5	2
5	1,4-Epoxynaphthalene-1(2H)-metha...	344	C23H36O2	056771-86-9	2





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG062119\
Data File : BG041388.D
Acq On : 21 Jun 2019 22:29
Operator : HP/JU
Sample : K3453-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : FRAC-TANK-MUD

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG061719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Butane, 2-methoxy...	3.12	19.6	ng	209319	1	8.05	213436	20.0
unknown7.58	7.58	102.1	ng	1089270	1	8.05	213436	20.0
1,1'-Biphenyl, 2,...	17.30	12.9	ng	423326	4	17.44	653773	20.0
1,1'-Biphenyl, 2,...	18.02	31.5	ng	1031090	4	17.44	653773	20.0
1,1'-Biphenyl, 3,...	18.15	11.6	ng	378414	4	17.44	653773	20.0
1,1'-Biphenyl, 2'...	18.29	10.4	ng	340206	4	17.44	653773	20.0
2,2',4,5-Tetrachl...	18.49	25.9	ng	847367	4	17.44	653773	20.0
1,1'-Biphenyl, 2,...	18.55	16.8	ng	549294	4	17.44	653773	20.0
1,1'-Biphenyl, 2,...	18.59	11.9	ng	387734	4	17.44	653773	20.0
2,2',3,6-Tetrachl...	18.78	26.9	ng	878250	4	17.44	653773	20.0
3,3',4,5-Tetrachl...	18.82	7.9	ng	258530	4	17.44	653773	20.0
1,1'-Biphenyl, 2,...	18.91	13.2	ng	430394	4	17.44	653773	20.0
Biphenyl, 2,4,4',...	18.95	17.1	ng	558849	4	17.44	653773	20.0
2,3',4,5-Tetrachl...	19.26	14.4	ng	471415	4	17.44	653773	20.0
1,1'-Biphenyl, 3,...	19.35	28.9	ng	943916	4	17.44	653773	20.0
1,1'-Biphenyl, 3,...	19.56	25.7	ng	839363	4	17.44	653773	20.0
2,2',3,4',5-Penta...	19.61	11.0	ng	404393	5	21.71	733820	20.0
unknown22.44	22.44	14.4	ng	528951	5	21.71	733820	20.0