LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062616\
Data File : BF088420.D
Acq On : 26 Jun 2016 16:03
Operator : UM/SJ
Sample : H3684-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GROUNDWATER

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:\HPCHEM1\BNA_F\METHODS\8270-BF060716.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	1.690	7	9	25	rVB	266994	500263	22.64%	2.628%
2	4.033	211	214	223	rVB	78349	140974	6.38%	0.740%
3	4.661	267	269	282	rBV	350758	525275	23.77%	2.759%
4	4.901	288	290	300	rBV2	14076	36365	1.65%	0.191%
5	5.130	308	310	332	rBV	623004	788942	35.71%	4.144%
6	5.530	344	345	358	rVB	11294	26201	1.19%	0.138%
7	5.850	371	373	383	rBV	55828	96652	4.37%	0.508%
8	6.216	402	405	412	rBV	311658	450971	20.41%	2.369%
9	6.319	412	414	432	rVB	1472932	1572641	71.18%	8.260%
10	6.547	432	434	440	rBV	351312	386256	17.48%	2.029%
11	6.696	445	447	450	rBV	1079478	1423783	64.44%	7.478%
12	7.130	482	485	487	rBV	708912	1071182	48.48%	5.626%
13	7.759	538	540	544	rBV2	30808	51348	2.32%	0.270%
14	7.827	544	546	549	rBV	366465	542510	24.55%	2.849%
15	8.079	565	568	569	rBV	853598	992108	44.90%	5.211%
16	8.102	569	570	576	rVV	959107	948250	42.92%	4.981%
17	8.193	576	578	579	rVV	56987	71467	3.23%	0.375%
18	8.216	579	580	587	rVB	38410	56541	2.56%	0.297%
19	8.410	595	597	599	rBV	941086	863887	39.10%	4.537%
20	8.627	615	616	620	rBV2	44627	84347	3.82%	0.443%
21	8.913	638	641	643	rBV	2197161	2209539	100.00%	11.605%
22	9.039	650	652	655	rVB	33040	30557	1.38%	0.160%
23	9.313	674	676	680	rVB	91024	85246	3.86%	0.448%
24	9.405	682	684	692	rVB2	41773	67235	3.04%	0.353%
25	9.576	696	699	702	rBV	708955	640064	28.97%	3.362%
26	9.976	731	734	736	rBV	126314	174016	7.88%	0.914%
27	10.022	736	738	740	rVB2	28506	28383	1.28%	0.149%
28	10.365	765	768	771	rBV	1063336	1203377	54.46%	6.321%
29	10.491	778	779	783	rVB	25701	28094	1.27%	0.148%
30	10.936	814	818	820	rBV2	15976	24584	1.11%	0.129%
31	11.051	826	828	833	rBV	620926	604561	27.36%	3.175%
32	11.222	841	843	846	rBV	50307	53636	2.43%	0.282%
33	11.302	848	850	854	rVB	30373	46251	2.09%	0.243%
34	11.622	877	878	882	rVB	35959	38922	1.76%	0.204%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062616\
Data File : BF088420.D
Acq On : 26 Jun 2016 16:03
Operator : UM/SJ
Sample : H3684-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GROUNDWATER

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:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	12.548	958	959	962	rVB	35813	41346	1.87%	0.217%
36	12.639	964	967	969	rVV	1772830	2066620	93.53%	10.855%
37	12.674	969	970	978	rVB2	67891	80302	3.63%	0.422%
38	13.542	1043	1046	1050	rBV2	35683	67023	3.03%	0.352%
39	13.679	1055	1058	1069	rVV	425004	512953	23.22%	2.694%
40	15.028	1174	1176	1185	rBV	310295	406213	18.38%	2.134%

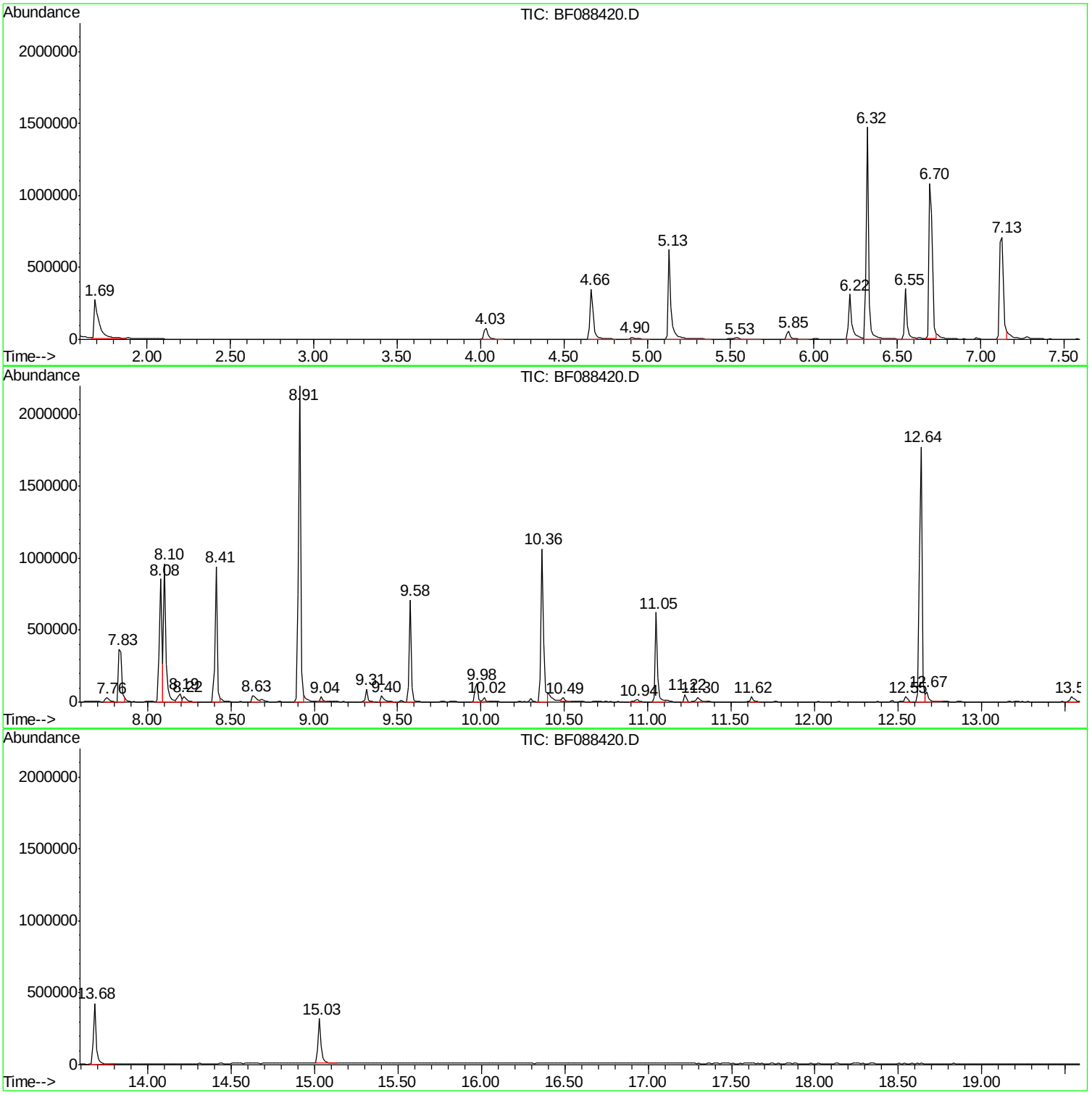
Sum of corrected areas: 19038885

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062616\
Data File : BF088420.D
Acq On : 26 Jun 2016 16:03
Operator : UM/SJ
Sample : H3684-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GROUNDWATER

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062616\
Data File : BF088420.D
Acq On : 26 Jun 2016 16:03
Operator : UM/SJ
Sample : H3684-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.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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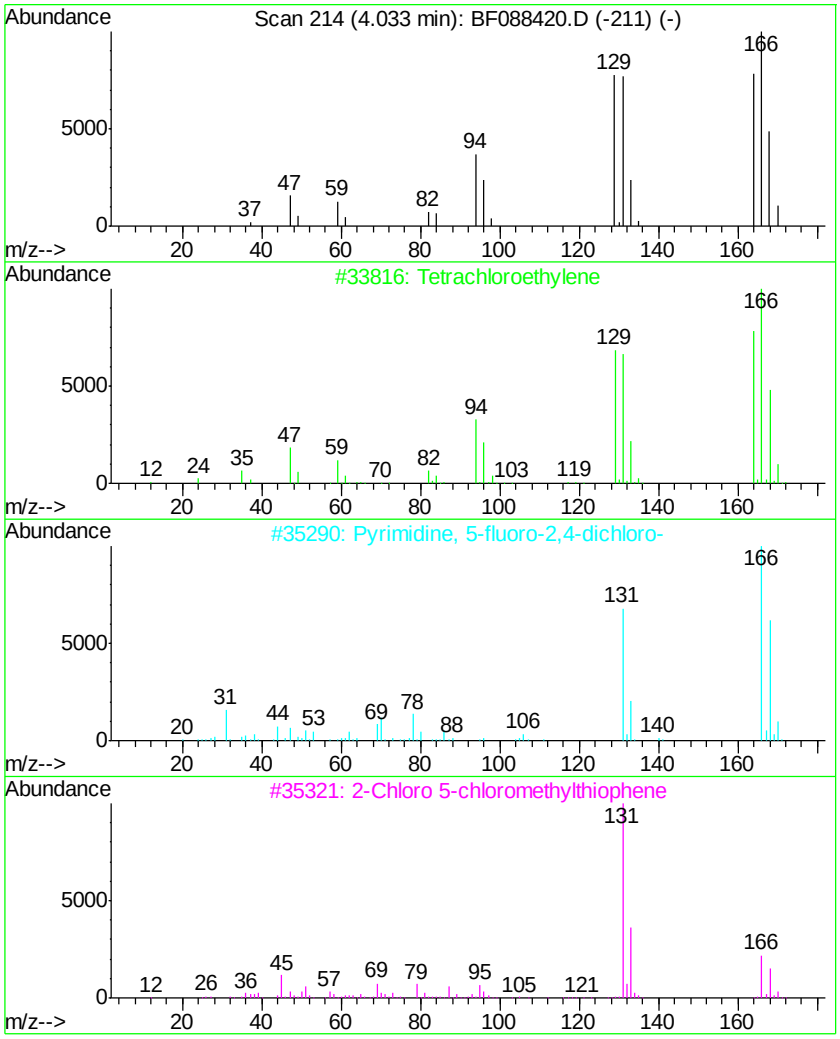
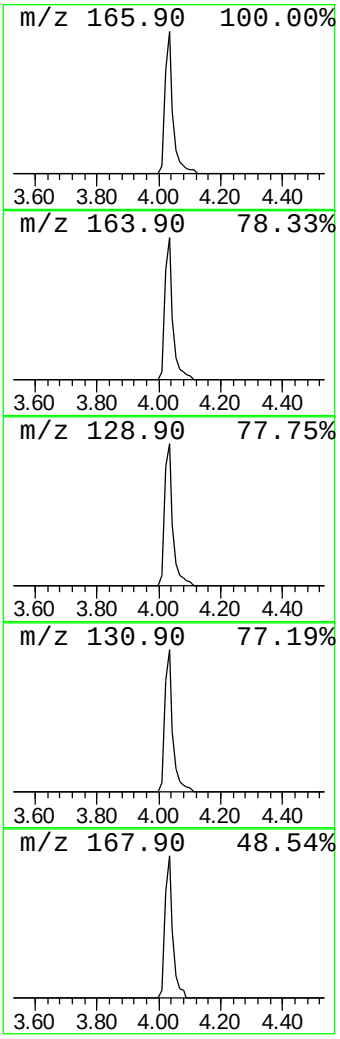
Peak Number 2 Tetrachloroethylene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.03	7.30 ng	140974	1,4-Dichlorobenzene-d4	6.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetrachloroethylene	164	C2Cl4	000127-18-4	98
2	Pyrimidine, 5-fluoro-2,4-dichloro-	166	C4HCl2FN2	002927-71-1	43
3	2-Chloro 5-chloromethylthiophene	166	C5H4Cl2S	023784-96-5	12
4	2-Chloroquinoxaline	164	C8H5ClN2	001448-87-9	9
5	4,6-Dichloro-2-fluoropyrimidine	166	C4HCl2FN2	003824-45-1	9





Data Path : Z:\HPCHEM1\BNA F\DATA\BF062616\
Data File : BF088420.D
Acq On : 26 Jun 2016 16:03
Operator : UM/SJ
Sample : H3684-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GROUNDWATER

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

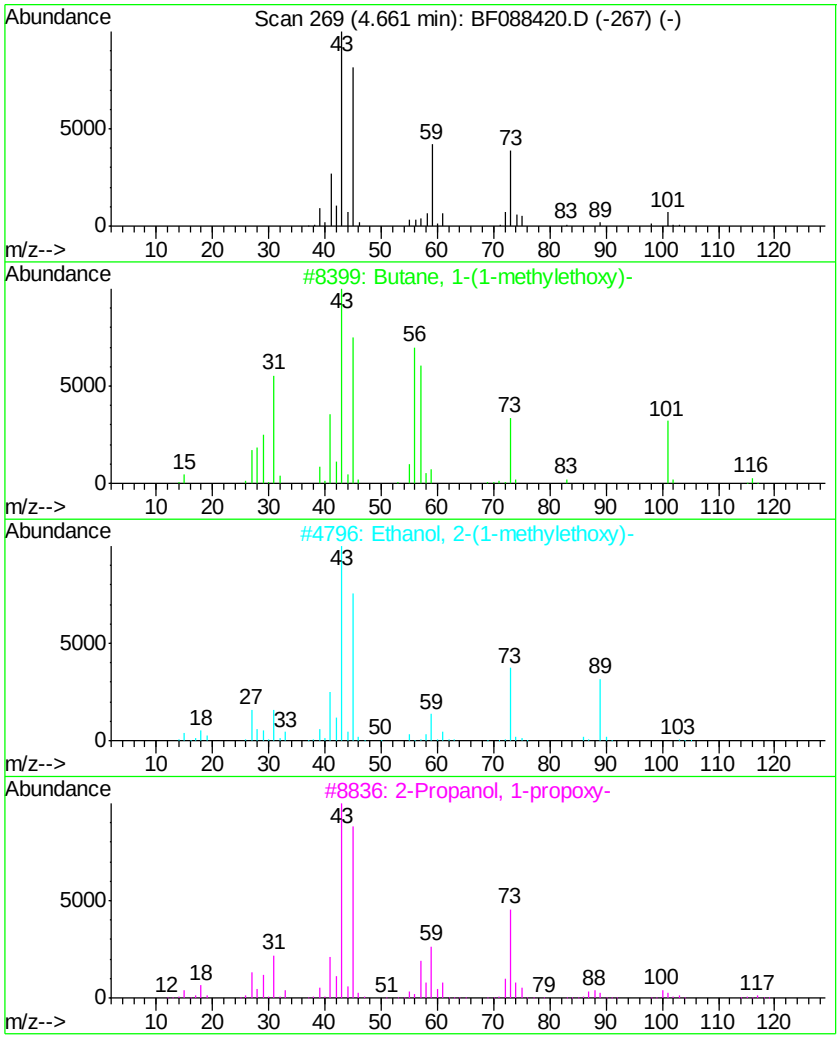
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

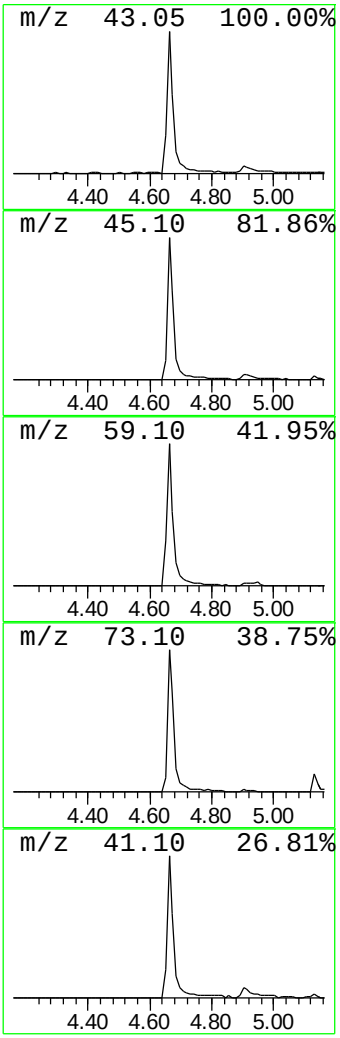
****

Peak Number 3 Butane, 1-(1-methylethoxy)- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.66	27.20 ng	525275	1,4-Dichlorobenzene-d4	6.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 1-(1-methylethoxy)-	116	C7H16O	001860-27-1	64
2	Ethanol, 2-(1-methylethoxy)-	104	C5H12O2	000109-59-1	59
3	2-Propanol, 1-propoxy-	118	C6H14O2	001569-01-3	56
4	2-Propanol, 1-(1-methylethoxy)-	118	C6H14O2	003944-36-3	56
5	Butane, 2-ethoxy-	102	C6H14O	002679-87-0	47





Data Path : Z:\HPCHEM1\BNA F\DATA\BF062616\
Data File : BF088420.D
Acq On : 26 Jun 2016 16:03
Operator : UM/SJ
Sample : H3684-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GROUNDWATER

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.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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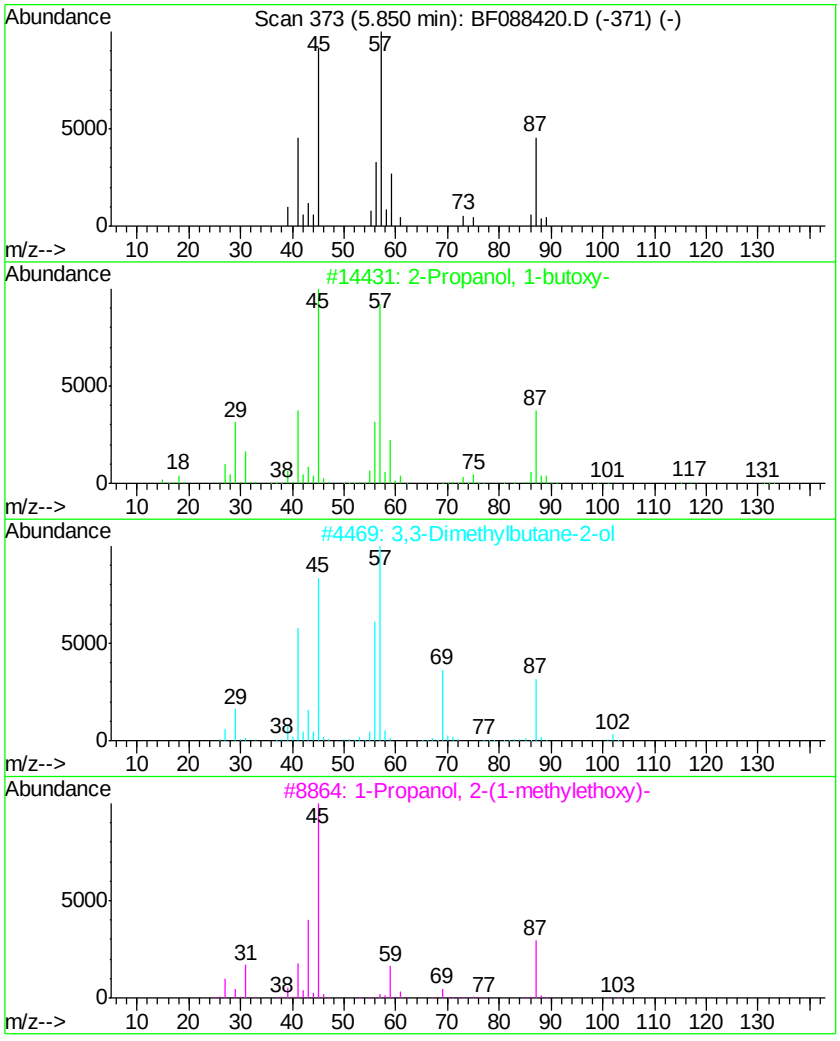
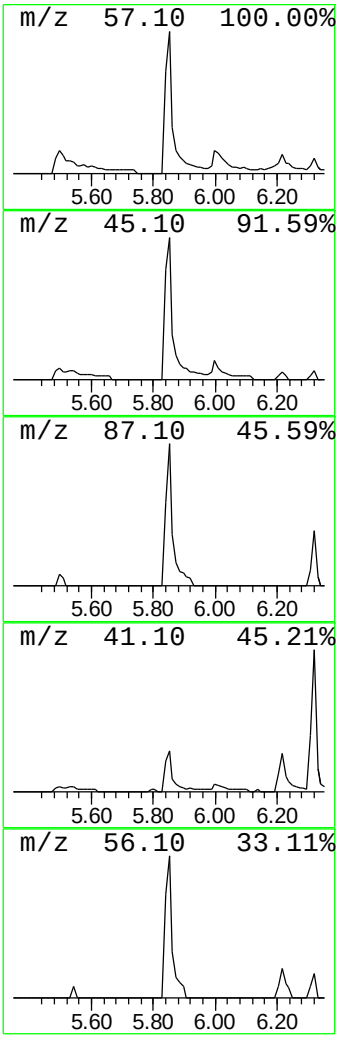
Peak Number 4 2-Propanol, 1-butoxy- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.85	5.00 ng	96652	1,4-Dichlorobenzene-d4	6.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanol, 1-butoxy-	132	C7H16O2	005131-66-8	90
2	3,3-Dimethylbutane-2-ol	102	C6H14O	000464-07-3	42
3	1-Propanol, 2-(1-methylethoxy)-	118	C6H14O2	003944-37-4	38
4	4-Heptanol, 3,5-dimethyl-	144	C9H20O	019549-79-2	33
5	Formic acid, 1-methylpropyl ester	102	C5H10O2	000589-40-2	33





Data Path : Z:\HPCHEM1\BNA F\DATA\BF062616\
Data File : BF088420.D
Acq On : 26 Jun 2016 16:03
Operator : UM/SJ
Sample : H3684-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GROUNDWATER

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

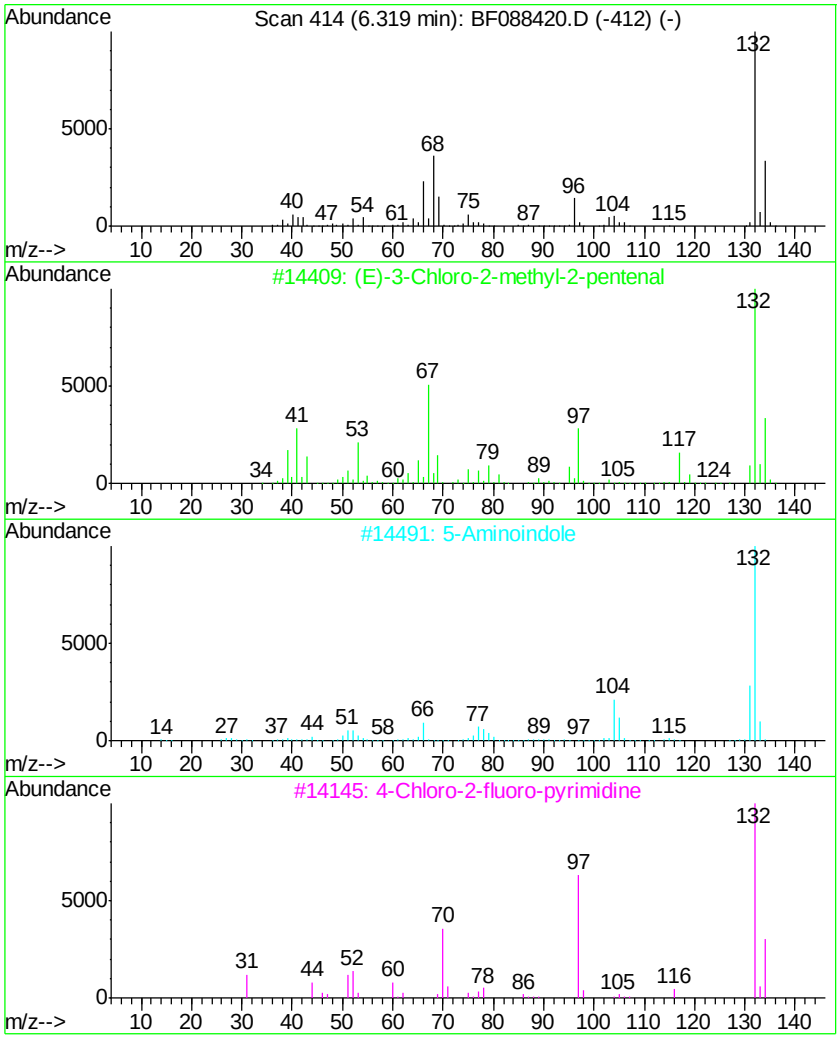
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

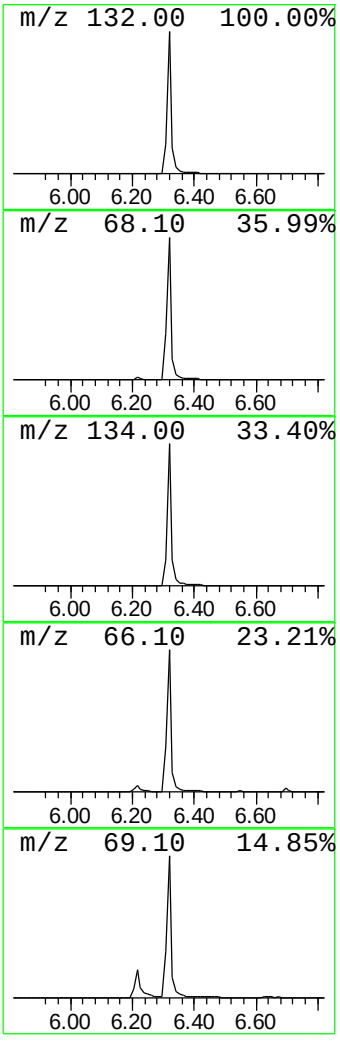
****

Peak Number 5 unknown6.32 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.32	81.43 ng	1572640	1,4-Dichlorobenzene-d4	6.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	17
2	5-Aminoindole	132	C8H8N2	005192-03-0	12
3	4-Chloro-2-fluoro-pyrimidine	132	C4H2ClFN2	051422-00-5	9
4	4-Chloro-6-fluoro-pyrimidine	132	C4H2ClFN2	051422-01-6	9
5	1-Methylpyrrolo[1,2-a]pyrazine	132	C8H8N2	064608-59-9	9





Data Path : Z:\HPCHEM1\BNA F\DATA\BF062616\
Data File : BF088420.D
Acq On : 26 Jun 2016 16:03
Operator : UM/SJ
Sample : H3684-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GROUNDWATER

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

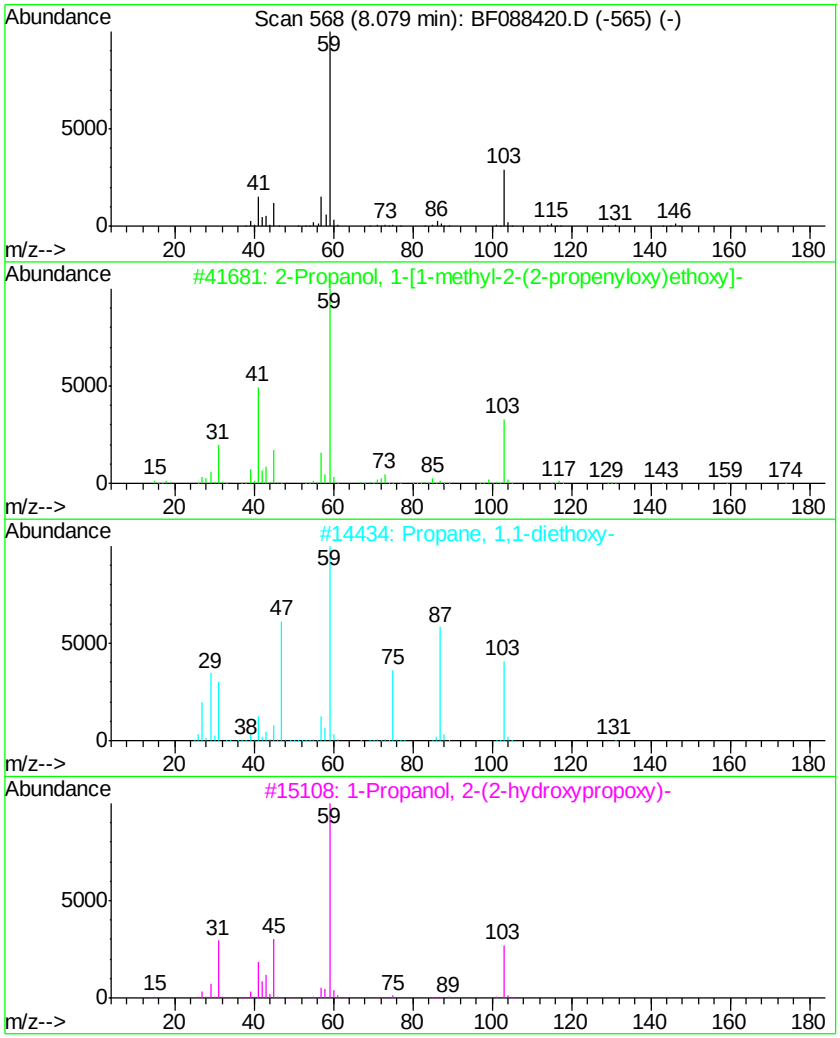
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

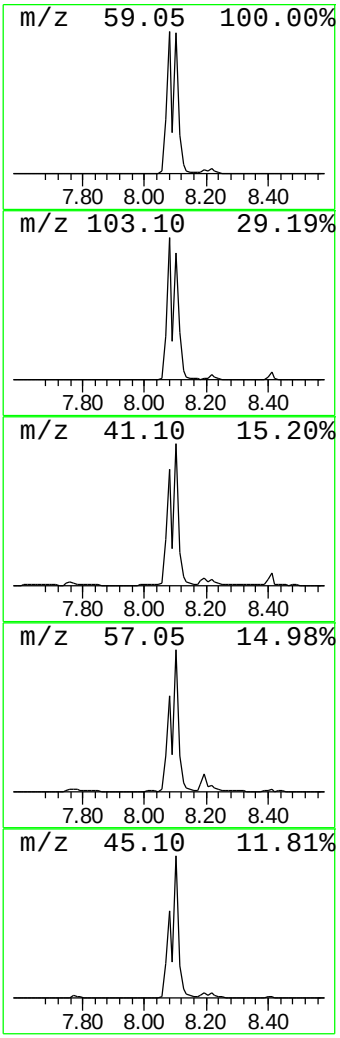
****

Peak Number 7 2-Propanol, 1-[1-methyl-2-(... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.08	36.57 ng	992108	Naphthalene-d8	7.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanol, 1-[1-methyl-2-(2-pro...	174	C9H18O3	055956-25-7	83
2	Propane, 1,1-diethoxy-	132	C7H16O2	004744-08-5	74
3	1-Propanol, 2-(2-hydroxypropoxy)-	134	C6H14O3	000106-62-7	64
4	1-(1-Methoxypropan-2-yloxy)propa...	232	C12H24O4	1000367-13-4	59
5	2-Pentanol, 2,3-dimethyl-	116	C7H16O	004911-70-0	59





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Data File : BF088420.D
Acq On : 26 Jun 2016 16:03
Operator : UM/SJ
Sample : H3684-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GROUNDWATER

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

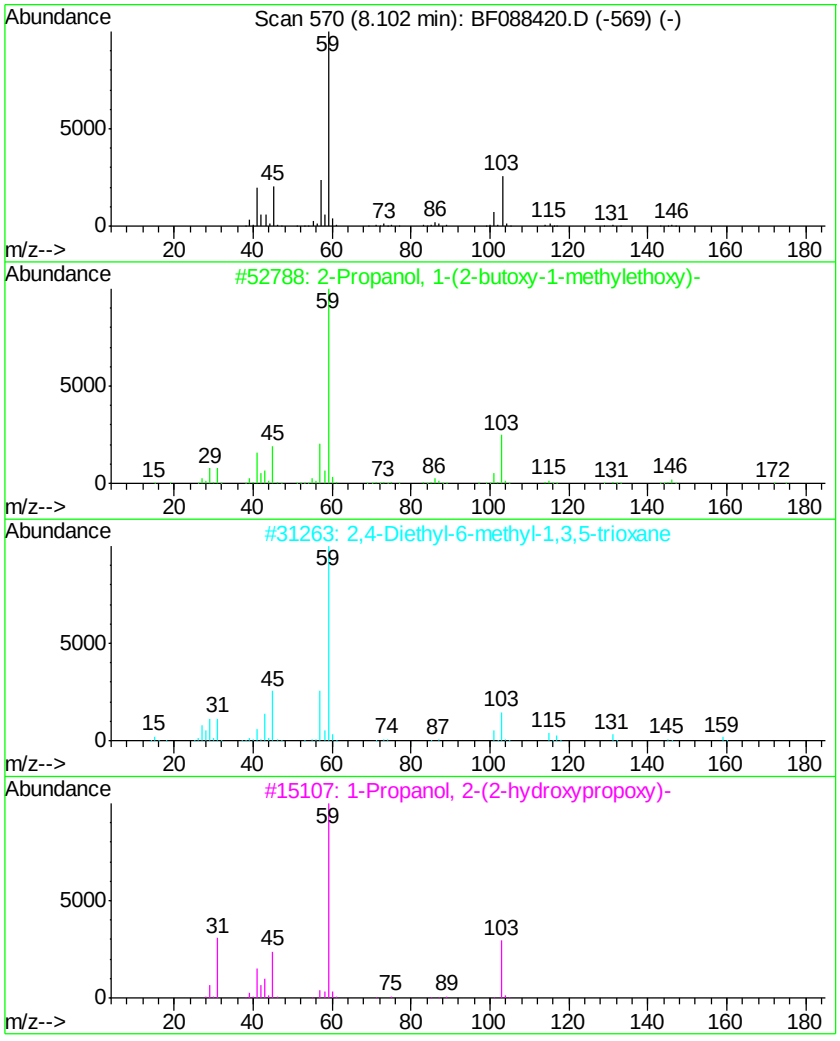
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

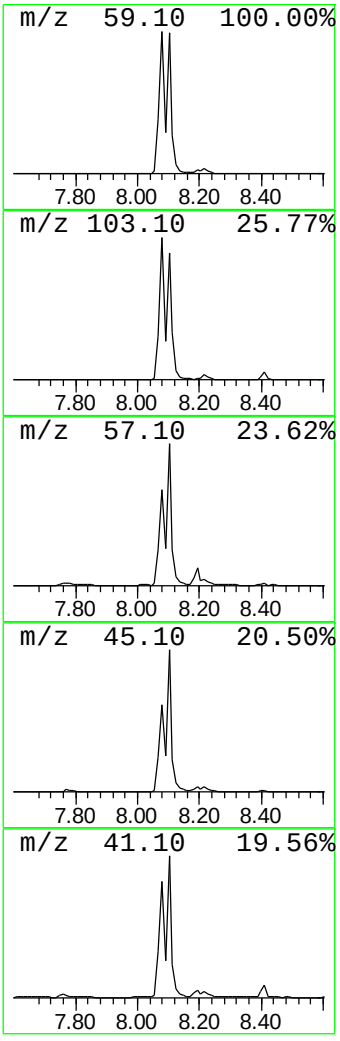
****

Peak Number 8 2-Propanol, 1-(2-butoxy-1-m... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.10	34.96 ng	948250	Naphthalene-d8	7.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanol, 1-(2-butoxy-1-methyl...	190	C10H22O3	029911-28-2	90
2	2,4-Diethyl-6-methyl-1,3,5-trioxane	160	C8H16O3	117888-04-7	78
3	1-Propanol, 2-(2-hydroxypropoxy)-	134	C6H14O3	000106-62-7	78
4	2-Propanol, 1-[1-methyl-2-(2-pro...	174	C9H18O3	055956-25-7	64
5	Hexaethylene glycol dimethyl ether	310	C14H30O7	001072-40-8	64





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062616\
Data File : BF088420.D
Acq On : 26 Jun 2016 16:03
Operator : UM/SJ
Sample : H3684-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GROUNDWATER

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

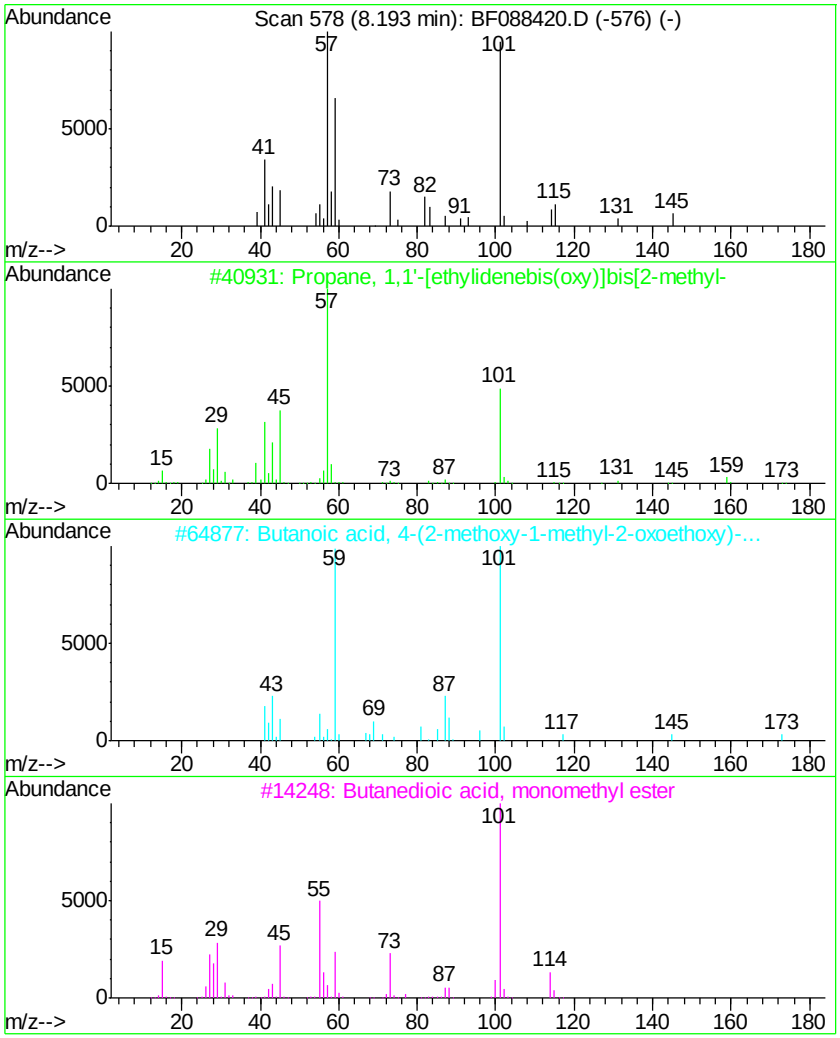
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

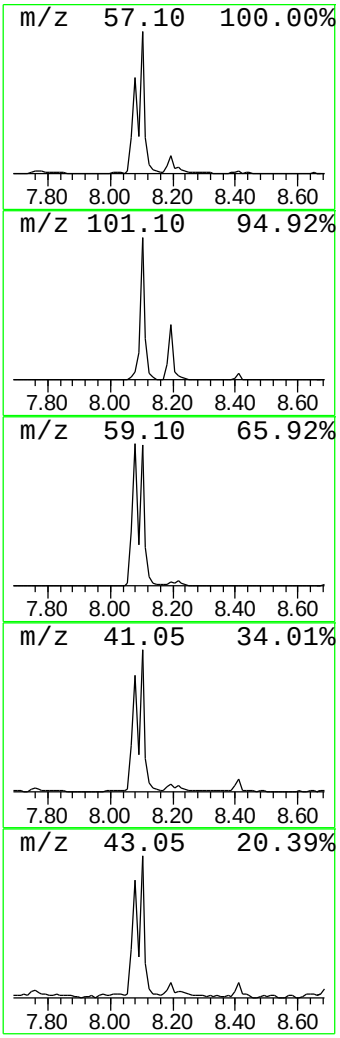
****

Peak Number 9 unknown8.19 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.19	2.63 ng	71467	Naphthalene-d8	7.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propane, 1,1'-[ethylidenebis(oxy...	174	C10H22O2	005669-09-0	47
2	Butanoic acid, 4-(2-methoxy-1-me...	204	C9H16O5	054966-46-0	42
3	Butanedioic acid, monomethyl ester	132	C5H8O4	003878-55-5	38
4	Butanoic acid, 4-[(tetrahydro-2H...	202	C10H18O4	093691-87-3	38
5	Butyric acid, 4-isopropoxy-, met...	160	C8H16O3	029006-05-1	32





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Sample : H3684-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GROUNDWATER

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.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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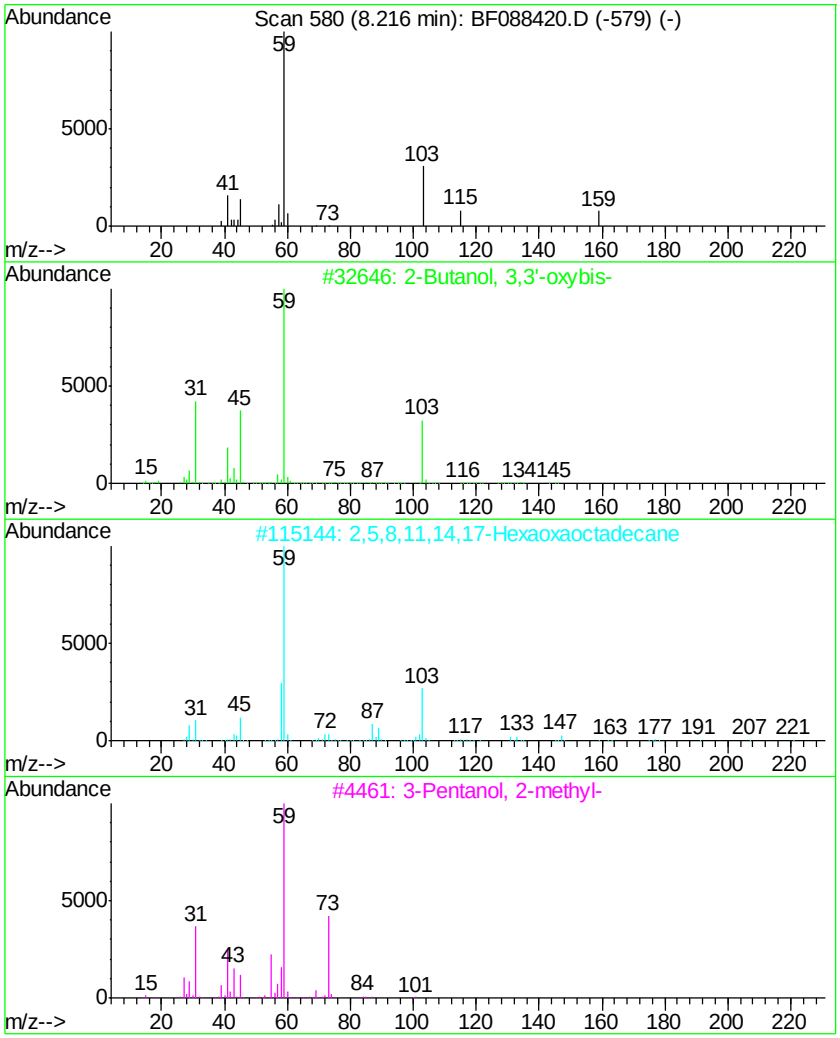
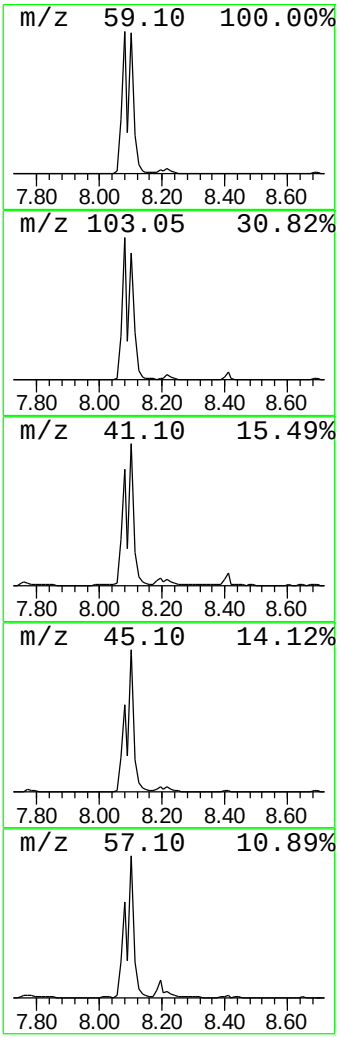
Peak Number 10 unknown8.22 Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.22	2.08 ng	56541	Naphthalene-d8	7.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Butanol, 3,3'-oxybis-	162	C8H18O3	054305-61-2	39
2	2,5,8,11,14,17-Hexaoxaoctadecane	266	C12H26O6	001191-87-3	39
3	3-Pentanol, 2-methyl-	102	C6H14O	000565-67-3	9
4	3-Heptanol, 4-methyl-	130	C8H18O	014979-39-6	9
5	2-Pentanol, 2,3-dimethyl-	116	C7H16O	004911-70-0	9





Data Path : Z:\HPCHEM1\BNA F\DATA\BF062616\
Data File : BF088420.D
Acq On : 26 Jun 2016 16:03
Operator : UM/SJ
Sample : H3684-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.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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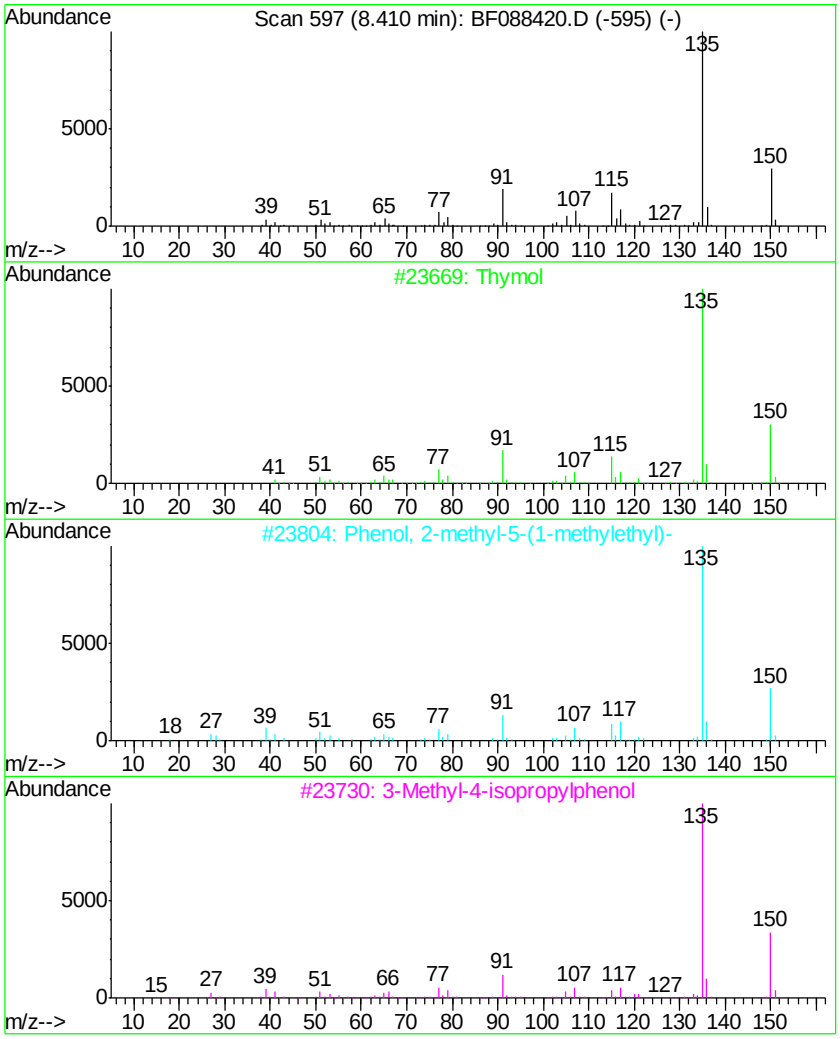
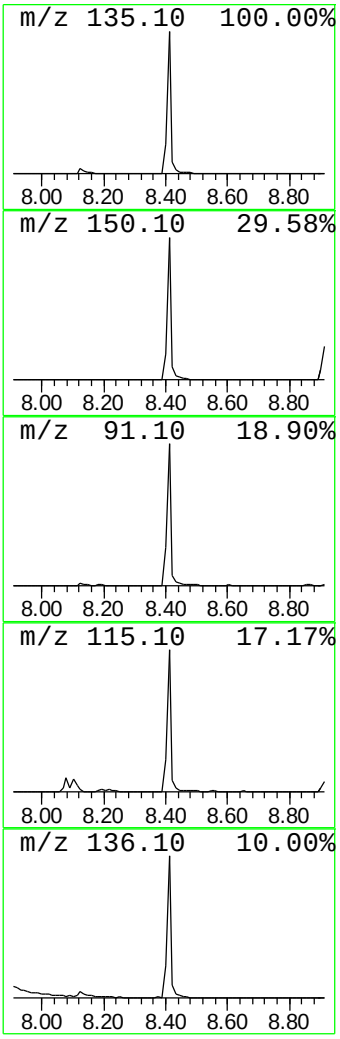
Peak Number 11 Thymol Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.41	31.85 ng	863887	Naphthalene-d8	7.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Thymol	150	C10H14O	000089-83-8	95
2	Phenol, 2-methyl-5-(1-methylethyl)-	150	C10H14O	000499-75-2	90
3	3-Methyl-4-isopropylphenol	150	C10H14O	003228-02-2	90
4	Phenol, 2-(1,1-dimethylethyl)-	150	C10H14O	000088-18-6	80
5	Phenol, 2,3,4,6-tetramethyl-	150	C10H14O	003238-38-8	80





Data Path : Z:\HPCHEM1\BNA F\DATA\BF062616\
Data File : BF088420.D
Acq On : 26 Jun 2016 16:03
Operator : UM/SJ
Sample : H3684-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GROUNDWATER

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.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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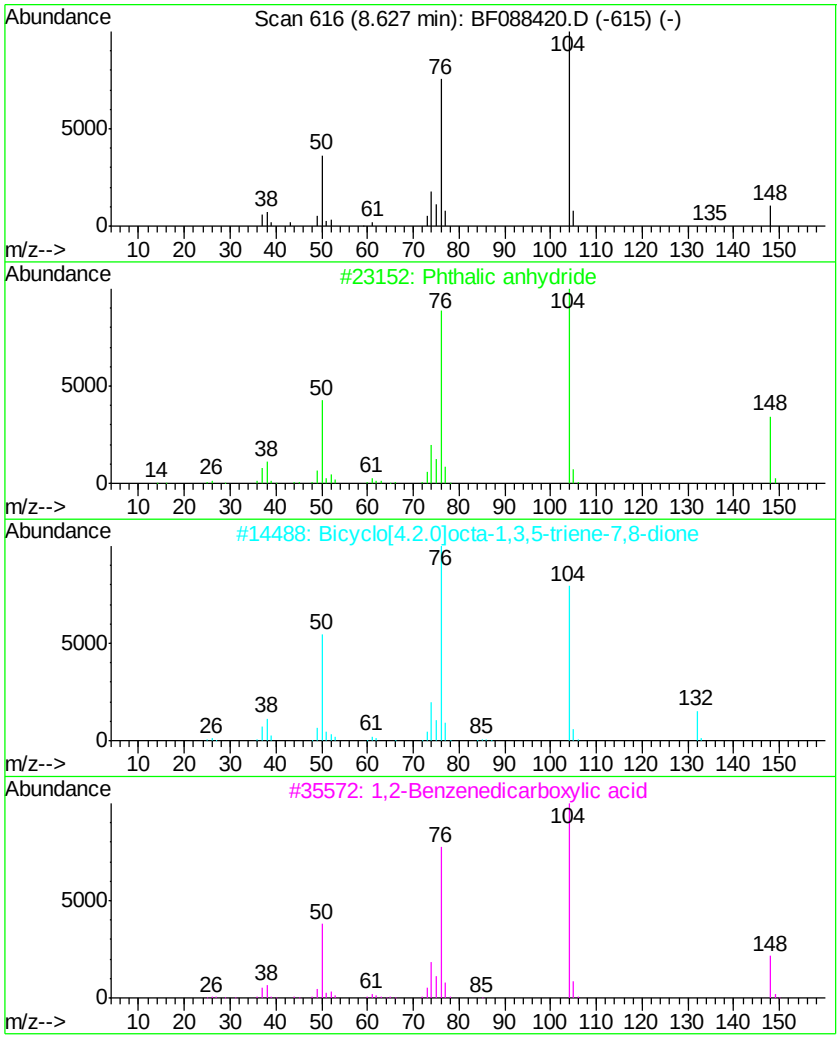
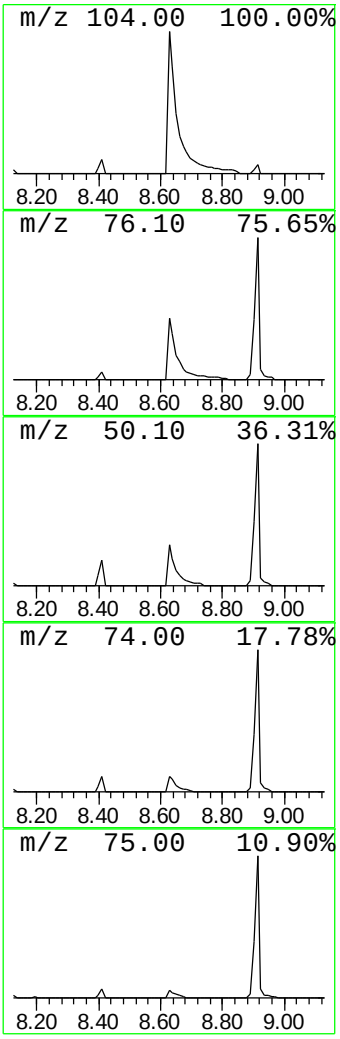
Peak Number 12 Phthalic anhydride Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.63	3.11 ng	84347	Naphthalene-d8	7.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phthalic anhydride	148	C8H4O3	000085-44-9	91
2	Bicyclo[4.2.0]octa-1,3,5-triene-...	132	C8H4O2	006383-11-5	86
3	1,2-Benzenedicarboxylic acid	166	C8H6O4	000088-99-3	83
4	N-[2-Acetamidoethylthiol]phthalimide	264	C12H12N2O3S	025158-14-9	78
5	1H-Isoindole-1,3(2H)-dione, 2-(h...	177	C9H7NO3	000118-29-6	78





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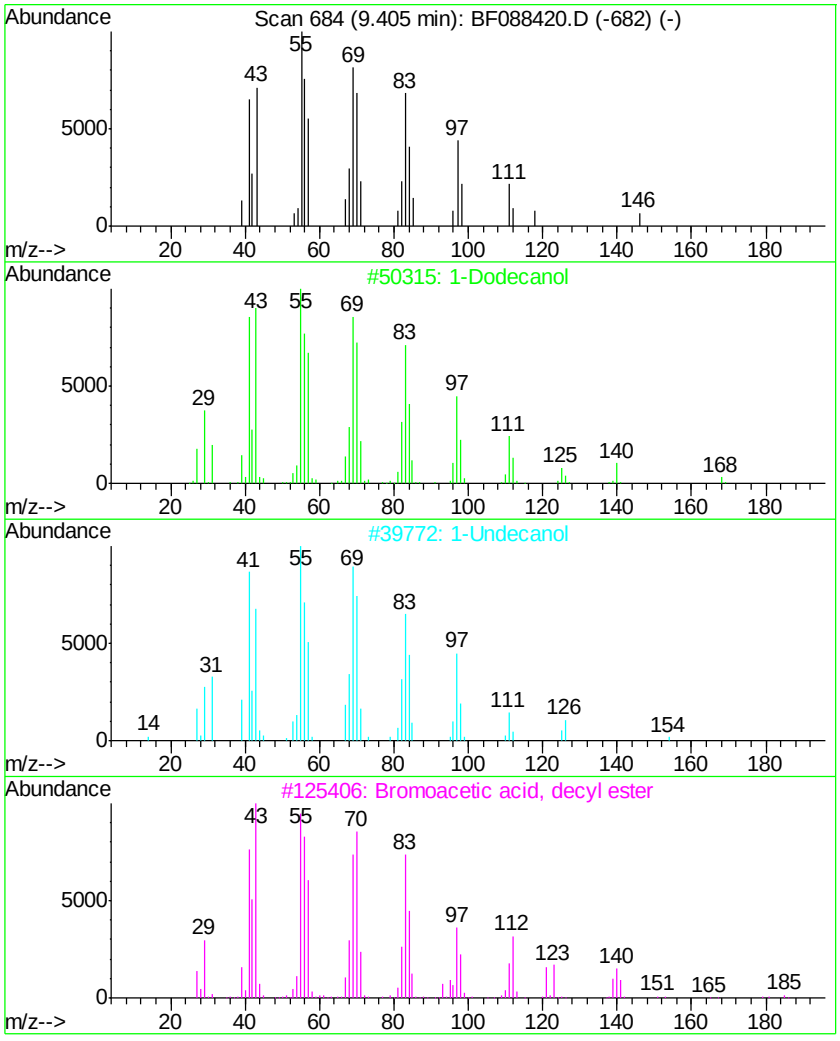
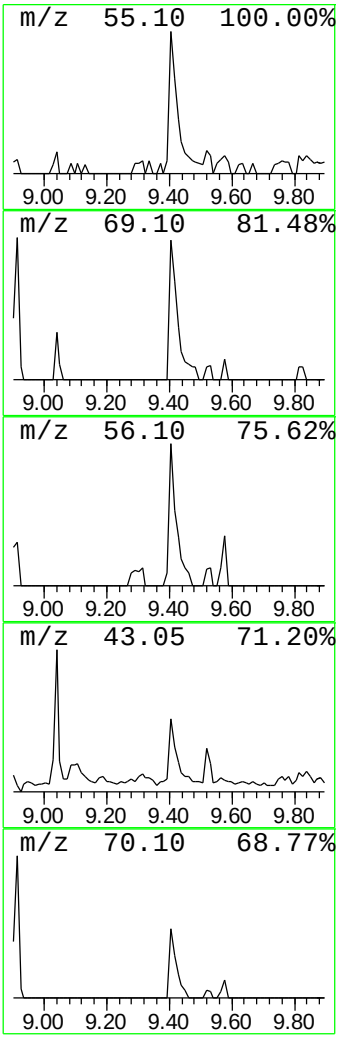
Peak Number 13 1-Dodecanol Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.40	2.10 ng	67235	Acenaphthene-d10	9.58

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Dodecanol	186	C12H26O	000112-53-8	91
2	1-Undecanol	172	C11H24O	000112-42-5	87
3	Bromoacetic acid, decyl ester	278	C12H23BrO2	005436-93-1	86
4	1-Decanol	158	C10H22O	000112-30-1	83
5	1-Dodecene	168	C12H24	000112-41-4	64





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Sample : H3684-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GROUNDWATER

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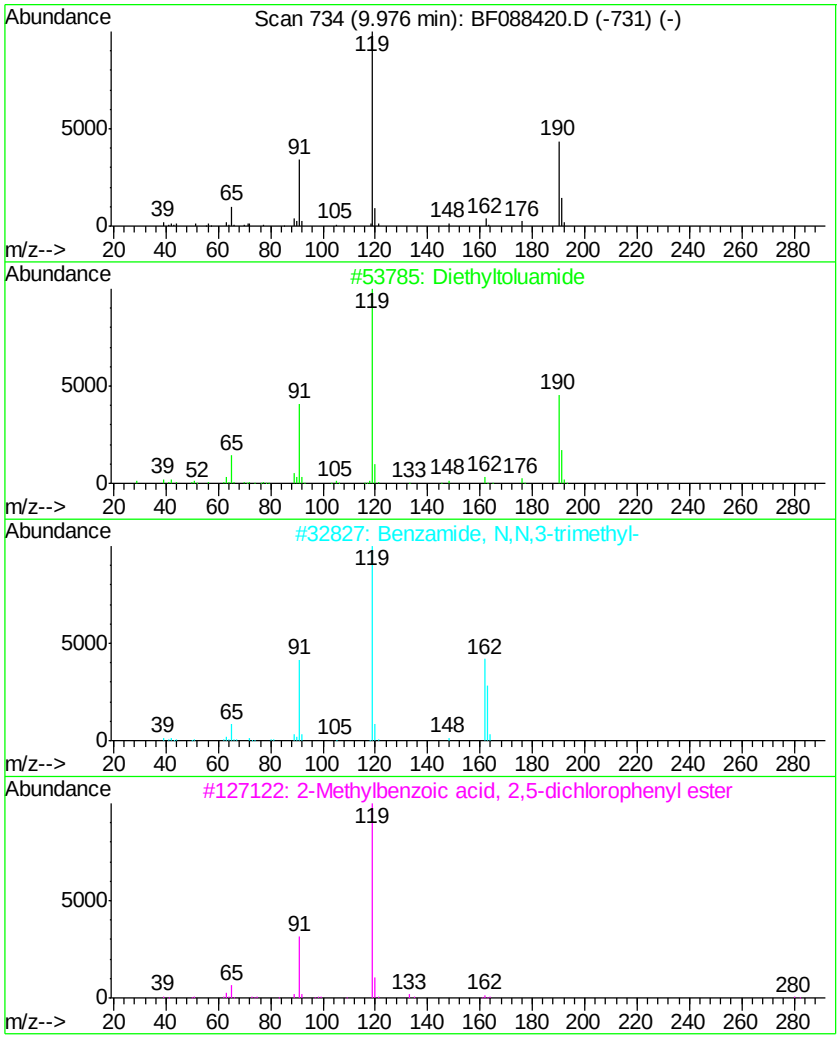
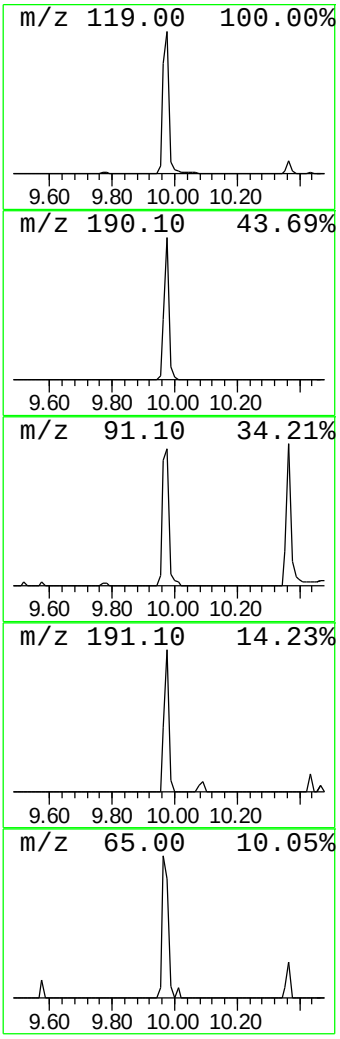
Peak Number 14 Diethyltoluamide Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.98	5.44 ng	174016	Acenaphthene-d10	9.58

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Diethyltoluamide	191	C12H17NO	000134-62-3	95
2	Benzamide, N,N,3-trimethyl-	163	C10H13NO	006935-65-5	50
3	2-Methylbenzoic acid, 2,5-dichlo...	280	C14H10Cl2O2	1000325-60-9	50
4	p-Toluric acid	193	C10H11NO3	027115-50-0	50
5	2-Isopropyl-5-methyl-[1,4]benzoq...	297	C18H19NO3	1000301-09-7	50





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ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GROUNDWATER

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
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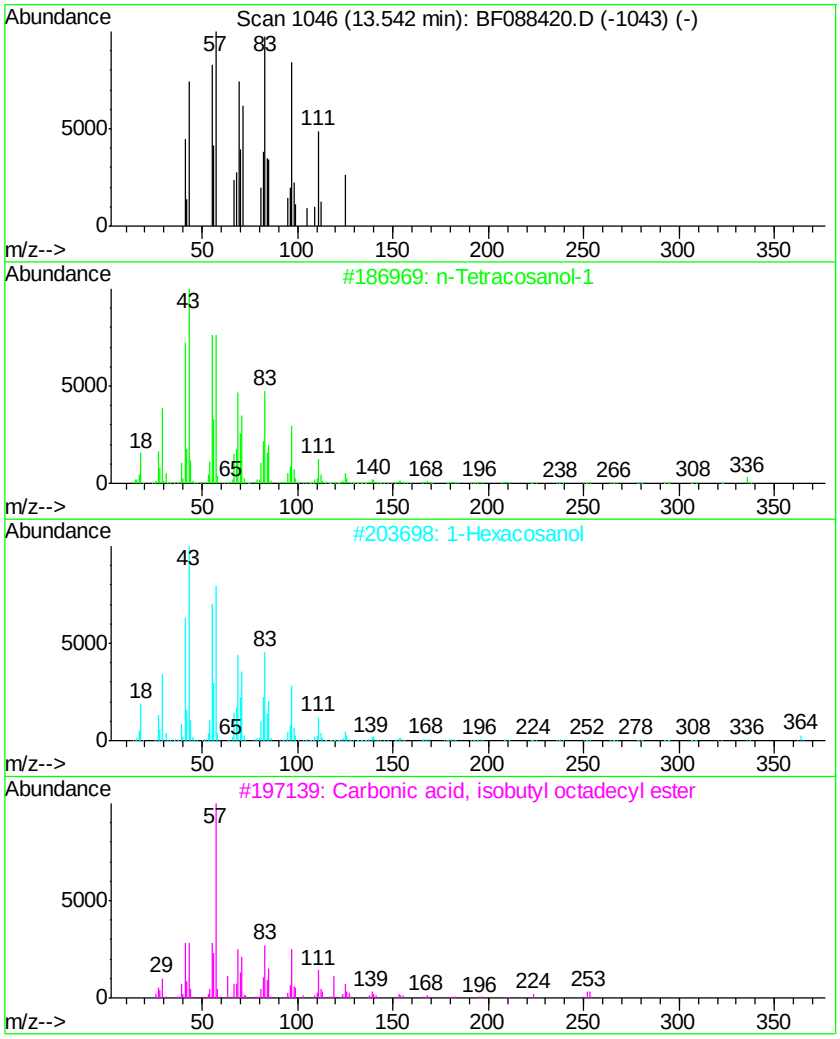
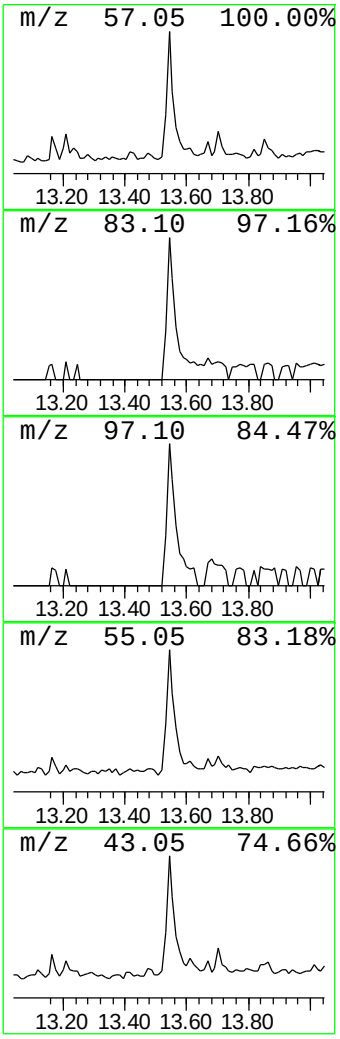
Peak Number 15 n-Tetracosanol-1 Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.54	2.61 ng	67023	Chrysene-d12	13.68

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Tetracosanol-1	354	C24H50O	000506-51-4	90
2	1-Hexacosanol	382	C26H54O	000506-52-5	81
3	Carbonic acid, isobutyl octadecy...	370	C23H46O3	1000314-61-5	59
4	Isobutyl tetradecyl carbonate	314	C19H38O3	959275-58-2	35
5	2(5H)-Furanone, 5,5-dimethyl-	112	C6H8O2	020019-64-1	27





Tentatively Identified Compound (LSC) summary

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Operator : UM/SJ
Sample : H3684-02
Misc :
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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
Tetrachloroethylene	4.03	7.3	ng	140974	1	6.55	386256	20.0
Butane, 1-(1-meth...	4.66	27.2	ng	525275	1	6.55	386256	20.0
2-Propanol, 1-but...	5.85	5.0	ng	96652	1	6.55	386256	20.0
unknown6.32	6.32	81.4	ng	1572640	1	6.55	386256	20.0
2-Propanol, 1-[1-...	8.08	36.6	ng	992108	2	7.84	542510	20.0
2-Propanol, 1-(2-...	8.10	35.0	ng	948250	2	7.84	542510	20.0
unknown8.19	8.19	2.6	ng	71467	2	7.84	542510	20.0
unknown8.22	8.22	2.1	ng	56541	2	7.84	542510	20.0
Thymol	8.41	31.9	ng	863887	2	7.84	542510	20.0
Phthalic anhydride	8.63	3.1	ng	84347	2	7.84	542510	20.0
1-Dodecanol	9.40	2.1	ng	67235	3	9.58	640064	20.0
Diethyltoluamide	9.98	5.4	ng	174016	3	9.58	640064	20.0
n-Tetracosanol-1	13.54	2.6	ng	67023	5	13.68	512953	20.0