

FORM 3A-OR
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name : Alliance Technical Group, LLC Contract : 68HERH20D0011
 Lab Code : ACE Case No. : Sharkey Lab MA No. : _____ SDG No. : Q3688
 Analytical Method : VOA Level : _____
 Matrix Water
 EPA Sample No. (Matrix Spike/Matrix Spike Duplicate): M-31S
 Instrument ID : MSVOA_U GC Column DB-624UI ID : 0.18 (mm)
 Concentration Units (ug/L, mg/L ug/kg): ug/L

ANALYTE	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS %R #	QC Limits %R
Dichlorodifluoromethane	50	0	50	100	0 - 0
Chloromethane	50	0	47	94	0 - 0
Vinyl Chloride	50	0	50	100	0 - 0
Bromomethane	50	0	52	104	0 - 0
Chloroethane	50	0	50	100	0 - 0
Trichlorofluoromethane	50	0	52	104	0 - 0
1,1-Dichloroethene	50	0	49	98	61 - 145
1,1,2-Trichloro-1,2,2-trifluoro	50	0	50	100	0 - 0
Acetone	100	0	59	59	0 - 0
Carbon disulfide	50	0	41	82	0 - 0
Methyl acetate	50	0	51	102	0 - 0
Methylene chloride	50	0	50	100	0 - 0
trans-1,2-Dichloroethene	50	0	49	98	0 - 0
Methyl tert-Butyl ether	50	0	51	102	0 - 0
1,1-Dichloroethane	50	0	50	100	0 - 0
cis-1,2-Dichloroethene	50	0	50	100	0 - 0
2-Butanone	100	0	76	76	0 - 0
Bromochloromethane	50	0	52	104	0 - 0
Chloroform	50	0	52	104	0 - 0
1,1,1-Trichloroethane	50	0	48	96	0 - 0
Cyclohexane	50	0	48	96	0 - 0
Carbon Tetrachloride	50	0	49	98	0 - 0
Benzene	50	0	50	100	76 - 127
1,2-Dichloroethane	50	0	53	106	0 - 0
Trichloroethene	50	0	49	98	71 - 120
Methylcyclohexane	50	0	47	94	0 - 0
1,2-Dichloropropane	50	0	51	102	0 - 0
Bromodichloromethane	50	0	49	98	0 - 0
cis-1,3-Dichloropropene	50	0	47	94	0 - 0
4-Methyl-2-pentanone	100	0	100	100	0 - 0
Toluene	50	0	50	100	76 - 125
trans-1,3-Dichloropropene	50	0	44	88	0 - 0
1,1,2-Trichloroethane	50	0	49	98	0 - 0
Tetrachloroethene	50	0	48	96	0 - 0
2-Hexanone	100	0	92	92	0 - 0
Dibromochloromethane	50	0	46	92	0 - 0
1,2-Dibromoethane	50	0	49	98	0 - 0
Chlorobenzene	50	0	49	98	75 - 130
Ethylbenzene	50	0	49	98	0 - 0
o-Xylene	50	0	50	100	0 - 0
m,p-Xylene	50	0	49	98	0 - 0
Styrene	50	0	50	100	0 - 0
Bromoform	50	0	44	88	0 - 0

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 Instrument ID : MSVOA_U GC Column DB-624UI ID : 0.18 (mm)
 Concentration Units (ug/L,mg/L ug/kg): ug/L

ANALYTE	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS %R #	QC Limits %R
Isopropylbenzene	50	0	46	92	0 - 0
1,2,3-Trichloropropane	50	0	48	96	0 - 0
1,1,2,2-Tetrachloroethane	50	0	49	98	0 - 0
1,3-Dichlorobenzene	50	0	45	90	0 - 0
1,4-Dichlorobenzene	50	0	45	90	0 - 0
1,2-Dichlorobenzene	50	0	46	92	0 - 0
1,2-Dibromo-3-chloropropane	50	0	45	90	0 - 0
1,2,4-Trimethylbenzene	50	0	46	92	0 - 0
1,3,5-Trimethylbenzene	50	0	47	94	0 - 0
1,2,4-Trichlorobenzene	50	0	43	86	0 - 0
1,2,3-Trichlorobenzene	50	0	44	88	0 - 0

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ANALYTE	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS %R #	QC Limits %R	
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ANALYTE	SPIKE AADDDED	MSD CONCENTRATION	MSD %R #	RPD	QC Limits	
					RPD	%R
Dichlorodifluoromethane	50	47	94	5	0	0 - 0
Chloromethane	50	45	90	4	0	0 - 0
Vinyl Chloride	50	48	96	3	0	0 - 0
Bromomethane	50	51	102	2	0	0 - 0
Chloroethane	50	50	100	1	0	0 - 0
Trichlorofluoromethane	50	50	100	5	0	0 - 0
1,1-Dichloroethene	50	48	96	1	14	61 - 145
1,1,2-Trichloro-1,2,2-trifluoro	50	48	96	4	0	0 - 0
Acetone	100	57	57	3	0	0 - 0
Carbon disulfide	50	42	84	2	0	0 - 0
Methyl acetate	50	49	98	5	0	0 - 0
Methylene chloride	50	48	96	3	0	0 - 0
trans-1,2-Dichloroethene	50	48	96	2	0	0 - 0
Methyl tert-Butyl ether	50	48	96	6	0	0 - 0
1,1-Dichloroethane	50	48	96	4	0	0 - 0
cis-1,2-Dichloroethene	50	51	102	0	0	0 - 0
2-Butanone	100	72	72	6	0	0 - 0
Bromochloromethane	50	49	98	5	0	0 - 0
Chloroform	50	50	100	4	0	0 - 0
1,1,1-Trichloroethane	50	47	94	2	0	0 - 0
Cyclohexane	50	46	92	3	0	0 - 0
Carbon Tetrachloride	50	47	94	3	0	0 - 0
Benzene	50	49	98	3	11	76 - 127
1,2-Dichloroethane	50	50	100	6	0	0 - 0
Trichloroethene	50	48	96	1	14	71 - 120
Methylcyclohexane	50	46	92	2	0	0 - 0
1,2-Dichloropropane	50	49	98	5	0	0 - 0

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ANALYTE	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS %R #	QC Limits %R
Bromodichloromethane	50	48	96	2	0 - 0
cis-1,3-Dichloropropene	50	44	88	6	0 - 0
4-Methyl-2-pentanone	100	98	98	2	0 - 0
Toluene	50	48	96	3	13 76 - 125
trans-1,3-Dichloropropene	50	45	90	1	0 - 0
1,1,2-Trichloroethane	50	49	98	0	0 - 0
Tetrachloroethene	50	47	94	1	0 - 0
2-Hexanone	100	96	96	4	0 - 0
Dibromochloromethane	50	47	94	1	0 - 0
1,2-Dibromoethane	50	48	96	2	0 - 0
Chlorobenzene	50	48	96	1	13 75 - 130
Ethylbenzene	50	48	96	2	0 - 0
o-Xylene	50	48	96	2	0 - 0
m,p-Xylene	50	48	96	1	0 - 0
Styrene	50	50	100	1	0 - 0
Bromoform	50	44	88	1	0 - 0
Isopropylbenzene	50	46	92	0	0 - 0
1,2,3-Trichloropropane	50	48	96	1	0 - 0
1,1,2,2-Tetrachloroethane	50	49	98	2	0 - 0
1,3-Dichlorobenzene	50	46	92	2	0 - 0
1,4-Dichlorobenzene	50	46	92	2	0 - 0
1,2-Dichlorobenzene	50	47	94	1	0 - 0
1,2-Dibromo-3-chloropropane	50	47	94	5	0 - 0
1,2,4-Trimethylbenzene	50	47	94	2	0 - 0
1,3,5-Trimethylbenzene	50	46	92	2	0 - 0
1,2,4-Trichlorobenzene	50	48	96	10	0 - 0
1,2,3-Trichlorobenzene	50	49	98	11	0 - 0