Assay Technology Inc - Sampling Guide

OSP = Organic Solvent Panel. See X525-25AT

 # - Indicates the badge / chemical combination we recommend.

Many of the NIOSH/OSHA methods have been modified. For a list of significant modifications, go to www.assaytech.com.
Information in this table can change without notice.

Chemical	CAS No	Media/Item #	Media Description	Sampling Rate (mL/min)	PEL	STEL	8 hr Rpt Lmt	RL (ug)	Vol (L)	TAT	Method Ref	Test Group	Synonyms	Notes/Comments
1,1,2-Trichloroethane	79-00-5	566AT	566AT Badge	7.58	OSHA 10 PPM		0.10 PPM	2		6	AT L-OV (GC/FID)	OV List A		
1,1,2-Trichloroethane #	79-00-5	546AT #	546AT Badge	1.90	OSHA 10 PPM		0.40 PPM	2		6	AT L-OV (GC/FID)	OV List A		
1,1,2-Trichloroethane	79-00-5	525AT	525AT Badge	57.6	OSHA 10 PPM		0.013 PPM	2		6	AT L-OV (GC/FID)	OV List A		
1,1,2-Trichlorotrifluoroethane #	76-13-1	546AT #	546AT Badge	1.67	OSHA 1000 PPM		0.57 PPM	3.5		6	AT L-OV (GC/FID)	OV List A	CFC 113	
1,1,2-Trichlorotrifluoroethane	76-13-1	566AT	566AT Badge	6.69	OSHA 1000 PPM		0.14 PPM	3.5		6	AT L-OV (GC/FID)	OV List A	CFC 113	
1,1,2-Trichlorotrifluoroethane	76-13-1	525AT	525AT Badge	58.4	OSHA 1000 PPM		0.016 PPM	3.5		6	AT L-OV (GC/FID)	OV List A	CFC 113	
1,1-Dichloroethane	75-34-3	546AT	546AT Badge	2.30	OSHA 100 PPM		0.45 PPM	2		6	AT L-OV (GC/FID)	OV List A		
1,1-Dichloroethane	75-34-3	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 100 PPM		0.010 PPM	2	10	6	AT L-OV (GC/FID)	OV List A		
1,1-Dichloroethane #	75-34-3	566AT #	566AT Badge	9.22	OSHA 100 PPM		0.11 PPM	2		6	AT L-OV (GC/FID)	OV List A		
1,1-Dichloroethane	75-34-3	525AT	525AT Badge	76.4	OSHA 100 PPM		0.013 PPM	2		6	AT L-OV (GC/FID)	OV List A		
1,2,4-Trimethylbenzene	95-63-6	525AT	525AT Badge	59.5			0.0071 PPM	1		6	AT L-OV (GC/FID)	OV List C		Not a OV A chemical. Analyze on with list C chemicals.
1,2,4-Trimethylbenzene #	95-63-6	566AT #	566AT Badge	8.36			0.051 PPM	1		6	AT L-OV (GC/FID)	OV List C		Not a OV A chemical. Analyze on with list C chemicals.
1,2,4-Trimethylbenzene	95-63-6	546AT	546AT Badge	2.09			0.20 PPM	1		6	AT L-OV (GC/FID)	OV List C		Not a OV A chemical. Analyze on with list C chemicals.
1,2,4-Trimethylbenzene	95-63-6	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min			0.0042 PPM	1	10	6	AT L-OV (GC/FID)	OV List C		Not a OV A chemical. Analyze on with list C chemicals.
1,2-Dibromoethane #	106-93-4	566AT #	566AT Badge	6.67			0.12 PPM	3		6	AT L-OV (GC/FID)	OV List A	Ethylene Dibromide	
1,2-Dibromoethane	106-93-4	546AT	546AT Badge	1.67			0.49 PPM	3		6	AT L-OV (GC/FID)	OV List A	Ethylene Dibromide	
1,2-Dibromoethane	106-93-4	525AT	525AT Badge	71.2			0.011 PPM	3		6	AT L-OV (GC/FID)	OV List A	Ethylene Dibromide	
1,2-Dichlorobenzene #	95-50-1	566AT #	566AT Badge	7.55	OSHA 50 PPM	50 PPM	0.046 PPM	1		6	AT L-OV (GC/FID)	OV List B		
1,2-Dichlorobenzene	95-50-1	546AT	546AT Badge	1.89	OSHA 50 PPM	50 PPM	0.18 PPM	1		6	AT L-OV (GC/FID)	OV List B		
1,2-Dichlorobenzene	95-50-1	525AT	525AT Badge	56.5	OSHA 50 PPM	50 PPM	0.0061 PPM	1		6	AT L-OV (GC/FID)	OV List B		
1,2-Dichloroethane	107-06-2	546AT	546AT Badge	2.31	OSHA 50 PPM	OSHA CEILING 100 PPM	0.45 PPM	2		6	AT L-OV (GC/FID)	OV List A	EDC	Sampling rate has been lab verified.
1,2-Dichloroethane #	107-06-2	566AT #	566AT Badge	9.22	OSHA 50 PPM	OSHA CEILING 100 PPM	0.11 PPM	2		6	AT L-OV (GC/FID)	OV List A	EDC	Sampling rate has been lab verified.
1,2-Dichloroethane	107-06-2	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 50 PPM	OSHA CEILING 100 PPM	0.010 PPM	2	10	6	AT L-OV (GC/FID)	OV List A	EDC	
1,2-Dichloroethane	107-06-2	525AT	525AT Badge	63.5	OSHA 50 PPM	OSHA CEILING 100 PPM	0.016 PPM	2		6	AT L-OV (GC/FID)	OV List A	EDC	Sampling rate has been lab verified.
1,2-Dichloroethylene #	540-59-0	546AT #	546AT Badge	2.33	OSHA 200 PPM		0.45 PPM	2		6	AT L-OV (GC/FID)	OV List A	1,2-DCE, 1,2-Dichloroethene	This is a sum of cis-1,2-Dichloroethylene (CAS # 156-59-2) and trans-1,2-Dichloroethylene (CAS # 156-60-5)
1,2-Dichloroethylene	540-59-0	566AT	566AT Badge	9.32	OSHA 200 PPM		0.11 PPM	2		6	AT L-OV (GC/FID)	OV List A	1,2-DCE, 1,2-Dichloroethene	This is a sum of cis-1,2-Dichloroethylene (CAS # 156-59-2) and trans-1,2-Dichloroethylene (CAS # 156-60-5)
1,2-Dichloroethylene	540-59-0	525AT	525AT Badge	75.8	OSHA 200 PPM		0.014 PPM	2		6	AT L-OV (GC/FID)	OV List A	1,2-DCE, 1,2-Dichloroethene	This is a sum of cis-1,2-Dichloroethylene (CAS # 156-59-2) and trans-1,2-Dichloroethylene (CAS # 156-60-5)
1,2-Dichloropropane #	78-87-5	566AT #	566AT Badge	7.98			0.11 PPM	2		6	AT L-OV (GC/FID)	OV List A	Propylene Dichloride	
1,2-Dichloropropane	78-87-5	525AT	525AT Badge	60.8			0.015 PPM	2		6	AT L-OV (GC/FID)	OV List A	Propylene Dichloride	
1,3-Butadiene	106-99-0	546AT	546AT Badge	3.20	OSHA 1 PPM	OSHA STEL 5 PPM	0.18 PPM	0.6		6	AT L-OV (GC/FID)	OV List A		It is not recommended that 1,3-Butadiene be collected on the 521/525 badge.
1,3-Butadiene #	106-99-0	566AT #	566AT Badge	12.8	OSHA 1 PPM	OSHA STEL 5 PPM	0.044 PPM	0.6		6	AT L-OV (GC/FID)	OV List A		It is not recommended that 1,3-Butadiene be collected on the 521/525 badge.
1,3-Butadiene	106-99-0	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 1 PPM	OSHA STEL 5 PPM	0.0057 PPM	0.6	10	6	AT L-OV (GC/FID)	OV List A		It is not recommended that 1,3-Butadiene be collected on the 521/525 badge.
1,3-Butadiene	106-99-0	525AT	525AT Badge	85.1	OSHA 1 PPM	OSHA STEL 5 PPM	0.0066 PPM	0.6		6	AT L-OV (GC/FID)	OV List A		
1,3-Diaminopropane	109-76-2	585AT	585AT Badge	8.60			0.080 PPM	1		10	MOD OSHA 60	Amine		
1,3-Dioxolane	646-06-0	525AT	525AT Badge	70.3			0.0098 PPM	1		6	AT L-OV (GC/FID)	OV List A		
1,3-Dioxolane	646-06-0	566AT	566AT Badge	10.2			0.067 PPM	1		6	AT L-OV (GC/FID)	OV List A		
1,3-Dioxolane	646-06-0	546AT	546AT Badge	2.60			0.26 PPM	1		6	AT L-OV (GC/FID)	OV List A		
1,4-Butanediamine	110-60-1	585AT	585AT Badge	7.87			0.073 PPM	1		10	MOD OSHA 60	Amine		
1,4-Dichlorobenzene #	106-46-7	566AT #	566AT Badge	7.55	OSHA 75 PPM		0.046 PPM	1		6	AT L-OV (GC/FID)	OV List B	p-Dichlorobenzene	
1,4-Dichlorobenzene	106-46-7	546AT	546AT Badge	1.89	OSHA 75 PPM		0.18 PPM	1		6	AT L-OV (GC/FID)	OV List B	p-Dichlorobenzene	
1,4-Dichlorobenzene	106-46-7	525AT	525AT Badge	56.5	OSHA 75 PPM		0.0061 PPM	1		6	AT L-OV (GC/FID)	OV List B	p-Dichlorobenzene	
1,4-Dioxane	123-91-1	546AT	546AT Badge	2.44	OSHA 100 PPM	NIOSH CEILING 1 PPM	0.47 PPM	2		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
1,4-Dioxane	123-91-1	566AT	566AT Badge	9.77	OSHA 100 PPM	NIOSH CEILING 1 PPM	0.12 PPM	2		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
1,4-Dioxane	123-91-1	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 100 PPM	NIOSH CEILING 1 PPM	0.012 PPM	2	10	6	AT L-OV (GC/FID)	OV List A		
1,4-Dioxane #	123-91-1	525AT #	525AT Badge	60.1	OSHA 100 PPM	NIOSH CEILING 1 PPM	0.019 PPM	2		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
1,5-Diaminopentane	462-94-2	585AT	585AT Badge	7.29			0.068 PPM	1		10	MOD OSHA 60	Amine		
1-Methyl-2-Pyrrolidinone	872-50-4	546AT	546AT Badge	2.33	CAL 1 PPM		2.4 PPM	11		6	AT L-OV (GC/FID)	OV List B	NMP, N-Methyl-2-Pyrrolidone	
1-Methyl-2-Pyrrolidinone	872-50-4	566AT	566AT Badge	9.31	CAL 1 PPM		0.61 PPM	11		6	AT L-OV (GC/FID)	OV List B	NMP, N-Methyl-2-Pyrrolidone	
1-Methyl-2-Pyrrolidinone	872-50-4	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	CAL 1 PPM		0.057 PPM	11	10	6	AT L-OV (GC/FID)	OV List B	NMP, N-Methyl-2-Pyrrolidone	
1-Methyl-2-Pyrrolidinone #	872-50-4	525AT #	525AT Badge	63.9	CAL 1 PPM		0.088 PPM	11		6	AT L-OV (GC/FID)	OV List B	NMP, N-Methyl-2-Pyrrolidone	
1-Propanol	71-23-8	525AT	525AT Badge	82.5	OSHA 200 PPM	NIOSH CEILING 250 PPM	0.016 PPM	1.6		6	AT L-OV (GC/FID)	OV List A	n-Propanol, Propyl Alcohol	
1-Propanol	71-23-8	566AT	566AT Badge	11.8	OSHA 200 PPM	NIOSH CEILING 250 PPM	0.11 PPM	1.6		6	AT L-OV (GC/FID)	OV List A	n-Propanol, Propyl Alcohol	
1-Propanol #	71-23-8	546AT #	546AT Badge	2.96	OSHA 200 PPM	NIOSH CEILING 250 PPM	0.46 PPM	1.6		6	AT L-OV (GC/FID)	OV List A	n-Propanol, Propyl Alcohol	
1-Propanol	71-23-8	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 200 PPM	NIOSH CEILING 250 PPM	0.014 PPM	1.6	10	6	AT L-OV (GC/FID)	OV List A	n-Propanol, Propyl Alcohol	
2,2,3,3-Tetramethylsuccinonitrile	3333-52-6	525AT	525AT Badge	57.3			0.020 PPM	3		10	AT L-OV	OV List		
2,2,4-Trimethylpentane	540-84-1	525AT	525AT Badge	44.7			0.030 PPM	3		6	AT L-OV (GC/FID)	OV List A	IsoOctane	
2,2,4-Trimethylpentane	540-84-1	566AT	566AT Badge	8.60			0.16 PPM	3		6	AT L-OV (GC/FID)	OV List A	IsoOctane	
2,2,4-Trimethylpentane	540-84-1	546AT	546AT Badge	2.21			0.60 PPM	3		6	AT L-OV (GC/FID)	OV List A	IsoOctane	
2,2-Dimethylbutane	75-83-2	566AT	566AT Badge	9.90			0.12 PPM	2		10	AT L-OV (GC/FID)	Hexane Isomers		
2,3-Dimethylbutane	79-29-8	566AT	566AT Badge	9.90			0.12 PPM	2		10	AT L-OV (GC/FID)	Hexene Isomers		
2,4-TDI	584-84-9	J5-9002	Cassette, GFF w/ 1,-PP	1.0 L/min		OSHA CEILING 0.02 PPM	0.000029 PPM	0.1	240	10	MOD OSHA 42	Isocyanates	Toluene-2,4-Diisocyanate	Sample openface (See method)
2,6-Dichloropyridine	2402-78-0	525AT	525AT Badge	55.8			0.0062 PPM	1		10	AT L-OV (GC/FID)	Phenoxy		
2,6-Dichloropyridine	2402-78-0	566AT	566AT Badge	7.50			0.046 PPM	1		10	AT L-OV (GC/FID)	Phenoxy		
2,6-TDI	91-08-7	J5-9002	Cassette, GFF w/ 1,-PP	1.0 L/min			0.000015 PPM	0.05	240	10	MOD OSHA 42	Isocyanates	Toluene-2,6-Diisocyanate	Sample openface (See method)
2-Butanol	78-92-2	546AT	546AT Badge	2.67	OSHA 150 PPM	NIOSH STEL 150 PPM	0.18 PPM	0.7		6	AT L-OV (GC/FID)	OV List A	sec-Butyl Alcohol	
2-Butanol #	78-92-2	566AT #	566AT Badge	10.7	OSHA 150 PPM	NIOSH STEL 150 PPM	0.045 PPM	0.7		6	AT L-OV (GC/FID)	OV List A	sec-Butyl Alcohol	
2-Butoxyethanol	111-76-2	546AT	546AT Badge	2.11	OSHA 50 PPM		1.0 PPM	5		6	AT L-OV (GC/FID)	OV List A	Butyl Cellosolve	Sampling rate has been lab verified.
2-Butoxyethanol #	111-76-2	566AT #	566AT Badge	8.43	OSHA 50 PPM		0.26 PPM	5		6	AT L-OV (GC/FID)	OV List A	Butyl Cellosolve	Sampling rate has been lab verified.
2-Butoxyethanol	111-76-2	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 50 PPM		0.022 PPM	5	10	6	AT L-OV (GC/FID)	OV List A	Butyl Cellosolve	
2-Butoxyethanol	111-76-2	525AT	525AT Badge	52.7	OSHA 50 PPM		0.041 PPM	5		6	AT L-OV (GC/FID)	OV List A	Butyl Cellosolve	Sampling rate has been lab verified.
2-Ethoxyethanol	110-80-5	546AT	546AT Badge	2.42	OSHA 200 PPM		0.47 PPM	2		6	AT L-OV (GC/FID)	OV List A	Cellosolve	
2-Ethoxyethanol #	110-80-5	566AT #	566AT Badge	9.66	OSHA 200 PPM		0.12 PPM	2		6	AT L-OV (GC/FID)	OV List A	Cellosolve	
2-Ethoxyethanol	110-80-5	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 200 PPM		0.011 PPM	2	10	6	AT L-OV (GC/FID)	OV List A	Cellosolve	
2-Ethoxyethanol	110-80-5	525AT	525AT Badge	65.5	OSHA 200 PPM		0.017 PPM	2		6	AT L-OV (GC/FID)	OV List A	Cellosolve	
2-Ethyl-1-Hexylamine	104-75-6	585AT	585AT Badge	6.46			0.18 PPM	3		10	MOD OSHA 60	Amine		
2-Ethylacrolein	922-63-4	592AT	592AT Badge	8.10			0.037 PPM	0.5		10	MOD OSHA 52	Acrolein		
2-Heptanone	110-43-0	546AT	546AT Badge	2.14	OSHA 100 PPM		0.15 PPM	0.7		6	AT L-OV (GC/FID)	OV List A	Methyl amyl Ketone	
2-Heptanone #	110-43-0	566AT #	566AT Badge	8.58	OSHA 100 PPM		0.036 PPM	0.7		6	AT L-OV (GC/FID)	OV List A	Methyl amyl Ketone	
2-Heptanone	110-43-0	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 100 PPM		0.0031 PPM	0.7	10	6	AT L-OV (GC/FID)	OV List A	Methyl amyl Ketone	
2-Heptanone	110-43-0	525AT	525AT Badge	53.6	OSHA 100 PPM		0.0058 PPM	0.7		6	AT L-OV (GC/FID)	OV List A	Methyl amyl Ketone	
2-Hexanone #	591-78-6	566AT #	566AT Badge	9.16	OSHA 100 PPM		0.028 PPM	0.5		6	AT L-OV (GC/FID)	OV List A	MBK, Methyl Butyl Ketone	
2-Hexanone	591-78-6	546AT	546AT Badge	2.29	OSHA 100 PPM		0.11 PPM	0.5		6	AT L-OV (GC/FID)	OV List A	MBK, Methyl Butyl Ketone	
2-Hexanone	591-78-6	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 100 PPM		0.0025 PPM	0.5	10	6	AT L-OV (GC/FID)	OV List A	MBK, Methyl Butyl Ketone	
2-Hexanone	591-78-6	525AT	525AT Badge	78.8	OSHA 100 PPM		0.0032 PPM	0.5		6	AT L-OV (GC/FID)	OV List A	MBK, Methyl Butyl Ketone	
2-Methoxyethanol #	109-86-4	566AT #	566AT Badge	10.5	OSHA 25 PPM		0.14 PPM	2.2		6	AT L-OV (GC/FID)	OV List A	Methyl Cellosolve	
2-Methoxyethanol	109-86-4	546AT	546AT Badge	2.63	OSHA 25 PPM		0.56 PPM	2.2		6	AT L-OV (GC/FID)	OV List A	Methyl Cellosolve	
2-Methoxyethanol	109-86-4	525AT	525AT Badge	59.4	OSHA 25 PPM		0.025 PPM	2.2		6	AT L-OV (GC/FID)	OV List A	Methyl Cellosolve	
2-Methoxyethyl Acetate #	110-49-6	566AT #	566AT Badge	8.00	OSHA 25 PPM		0.27 PPM	5		6	AT L-OV (GC/FID)	OV List A	Ethylene glycol monomethyl ether acetate	
2-Methoxyethyl Acetate	110-49-6	546AT	546AT Badge	2.00	OSHA 25 PPM		1.1 PPM	5		6	AT L-OV (GC/FID)	OV List A	Ethylene glycol monomethyl ether acetate	
2-Methoxyethyl Acetate	110-49-6	525AT	525AT Badge	59.9	OSHA 25 PPM		0.036 PPM	5		6	AT L-OV (GC/FID)	OV List A	Ethylene glycol monomethyl ether acetate	
2-Methylpentane	107-83-5	566AT	566AT Badge	9.90			0.12 PPM	2		6	AT L-OV (GC/FID)	Hexane Isomers		

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Information in this table can change without notice.

Chemical	CAS No	Media/Item #	Media Description	Sampling Rate (mL/min)	PEL	STEL	8 hr Rpt Lmt	RL (ug)	Vol (L)	TAT	Method Ref	Test Group	Synonyms	Notes/Comments
2-Methylpentane	107-83-5	546AT	546AT Badge	2.50			0.47 PPM	2		6	AT L-OV (GC/FID)	OV List B		
2-Pentanone #	107-87-9	546AT #	546AT Badge	2.47	OSHA 200 PPM		0.17 PPM	0.7		6	AT L-OV (GC/FID)	OV List A	Methyl Propyl Ketone	
2-Pentanone	107-87-9	566AT	566AT Badge	9.89	OSHA 200 PPM		0.042 PPM	0.7		6	AT L-OV (GC/FID)	OV List A	Methyl Propyl Ketone	
2-Pentanone	107-87-9	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 200 PPM		0.0041 PPM	0.7	10	6	AT L-OV (GC/FID)	OV List A	Methyl Propyl Ketone	
2-Pentanone	107-87-9	525AT	525AT Badge	66.6	OSHA 200 PPM		0.0062 PPM	0.7		6	AT L-OV (GC/FID)	OV List A	Methyl Propyl Ketone	
3-Methylpentane	96-14-0	566AT	566AT Badge	9.90			0.12 PPM	2		10	AT L-OV (GC/FID)	Hexane Isomers		
3-Methylpentane	96-14-0	525AT	525AT Badge	66.6			0.018 PPM	2		10	AT L-OV (GC/FID)			
4,4-MDI	101-68-8	J5-9002	Cassette, GFF w/ 1,-PP	1.0 L/min	NIOSH 0.005 PPM	OSHA CEILING 0.02 PPM	0.000081 PPM	0.4	240	10	MOD OSHA 47	Isocyanates	Methylene Bisphenyl Isocyanate	Sample openface (See method)
4-Phenyl Cyclohexene #	4994-16-5	546AT #	546AT Badge	1.82			0.53 PPM	3		6	AT L-OV (GC/FID)	OV List A	Rug Odor	
4-Phenyl Cyclohexene	4994-16-5	566AT	566AT Badge	7.28			0.13 PPM	3		6	AT L-OV (GC/FID)	OV List A	Rug Odor	
4-Phenyl Cyclohexene	4994-16-5	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min			0.0097 PPM	3	10	6	AT L-OV (GC/FID)	OV List A	Rug Odor	
4-Phenyl Cyclohexene	4994-16-5	525AT	525AT Badge	54.6			0.018 PPM	3		6	AT L-OV (GC/FID)	OV List A	Rug Odor	This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide.
4-Vinylcyclohexene	100-40-3	546AT	546AT Badge	2.20			0.064 PPM	0.3		6	AT L-OV (GC/FID)	OV List A	4-Vinyl-1-cyclohexene	
4-Vinylcyclohexene	100-40-3	566AT	566AT Badge	8.80			0.016 PPM	0.3		6	AT L-OV (GC/FID)	OV List A	4-Vinyl-1-cyclohexene	
4-Vinylcyclohexene #	100-40-3	525AT #	525AT Badge	61.6			0.0023 PPM	0.3		6	AT L-OV (GC/FID)	OV List A	4-Vinyl-1-cyclohexene	
Acetaldehyde #	75-07-0	571AT #	571AT Badge	11.7	OSHA 200 PPM	25 PPM	0.030 PPM	0.3		10	MOD EPA TO-11	Aldehyde		Sampling rate has been lab verified.
Acetaldehyde	75-07-0	581AT	581AT Badge	84.7	OSHA 200 PPM	25 PPM	0.0041 PPM	0.3		10	MOD EPA TO-11	Aldehyde		
Acetic Acid	64-19-7	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 10 PPM		0.025 PPM	3	24	6	OSHA PV2119 MODIFIED	Acetic Acid	Propenal	
Acetic Acid #	64-19-7	543AT #	543AT Badge	11.0	OSHA 10 PPM		0.23 PPM	3		6	OSHA PV2119 MODIFIED	Acetic Acid	Propenal	Charcoal media encased in PTFE (eg AT 566, 546, and 525) can be used with a GC method like NIOSH 1603, but not with a ion chromatograph like the partialy validated OSHA method 2119 or 186SG. Sampling rate has been lab verified.
Acetone #	67-64-1	546AT #	546AT Badge	3.23	OSHA 1000 PPM		0.54 PPM	2		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Acetone	67-64-1	566AT	566AT Badge	12.9	OSHA 1000 PPM		0.14 PPM	2		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Acetone	67-64-1	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 1000 PPM		0.018 PPM	2	10	6	AT L-OV (GC/FID)	OV List A		
Acetone	67-64-1	525AT	525AT Badge	87.2	OSHA 1000 PPM		0.020 PPM	2		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide. Sampling rate has been lab verified.
Acetonitrile	75-05-8	546AT	546AT Badge	3.48	OSHA 40 PPM		0.50 PPM	1.4		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Acetonitrile #	75-05-8	566AT #	566AT Badge	13.9	OSHA 40 PPM		0.12 PPM	1.4		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Acetonitrile	75-05-8	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 40 PPM		0.017 PPM	1.4	10	6	AT L-OV (GC/FID)	OV List A		
Acetonitrile	75-05-8	525AT	525AT Badge	98.3	OSHA 40 PPM		0.018 PPM	1.4		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Acetophenone	98-86-2	566AT	566AT Badge	8.00			0.26 PPM	5		6	AT L-OV (GC/FID)	OV List B		
Acrolein #	107-02-8	592AT #	592AT Badge	8.56	OSHA 0.1 PPM		0.053 PPM	0.5		10	MOD OSHA 52	Acrolein		Sampling rate has been lab verified.
Acrolein	107-02-8	J6-117	Tube, XAD-2 (2-HMP) 75-1150mg Tube		OSHA 0.1 PPM			0.5		10	MOD OSHA 52	Acrolein		
Acrylonitrile	107-13-1	546AT	546AT Badge	3.23	OSHA 2 PPM	OSHA CEILING 10 PPM	0.30 PPM	1		6	MOD NIOSH 1604	OV List A		
Acrylonitrile	107-13-1	566AT	566AT Badge	12.9	OSHA 2 PPM	OSHA CEILING 10 PPM	0.074 PPM	1		6	MOD NIOSH 1604	OV List A		
Acrylonitrile	107-13-1	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 2 PPM	OSHA CEILING 10 PPM	0.0096 PPM	1	20	6	MOD NIOSH 1604	OV List A		
Acrylonitrile #	107-13-1	525AT #	525AT Badge	88.0	OSHA 2 PPM	OSHA CEILING 10 PPM	0.011 PPM	1		6	MOD NIOSH 1604	OV List A		
Allyl Alcohol	107-18-6	546AT	546AT Badge	3.01	OSHA 2 PPM	NIOSH CEILING 4 PPM	0.26 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Allyl Alcohol	107-18-6	566AT	566AT Badge	12.1	OSHA 2 PPM	NIOSH CEILING 4 PPM	0.065 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Allyl Alcohol #	107-18-6	525AT #	525AT Badge	84.8	OSHA 2 PPM	NIOSH CEILING 4 PPM	0.0093 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Allyl Chloride	107-05-1	546AT	546AT Badge	2.62	OSHA 2 PPM		0.28 PPM	1.1		6	AT L-OV (GC/FID)	OV List A		
Allyl Chloride	107-05-1	566AT	566AT Badge	10.5	OSHA 2 PPM		0.070 PPM	1.1		6	AT L-OV (GC/FID)	OV List A		
Allyl Chloride #	107-05-1	525AT #	525AT Badge	84.8	OSHA 2 PPM		0.0086 PPM	1.1		6	AT L-OV (GC/FID)	OV List A		
Alpha-Pinene	80-56-8	546AT	546AT Badge	1.96			0.15 PPM	0.8		6	AT L-OV (GC/FID)	OV List C		
Alpha-Pinene #	80-56-8	566AT #	566AT Badge	7.86			0.038 PPM	0.8		6	AT L-OV (GC/FID)	OV List C		
Alpha-Pinene	80-56-8	525AT	525AT Badge	57.2			0.0052 PPM	0.8		6	AT L-OV (GC/FID)	OV List C		
Aluminum	7429-90-5	JS37MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 15 MG/M3		0.0021 MG/M3	2	1000	6	MOD OSHA ID 125G	ICP		
Aluminum	7429-90-5	J5-024 SMR TAB	Smear Tab		OSHA 15 MG/M3			2		6	MOD OSHA ID 125G	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Aluminum Chloride	7446-70-0	J5-024 SMR TAB	Smear Tab					5		6	MOD OSHA ID 125G	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Aluminum Chloride	7446-70-0	JS37MCE208	Cassette, MCE Cassette	2.0 L/min			0.0052 MG/M3	5	1000	6	MOD OSHA ID 125G	ICP		
Ammonia #	7664-41-7	584AT #	584AT Badge	28.8	OSHA 50 PPM		0.31 PPM	3		10	MOD OSHA ID 188	Ammonia		Sampling rate has been lab verified.
Amyl Acetate #	628-63-7	566AT #	566AT Badge	8.03	OSHA 100 PPM		0.044 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Amyl Acetate	628-63-7	546AT	546AT Badge	2.01	OSHA 100 PPM		0.18 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Antimony	7440-36-0	J5-024 SMR TAB	Smear Tab		OSHA 0.5 MG/M3			0.5		6	MOD OSHA ID 125G	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Antimony	7440-36-0	JS37MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 0.5 MG/M3		0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125G	ICP		
Arsenic	7440-38-2	J5-025 G WIPE	Ghost Wipe		OSHA 0.01 MG/M3	NIOSH CEILING 0.002 MG/M3		0.5		6	MOD OSHA ID 125G	ICP		J8109K: J5-025 + J8054 (Ghost wipe with Vial). Ghost wipes are pre-moistened with DI water. Additional DI water is not necessary
Arsenic	7440-38-2	J5-024 SMR TAB	Smear Tab		OSHA 0.01 MG/M3	NIOSH CEILING 0.002 MG/M3		0.5		6	MOD OSHA ID 125G	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Arsenic	7440-38-2	JS37MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 0.01 MG/M3	NIOSH CEILING 0.002 MG/M3	0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125G	ICP		
Barium	7440-39-3	J5-024 SMR TAB	Smear Tab		NIOSH 0.5 MG/M3			0.05		6	MOD OSHA ID 125G	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Barium	7440-39-3	JS37MCE208	Cassette, MCE Cassette	2.0 L/min	NIOSH 0.5 MG/M3		0.000052 MG/M3	0.05	1000	6	MOD OSHA ID 125G	ICP		
Benzaldehyde #	100-52-7	571AT #	571AT Badge	6.97			0.021 PPM	0.3		10	MOD EPA TO-11	Aldehyde	Benzal	
Benzaldehyde	100-52-7	581AT	581AT Badge	65.8			0.0022 PPM	0.3		10	MOD EPA TO-11	Aldehyde	Benzal	
Benzene	71-43-2	546AT	546AT Badge	2.42	OSHA 1 PPM	OSHA STEL 5 PPM	0.11 PPM	0.4		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Benzene	71-43-2	566AT	566AT Badge	9.69	OSHA 1 PPM	OSHA STEL 5 PPM	0.027 PPM	0.4		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Benzene	71-43-2	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 1 PPM	OSHA STEL 5 PPM	0.0026 PPM	0.4	10	6	AT L-OV (GC/FID)	OV List A		
Benzene #	71-43-2	525AT #	525AT Badge	76.7	OSHA 1 PPM	OSHA STEL 5 PPM	0.0034 PPM	0.4		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide. Sampling rate has been lab verified.
Benzyl Alcohol #	100-51-6	566AT #	566AT Badge	8.50			0.28 PPM	5		6	AT L-OV (GC/FID)	Phenoxy		
Benzyl Alcohol	100-51-6	546AT	546AT Badge	2.13			1.1 PPM	5		6	AT L-OV (GC/FID)	Phenoxy		
Benzyl Alcohol	100-51-6	525AT	525AT Badge	65.4			0.036 PPM	5		6	AT L-OV (GC/FID)	Phenoxy		
Benzyl Chloride	100-44-7	546AT	546AT Badge	2.03	OSHA 1 PPM	NIOSH CEILING 1 PPM	0.20 PPM	1		6	AT L-OV (GC/FID)	OV List B		
Benzyl Chloride	100-44-7	566AT	566AT Badge	8.14	OSHA 1 PPM	NIOSH CEILING 1 PPM	0.049 PPM	1		6	AT L-OV (GC/FID)	OV List B		
Benzyl Chloride	100-44-7	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 1 PPM	NIOSH CEILING 1 PPM	0.0040 PPM	1	10	6	AT L-OV (GC/FID)	OV List B		
Benzyl Chloride #	100-44-7	525AT #	525AT Badge	59.2	OSHA 1 PPM	NIOSH CEILING 1 PPM	0.0068 PPM	1		6	AT L-OV (GC/FID)	OV List B		
Beryllium	7440-41-7	J5-024 SMR TAB	Smear Tab		OSHA 0.002 MG/M3	OSHA CEILING 0.005 MG/M3		0.05		6	MOD OSHA ID 125G	ICP		Does not include Beryllium Oxide. Contact Customer Service for Beryllium Oxide Testing. Order Kit J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Beryllium	7440-41-7	J5-025 G WIPE	Ghost Wipe		OSHA 0.002 MG/M3	OSHA CEILING 0.005 MG/M3		0.05		6	MOD OSHA ID 125G	ICP		Does not include Beryllium Oxide. Contact Customer Service for Beryllium Oxide Testing. J8109K: J5-025 + J8054 (Ghost wipe with Vial). Ghost wipes are pre-moistened with DI water. Additional DI water is not necessary
Beryllium	7440-41-7	JS37MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 0.002 MG/M3	OSHA CEILING 0.005 MG/M3	0.000052 MG/M3	0.05	1000	6	MOD OSHA ID 125G	ICP		
Beta-Pinene	127-91-3	546AT	546AT Badge	1.96			0.15 PPM	0.8		6	AT L-OV (GC/FID)	OV List C		
Beta-Pinene #	127-91-3	566AT #	566AT Badge	7.86			0.038 PPM	0.8		6	AT L-OV (GC/FID)	OV List C		
Beta-Pinene	127-91-3	525AT	525AT Badge	57.2			0.0052 PPM	0.8		6	AT L-OV (GC/FID)	OV List C		
Boron	7440-42-8	J5-024 SMR TAB	Smear Tab					0.5		6	MOD OSHA ID 125G	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Boron	7440-42-8	JS37MCE208	Cassette, MCE Cassette	2.0 L/min			0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125G	ICP		

Assay Technology Inc - Sampling Guide

OSP = Organic Solvent Panel. See X525-25AT

 # - Indicates the badge / chemical combination we recommend.

Many of the NIOSH/OSHA methods have been modified. For a list of significant modifications, go to www.assaytech.com.
Information in this table can change without notice.

Chemical	CAS No	Media/Item #	Media Description	Sampling Rate (mL/min)	PEL	STEL	8 hr Rpt Lmt	RL (ug)	Vol (L)	TAT	Method Ref	Test Group	Synonyms	Notes/Comments
Bromine	7726-95-6	J5-9006	Cassette, PTFE Ag membrane	1.0 L/min	OSHA 0.1 PPM		0.0016 PPM	5	360	6	MOD NIOSH 6011	Halogen		
Butyl Acrylate	141-32-2	546AT	546AT Badge	2.03			0.26 PPM	1.3		6	AT L-OV (GC/FID)	OV List A		
Butyl Acrylate	141-32-2	566AT	566AT Badge	8.10			0.064 PPM	1.3		6	AT L-OV (GC/FID)	OV List A		
Butyl Acrylate #	141-32-2	525AT #	525AT Badge	58.4			0.0088 PPM	1.3		6	AT L-OV (GC/FID)	OV List A		
Butyl Glycidyl Ether #	2426-08-6	566AT #	566AT Badge	7.70	OSHA 50 PPM	NIOSH CEILING 5.6 PPM	0.051 PPM	1		6	AT L-OV (GC/FID)	OV List B		
Butyl Glycidyl Ether	2426-08-6	546AT	546AT Badge	1.92	OSHA 50 PPM	NIOSH CEILING 5.6 PPM	0.20 PPM	1		6	AT L-OV (GC/FID)	OV List B		
Butyl Glycidyl Ether	2426-08-6	525AT	525AT Badge	58.1	OSHA 50 PPM	NIOSH CEILING 5.6 PPM	0.0067 PPM	1		6	AT L-OV (GC/FID)	OV List B		
Butyl Methacrylate	97-88-1	525AT	525AT Badge	56.5			0.0082 PPM	1.3		6	AT L-OV (GC/FID)	OV List A		
Butyl Methacrylate	97-88-1	566AT	566AT Badge	7.37			0.063 PPM	1.3		6	AT L-OV (GC/FID)	OV List A		
Butylamine #	109-73-9	585AT #	585AT Badge	7.04	OSHA 5 PPM		0.049 PPM	0.5		10	MOD OSHA 60	Amine		Sampling rate has been lab verified.
Butyraldehyde #	123-72-8	571AT #	571AT Badge	8.20			0.026 PPM	0.3		10	MOD EPA TO-11	Aldehyde	Butanal	
Butyraldehyde	123-72-8	J6-119	Tube, Silica Gel-DNPH Tube	0.10 L/min			0.021 PPM	3	30	10	MOD EPA TO-11	Aldehyde	Butanal	
Butyraldehyde	123-72-8	581AT	581AT Badge	70.8			0.0030 PPM	0.3		10	MOD EPA TO-11	Aldehyde	Butanal	
Cadmium	7440-43-9	J5-025 G WIPE	Ghost Wipe		OSHA 0.005 MG/M3			0.05		6	MOD OSHA ID 125G	ICP		J8109K: J5-025 + J8054 (Ghost wipe with Vial). Ghost wipes are pre-moistened with DI water. Additional DI water is not necessary
Cadmium	7440-43-9	J5-024 SMR TAB	Smear Tab		OSHA 0.005 MG/M3			0.05		6	MOD OSHA ID 125G	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Cadmium	7440-43-9	JS37MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 0.005 MG/M3		0.000052 MG/M3	0.05	1000	6	MOD OSHA ID 125G	ICP		
Calcium	7440-70-2	J5-024 SMR TAB	Smear Tab					10		6	MOD OSHA ID 125G	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Calcium	7440-70-2	JS37MCE208	Cassette, MCE Cassette	2.0 L/min			0.0021 MG/M3	2	1000	6	MOD OSHA ID 125G	ICP		
Camphor	76-22-2	546AT	546AT Badge	1.61	OSHA 2 MG/M3		0.12 PPM	0.6		6	AT L-OV (GC/FID)	OV List B		
Camphor	76-22-2	566AT	566AT Badge	6.43	OSHA 2 MG/M3		0.031 PPM	0.6		6	AT L-OV (GC/FID)	OV List B		
Camphor #	76-22-2	525AT #	525AT Badge	47.7	OSHA 2 MG/M3		0.0042 PPM	0.6		6	AT L-OV (GC/FID)	OV List B		
Carbon Black	1333-86-4	JS37PVCPW250	Cassette, PVC Pre-wt Cassette	2.0 L/min	OSHA 3.5 MG/M3		0.021 MG/M3	20	1000	6	MOD NIOSH 5000	Gravimetric		
Carbon Tetrachloride	56-23-5	546AT	546AT Badge	1.85	OSHA 10 PPM	OSHA CEILING 25 PPM	0.90 PPM	5		6	AT L-OV (GC/FID)	OV List A	Tetrachloromethane	
Carbon Tetrachloride	56-23-5	566AT	566AT Badge	7.38	OSHA 10 PPM	OSHA CEILING 25 PPM	0.22 PPM	5		6	AT L-OV (GC/FID)	OV List A	Tetrachloromethane	
Carbon Tetrachloride	56-23-5	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 10 PPM	OSHA CEILING 25 PPM	0.017 PPM	5	10	6	AT L-OV (GC/FID)	OV List A	Tetrachloromethane	
Carbon Tetrachloride #	56-23-5	525AT #	525AT Badge	68.9	OSHA 10 PPM	OSHA CEILING 25 PPM	0.024 PPM	5		6	AT L-OV (GC/FID)	OV List A	Tetrachloromethane	
Chlorine	7782-50-5	J5-9006	Cassette, PTFE Ag membrane	1.0 L/min		OSHA CEILING 1 PPM	0.0014 PPM	2	360	6	MOD NIOSH 6011	Halogen		
Chlorobenzene	108-90-7	546AT	546AT Badge	2.16	OSHA 75 PPM		0.13 PPM	0.6		6	AT L-OV (GC/FID)	OV List A		
Chlorobenzene #	108-90-7	566AT #	566AT Badge	8.64	OSHA 75 PPM		0.031 PPM	0.6		6	AT L-OV (GC/FID)	OV List A		
Chlorobenzene	108-90-7	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 75 PPM		0.0027 PPM	0.6	10	6	AT L-OV (GC/FID)	OV List A		
Chlorobenzene	108-90-7	525AT	525AT Badge	62.2	OSHA 75 PPM		0.0044 PPM	0.6		6	AT L-OV (GC/FID)	OV List A		
Chloroform	67-66-3	546AT	546AT Badge	2.10		OSHA CEILING 50 PPM	0.61 PPM	3		6	AT L-OV (GC/FID)	OV List A	Trichloromethane	Sampling rate has been lab verified.
Chloroform	67-66-3	566AT	566AT Badge	8.39		OSHA CEILING 50 PPM	0.15 PPM	3		6	AT L-OV (GC/FID)	OV List A	Trichloromethane	Sampling rate has been lab verified.
Chloroform	67-66-3	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min		OSHA CEILING 50 PPM	0.013 PPM	3	10	6	AT L-OV (GC/FID)	OV List A	Trichloromethane	
Chloroform #	67-66-3	525AT #	525AT Badge	73.9		OSHA CEILING 50 PPM	0.017 PPM	3		6	AT L-OV (GC/FID)	OV List A	Trichloromethane	This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide. Sampling rate has been lab verified.
Chromium	7440-47-3	J5-025 G WIPE	Ghost Wipe		OSHA 1 MG/M3			0.05		6	MOD OSHA ID 125G	ICP		J8109K: J5-025 + J8054 (Ghost wipe with Vial). Ghost wipes are pre-moistened with DI water. Additional DI water is not necessary
Chromium	7440-47-3	J5-024 SMR TAB	Smear Tab		OSHA 1 MG/M3			0.5		6	MOD OSHA ID 125G	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Chromium	7440-47-3	JS37MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 1 MG/M3		0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125G	ICP		
Chromium Hexavalent Ion	18540-29-9	JS37PVC250	Cassette, PVC Cassette	2.0 L/min	OSHA 0.005 MG/M3	OSHA CEILING 0.1 MG/M3			960	10	MOD OSHA 215	Subcontract		For OSHA 215: Samples collected on PVC filters from welding operations must be submitted within 8 days of sampling. Samples collected on PVC filters from chromium plating operations must be submitted within 6 days of sampling. WIPES: Use dry PVC filters for wipes. Open cassette and wipe with PVC filter.
Cobalt	7440-48-4	J5-024 SMR TAB	Smear Tab		OSHA 0.1 MG/M3			0.2		6	MOD OSHA ID 125G	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Cobalt	7440-48-4	JS37MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 0.1 MG/M3		0.000052 MG/M3	0.05	1000	6	MOD OSHA ID 125G	ICP		
Copper	7440-50-8	J5-024 SMR TAB	Smear Tab		OSHA 0.1 MG/M3			0.5		6	MOD OSHA ID 125G	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Copper	7440-50-8	JS37MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 0.1 MG/M3		0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125G	ICP		
Cresol, Total	1319-77-3	J6-095	Tube, XAD-7 50-1100mg Tube	0.10 L/min			0.0047 PPM	1	24	10	MOD OSHA 32	Phenol		
Cresol, Total	1319-77-3	596AT	596AT Badge	86.2			0.027 PPM	5		10	MOD OSHA 32	Phenol		
Crotonaldehyde #	4170-30-3	571AT #	571AT Badge	8.59	OSHA 2 PPM		0.0042 PPM	0.05		10	MOD EPA TO-11	Aldehyde		
Crotonaldehyde	4170-30-3	581AT	581AT Badge	71.5	OSHA 2 PPM		0.00051 PPM	0.05		10	MOD EPA TO-11	Aldehyde		
Cumene	98-82-8	546AT	546AT Badge	2.09			0.10 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		
Cumene #	98-82-8	566AT #	566AT Badge	8.36			0.025 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		
Cumene	98-82-8	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min			0.0021 PPM	0.5	10	6	AT L-OV (GC/FID)	OV List A		
Cumene	98-82-8	525AT	525AT Badge	54.6			0.0039 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		
Cyclohexane #	110-82-7	546AT #	546AT Badge	2.21	OSHA 300 PPM		0.16 PPM	0.6		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Cyclohexane	110-82-7	566AT	566AT Badge	8.82	OSHA 300 PPM		0.041 PPM	0.6		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Cyclohexane	110-82-7	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 300 PPM		0.0036 PPM	0.6	10	6	AT L-OV (GC/FID)	OV List A		
Cyclohexane	110-82-7	525AT	525AT Badge	59.9	OSHA 300 PPM		0.0061 PPM	0.6		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Cyclohexanol	108-93-0	546AT	546AT Badge	2.29	OSHA 50 PPM		0.16 PPM	0.7		6	AT L-OV (GC/FID)	OV List A		
Cyclohexanol #	108-93-0	566AT #	566AT Badge	9.16	OSHA 50 PPM		0.039 PPM	0.7		6	AT L-OV (GC/FID)	OV List A		
Cyclohexanol	108-93-0	525AT	525AT Badge	56.7	OSHA 50 PPM		0.0063 PPM	0.7		6	AT L-OV (GC/FID)	OV List A		
Cyclohexanone	108-94-1	546AT	546AT Badge	2.34	OSHA 50 PPM		0.13 PPM	0.6		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Cyclohexanone #	108-94-1	566AT #	566AT Badge	9.37	OSHA 50 PPM		0.033 PPM	0.6		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Cyclohexanone	108-94-1	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 50 PPM		0.0031 PPM	0.6	10	6	AT L-OV (GC/FID)	OV List A		
Cyclohexanone	108-94-1	525AT	525AT Badge	66.8	OSHA 50 PPM		0.0047 PPM	0.6		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide. Sampling rate has been lab verified.
Cyclohexylamine #	108-91-8	585AT #	585AT Badge	7.41			0.035 PPM	0.5		10	MOD OSHA 60	Amine		Sampling rate has been lab verified.
Desflurane #	57041-67-5	574AT #	574AT Badge	8.56			0.11 PPM	3		6	MOD OSHA 103	Anesthetic Gas	Suprane	Sampling rate has been lab verified.
Desflurane	57041-67-5	J6-001	Tube, Charcoal 50-100mg Tube	0.050 L/min			0.018 PPM	3	12	6	MOD OSHA 103	Anesthetic Gas	Suprane	
Diacetone Alcohol	123-42-2	525AT	525AT Badge	53.8	OSHA 50 PPM		0.0082 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Diacetone Alcohol	123-42-2	546AT	546AT Badge	2.13	OSHA 50 PPM		0.21 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Diacetone Alcohol #	123-42-2	566AT #	566AT Badge	8.50	OSHA 50 PPM		0.052 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Dicyclopentadiene #	77-73-6	525AT #	525AT Badge	57.8			0.013 PPM	2		6	AT L-OV (GC/FID)	OV List B		
Dicyclopentadiene	77-73-6	566AT	566AT Badge	7.97			0.097 PPM	2		6	AT L-OV (GC/FID)	OV List B		
Dicyclopentadiene	77-73-6	546AT	546AT Badge	1.99			0.39 PPM	2		6	AT L-OV (GC/FID)	OV List B		
Diethanolamine #	111-42-2	585AT #	585AT Badge	7.19	NIOSH 3 PPM		0.067 PPM	1		10	MOD OSHA 60	Amine		Sampling rate has been lab verified.
Diethyl Ketone	96-22-0	546AT	546AT Badge	2.37			0.75 PPM	3		6	AT L-OV (GC/FID)	OV List A	3-Pentanone	
Diethyl Ketone #	96-22-0	566AT #	566AT Badge	9.47			0.19 PPM	3		6	AT L-OV (GC/FID)	OV List A	3-Pentanone	
Diethyl Ketone	96-22-0	525AT	525AT Badge	66.6			0.027 PPM	3		6	AT L-OV (GC/FID)	OV List A	3-Pentanone	
Diethylamine #	109-89-7	585AT #	585AT Badge	8.67	OSHA 25 PPM	NIOSH STEL 250 PPM	0.040 PPM	0.5		10	MOD OSHA 60	Amine		
Diethylene Glycol Butyl Ether	112-34-5	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min			0.031 PPM	10	10	6	AT L-OV (GC/FID)	OV List A	Butyl Carbitol	
Diethylene Glycol Butyl Ether #	112-34-5	566AT #	566AT Badge	7.19			0.44 PPM	10		6	AT L-OV (GC/FID)	OV List A	Butyl Carbitol	
Diethylene Glycol Butyl Ether	112-34-5	546AT	546AT Badge	1.80			1.7 PPM	10		6	AT L-OV (GC/FID)	OV List A	Butyl Carbitol	
Diethylene Glycol Butyl Ether	112-34-5	525AT	525AT Badge	54.2			0.058 PPM	10		6	AT L-OV (GC/FID)	OV List A	Butyl Carbitol	
Diethylene Glycol Dimethyl Ether	111-96-6	566AT	566AT Badge	7.60			0.15 PPM	3		6	AT L-OV (GC/FID)	OV List A		
Diethylenetriamine #	111-40-0	585AT #	585AT Badge	7.26	NIOSH 1 PPM		0.020 PPM	0.3		10	MOD OSHA 60	Amine		
Diisobutyl Ketone #	108-83-8	566AT #	566AT Badge	7.69	OSHA 50 PPM		0.042 PPM	0.9		6	AT L-OV (GC/FID)	OV List B	2,6-Dimethyl-4-heptanone	
Diisobutyl Ketone	108-83-8	546AT	546AT Badge	1.92	OSHA 50 PPM		0.17 PPM	0.9		6	AT L-OV (GC/FID)	OV List B	2,6-Dimethyl-4-heptanone	

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OSP = Organic Solvent Panel. See X525-25AT

 # - Indicates the badge / chemical combination we recommend.

Many of the NIOSH/OSHA methods have been modified. For a list of significant modifications, go to www.assaytech.com.
Information in this table can change without notice.

Chemical	CAS No	Media/Item #	Media Description	Sampling Rate (mL/min)	PEL	STEL	8 hr Rpt Lmt	RL (ug)	Vol (L)	TAT	Method Ref	Test Group	Synonyms	Notes/Comments
Diisobutyl Ketone	108-83-8	525AT	525AT Badge	56.4	OSHA 50 PPM		0.0057 PPM	0.9		6	AT L-OV (GC/FID)	OV List B	2,6-Dimethyl-4-heptanone	
Dimethylamine #	124-40-3	585AT #	585AT Badge	11.1	OSHA 10 PPM		0.031 PPM	0.3		10	MOD OSHA 60	Amine		
Dipropylene Glycol Methylether	34590-94-8	546AT	546AT Badge	1.88	OSHA 100 PPM		3.1 PPM	17		6	AT L-OV (GC/FID)	OV List B		
Dipropylene Glycol Methylether #	34590-94-8	566AT #	566AT Badge	7.52	OSHA 100 PPM		0.78 PPM	17		6	AT L-OV (GC/FID)	OV List B		
Dipropylene Glycol Methylether	34590-94-8	525AT	525AT Badge	55.8	OSHA 100 PPM		0.10 PPM	17		6	AT L-OV (GC/FID)	OV List B		
D-Limonene	5989-27-5	546AT	546AT Badge	1.96			0.38 PPM	2		6	AT L-OV (GC/FID)	OV List A		
D-Limonene #	5989-27-5	566AT #	566AT Badge	7.86			0.095 PPM	2		6	AT L-OV (GC/FID)	OV List A		
D-Limonene	5989-27-5	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min			0.0075 PPM	2	10	6	AT L-OV (GC/FID)	OV List A		
D-Limonene	5989-27-5	525AT	525AT Badge	57.2			0.013 PPM	2		6	AT L-OV (GC/FID)	OV List A		
Dust, Respirable	1318-93-0	JS37PVCPW350	Cassette, PVC Pre-wt Cassette	2.5 L/min	OSHA 5 MG/M3		0.017 MG/M3	20	400	6	MOD NIOSH 600	Gravimetric		Attach a cyclone and adjust flow according to the manufacturers cylcone instructions for use. Assay rents SKC Aluminum Cylones. Assay part # R792 / SKC part #225-01-01.
Dust, Total	1318-93-0	JS37PVCPW250	Cassette, PVC Pre-wt Cassette		OSHA 15 MG/M3			20		6	MOD NIOSH 500	Gravimetric		Flow Rate: 1 to 2 L/min. Volume: VOL-MIN: 7 L @ 15 mg/m³ -MAX: 133 L @ 15 mg/m³
Epichlorohydrin	106-89-8	546AT	546AT Badge	2.39	OSHA 5 PPM		0.28 PPM	1.2		6	AT L-OV (GC/FID)	OV List A		
Epichlorohydrin	106-89-8	566AT	566AT Badge	9.54	OSHA 5 PPM		0.069 PPM	1.2		6	AT L-OV (GC/FID)	OV List A		
Epichlorohydrin	106-89-8	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 5 PPM		0.0066 PPM	1.2	10	6	AT L-OV (GC/FID)	OV List A		
Epichlorohydrin #	106-89-8	525AT #	525AT Badge	65.0	OSHA 5 PPM		0.010 PPM	1.2		6	AT L-OV (GC/FID)	OV List A		
Ethanolamine #	141-43-5	585AT #	585AT Badge	7.70	OSHA 3 PPM		0.032 PPM	0.3		10	MOD OSHA 60	Amine		Sampling rate has been lab verified.
Ethyl 2-Cyanoacrylate #	7085-85-0	595AT #	595AT Badge	12.5			0.0098 PPM	0.3		10	MOD OSHA 55			Badges must be shipped on ice and arrive at the lab within 3 days of sampling. Please contact customer service to assure the lab is ready for them and can extract them before they expire. Sampling rate has been lab verified.
Ethyl Acetate #	141-78-6	546AT #	546AT Badge	2.25	OSHA 400 PPM		0.52 PPM	2		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Ethyl Acetate	141-78-6	566AT	566AT Badge	8.98	OSHA 400 PPM		0.13 PPM	2		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Ethyl Acetate	141-78-6	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 400 PPM		0.012 PPM	2	10	6	AT L-OV (GC/FID)	OV List A		
Ethyl Acetate	141-78-6	525AT	525AT Badge	71.6	OSHA 400 PPM		0.016 PPM	2		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide. Sampling rate has been lab verified.
Ethyl Acrylate	140-88-5	546AT	546AT Badge	2.29	OSHA 25 PPM		0.20 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Ethyl Acrylate	140-88-5	566AT	566AT Badge	9.16	OSHA 25 PPM		0.050 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Ethyl Acrylate #	140-88-5	525AT #	525AT Badge	61.7	OSHA 25 PPM		0.0074 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Ethyl Alcohol #	64-17-5	546AT #	546AT Badge	3.39	OSHA 1000 PPM		3.3 PPM	10		6	AT L-OV (GC/FID)	OV List A	Ethanol	
Ethyl Alcohol	64-17-5	566AT	566AT Badge	13.5	OSHA 1000 PPM		0.82 PPM	10		6	AT L-OV (GC/FID)	OV List A	Ethanol	
Ethyl Alcohol	64-17-5	J6-009	Tube, Charcoal 200-1400mg Tube	0.10 L/min	OSHA 1000 PPM		0.11 PPM	10	10	6	AT L-OV (GC/FID)	OV List A	Ethanol	
Ethyl Alcohol	64-17-5	525AT	525AT Badge	83.4	OSHA 1000 PPM		0.13 PPM	10		6	AT L-OV (GC/FID)	OV List A	Ethanol	This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide.
Ethyl Ether #	60-29-7	546AT #	546AT Badge	2.82	OSHA 400 PPM		0.73 PPM	3		6	AT L-OV (GC/FID)	OV List A	Diethyl Ether	
Ethyl Ether	60-29-7	566AT	566AT Badge	11.3	OSHA 400 PPM		0.18 PPM	3		6	AT L-OV (GC/FID)	OV List A	Diethyl Ether	
Ethyl Ether	60-29-7	J6-009	Tube, Charcoal 200-1400mg Tube	0.10 L/min	OSHA 400 PPM		0.021 PPM	3	10	6	AT L-OV (GC/FID)	OV List A	Diethyl Ether	
Ethyl Ether	60-29-7	525AT	525AT Badge	76.4	OSHA 400 PPM		0.027 PPM	3		6	AT L-OV (GC/FID)	OV List A	Diethyl Ether	
Ethyl Methacrylate #	97-63-2	566AT #	566AT Badge	8.41			0.053 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Ethyl Methacrylate	97-63-2	546AT	546AT Badge	2.10			0.21 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Ethyl Methacrylate	97-63-2	525AT	525AT Badge	57.9			0.0077 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Ethylamine #	75-04-7	585AT #	585AT Badge	11.1	OSHA 10 PPM		0.031 PPM	0.3		10	MOD OSHA 60	Amine		
Ethylbenzene	100-41-4	546AT	546AT Badge	2.23	OSHA 100 PPM	NIOSH 125 PPM	0.11 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Ethylbenzene #	100-41-4	566AT #	566AT Badge	8.91	OSHA 100 PPM	NIOSH 125 PPM	0.027 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Ethylbenzene	100-41-4	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 100 PPM	NIOSH 125 PPM	0.0024 PPM	0.5	10	6	AT L-OV (GC/FID)	OV List A		
Ethylbenzene	100-41-4	525AT	525AT Badge	63.6	OSHA 100 PPM	NIOSH 125 PPM	0.0038 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide. Sampling rate has been lab verified.
Ethylene Chlorohydrin	107-07-3	546AT	546AT Badge	2.56	OSHA 5 PPM		0.35 PPM	1.4		6	AT L-OV (GC/FID)	OV List A		
Ethylene Chlorohydrin	107-07-3	566AT	566AT Badge	10.2	OSHA 5 PPM		0.087 PPM	1.4		6	AT L-OV (GC/FID)	OV List A		
Ethylene Chlorohydrin #	107-07-3	525AT #	525AT Badge	68.1	OSHA 5 PPM		0.013 PPM	1.4		6	AT L-OV (GC/FID)	OV List A		
Ethylene Glycol Dimethyl Ether	110-71-4	546AT	546AT Badge	2.42			0.23 PPM	1		6	AT L-OV (GC/FID)	OV List A	Dimethoxyethane, 1,2-Dimethoxyethane	
Ethylene Glycol Dimethyl Ether #	110-71-4	566AT #	566AT Badge	9.66			0.058 PPM	1		6	AT L-OV (GC/FID)	OV List A	Dimethoxyethane, 1,2-Dimethoxyethane	
Ethylene Glycol Dimethyl Ether	110-71-4	525AT	525AT Badge	65.5			0.0086 PPM	1		6	AT L-OV (GC/FID)	OV List A	Dimethoxyethane, 1,2-Dimethoxyethane	
Ethylene Oxide #	75-21-8	555AT #	555AT Badge	12.4	OSHA 1 PPM	OSHA STEL 5 PPM	0.011 PPM	0.12		6	MOD OSHA 1010	Ethylene Oxide		Sampling rate has been lab verified.
Ethylenediamine #	107-15-3	585AT #	585AT Badge	9.59	OSHA 10 PPM		0.027 PPM	0.3		10	MOD OSHA 60	Amine		Sampling rate has been lab verified.
Formaldehyde #	50-00-0	571AT #	571AT Badge	16.2	OSHA 0.75 PPM	OSHA STEL 2 PPM	0.010 PPM	0.1		6	MOD OSHA 1007	Aldehyde	Formalin	For more informtaion about using badges for formaldehyde from Formalin, go to https://www.assaytech.com/product/571-aldehyde-monitor/ Sampling rate has been lab verified.
Formaldehyde	50-00-0	581AT	581AT Badge	124	OSHA 0.75 PPM	OSHA STEL 2 PPM	0.0014 PPM	0.1		6	MOD OSHA 1007	Aldehyde	Formalin	The 580 badge has been replaced by the 581 badge. For more informtaion about using badges for formaldehyde from Formalin, go to https://www.assaytech.com/product/571-aldehyde-monitor/ Sampling rate has been lab verified.
Formaldehyde	50-00-0	J6-119	Tube, Silica Gel-DNPH Tube	0.10 L/min	OSHA 0.75 PPM	OSHA STEL 2 PPM	0.0017 PPM	0.1	15	6	MOD NIOSH 2016	Aldehyde	Formalin	
Glutaraldehyde	111-30-8	J6-119	Tube, Silica Gel-DNPH Tube	0.10 L/min		NIOSH CEILING 0.2 PPM	0.000041 PPM	0.008	24	6	MOD NIOSH 2532	Aldehyde	Cidex	
Glutaraldehyde	111-30-8	571AT	571AT Badge	7.24		NIOSH CEILING 0.2 PPM	0.00056 PPM	0.008		6	MOD OSHA 64	Aldehyde	Cidex	Sampling rate has been lab verified.
Glutaraldehyde	111-30-8	J5-9003	Cassette, GFF 2-4-DNPH	1.0 L/min		NIOSH CEILING 0.2 PPM	0.000020 PPM	0.04	120	6	MOD OSHA 64	Aldehyde	Cidex	
Glutaraldehyde #	111-30-8	581AT #	581AT Badge	63.2		NIOSH CEILING 0.2 PPM	0.000064 PPM	0.008		6	MOD OSHA 64	Aldehyde	Cidex	
Halothane #	151-67-7	574AT #	574AT Badge	8.70			0.12 PPM	4		6	MOD OSHA 103	Anesthetic Gas		Sampling rate has been lab verified.
Halothane	151-67-7	J6-001	Tube, Charcoal 50-100mg Tube	0.050 L/min			0.021 PPM	4	12	6	MOD OSHA 103	Anesthetic Gas		
Heptane #	142-82-5	546AT #	546AT Badge	2.14	OSHA 500 PPM		0.12 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Heptane	142-82-5	566AT	566AT Badge	8.54	OSHA 500 PPM		0.030 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Heptane	142-82-5	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 500 PPM		0.0025 PPM	0.5	10	6	AT L-OV (GC/FID)	OV List A		
Heptane	142-82-5	525AT	525AT Badge	56.3	OSHA 500 PPM		0.0045 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide. Sampling rate has been lab verified.
Hexamethylene Diisocyanate	822-06-0	J5-9002	Cassette, GFF w/ 1,-PP	1.0 L/min	NIOSH 0.005 PPM	NIOSH CEILING 0.02 PPM	0.00024 PPM	0.8	240	10	MOD OSHA 42	Isocyanates	HDI	Sample openface (See method)
Hexanal #	66-25-1	571AT #	571AT Badge	6.48			0.24 PPM	3		10	MOD EPA TO-11	Aldehyde	Hexanaldehyde	
Hexanal	66-25-1	581AT	581AT Badge	63.0			0.024 PPM	3		10	MOD EPA TO-11	Aldehyde	Hexanaldehyde	
Hydrogen Peroxide	7722-84-1	587AT	587AT Badge	137	OSHA 1 PPM		0.020 PPM	1.8		6	MOD OSHA METHOD 1019	Subcontract		The 587 monitors are manufactured and analyzed by Advanced Chemical Sensor, AIHA LAP, LLC 102047. Badges are sent to AT Labs and subcontracted to ACS.
Hydrogen Peroxide #	7722-84-1	527AT #	527AT Badge	173	OSHA 1 PPM		0.043 PPM	5		6	MOD OSHA METHOD 1019	Hydrogen Peroxide		
Indium	7440-74-6	J5-024 SMR TAB	Smear Tab					0.5		6	MOD OSHA ID 125G	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Indium	7440-74-6	JS37MCE208	Cassette, MCE Cassette	2.0 L/min			0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125G	ICP		
Iron	7439-89-6	J5-024 SMR TAB	Smear Tab					2		6	MOD OSHA ID 125G	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Iron	7439-89-6	JS37MCE208	Cassette, MCE Cassette	2.0 L/min			0.0021 MG/M3	2	1000	6	MOD OSHA ID 125G	ICP		
Iron(III) Oxide	1309-37-1	J5-024 SMR TAB	Smear Tab					3		6	MOD OSHA ID 125G	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Iron(III) Oxide	1309-37-1	JS37MCE208	Cassette, MCE Cassette	2.0 L/min			0.0031 MG/M3	3	1000	6	MOD OSHA ID 125G	ICP		
Isoamyl Alcohol #	123-51-3	566AT #	566AT Badge	9.77	OSHA 100 PPM		0.053 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Isoamyl Alcohol	123-51-3	546AT	546AT Badge	2.44	OSHA 100 PPM		0.21 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Isoamyl Alcohol	123-51-3	525AT	525AT Badge	76.7	OSHA 100 PPM		0.0068 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Isobutyl Acetate	110-19-0	525AT	525AT Badge	63.6	OSHA 150 PPM		0.0069 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Isobutyl Acetate	110-19-0	566AT	566AT Badge	8.50	OSHA 150 PPM		0.052 PPM	1		6	AT L-OV (GC/FID)	OV List A		

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OSP = Organic Solvent Panel. See X525-25AT

 # - Indicates the badge / chemical combination we recommend.

Many of the NIOSH/OSHA methods have been modified. For a list of significant modifications, go to www.assaytech.com.
Information in this table can change without notice.

Chemical	CAS No	Media/Item #	Media Description	Sampling Rate (mL/min)	PEL	STEL	8 hr Rpt Lmt	RL (ug)	Vol (L)	TAT	Method Ref	Test Group	Synonyms	Notes/Comments
Isobutyl Acetate #	110-19-0	546AT #	546AT Badge	2.13	OSHA 150 PPM		0.21 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Isobutyl Alcohol	78-83-1	546AT	546AT Badge	2.67	OSHA 100 PPM		0.18 PPM	0.7		6	AT L-OV (GC/FID)	OV List A	Isobutanol	Sampling rate has been lab verified.
Isobutyl Alcohol #	78-83-1	566AT #	566AT Badge	10.7	OSHA 100 PPM		0.045 PPM	0.7		6	AT L-OV (GC/FID)	OV List A	Isobutanol	Sampling rate has been lab verified.
Isobutyl Alcohol	78-83-1	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 100 PPM		0.0048 PPM	0.7	10	6	AT L-OV (GC/FID)	OV List A	Isobutanol	
Isobutyl Alcohol	78-83-1	525AT	525AT Badge	67.2	OSHA 100 PPM		0.0072 PPM	0.7		6	AT L-OV (GC/FID)	OV List A	Isobutanol	Sampling rate has been lab verified.
Isoflurane #	26675-46-7	574AT #	574AT Badge	7.87	CAL 2 PPM		0.11 PPM	3		6	MOD OSHA 103	Anesthetic Gas	Forane	Sampling rate has been lab verified.
Isoflurane	26675-46-7	J6-001	Tube, Charcoal 50-100mg Tube	0.050 L/min	CAL 2 PPM		0.017 PPM	3	12	6	MOD OSHA 103	Anesthetic Gas	Forane	
Isoflurane, Mg/M3 #	26675-46-7	574AT #	574AT Badge	7.87			0.79 MG/M3	3		6	MOD OSHA 103	Anesthetic Gas	Forane	Sampling rate has been lab verified.
Isophorone	78-59-1	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 25 PPM		0.0022 PPM	0.6	10	6	AT L-OV (GC/FID)	OV List B		
Isophorone #	78-59-1	566AT #	566AT Badge	7.80	OSHA 25 PPM		0.028 PPM	0.6		6	AT L-OV (GC/FID)	OV List B		
Isophorone	78-59-1	546AT	546AT Badge	1.95	OSHA 25 PPM		0.11 PPM	0.6		6	AT L-OV (GC/FID)	OV List B		
Isophorone	78-59-1	525AT	525AT Badge	50.0	OSHA 25 PPM		0.0044 PPM	0.6		6	AT L-OV (GC/FID)	OV List B		
Isophorone Diisocyanate	4098-71-9	J5-9002	Cassette, GFF w/ 1,-PP	1.0 L/min		0.02 PPM	0.000046 PPM	0.2	240	10	MOD OSHA 42	Isocyanates	IPDI	Sample openface (See method)
Isopropyl Acetate #	108-21-4	546AT #	546AT Badge	2.27	OSHA 250 PPM		0.22 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Isopropyl Acetate	108-21-4	566AT	566AT Badge	9.08	OSHA 250 PPM		0.055 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Isopropyl Acetate	108-21-4	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 250 PPM		0.0050 PPM	1	10	6	AT L-OV (GC/FID)	OV List A		
Isopropyl Acetate	108-21-4	525AT	525AT Badge	54.6	OSHA 250 PPM		0.0091 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Isopropyl Alcohol #	67-63-0	546AT #	546AT Badge	2.96	OSHA 400 PPM	NIOSH STEL 500 PPM	0.29 PPM	1		6	AT L-OV (GC/FID)	OV List A	IPA	Sampling rate has been lab verified.
Isopropyl Alcohol	67-63-0	566AT	566AT Badge	11.8	OSHA 400 PPM	NIOSH STEL 500 PPM	0.072 PPM	1		6	AT L-OV (GC/FID)	OV List A	IPA	Sampling rate has been lab verified.
Isopropyl Alcohol	67-63-0	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 400 PPM	NIOSH STEL 500 PPM	0.0085 PPM	1	10	6	AT L-OV (GC/FID)	OV List A	IPA	
Isopropyl Alcohol	67-63-0	525AT	525AT Badge	67.2	OSHA 400 PPM	NIOSH STEL 500 PPM	0.013 PPM	1		6	AT L-OV (GC/FID)	OV List A	IPA	This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide. Sampling rate has been lab verified.
Isovaleraldehyde	590-86-3	571AT	571AT Badge	9.56			0.062 PPM	1		10	MOD EPA TO-11	Aldehyde		
Isovaleraldehyde	590-86-3	581AT	581AT Badge	66.7			0.0089 PPM	1		10	MOD EPA TO-11	Aldehyde		
Lead	7439-92-1	J5-024 SMR TAB	Smear Tab		OSHA 0.05 MG/M3			0.5		6	MOD OSHA ID 125G	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Lead	7439-92-1	J5-025 G WIPE	Ghost Wipe		OSHA 0.05 MG/M3			4		6	MOD OSHA ID 125G	ICP		J8109K: J5-025 + J8054 (Ghost wipe with Vial). Ghost wipes are pre-moistened with DI water. Additional DI water is not necessary
Lead	7439-92-1	JS37MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 0.05 MG/M3		0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125G	ICP		
Magnesium	7439-95-4	J5-024 SMR TAB	Smear Tab		OSHA 15 MG/M3			0.5		6	MOD OSHA ID 125G	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Magnesium	7439-95-4	JS37MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 15 MG/M3		0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125G	ICP		
Manganese	7439-96-5	J5-024 SMR TAB	Smear Tab			OSHA CEILING 5 MG/M3		0.5		6	MOD OSHA ID 125G	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Manganese	7439-96-5	JS37MCE208	Cassette, MCE Cassette	2.0 L/min		OSHA CEILING 5 MG/M3	0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125G	ICP		
Mercury #	7439-97-6	593AT #	593AT Badge	17.0	OSHA 0.1 MG/M3	CAL OSHA CEILING 0.1 MG/M3	0.00061 MG/M3	0.005		6	MOD EPA 7473	Mercury		Sampling rate has been lab verified.
Mercury	7439-97-6	JS37MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 0.1 MG/M3	CAL OSHA CEILING 0.1 MG/M3	0.000021 MG/M3	0.02	1000	6	MOD EPA 7473	Mercury		Particulates Only
Mercury	7439-97-6	J5-024 SMR TAB	Smear Tab		OSHA 0.1 MG/M3	CAL OSHA CEILING 0.1 MG/M3		0.02		6	MOD EPA 7473	Mercury		Particulates Only. Order Kit J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Mesitylene	108-67-8	546AT	546AT Badge	2.09	OSHA 25 PPM		1.0 PPM	5		6	AT L-OV (GC/FID)	OV List A	1,3,5-Trimethylbenzene	
Mesitylene #	108-67-8	566AT #	566AT Badge	8.36	OSHA 25 PPM		0.25 PPM	5		6	AT L-OV (GC/FID)	OV List A	1,3,5-Trimethylbenzene	
Mesitylene	108-67-8	525AT	525AT Badge	59.5	OSHA 25 PPM		0.036 PPM	5		6	AT L-OV (GC/FID)	OV List A	1,3,5-Trimethylbenzene	
Methyl Acetate #	79-20-9	566AT #	566AT Badge	10.3	OSHA 200 PPM		0.13 PPM	2		6	AT L-OV (GC/FID)	OV List A		
Methyl Acetate	79-20-9	546AT	546AT Badge	2.60	OSHA 200 PPM		0.53 PPM	2		6	AT L-OV (GC/FID)	OV List A		
Methyl Acrylate	96-33-3	546AT	546AT Badge	2.47	OSHA 10 PPM		0.48 PPM	2		6	AT L-OV (GC/FID)	OV List A		
Methyl Acrylate #	96-33-3	566AT #	566AT Badge	9.89	OSHA 10 PPM		0.12 PPM	2		6	AT L-OV (GC/FID)	OV List A		
Methyl Acrylate	96-33-3	525AT	525AT Badge	68.5	OSHA 10 PPM		0.017 PPM	2		6	AT L-OV (GC/FID)	OV List A		
Methyl Alcohol	67-56-1	J6-010	Tube, Silica Gel 75-150mg Tube	0.10 L/min	OSHA 200 PPM	NIOSH STEL 250 PPM	0.048 PPM	3	5	6	MOD NIOSH 2000	Methanol	Methanol	
Methyl Alcohol	67-56-1	546AT	546AT Badge	4.06	OSHA 200 PPM	NIOSH STEL 250 PPM	1.2 PPM	3		6	AT L-OV (GC/FID)	OV List A	Methanol	For best results, we recommend using our 545 badge for Methyl Alcohol. It is not recommended that Methyl Alcohol be collected on the 525 badge.
Methyl Alcohol	67-56-1	566AT	566AT Badge	16.2	OSHA 200 PPM	NIOSH STEL 250 PPM	0.29 PPM	3		6	AT L-OV (GC/FID)	OV List A	Methanol	For best results, we recommend using our 545 badge for Methyl Alcohol. If using the 566 badge, do so only for STEL sampling. It is not recommended that Methyl Alcohol be collected on the 525 badge.
Methyl Alcohol	67-56-1	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 200 PPM	NIOSH STEL 250 PPM	0.048 PPM	3	10	6	AT L-OV (GC/FID)	OV List A	Methanol	
Methyl Alcohol #	67-56-1	545AT #	545AT Badge	4.50	OSHA 200 PPM	NIOSH STEL 250 PPM	1.1 PPM	3		6	MOD OSHA 5001	MEOH-747	Methanol	
Methyl Ethyl Ketone #	78-93-3	546AT #	546AT Badge	2.80	OSHA 200 PPM		0.20 PPM	0.8		6	AT L-OV (GC/FID)	OV List A	2-Butanone, Ethyl methyl ketone, MEK	Sampling rate has been lab verified.
Methyl Ethyl Ketone	78-93-3	566AT	566AT Badge	11.2	OSHA 200 PPM		0.050 PPM	0.8		6	AT L-OV (GC/FID)	OV List A	2-Butanone, Ethyl methyl ketone, MEK	Sampling rate has been lab verified.
Methyl Ethyl Ketone	78-93-3	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 200 PPM		0.0057 PPM	0.8	10	6	AT L-OV (GC/FID)	OV List A	2-Butanone, Ethyl methyl ketone, MEK	
Methyl Ethyl Ketone	78-93-3	525AT	525AT Badge	80.4	OSHA 200 PPM		0.0070 PPM	0.8		6	AT L-OV (GC/FID)	OV List A	2-Butanone, Ethyl methyl ketone, MEK	This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide. Sampling rate has been lab verified.
Methyl Isoamyl Ketone #	110-12-3	566AT #	566AT Badge	8.58	OSHA 100 PPM		0.052 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Methyl Isoamyl Ketone	110-12-3	546AT	546AT Badge	2.14	OSHA 100 PPM		0.21 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Methyl Isoamyl Ketone	110-12-3	525AT	525AT Badge	60.6	OSHA 100 PPM		0.0074 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Methyl Isobutyl Carbinol #	108-11-2	566AT #	566AT Badge	9.08	OSHA 25 PPM		0.055 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Methyl Isobutyl Carbinol	108-11-2	546AT	546AT Badge	2.27	OSHA 25 PPM		0.22 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Methyl Isobutyl Carbinol	108-11-2	525AT	525AT Badge	55.2	OSHA 25 PPM		0.0090 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Methyl Isobutyl Ketone	108-10-1	546AT	546AT Badge	2.29	OSHA 100 PPM		0.16 PPM	0.7		6	AT L-OV (GC/FID)	OV List A	Hexone, MIBK	Sampling rate has been lab verified.
Methyl Isobutyl Ketone #	108-10-1	566AT #	566AT Badge	9.16	OSHA 100 PPM		0.039 PPM	0.7		6	AT L-OV (GC/FID)	OV List A	Hexone, MIBK	Sampling rate has been lab verified.
Methyl Isobutyl Ketone	108-10-1	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 100 PPM		0.0036 PPM	0.7	10	6	AT L-OV (GC/FID)	OV List A	Hexone, MIBK	
Methyl Isobutyl Ketone	108-10-1	525AT	525AT Badge	66.2	OSHA 100 PPM		0.0054 PPM	0.7		6	AT L-OV (GC/FID)	OV List A	Hexone, MIBK	This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide. Sampling rate has been lab verified.
Methyl Methacrylate	80-62-6	546AT	546AT Badge	2.29	OSHA 100 PPM		0.22 PPM	1		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Methyl Methacrylate #	80-62-6	566AT #	566AT Badge	9.16	OSHA 100 PPM		0.056 PPM	1		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Methyl Methacrylate	80-62-6	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 100 PPM		0.0051 PPM	1	10	6	AT L-OV (GC/FID)	OV List A		
Methyl Methacrylate	80-62-6	525AT	525AT Badge	63.0	OSHA 100 PPM		0.0081 PPM	1		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide. Sampling rate has been lab verified.
Methylamine #	74-89-5	585AT #	585AT Badge	13.4	OSHA 10 PPM		0.024 PPM	0.2		10	MOD OSHA 60	Amine		
Methylcyclohexane #	108-87-2	546AT #	546AT Badge	2.33	OSHA 500 PPM		0.11 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		
Methylcyclohexane	108-87-2	566AT	566AT Badge	9.32	OSHA 500 PPM		0.028 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		
Methylene Chloride	75-09-2	546AT	546AT Badge	2.39	OSHA 25 PPM	OSHA STEL 125 PPM	0.75 PPM	3		6	AT L-OV (GC/FID)	OV List A	Dichloromethane	Sampling rate has been lab verified.
Methylene Chloride	75-09-2	566AT	566AT Badge	9.54	OSHA 25 PPM	OSHA STEL 125 PPM	0.19 PPM	3		6	AT L-OV (GC/FID)	OV List A	Dichloromethane	Sampling rate has been lab verified.
Methylene Chloride	75-09-2	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 25 PPM	OSHA STEL 125 PPM	0.018 PPM	3	10	6	AT L-OV (GC/FID)	OV List A	Dichloromethane	
Methylene Chloride #	75-09-2	525AT #	525AT Badge	72.7	OSHA 25 PPM	OSHA STEL 125 PPM	0.025 PPM	3		6	AT L-OV (GC/FID)	OV List A	Dichloromethane	This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide. Sampling rate has been lab verified.
Molybdenum	7439-98-7	J5-024 SMR TAB	Smear Tab		OSHA 5 MG/M3			0.5		6	MOD OSHA ID 125G	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Molybdenum	7439-98-7	JS37MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 5 MG/M3		0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125G	ICP		
Morpholine #	110-91-8	585AT #	585AT Badge	7.92	OSHA 20 PPM	NIOSH STEL 30 PPM	0.15 PPM	2		10	MOD OSHA 60	Amine		Sampling rate has been lab verified.
M-Tolualdehyde #	620-23-5	571AT #	571AT Badge	6.29			0.20 PPM	3		10	MOD EPA TO-11	Aldehyde		
M-Tolualdehyde	620-23-5	581AT	581AT Badge	59.5			0.021 PPM	3		10	MOD EPA TO-11	Aldehyde		
Naphthalene	91-20-3	546AT	546AT Badge	2.03	OSHA 10 PPM	NIOSH STEL 15 PPM	1.3 PPM	6.5		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Naphthalene	91-20-3	566AT	566AT Badge	8.10	OSHA 10 PPM	NIOSH STEL 15 PPM	0.32 PPM	6.5		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Naphthalene	91-20-3	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 10 PPM	NIOSH STEL 15 PPM	0.026 PPM	6.5	10	6	AT L-OV (GC/FID)	OV List A		
Naphthalene #	91-20-3	525AT #	525AT Badge	58.4	OSHA 10 PPM	NIOSH STEL 15 PPM	0.044 PPM	6.5		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide. Sampling rate has been lab verified.

Assay Technology Inc - Sampling Guide

OSP = Organic Solvent Panel. See X525-25AT

 # - Indicates the badge / chemical combination we recommend.

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Information in this table can change without notice.

Chemical	CAS No	Media/Item #	Media Description	Sampling Rate (mL/min)	PEL	STEL	8 hr Rpt Lmt	RL (ug)	Vol (L)	TAT	Method Ref	Test Group	Synonyms	Notes/Comments
N-Butyl Acetate #	123-86-4	546AT #	546AT Badge	1.99	OSHA 150 PPM		0.20 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
N-Butyl Acetate	123-86-4	566AT	566AT Badge	7.94	OSHA 150 PPM		0.050 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
N-Butyl Acetate	123-86-4	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 150 PPM		0.0039 PPM	0.9	10	6	AT L-OV (GC/FID)	OV List A		
N-Butyl Acetate	123-86-4	525AT	525AT Badge	55.9	OSHA 150 PPM		0.0071 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide.
N-Butyl Alcohol	71-36-3	546AT	546AT Badge	2.67	OSHA 100 PPM	NIOSH CEILING 50 PPM	0.26 PPM	1		6	AT L-OV (GC/FID)	OV List A	n-Butanol, Butyl Alcohol	Sampling rate has been lab verified.
N-Butyl Alcohol #	71-36-3	566AT #	566AT Badge	10.7	OSHA 100 PPM	NIOSH CEILING 50 PPM	0.064 PPM	1		6	AT L-OV (GC/FID)	OV List A	n-Butanol, Butyl Alcohol	Sampling rate has been lab verified.
N-Butyl Alcohol	71-36-3	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 100 PPM	NIOSH CEILING 50 PPM	0.0069 PPM	1	10	6	AT L-OV (GC/FID)	OV List A	n-Butanol, Butyl Alcohol	
N-Butyl Alcohol	71-36-3	525AT	525AT Badge	71.6	OSHA 100 PPM	NIOSH CEILING 50 PPM	0.0096 PPM	1		6	AT L-OV (GC/FID)	OV List A	n-Butanol, Butyl Alcohol	This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide. Sampling rate has been lab verified.
N-Hexane	110-54-3	546AT	546AT Badge	2.47	OSHA 500 PPM		0.14 PPM	0.6		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
N-Hexane	110-54-3	566AT	566AT Badge	9.88	OSHA 500 PPM		0.036 PPM	0.6		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
N-Hexane	110-54-3	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 500 PPM		0.0035 PPM	0.6	10	6	AT L-OV (GC/FID)	OV List A		
N-Hexane	110-54-3	525AT	525AT Badge	60.9	OSHA 500 PPM		0.0058 PPM	0.6		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide. Sampling rate has been lab verified.
Nickel	7440-02-0	J5-024 SMR TAB	Smear Tab		OSHA 1 MG/M3			0.5		6	MOD OSHA ID 125G	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Nickel	7440-02-0	JS37MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 1 MG/M3		0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125G	ICP		
Nitrogen Dioxide #	10102-44-0	594AT #	594AT Badge	22.3		OSHA CEILING 5 PPM	0.025 PPM	0.5		6	MOD OSHA 182	Nitrogen Dioxide		Sampling rate has been lab verified.
Nitrous Oxide	10024-97-2	575AT	575AT Badge	0.880	NIOSH 25 PPM		0.53 PPM	0.4		6	AT SOP L575	Nitrous Oxide		Sampling rate has been lab verified.
N-N-Dimethylaniline	121-69-7	546AT	546AT Badge	2.08			0.12 PPM	0.6		6	AT L-OV (GC/FID)	OV List B		
N-N-Dimethylaniline	121-69-7	566AT	566AT Badge	8.32			0.030 PPM	0.6		6	AT L-OV (GC/FID)	OV List B		
N-N-Dimethylaniline #	121-69-7	525AT #	525AT Badge	59.4			0.0042 PPM	0.6		6	AT L-OV (GC/FID)	OV List B		
N-N-Dimethylformamide	68-12-2	546AT	546AT Badge	2.68	OSHA 10 PPM		0.34 PPM	1.3		6	AT L-OV (GC/FID)	OV List A	DMF	Sampling rate has been lab verified.
N-N-Dimethylformamide	68-12-2	566AT	566AT Badge	10.7	OSHA 10 PPM		0.084 PPM	1.3		6	AT L-OV (GC/FID)	OV List A	DMF	Sampling rate has been lab verified.
N-N-Dimethylformamide	68-12-2	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 10 PPM		0.0091 PPM	1.3	10	6	AT L-OV (GC/FID)	OV List A	DMF	
N-N-Dimethylformamide #	68-12-2	525AT #	525AT Badge	73.1	OSHA 10 PPM		0.012 PPM	1.3		6	AT L-OV (GC/FID)	OV List A	DMF	Sampling rate has been lab verified.
Nonane #	111-84-2	546AT #	546AT Badge	2.02			0.098 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		
Nonane	111-84-2	566AT	566AT Badge	8.09			0.025 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		
Nonane	111-84-2	525AT	525AT Badge	46.8			0.0042 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		
N-Propyl Bromide	106-94-5	546AT	546AT Badge	2.07			0.40 PPM	2		6	AT L-OV (GC/FID)	OV List A	Propyl Bromide, 1-Bromopropane	
N-Propyl Bromide	106-94-5	566AT	566AT Badge	8.26			0.10 PPM	2		6	AT L-OV (GC/FID)	OV List A	Propyl Bromide, 1-Bromopropane	
N-Propyl Bromide	106-94-5	J6-001	Tube, Charcoal 50-100mg Tube	0.050 L/min			0.017 PPM	2	12	6	AT L-OV (GC/FID)	OV List A	Propyl Bromide, 1-Bromopropane	
N-Propyl Bromide #	106-94-5	525AT #	525AT Badge	59.1			0.014 PPM	2		6	AT L-OV (GC/FID)	OV List A	Propyl Bromide, 1-Bromopropane	
N-Vinyl-2-Pyrrolidinone	88-12-0	525AT	525AT Badge	61.1			0.023 PPM	3		6	AT L-OV (GC/FID)	OV List A		
Octane #	111-65-9	546AT #	546AT Badge	2.14	OSHA 500 PPM	NIOSH CEILING 385 PPM	0.42 PPM	2		6	AT L-OV (GC/FID)	OV List A		
Octane	111-65-9	566AT	566AT Badge	8.58	OSHA 500 PPM	NIOSH CEILING 385 PPM	0.10 PPM	2		6	AT L-OV (GC/FID)	OV List A		
Octane	111-65-9	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 500 PPM	NIOSH CEILING 385 PPM	0.0089 PPM	2	10	6	AT L-OV (GC/FID)	OV List A		
Octane	111-65-9	525AT	525AT Badge	44.7	OSHA 500 PPM	NIOSH CEILING 385 PPM	0.020 PPM	2		6	AT L-OV (GC/FID)	OV List A		
Oil Mist (Gravimetric)	8012-95-1	JS37PVCPW250	Cassette, PVC Pre-wt Cassette	2.0 L/min	OSHA 5 MG/M3	NIOSH STEL 10 MG/M3	0.021 MG/M3	20	300	6	MOD NIOSH 500	Gravimetric		
Oil Mist (IR)	8012-95-1	JS37PVC250	Cassette, PVC Cassette	2.0 L/min	OSHA 5 MG/M3	NIOSH STEL 10 MG/M3			500	10	MOD NIOSH 5026			Bulk reference material required. Recommended sent prior to sampling to ensure method is applicable. If sampling will occur before the bulk material can be tested, use PVC-PW so total particulate (NIOSH 500) can be used if the oil is insoluble. For aqueous based metal working fluid, use method NIOSH 5524.
O-Phthalaldehyde	643-79-8	571AT	571AT Badge	6.18			0.0027 MG/M3	0.008		6	MOD OSHA 64	OPA	Cidex OPA	OPA can not be collected with other aldehydes. The PEL and STEL limits listed are Johnson & Johnson recommendations. Sampling rate has been lab verified.
O-Phthalaldehyde #	643-79-8	581AT #	581AT Badge	57.5			0.00029 MG/M3	0.008		6	MOD OSHA 64	OPA	Cidex OPA	OPA can not be collected with other aldehydes. The PEL and STEL limits listed are Johnson & Johnson recommendations. The 15 minute reporting limit is 0.0092 mg/m3. Please verify the sentivity with the regulatory limit you plan to use.
Organic Solvent Panel	P705-25	525AT	525AT Badge							6	AT L-OV (GC/FID)	OV List Panel		Organic Solvent Panel (OSP) Search "OSP" for list of chemicals.
O-Tolualdehhyde	529-20-4	571AT	571AT Badge	6.30			0.20 PPM	3		6	MOD EPA TO-11	Aldehyde		
Ozone #	10028-15-6	586AT #	586AT Badge	15.2	OSHA 0.1 PPM	NIOSH CEILING 0.1 PPM	0.0070 PPM	0.1		6	MOD OSHA 214	Ozone		Not recommended for STEL monitoring. Sampling rate has been lab verified.
Pentane #	109-66-0	546AT #	546AT Badge	2.70	OSHA 1000 PPM	NIOSH STEL 610 PPM	0.16 PPM	0.6		6	AT L-OV (GC/FID)	OV List A		
Pentane	109-66-0	566AT	566AT Badge	10.8	OSHA 1000 PPM	NIOSH STEL 610 PPM	0.039 PPM	0.6		6	AT L-OV (GC/FID)	OV List A		
Pentane	109-66-0	525AT	525AT Badge	69.9	OSHA 1000 PPM	NIOSH STEL 610 PPM	0.0061 PPM	0.6		6	AT L-OV (GC/FID)	OV List A		
Perchloroethylene	127-18-4	525AT	525AT Badge	66.4	OSHA 100 PPM	OSHA CEILING 200 PPM	0.0093 PPM	2		6	AT L-OV (GC/FID)	OV List A	Tetrachloroethylene, PCE	This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide. Sampling rate has been lab verified.
Perchloroethylene #	127-18-4	566AT #	566AT Badge	7.10	OSHA 100 PPM	OSHA CEILING 200 PPM	0.087 PPM	2		6	AT L-OV (GC/FID)	OV List A	Tetrachloroethylene, PCE	Sampling rate has been lab verified.
Perchloroethylene	127-18-4	546AT	546AT Badge	1.78	OSHA 100 PPM	OSHA CEILING 200 PPM	0.35 PPM	2		6	AT L-OV (GC/FID)	OV List A	Tetrachloroethylene, PCE	Sampling rate has been lab verified.
Perchloroethylene	127-18-4	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 100 PPM	OSHA CEILING 200 PPM	0.0061 PPM	2	10	6	AT L-OV (GC/FID)	OV List A	Tetrachloroethylene, PCE	
PGMEA	108-65-6	546AT	546AT Badge	2.00			0.19 PPM	1		6	AT L-OV (GC/FID)	OV List A	Propylene glycol monomethyl ether acetate, 1-Methox	Sampling rate has been lab verified.
PGMEA #	108-65-6	566AT #	566AT Badge	7.98			0.048 PPM	1		6	AT L-OV (GC/FID)	OV List A	Propylene glycol monomethyl ether acetate, 1-Methox	Sampling rate has been lab verified.
PGMEA	108-65-6	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min			0.0039 PPM	1	10	6	AT L-OV (GC/FID)	OV List A	Propylene glycol monomethyl ether acetate, 1-Methox	
PGMEA	108-65-6	525AT	525AT Badge	57.8			0.0067 PPM	1		6	AT L-OV (GC/FID)	OV List A	Propylene glycol monomethyl ether acetate, 1-Methox	Sampling rate has been lab verified.
pH	A711-49	J5-025 G WIPE	Ghost Wipe					0.1		6	AT	pH		
Phenol	108-95-2	596AT	596AT Badge	90.3	OSHA 5 PPM	NIOSH CEILING 15.6 PPM	0.030 PPM	5		10	MOD OSHA 32	Phenol		The new Phenol badge, 596, replaced the 525 badge in September 2019.
Phenyl Ether	101-84-8	566AT	566AT Badge	6.71	OSHA 1 PPM		0.040 PPM	0.9		6	AT L-OV (GC/FID)	OV List B		
Phenyl Ether #	101-84-8	525AT #	525AT Badge	43.7	OSHA 1 PPM		0.0062 PPM	0.9		6	AT L-OV (GC/FID)	OV List B		
Potassium	7440-09-7	J5-024 SMR TAB	Smear Tab					10		6	MOD OSHA ID 125G	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Potassium	7440-09-7	JS37MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 1 MG/M3		0.0026 MG/M3	2.5	1000	6	MOD OSHA ID 125G	ICP		
Potassium Hydroxide	1310-58-3	JS37MCE208	Cassette, MCE Cassette	2.0 L/min			0.016 MG/M3	15	1000	6	MOD OSHA ID 125G			
Propionaldehyde #	123-38-6	571AT #	571AT Badge	9.58			0.0092 PPM	0.1		10	MOD EPA TO-11	Aldehyde		
Propionaldehyde	123-38-6	581AT	581AT Badge	76.5			0.0011 PPM	0.1		10	MOD EPA TO-11	Aldehyde		
Propyl Acetate #	109-60-4	546AT #	546AT Badge	2.27	OSHA 200 PPM		0.22 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Propyl Acetate	109-60-4	566AT	566AT Badge	9.08	OSHA 200 PPM		0.055 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Propyl Acetate	109-60-4	525AT	525AT Badge	63.8	OSHA 200 PPM		0.0078 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Propylene Glycol Methyl Ether	107-98-2	546AT	546AT Badge	2.42			0.47 PPM	2		6	AT L-OV (GC/FID)	OV List A	1-Methoxy-2-propanol	
Propylene Glycol Methyl Ether #	107-98-2	566AT #	566AT Badge	9.70			0.12 PPM	2		6	AT L-OV (GC/FID)	OV List A	1-Methoxy-2-propanol	
Propylene Glycol Methyl Ether	107-98-2	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min			0.011 PPM	2	10	6	AT L-OV (GC/FID)	OV List A	1-Methoxy-2-propanol	
Propylene Glycol Methyl Ether	107-98-2	525AT	525AT Badge	63.0			0.018 PPM	2		6	AT L-OV (GC/FID)	OV List A	1-Methoxy-2-propanol	
Propylene Oxide #	75-56-9	546AT #	546AT Badge	3.01	OSHA 100 PPM		0.29 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Propylene Oxide	75-56-9	566AT	566AT Badge	12.1	OSHA 100 PPM		0.073 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Propylene Oxide	75-56-9	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 100 PPM		0.0088 PPM	1	10	6	AT L-OV (GC/FID)	OV List A		
Propylene Oxide	75-56-9	525AT	525AT Badge	76.5	OSHA 100 PPM		0.011 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Propylenimine #	75-55-8	585AT #	585AT Badge	10.0	OSHA 2 PPM		0.018 PPM	0.2		10	MOD OSHA 60	Amine		
Pyridine	110-86-1	546AT	546AT Badge	2.58	OSHA 5 PPM		0.22 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Pyridine	110-86-1	566AT	566AT Badge	10.3	OSHA 5 PPM		0.056 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Pyridine #	110-86-1	525AT #	525AT Badge	71.4	OSHA 5 PPM		0.0081 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Selenium	7782-49-2	J5-024 SMR TAB	Smear Tab		OSHA 0.2 MG/M3			5		6	MOD OSHA ID 125G	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Selenium	7782-49-2	JS37MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 0.2 MG/M3		0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125G	ICP		

Assay Technology Inc - Sampling Guide

OSP = Organic Solvent Panel. See X525-25AT

 # - Indicates the badge / chemical combination we recommend.

Many of the NIOSH/OSHA methods have been modified. For a list of significant modifications, go to www.assaytech.com.
Information in this table can change without notice.

Chemical	CAS No	Media/Item #	Media Description	Sampling Rate (mL/min)	PEL	STEL	8 hr Rpt Lmt	RL (ug)	Vol (L)	TAT	Method Ref	Test Group	Synonyms	Notes/Comments
Sevoflurane #	28523-86-6	574AT #	574AT Badge	7.89			0.097 PPM	3		6	MOD OSHA 103	Anesthetic Gas	Ultane	Sampling rate has been lab verified.
Sevoflurane	28523-86-6	J6-001	Tube, Charcoal 50-100mg Tube	0.050 L/min			0.015 PPM	3	12	6	MOD OSHA 103	Anesthetic Gas	Ultane	
Crystalline-Silica (XRD) - Resp	7631-86-9	JS37PVC350	Cassette, PVC Cassette	2.5 L/min					1000	10	MOD NIOSH 7500	Subcontract		For respirable Crystalline Silica with dust, use a three piece pre-weighed PVC cassette, JS37PVCPW350. If Dust is not needed, use JS37PVC350. Attach a cyclone and adjust flow according to the manufacturers cylcone instructions for use. Assay rents SKC Aluminum Cylones. Assay part # R792 / SKC part #225-01-01. XRD analysis is subcontracted to another laboratory. Please contact our customer service department.
Crystalline-Silica (XRD) - Resp	7631-86-9	J5-385-PW	PVC Pre-wt							10	MOD NIOSH 7500	Subcontract		
Crystalline-Silica (XRD) - Total	7631-86-9	JS37PVC250	Cassette, PVC Cassette	2.0 L/min					1000	10	MOD NIOSH 7500	Subcontract		For Total Crystalline Silica with Dust, use a two piece pre-weighed PVC cassette, JS37PVCPW250. If Dust is not needed, use a JS37PVC250 cassette. XRD analysis is subcontracted to another laboratory. Please contact our customer service department.
Silver	7440-22-4	J5-024 SMR TAB	Smear Tab					0.5		6	MOD OSHA ID 125G	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Silver	7440-22-4	JS37MCE208	Cassette, MCE Cassette	2.0 L/min			0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125G	ICP		
Sodium	7440-23-5	J5-024 SMR TAB	Smear Tab					10		6	MOD OSHA ID 125G	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Sodium	7440-23-5	JS37MCE208	Cassette, MCE Cassette	2.0 L/min			0.010 MG/M3	10	1000	6	MOD OSHA ID 125G	ICP		
Stoddard Solvent	8052-41-3	J6-009	Tube, Charcoal 200-1400mg Tube		OSHA 2900 MG/M3	NIOSH CEILING 1800 MG/M3		40		6	MOD NIOSH 1550	OV List C	Mineral Spirits	
Stoddard Solvent	8052-41-3	J6-001	Tube, Charcoal 50-100mg Tube	0.20 L/min	OSHA 2900 MG/M3	NIOSH CEILING 1800 MG/M3	0.42 MG/M3	40	10	6	MOD NIOSH 1550	OV List C	Mineral Spirits	
Stoddard Solvent	8052-41-3	546AT	546AT Badge	1.76	OSHA 2900 MG/M3	NIOSH CEILING 1800 MG/M3	47 MG/M3	40		6	MOD NIOSH 1550	OV List C	Mineral Spirits	
Stoddard Solvent #	8052-41-3	566AT #	566AT Badge	7.03	OSHA 2900 MG/M3	NIOSH CEILING 1800 MG/M3	12 MG/M3	40		6	MOD NIOSH 1550	OV List C	Mineral Spirits	
Stoddard Solvent	8052-41-3	525AT	525AT Badge	53.3	OSHA 2900 MG/M3	NIOSH CEILING 1800 MG/M3	1.6 MG/M3	40		6	MOD NIOSH 1550	OV List C	Mineral Spirits	
Strontium	7440-24-6	J5-024 SMR TAB	Smear Tab					0.05		6	MOD OSHA ID 125G	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Strontium	7440-24-6	JS37MCE208	Cassette, MCE Cassette	2.0 L/min			0.000052 MG/M3	0.05	1000	6	MOD OSHA ID 125G	ICP		
Styrene	100-42-5	546AT	546AT Badge	2.30	OSHA 100 PPM	OSHA CEILING 200 PPM	0.11 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		
Styrene #	100-42-5	566AT #	566AT Badge	9.21	OSHA 100 PPM	OSHA CEILING 200 PPM	0.027 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		
Styrene	100-42-5	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 100 PPM	OSHA CEILING 200 PPM	0.0024 PPM	0.5	10	6	AT L-OV (GC/FID)	OV List A		
Styrene	100-42-5	525AT	525AT Badge	58.4	OSHA 100 PPM	OSHA CEILING 200 PPM	0.0042 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide.
T-Butyl Alcohol	75-65-0	525AT	525AT Badge	83.4	OSHA 100 PPM	NIOSH STEL 150 PPM	0.0082 PPM	1		6	AT L-OV (GC/FID)	OV List A		
T-Butyl Alcohol #	75-65-0	566AT #	566AT Badge	10.7	OSHA 100 PPM	NIOSH STEL 150 PPM	0.064 PPM	1		6	AT L-OV (GC/FID)	OV List A		
T-Butyl Alcohol	75-65-0	546AT	546AT Badge	2.67	OSHA 100 PPM	NIOSH STEL 150 PPM	0.26 PPM	1		6	AT L-OV (GC/FID)	OV List A		
T-Butyl Methyl Ether	1634-04-4	546AT	546AT Badge	2.44			0.21 PPM	0.9		6	AT L-OV (GC/FID)	OV List A	Methyl tert Butyl Ether, MTBE	
T-Butyl Methyl Ether #	1634-04-4	566AT #	566AT Badge	9.77			0.053 PPM	0.9		6	AT L-OV (GC/FID)	OV List A	Methyl tert Butyl Ether, MTBE	
T-Butyl Methyl Ether	1634-04-4	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min			0.0052 PPM	0.9	10	6	AT L-OV (GC/FID)	OV List A	Methyl tert Butyl Ether, MTBE	
T-Butyl Methyl Ether	1634-04-4	525AT	525AT Badge	66.0			0.0079 PPM	0.9		6	AT L-OV (GC/FID)	OV List A	Methyl tert Butyl Ether, MTBE	
Tert-Butyl Acetate #	540-88-5	546AT #	546AT Badge	2.13	OSHA 200 PPM		0.41 PPM	2		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Tert-Butyl Acetate	540-88-5	566AT	566AT Badge	8.50	OSHA 200 PPM		0.10 PPM	2		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Tert-Butyl Acetate	540-88-5	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 200 PPM		0.0088 PPM	2	10	6	AT L-OV (GC/FID)	OV List A		
Tert-Butyl Acetate	540-88-5	525AT	525AT Badge	55.7	OSHA 200 PPM		0.016 PPM	2		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Tetrahydrofuran #	109-99-9	546AT #	546AT Badge	2.70	OSHA 200 PPM		0.21 PPM	0.8		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Tetrahydrofuran	109-99-9	566AT	566AT Badge	10.8	OSHA 200 PPM		0.052 PPM	0.8		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Tetrahydrofuran	109-99-9	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 200 PPM		0.0057 PPM	0.8	10	6	AT L-OV (GC/FID)	OV List A		
Tetrahydrofuran	109-99-9	525AT	525AT Badge	77.7	OSHA 200 PPM		0.0073 PPM	0.8		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide. Sampling rate has been lab verified.
Thallium	7440-28-0	J5-024 SMR TAB	Smear Tab		OSHA 0.1 MG/M3			0.5		6	MOD OSHA ID 125G	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Thallium	7440-28-0	JS37MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 0.1 MG/M3		0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125G	ICP		
Tin	7440-31-5	J5-024 SMR TAB	Smear Tab		OSHA 2 MG/M3			2		6	MOD OSHA ID 125G	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Tin	7440-31-5	JS37MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 2 MG/M3		0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125G	ICP		
Titanium	7440-32-6	J5-024 SMR TAB	Smear Tab					0.2		6	MOD OSHA ID 125G	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Titanium	7440-32-6	JS37MCE208	Cassette, MCE Cassette	2.0 L/min			0.000052 MG/M3	0.05	1000	6	MOD OSHA ID 125G	ICP		
Titanium Dioxide	13463-67-7	JS37MCE208	Cassette, MCE Cassette	2.0 L/min			0.00010 MG/M3	0.1	1000	6	MOD OSHA ID 125G	ICP		
Toluene	108-88-3	546AT	546AT Badge	2.37	OSHA 200 PPM	OSHA CEILING 300 PPM	0.47 PPM	2		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Toluene #	108-88-3	566AT #	566AT Badge	9.48	OSHA 200 PPM	OSHA CEILING 300 PPM	0.12 PPM	2		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Toluene	108-88-3	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 200 PPM	OSHA CEILING 300 PPM	0.011 PPM	2	10	6	AT L-OV (GC/FID)	OV List A		
Toluene	108-88-3	525AT	525AT Badge	69.5	OSHA 200 PPM	OSHA CEILING 300 PPM	0.016 PPM	2		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide. Sampling rate has been lab verified.
Total Hydrocarbons As N-Hexane	8002-05-9	546AT	546AT Badge	2.50			33 MG/M3	40		6	MOD NIOSH 1500	OV List C		All results reported in mg/m3. Hydrocarbon Range from C4 to C15. Some list A chemicals can be analyzed with some list C chemicals. Aromatic and aliphatic hydrocarbons (eg Benzene, Toluene, Ethyl Benzene, Xylenes, n-Hexane) may be analyzed on the same badge/tube, but alcohols, ketones, and acrylates cannot(E.g. MTBE, ethanol, and acetone). Contact customer service with questions.
Total Hydrocarbons As N-Hexane #	8002-05-9	566AT #	566AT Badge	9.88			8.4 MG/M3	40		6	MOD NIOSH 1500	OV List C		All results reported in mg/m3. Hydrocarbon Range from C4 to C15. Some list A chemicals can be analyzed with some list C chemicals. Aromatic and aliphatic hydrocarbons (eg Benzene, Toluene, Ethyl Benzene, Xylenes, n-Hexane) may be analyzed on the same badge/tube, but alcohols, ketones, and acrylates cannot(E.g. MTBE, ethanol, and acetone). Contact customer service with questions.
Total Hydrocarbons As N-Hexane	8002-05-9	J6-001	Tube, Charcoal 50-100mg Tube	0.20 L/min			0.42 MG/M3	40	10	6	MOD NIOSH 1500	OV List C		All results reported in mg/m3. Hydrocarbon Range from C4 to C15. Some list A chemicals can be analyzed with some list C chemicals. Aromatic and aliphatic hydrocarbons (eg Benzene, Toluene, Ethyl Benzene, Xylenes, n-Hexane) may be analyzed on the same badge/tube, but alcohols, ketones, and acrylates cannot(E.g. MTBE, ethanol, and acetone). Contact customer service with questions.
Total Hydrocarbons As N-Hexane	8002-05-9	525AT	525AT Badge	60.9			1.4 MG/M3	40		6	MOD NIOSH 1500	OV List C		All results reported in mg/m3. Hydrocarbon Range from C4 to C15. Some list A chemicals can be analyzed with some list C chemicals. Aromatic and aliphatic hydrocarbons (eg Benzene, Toluene, Ethyl Benzene, Xylenes, n-Hexane) may be analyzed on the same badge/tube, but alcohols, ketones, and acrylates cannot(E.g. MTBE, ethanol, and acetone). Contact customer service with questions.
Total Hydrocarbons As N-Hexane, In F	8002-05-9	J6-001	Tube, Charcoal 50-100mg Tube	0.20 L/min			0.12 PPM	40	10	6	MOD NIOSH 1500	OV List C		All results reported in mg/m3. Hydrocarbon Range from C4 to C15. Some list A chemicals can be analyzed with some list C chemicals. Aromatic and aliphatic hydrocarbons (eg Benzene, Toluene, Ethyl Benzene, Xylenes, n-Hexane) may be analyzed on the same badge/tube, but alcohols, ketones, and acrylates cannot(E.g. MTBE, ethanol, and acetone). Contact customer service with questions.
Trans-1,2-Dichloroethylene	156-60-5	566AT	566AT Badge	9.32	OSHA 200 PPM		0.11 PPM	2		6	AT L-OV (GC/FID)	OV List A		
Trans-1,2-Dichloroethylene	156-60-5	546AT	546AT Badge	2.30	OSHA 200 PPM		0.46 PPM	2		6	AT L-OV (GC/FID)	OV List A		
Trans-1,2-Dichloroethylene	156-60-5	525AT	525AT Badge	75.8	OSHA 200 PPM		0.014 PPM	2		6	AT L-OV (GC/FID)	OV List A		

Assay Technology Inc - Sampling Guide

OSP = Organic Solvent Panel. See X525-25AT

 # - Indicates the badge / chemical combination we recommend.

Many of the NIOSH/OSHA methods have been modified. For a list of significant modifications, go to www.assaytech.com.
Information in this table can change without notice.

Chemical	CAS No	Media/Item #	Media Description	Sampling Rate (mL/min)	PEL	STEL	8 hr Rpt Lmt	RL (ug)	Vol (L)	TAT	Method Ref	Test Group	Synonyms	Notes/Comments
Trichloroethylene	79-01-6	546AT	546AT Badge	2.15	OSHA 100 PPM	OSHA CEILING 200 PPM	0.36 PPM	2		6	AT L-OV (GC/FID)	OV List A	TCE	Sampling rate has been lab verified.
Trichloroethylene #	79-01-6	566AT #	566AT Badge	8.60	OSHA 100 PPM	OSHA CEILING 200 PPM	0.090 PPM	2		6	AT L-OV (GC/FID)	OV List A	TCE	Sampling rate has been lab verified.
Trichloroethylene	79-01-6	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 100 PPM	OSHA CEILING 200 PPM	0.0078 PPM	2	10	6	AT L-OV (GC/FID)	OV List A	TCE	
Trichloroethylene	79-01-6	525AT	525AT Badge	72.9	OSHA 100 PPM	OSHA CEILING 200 PPM	0.011 PPM	2		6	AT L-OV (GC/FID)	OV List A	TCE	This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide. Sampling rate has been lab verified.
Triethylenetetramine #	112-24-3	58SAT #	58SAT Badge	6.05			0.14 PPM	2.5		10	MOD OSHA 60	Amine		
Valeraldehyde #	110-62-3	571AT #	571AT Badge	9.56			0.062 PPM	1		10	MOD EPA TO-11	Aldehyde		
Valeraldehyde	110-62-3	581AT	581AT Badge	66.7			0.0089 PPM	1		10	MOD EPA TO-11	Aldehyde		
Vanadium	7440-62-2	J5-024 SMR TAB	Smear Tab					0.2		6	MOD OSHA ID 125G	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Vanadium	7440-62-2	JS37MCE208	Cassette, MCE Cassette	2.0 L/min			0.00021 MG/M3	0.2	1000	6	MOD OSHA ID 125G	ICP		
Vinyl Acetate	108-05-4	546AT	546AT Badge	2.47			0.24 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Vinyl Acetate #	108-05-4	566AT #	566AT Badge	9.89			0.060 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Vinyl Acetate	108-05-4	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min			0.0059 PPM	1	10	6	AT L-OV (GC/FID)	OV List A		
Vinyl Acetate	108-05-4	525AT	525AT Badge	70.8			0.0084 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Vinyl Chloride	75-01-4	546AT	546AT Badge	2.90	OSHA 1 PPM		0.14 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		It is not recommended that Vinyl Chloride be collected on the 521/525 badge.
Vinyl Chloride #	75-01-4	566AT #	566AT Badge	11.6	OSHA 1 PPM		0.035 PPM	0.5		6	AT L-OV (GC/FID)	OV List A		It is not recommended that Vinyl Chloride be collected on the 521/525 badge.
Vinyl Toluene	25013-15-4	546AT	546AT Badge	2.11	OSHA 100 PPM		0.10 PPM	0.5		6	AT L-OV (GC/FID)	OV List B	Methyl Styrene	
Vinyl Toluene #	25013-15-4	566AT #	566AT Badge	8.43	OSHA 100 PPM		0.026 PPM	0.5		6	AT L-OV (GC/FID)	OV List B	Methyl Styrene	
Vinyl Toluene	25013-15-4	525AT	525AT Badge	59.9	OSHA 100 PPM		0.0036 PPM	0.5		6	AT L-OV (GC/FID)	OV List B	Methyl Styrene	
Vinylidene Chloride	75-35-4	546AT	546AT Badge	2.33			0.27 PPM	1.2		6	AT L-OV (GC/FID)	OV List A	1,1 DCE	
Vinylidene Chloride	75-35-4	566AT	566AT Badge	9.32			0.068 PPM	1.2		6	AT L-OV (GC/FID)	OV List A	1,1 DCE	
Vinylidene Chloride	75-35-4	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min			0.0063 PPM	1.2	10	6	AT L-OV (GC/FID)	OV List A	1,1 DCE	
Vinylidene Chloride #	75-35-4	525AT #	525AT Badge	63.9			0.0099 PPM	1.2		6	AT L-OV (GC/FID)	OV List A	1,1 DCE	
VM&P Naphtha #	8032-32-4	566AT #	566AT Badge	8.92	NIOSH 350 MG/M3	NIOSH CEILING 1800 MG/M3	9.3 MG/M3	40		6	MOD NIOSH 1550	OV List C	VMP Naphtha	
VM&P Naphtha	8032-32-4	J6-001	Tube, Charcoal 50-100mg Tube	0.20 L/min	NIOSH 350 MG/M3	NIOSH CEILING 1800 MG/M3	0.42 MG/M3	40	10	6	MOD NIOSH 1550	OV List C	VMP Naphtha	
VM&P Naphtha	8032-32-4	546AT	546AT Badge	2.23	NIOSH 350 MG/M3	NIOSH CEILING 1800 MG/M3	37 MG/M3	40		6	MOD NIOSH 1550	OV List C	VMP Naphtha	
VM&P Naphtha	8032-32-4	525AT	525AT Badge	56.1	NIOSH 350 MG/M3	NIOSH CEILING 1800 MG/M3	1.5 MG/M3	40		6	MOD NIOSH 1550	OV List C	VMP Naphtha	
Xylenes	1330-20-7	546AT	546AT Badge	1.89	OSHA 100 PPM	NIOSH STEL 150 PPM	0.25 PPM	1		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Xylenes #	1330-20-7	566AT #	566AT Badge	7.54	OSHA 100 PPM	NIOSH STEL 150 PPM	0.064 PPM	1		6	AT L-OV (GC/FID)	OV List A		Sampling rate has been lab verified.
Xylenes	1330-20-7	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 100 PPM	NIOSH STEL 150 PPM	0.0048 PPM	1	10	6	AT L-OV (GC/FID)	OV List A		
Xylenes	1330-20-7	525AT	525AT Badge	60.5	OSHA 100 PPM	NIOSH STEL 150 PPM	0.0079 PPM	1		6	AT L-OV (GC/FID)	OV List A		This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide. Sampling rate has been lab verified.
Zinc	7440-66-6	J5-024 SMR TAB	Smear Tab					2		6	MOD OSHA ID 125G	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Zinc	7440-66-6	JS37MCE208	Cassette, MCE Cassette	2.0 L/min			0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125G	ICP		
Zinc Chloride	7646-85-7	JS37MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 1 MG/M3		0.0010 MG/M3	1	1000	6	MOD OSHA ID 125G	ICP		
Zinc Oxide	1314-13-2	J5-024 SMR TAB	Smear Tab					3		6	MOD OSHA ID 125G	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Zinc Oxide	1314-13-2	JS37MCE208	Cassette, MCE Cassette	2.0 L/min			0.0010 MG/M3	1	1000	6	MOD OSHA ID 125G	ICP		