

# Assay Technology Inc - Sampling Guide

# - 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
Acetaldehyde #	75-07-0	571AT #	571AT Badge	11.7	OSHA 200 PPM	25 PPM	0.30 PPM	3	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		0.04 PPM	3	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	MOD OSHA 1865G	Acetic Acid	Propenal	
Acetic Acid #	64-19-7	543AT #	543AT Badge	11.0	OSHA 10 PPM		0.23 PPM	3		6	MOD OSHA 1865G	Acetic Acid	Propenal	Can only be collected on 543 monitor. The media inside the badge changed with lot
Acetone #	67-64-1	546AT #	546AT Badge	3.23	OSHA 1000 PPM		0.54 PPM	2	2	6	AT-LV (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	2	6	AT-LV (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 1000 PPM		0.018 PPM	2	10	6	AT-LV (GC/FID)	OV List A		
Acetone	67-64-1	525AT	525AT Badge	87.2	OSHA 1000 PPM		0.020 PPM	2	2	6	AT-LV (GC/FID)	OV List A		This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on
Acetonitrile	75-05-8	546AT	546AT Badge	3.48	OSHA 40 PPM		0.50 PPM	1.4		6	AT-LV (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-LV (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-LV (GC/FID)	OV List A		
Acetonitrile	75-05-8	525AT	525AT Badge	98.3	OSHA 40 PPM		0.018 PPM	1.4		6	AT-LV (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-LV (GC/FID)	OV List B		
Acrolein #	107-02-8	592AT #	592AT Badge	8.56	OSHA 0.1 PPM		0.053 PPM	0.5	10	6	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	6	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	0.096 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-LV (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-LV (GC/FID)	OV List A		
Allyl Alcohol	107-18-6	525AT #	525AT #	84.8	OSHA 2 PPM	NIOSH CEILING 4 PPM	0.0053 PPM	0.9		6	AT-LV (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-LV (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-LV (GC/FID)	OV List A		
Allyl Chloride #	107-05-1	525AT #	525AT #	84.8	OSHA 2 PPM		0.0086 PPM	1.1		6	AT-LV (GC/FID)	OV List A		
Aluminum	7429-90-5	J57MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 15 MG/M3		0.0021 MG/M3	2	1000	6	MOD OSHA ID 125	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water
Aluminum	7429-90-5	J8114K SMR TAB	Smear Tab		OSHA 15 MG/M3			2		6	MOD OSHA ID 125	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water
Aluminum Chloride	7446-70-0	J8114K SMR TAB	Smear Tab		OSHA 0.5 MG/M3			5		6	MOD OSHA ID 125	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water
Aluminum Chloride	7446-70-0	J57MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 0.5 MG/M3		0.0052 MG/M3	5	1000	6	MOD OSHA ID 125	ICP		
Ammonia #	7664-41-7	584AT #	584AT Badge	28.8	OSHA 50 PPM		0.31 PPM	3		6	MOD OSHA ID 188	Ammonia		Sampling rate has been lab verified.
Ammonia	7664-41-7	J6-010-06	Tube, Silica Gel-w/H2SO4 100-1200mg Tube	0.10 L/min	OSHA 50 PPM		0.090 PPM	3	24	6	MOD OSHA ID 188	Ammonia		
Amyl Acetate	628-63-7	546AT	546AT Badge	2.01			0.18 PPM	0.9		6	AT-LV (GC/FID)	OV List A		
Amyl Acetate #	628-63-7	566AT #	566AT #	8.03			0.044 PPM	0.9		6	AT-LV (GC/FID)	OV List A		
Antimony	7440-36-0	J8114K SMR TAB	Smear Tab		OSHA 0.5 MG/M3			0.5		6	MOD OSHA ID 125	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water
Antimony	7440-36-0	J57MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 0.5 MG/M3		0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125	ICP		
Arsenic	7440-38-2	J8109K G WIPE	Ghost Wipe		OSHA 0.01 MG/M3	NIOSH CEILING 0.002 MG/M3		0.5		6	MOD OSHA ID 125	ICP		J8109K: J5-025 + J8054 (Ghost wipe with Vial). Ghost wipes are pre-moistened with DI water.
Arsenic	7440-38-2	J8114K SMR TAB	Smear Tab		OSHA 0.01 MG/M3	NIOSH CEILING 0.002 MG/M3		0.5	1000	6	MOD OSHA ID 125	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water.
Arsenic	7440-38-2	J57MCE208	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 125	ICP	
Barium	7440-39-3	J8114K SMR TAB	Smear Tab		NIOSH 0.5 MG/M3			0.05		6	MOD OSHA ID 125	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water.
Barium	7440-39-3	J57MCE208	Cassette, MCE Cassette	2.0 L/min	NIOSH 0.5 MG/M3		0.000052 MG/M3	0.05	1000	6	MOD OSHA ID 125	ICP		
Benzaldehyde #	100-52-7	571AT #	571AT Badge	6.97			0.021 PPM	0.3	10	6	MOD EPA TO-11	Aldehyde	Benzal	
Benzaldehyde	100-52-7	581AT	581AT Badge	65.8			0.0022 PPM	0.3	10	6	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-LV (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-LV (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-LV (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-LV (GC/FID)	OV List A		This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on
Benzyl Alcohol #	100-51-6	546AT #	546AT Badge	8.50			0.28 PPM	5		6	AT-LV (GC/FID)			
Benzyl Alcohol	100-51-6	546AT	546AT Badge	2.13			1.1 PPM	5		6	AT-LV (GC/FID)			
Benzyl Alcohol	100-51-6	525AT	525AT Badge	6.53			0.036 PPM	5		6	AT-LV (GC/FID)			
Benzyl Chloride	100-44-7	546AT	546AT Badge	2.04	OSHA 1 PPM	NIOSH CEILING 1 PPM	0.20 PPM	1		6	AT-LV (GC/FID)	OV List B		
Benzyl Chloride	100-44-7	566AT	566AT Badge	8.34	OSHA 1 PPM	NIOSH CEILING 1 PPM	0.048 PPM	1		6	AT-LV (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-LV (GC/FID)	OV List B		
Benzyl Chloride #	100-44-7	525AT #	525AT #	59.2	OSHA 1 PPM	NIOSH CEILING 1 PPM	0.0068 PPM	1		6	AT-LV (GC/FID)	OV List B		
Beryllium	7440-41-7	J8114K SMR TAB	Smear Tab		OSHA 0.002 MG/M3	OSHA CEILING 0.005 MG/M3		0.05		6	MOD OSHA ID 125	ICP		Does not include Beryllium Oxide. Contact Customer Service for Beryllium Oxide
Beryllium	7440-41-7	J8109K G WIPE	Ghost Wipe		OSHA 0.002 MG/M3	OSHA CEILING 0.005 MG/M3		0.05		6	MOD OSHA ID 125	ICP		Does not include Beryllium Oxide. Contact Customer Service for Beryllium Oxide
Beryllium	7440-41-7	J57MCE208	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 125	ICP	
Boron	7440-42-8	J8114K SMR TAB	Smear Tab		OSHA 0.002 MG/M3			0.5		6	MOD OSHA ID 125	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water.
Boron	7440-42-8	J57MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 0.002 MG/M3		0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125	ICP		
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		
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-LV (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 #	12.8	OSHA 1 PPM	OSHA STEL 5 PPM	0.044 PPM	0.6		6	AT-LV (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-LV (GC/FID)	OV List A		It is not recommended that 1,3-Butadiene be collected on the 521/525 badge.
2-Butanol	78-92-2	546AT	546AT Badge	2.67	OSHA 150 PPM	NIOSH STEL 150 PPM	0.18 PPM	0.7		6	AT-LV (GC/FID)	OV List A	sec-Butyl Alcohol	
2-Butanol #	78-92-2	566AT #	566AT #	10.7	OSHA 150 PPM	NIOSH STEL 150 PPM	0.045 PPM	0.7		6	AT-LV (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-LV (GC/FID)	OV List A	Butyl Cellulosive	Sampling rate has been lab verified.
2-Butoxyethanol #	111-76-2	566AT #	566AT #	8.43	OSHA 50 PPM		0.26 PPM	5		6	AT-LV (GC/FID)	OV List A	Butyl Cellulosive	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-LV (GC/FID)	OV List A	Butyl Cellulosive	
2-Butoxyethanol	111-76-2	525AT	525AT Badge	52.7	OSHA 50 PPM		0.041 PPM	5		6	AT-LV (GC/FID)	OV List A	Butyl Cellulosive	Sampling rate has been lab verified.
N-Butyl Acetate #	123-86-4	546AT #	546AT Badge	1.99	OSHA 150 PPM		0.20 PPM	0.9		6	AT-LV (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-LV (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-LV (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-LV (GC/FID)	OV List A		This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide.
Tert-Butyl Acetate #	540-88-5	546AT #	546AT Badge	2.13	OSHA 200 PPM		0.41 PPM	2		6	AT-LV (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-LV (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							

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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
Calcium	7440-70-2	J537MCE208	Cassette, MCE Cassette	2.0 L/min			0.0021 MG/M3	2	1000	6	MOD OSHA ID 125	ICP		
Camphor	76-22-2	566AT	566AT Badge	1.61			0.12 PPM	0.6		6	AT-LV (GC/FID)	OV List B		
Camphor	76-22-2	566AT	566AT Badge	6.43			0.031 PPM	0.6		6	AT-LV (GC/FID)	OV List B		
Camphor #	76-22-2	525AT #	525AT Badge	47.7			0.0042 PPM	0.6		6	AT-LV (GC/FID)	OV List B		
Carbon Black	1333-86-4	J537PVCPU250	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-LV (GC/FID)	OV List A	Tetrachloromethane	
Carbon Tetrachloride	56-23-5	566AT	566AT Badge	7.38	OSHA 10 PPM	OSHA CEILING 25 PPM	0.32 PPM	5		6	AT-LV (GC/FID)	OV List A	Tetrachloromethane	
Carbon Tetrachloride	56-23-5	J6-001	Tube, Charcoal 50-100mg Tube	0.017 L/min	OSHA 10 PPM	OSHA CEILING 25 PPM	0.017 PPM	5	10	6	AT-LV (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-LV (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-LV (GC/FID)	OV List A		
Chlorobenzene #	108-90-7	566AT #	566AT Badge	8.64	OSHA 75 PPM		0.031 PPM	0.6		6	AT-LV (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-LV (GC/FID)	OV List A		
Chlorobenzene	108-90-7	525AT	525AT Badge	62.2	OSHA 75 PPM		0.0044 PPM	0.6		6	AT-LV (GC/FID)	OV List A		
Chloroform	67-66-3	546AT	546AT Badge	2.10	OSHA CEILING 50 PPM		0.61 PPM	3		6	AT-LV (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-LV (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-LV (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-LV (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	J8109K G WIPE	Ghost Wipe		OSHA 1 MG/M3			0.05		6	MOD OSHA ID 125	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	J8114K SMR TAB	Smear Tab		OSHA 1 MG/M3			0.5		6	MOD OSHA ID 125	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	J537MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 1 MG/M3		0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125	ICP		
Chromium Hexavalent Ion	18540-29-9	J537PVCPU250	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	J8114K SMR TAB	Smear Tab		OSHA 0.1 MG/M3			0.2		6	MOD OSHA ID 125	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	J537MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 0.1 MG/M3		0.00052 MG/M3	0.05	1000	6	MOD OSHA ID 125	ICP		
Copper	7440-50-8	J8114K SMR TAB	Smear Tab		OSHA 0.1 MG/M3			0.5		6	MOD OSHA ID 125	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	J537MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 0.1 MG/M3		0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125	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	566AT	566AT Badge	86.2			0.021 PPM	5		10	MOD OSHA 32	Phenol		
Cresol, Total #	1319-77-3	525AT #	525AT Badge	86.2			0.027 PPM	5		10	MOD OSHA 32	Phenol		Cresol on a 525 badge is sold as a X525-4AT. If Cresol is submitted on a 525-1, there will be an additional fee. Contact our customer service group for more details. Total Cresol is the sum of o-, m- & p-cresol.
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	0.6		10	MOD EPA TO-11	Aldehyde		
Cumene	98-82-8	546AT	546AT Badge	2.09			0.10 PPM	0.5		6	AT-LV (GC/FID)	OV List A		
Cumene #	98-82-8	566AT #	566AT Badge	8.36			0.025 PPM	0.5		6	AT-LV (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-LV (GC/FID)	OV List A		
Cumene	98-82-8	525AT	525AT Badge	54.6			0.0039 PPM	0.5		6	AT-LV (GC/FID)	OV List A		
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.
Cyclohexane #	110-82-7	546AT #	546AT Badge	2.21	OSHA 300 PPM		0.16 PPM	0.6		6	AT-LV (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-LV (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-LV (GC/FID)	OV List A		
Cyclohexane	110-82-7	525AT	525AT Badge	59.9	OSHA 300 PPM		0.0061 PPM	0.6		6	AT-LV (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-LV (GC/FID)	OV List A		
Cyclohexanol #	108-93-0	566AT #	566AT Badge	9.16	OSHA 50 PPM		0.039 PPM	0.7		6	AT-LV (GC/FID)	OV List A		
Cyclohexanol	108-93-0	525AT	525AT Badge	56.7	OSHA 50 PPM		0.0063 PPM	0.7		6	AT-LV (GC/FID)	OV List A		
Cyclohexanone	108-94-1	546AT	546AT Badge	2.34	OSHA 50 PPM		0.13 PPM	0.6		6	AT-LV (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-LV (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-LV (GC/FID)	OV List A		
Cyclohexanone	108-94-1	525AT	525AT Badge	66.8	OSHA 50 PPM		0.0047 PPM	0.6		6	AT-LV (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	
Disacetone Alcohol	123-42-2	546AT	546AT Badge	2.13	OSHA 50 PPM		0.21 PPM	1		6	AT-LV (GC/FID)	OV List A		
Disacetone Alcohol #	123-42-2	566AT #	566AT Badge	8.50	OSHA 50 PPM		0.031 PPM	1		6	AT-LV (GC/FID)	OV List A		
1,3-Diaminopropane	462-94-2	585AT	585AT Badge	7.30			0.068 PPM	1		10	MOD OSHA 60	Amine		
1,3-Diaminopropane	109-76-2	585AT	585AT Badge	8.60			0.080 PPM	1		10	MOD OSHA 60	Amine		
1,2-Dibromoethane #	106-93-4	566AT #	566AT Badge	6.67			0.12 PPM	3		6	AT-LV (GC/FID)	OV List A	Ethylene Dibromide	
1,2-Dibromoethane	106-93-4	546AT	546AT Badge	1.67			0.49 PPM	3		6	AT-LV (GC/FID)	OV List A	Ethylene Dibromide	
1,2-Dibromoethane	106-93-4	525AT	525AT Badge	71.2			0.011 PPM	3		6	AT-LV (GC/FID)	OV List A	Ethylene Dibromide	
1,2-Dichlorobenzene #	95-50-1	566AT #	566AT Badge	6.78	OSHA 50 PPM	50 PPM	0.051 PPM	1		6	AT-LV (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-LV (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-LV (GC/FID)	OV List B		
1,4-Dichlorobenzene #	106-46-7	566AT #	566AT Badge	6.78	OSHA 75 PPM		0.051 PPM	1		6	AT-LV (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-LV (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-LV (GC/FID)	OV List B	p-Dichlorobenzene	
1,1-Dichloroethane	75-34-3	546AT	546AT Badge	2.30	OSHA 100 PPM		0.45 PPM	2		6	AT-LV (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-LV (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-LV (GC/FID)	OV List A		
1,1-Dichloroethane	75-34-3	525AT	525AT Badge	76.4	OSHA 100 PPM		0.011 PPM	2		6	AT-LV (GC/FID)	OV List A		
1,2-Dichloroethane	107-06-2	546AT	546AT Badge	2.31	OSHA 50 PPM	OSHA CEILING 100 PPM	0.45 PPM	2		6	AT-LV (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-LV (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-LV (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-LV (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-LV (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-LV (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-LV (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										

# Assay Technology Inc - Sampling Guide

# - 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](http://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	546AT	546AT Badge	1.92	OSHA 50 PPM		0.17 PPM	0.9		6	AT-LV (GC/FID)	OV List B	2,6-Dimethyl-4-heptanone		
Diisobutyl Ketone	108-83-8	525AT	525AT Badge	56.4	OSHA 50 PPM		0.0057 PPM	0.9		6	AT-LV (GC/FID)	OV List B	2,6-Dimethyl-4-heptanone		
Dimethylamine #	124-40-3	585AT #	585AT Badge	1.11	OSHA 10 PPM		0.031 PPM	0.3		10	MOD OSHA 60		Amine		
N-N-Dimethylaniline	121-69-7	546AT	546AT Badge	2.08			0.12 PPM	0.6		6	AT-LV (GC/FID)	OV List B			
N-N-Dimethylaniline #	121-69-7	566AT	566AT Badge	8.32			0.030 PPM	0.6		6	AT-LV (GC/FID)	OV List B			
N-N-Dimethylaniline #	121-69-7	525AT #	525AT Badge	59.4			0.0042 PPM	0.6		6	AT-LV (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-LV (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-LV (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-LV (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-LV (GC/FID)	OV List A	DMF	Sampling rate has been lab verified.	
Dimethylsulfoxide #	67-68-5	566AT #	566AT Badge	10.4			0.63 PPM	10		10	AT-LV (GC/FID)		DMSO	Analysis only compatible with Methyl Ethyl Ketoxime. Analyzed in the California Lab.	
Dimethylsulfoxide	67-68-5	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min			0.065 PPM	10	10	10	AT-LV (GC/FID)		DMSO		
1,4-Dioxane	123-91-1	546AT	546AT Badge	2.44	OSHA 100 PPM	NIOSH CEILING 1 PPM	0.47 PPM	2		6	AT-LV (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-LV (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-LV (GC/FID)	OV List A			
1,4-Dioxane #	123-91-1	525AT #	525AT Badge	60.1	OSHA 100 PPM	NIOSH CEILING 1 PPM	0.010 PPM	2		6	AT-LV (GC/FID)	OV List B			
1,3-Dioxolane	646-06-0	566AT	566AT Badge	10.2			0.067 PPM	1		6	AT-LV (GC/FID)	OV List A		Sampling rate has been lab verified.	
1,3-Dioxolane	646-06-0	546AT	546AT Badge	2.60			0.26 PPM	1		6	AT-LV (GC/FID)	OV List A			
Dipropylene Glycol Methylene Ether	34590-94-8	546AT	546AT Badge	1.88	OSHA 100 PPM		3.1 PPM	17		6	AT-LV (GC/FID)	OV List B			
Dipropylene Glycol Methylene Ether #	34590-94-8	566AT #	566AT Badge	7.52	OSHA 100 PPM		0.78 PPM	17		6	AT-LV (GC/FID)	OV List B			
Dipropylene Glycol Methylene Ether #	34590-94-8	525AT #	525AT Badge	55.8	OSHA 100 PPM		0.10 PPM	17		6	MOD NIOSH 7401	OV List B			
Dust, Alkaline	1318-93-0	J537P2210	Cassette, PTFE Cassette	2.0 L/min					1000	10	MOD NIOSH 7401	Subcontract		This analysis will be subcontracted to another laboratory. Contact Customer Service.	
Dust, Respirable	1318-93-0	J537PVCW350	Cassette, PVC Pre-wt Cassette	2.5 L/min	OSHA 5 MG/M3		0.017 MG/M3		400	6	MOD NIOSH 600	Gravimetric		Attach a cyclone and adjust flow according to the manufacturers cyclone instructions for use. Assay rents SKC Aluminum Cylones. Assay part # R792 / SKC part #225-01-01.	
Dust, Total	1318-93-0	J537PVCW250	Cassette, PVC Pre-wt Cassette		OSHA 15 MG/M3				20	6	MOD NIOSH 500	Gravimetric			
Enflurane #	13838-16-9	574AT #	574AT Badge	8.15			0.10 PPM	3		6	MOD OSHA 103	Anesthetic Gas	Ethane	Sampling rate has been lab verified.	
Enflurane	13838-16-9	J6-001	Tube, Charcoal 50-100mg Tube	0.050 L/min			0.017 PPM	3	12	6	MOD OSHA 103	Anesthetic Gas	Ethane		
Epichlorohydrin	106-89-8	546AT	546AT Badge	2.39	OSHA 5 PPM		0.78 PPM	1.2		6	AT-LV (GC/FID)	OV List A			
Epichlorohydrin	106-89-8	566AT	566AT Badge	9.54	OSHA 5 PPM		0.065 PPM	1.2		6	AT-LV (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-LV (GC/FID)	OV List A			
Epichlorohydrin #	106-89-8	525AT #	525AT Badge	65.0	OSHA 5 PPM		0.010 PPM	1.2		6	AT-LV (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.	
2-Ethoxyethanol	110-80-5	546AT	546AT Badge	2.42	OSHA 200 PPM		0.47 PPM	2		6	AT-LV (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-LV (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-LV (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-LV (GC/FID)	OV List A	Cellosolve		
Ethyl Acetate #	141-78-6	546AT #	546AT Badge	2.25	OSHA 400 PPM		0.52 PPM	2		6	AT-LV (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-LV (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		0.001 PPM	2	10	6	AT-LV (GC/FID)	OV List A			
Ethyl Acetate	141-78-6	525AT	525AT Badge	71.6	OSHA 400 PPM		0.016 PPM	2		6	AT-LV (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-LV (GC/FID)	OV List A			
Ethyl Acrylate	140-88-5	566AT	566AT Badge	9.36	OSHA 25 PPM		0.050 PPM	0.9		6	AT-LV (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-LV (GC/FID)	OV List A			
Ethyl Alcohol #	64-17-5	546AT #	546AT Badge	3.39	OSHA 1000 PPM		3.3 PPM	10		6	AT-LV (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-LV (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-LV (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-LV (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-LV (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-LV (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-LV (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-LV (GC/FID)	OV List A	Diethyl Ether		
Ethyl Methacrylate #	97-63-2	546AT #	546AT Badge	8.41			0.053 PPM	1		6	AT-LV (GC/FID)	OV List A			
Ethyl Methacrylate	97-63-2	546AT	546AT Badge	2.10			0.21 PPM	1		6	AT-LV (GC/FID)	OV List A			
Ethyl Methacrylate	97-63-2	525AT	525AT Badge	57.9			0.0077 PPM	1		6	AT-LV (GC/FID)	OV List A			
2-Ethyl-1-Hexylamine	104-75-6	585AT	585AT Badge	6.50			0.18 PPM	3		10	MOD OSHA 60		Amine		
2-Ethylacrolein	922-63-4	592AT	592AT Badge	8.20			0.037 PPM	0.5		10	MOD OSHA 52		Acrolein		
Ethylbenzene #	75-04-7	585AT #	585AT #	11.1	OSHA 10 PPM		0.031 PPM	0.3		6	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-LV (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-LV (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-LV (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-LV (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-LV (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-LV (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-LV (GC/FID)	OV List A			
Ethylene Glycol Dimethyl Ether	110-71-4	546AT	546AT Badge	2.42			0.23 PPM	1		6	AT-LV (GC/FID)	OV List A	Dimethoxyethane, 1,2-Dimethoxyethane		
Ethylene Glycol Dimethyl Ether	110-71-4	566AT	566AT Badge	9.66			0.053 PPM	1		6	AT-LV (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-LV (GC/FID)	OV List A	Dimethoxyethane, 1,2-Dimethoxyethane		
Ethylene Oxide	75-21-8	J6-ORBO-78	Tube, ORBO 78 Hbr Treated Tube	0.10 L/min	OSHA 1 PPM		0.012 PPM	1	24	6	MOD ASTM D5578		Ethylene Oxide		
Ethylene Oxide	75-21-8	555C	555C Badge	12.4	OSHA 1 PPM	OSHA STEL 5 PPM	0.011 PPM	0.12		6	MOD ASTM D5578		Ethylene Oxide		
Ethylendiamine #	107-15-3	585AT #	585AT Badge	9.59	OSHA 10 PPM		0.027 PPM	0.3		10	MOD OSHA 60		Amine		
Formaldehyde #	50-00-0	571AT #	571AT Badge	16.2	OSHA 0.75 PPM		0.010 PPM	0.1		6	MOD OSHA 1007		Aldehyde	Formalin	Sampling rate has been lab verified. For more information about using badges for formaldehyde from Formalin, go to <a href="https://www.assaytech.com/product/571-aldehyde-monitor/">https://www.assaytech.com/product/571-aldehyde-monitor/</a> Sampling rate has been lab verified.
Formaldehyde	50-00-0	581AT	581AT Badge	124	OSHA 0.75 PPM		0.0014 PPM	0.1		6	MOD OSHA 1007		Aldehyde	Formalin	The 580 badge has been replaced by the 581 badge. For more information about using badges for formaldehyde from Formalin, go to <a href="https://www.assaytech.com/product/571-aldehyde-monitor/">https://www.assaytech.com/product/571-aldehyde-monitor/</a> 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		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			0.00056 PPM	0.008		6	MOD OSHA 64		Aldehyde	Cidex	Sampling rate has been lab verified.
Glutaraldehyde	111-30-8	J6-9003	Cassette, GFF 2-4-DNPH	0.1 L/min			0.000030 PPM	0.04	120	6	MOD OSHA 64		Aldehyde	Cidex	
Glutaraldehyde #	111-30-8	581AT #	581AT Badge	63.2			0.000064 PPM	0.008		6	MOD OSHA 64		Aldehyde	Cidex	
Halothane #	151-67-7														

# Assay Technology Inc - Sampling Guide

# - 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
N-Hexane	110-54-3	52SAT	52SAT 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.
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	52SAT #	52SAT Badge	78.8	OSHA 100 PPM		0.0032 PPM	5		6	AT-L-OV (GC/FID)	OV List A	MBK, Methyl Butyl Ketone	
Hydrobromic Acid	10985-10-6	J6-010-03	Tube, Silica Gel Washed 200-1400mg Tube	0.20 L/min	OSHA 3 PPM		0.015 PPM	5		6	MOD NIOSH 7903	Acid	HBr, Hydrogen Bromide	
Hydrochloric Acid	7647-01-0	J6-010-03	Tube, Silica Gel Washed 200-1400mg Tube	0.20 L/min	OSHA 3 PPM	OSHA CEILING 5 PPM	0.014 PPM	2		6	MOD NIOSH 7903	Acid	HCl, Hydrogen Chloride, Muriatic acid	
Hydrofluoric Acid	7664-39-3	J6-010-03	Tube, Silica Gel Washed 200-1400mg Tube	0.20 L/min	OSHA 3 PPM		0.025 PPM	2		6	MOD NIOSH 7903	Acid	HF, Hydrogen Fluoride	
Hydrogen Cyanide	74-90-8	J6-028	Tube, Soda Lime 200-1600mg Tube	0.10 L/min	OSHA 10 PPM				90	10	MOD NIOSH 6010	Subcontract		This analysis will be subcontracted to another laboratory. Contact Customer Service.
Hydrogen Peroxide #	7722-84-1	587AT #	587AT Badge	137	OSHA 1 PPM		0.020 PPM	1.8		6	MOD OSHA V16	Subcontract		The 587 monitors are manufactured and analyzed by Advanced Chemical Sensor, AHA LAP, LLC 100247. Badges are sent to AT Labs and subcontracted to ACS.
Hydrogen Sulfide	7783-06-4	J6-ORBO-32	Tube, ORBO 32 Charcoal Tube	0.20 L/min		OSHA CEIL 20 PPM	0.064 PPM	8.5	40	6	MOD NIOSH 6013	H2S		Order Kit: J8112K, which includes a cassette (J537PP210) that traps any particulate sulfate present which would cause a high bias. Only the J6-ORBO 32 tube is analyzed. Not validated on the 546, 566, 525 nor 521 badges.
Indium	7440-74-6	J8114K SMR TAB	Smear Tab					0.5		6	MOD OSHA ID 125	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	J537MCE208	Cassette, MCE Cassette	2.0 L/min			0.0052 MG/M3	0.5	1000	6	MOD OSHA ID 125	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Isomethane	74-88-4	566AT	566AT Badge	7.40	OSHA 5 PPM		0.48 PPM	10		10	AT-L-OV (GC/FID)	ICP		
Iron	7439-89-6	J8114K SMR TAB	Smear Tab					2		6	MOD OSHA ID 125	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	J537MCE208	Cassette, MCE Cassette	2.0 L/min			0.0021 MG/M3	2	1000	6	MOD OSHA ID 125	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	J8114K SMR TAB	Smear Tab					3		6	MOD OSHA ID 125	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	J537MCE208	Cassette, MCE Cassette	2.0 L/min			0.0031 MG/M3	3	1000	6	MOD OSHA ID 125	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	52SAT	52SAT Badge	76.7	OSHA 100 PPM		0.0088 PPM	0.9		6	AT-L-OV (GC/FID)	OV List A		
Isoamyl 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		
Isoamyl 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		
Isoamyl Acetate	110-19-0	52SAT	52SAT Badge	63.6	OSHA 150 PPM		0.0069 PPM	1		6	AT-L-OV (GC/FID)	OV List A		
Isoamyl 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.
Isoamyl 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.
Isoamyl 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	
Isoamyl Alcohol	78-83-1	52SAT	52SAT 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.
Isosulfurane #	26675-46-7	574AT #	574AT Badge	7.87	CAL 2 PPM		0.11 PPM	3		6	MOD OSHA 103	Anesthetic Gas	Forane	
Isosulfurane	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	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		0.029 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	52SAT	52SAT Badge	50.0	OSHA 25 PPM		0.0044 PPM	0.6		6	AT-L-OV (GC/FID)	OV List B		
Isophorone Dithiocyanate	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	Isoyanates	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	0.050 L/min	OSHA 250 PPM		0.0050 PPM	1	10	6	AT-L-OV (GC/FID)	OV List A		
Isopropyl Acetate	108-21-4	52SAT	52SAT 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		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		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		0.0085 PPM	1	10	6	AT-L-OV (GC/FID)	OV List A	IPA	
Isopropyl Alcohol	67-63-0	52SAT	52SAT Badge	67.2	OSHA 400 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.
Lead	7439-92-1	J8114K SMR TAB	Smear Tab			OSHA 0.05 MG/M3		0.5		6	MOD OSHA ID 125	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	J8109K G WIPE	Ghost Wipe			OSHA 0.05 MG/M3		0.5		6	MOD OSHA ID 125	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	J537MCE208	Cassette, MCE Cassette	2.0 L/min		OSHA 0.05 MG/M3	0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
D-Limonene	5989-27-5	546AT	546AT Badge	1.96	OSHA 25 PPM		0.38 PPM	2		6	AT-L-OV (GC/FID)	OV List A		
D-Limonene #	5989-27-5	566AT #	566AT Badge	7.86	OSHA 25 PPM		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	OSHA 25 PPM		0.0005 PPM	2	10	6	AT-L-OV (GC/FID)	OV List A		
D-Limonene	5989-27-5	52SAT	52SAT Badge	57.2	OSHA 25 PPM		0.013 PPM	2		6	AT-L-OV (GC/FID)	OV List A		
Magnesium	7439-95-4	J8114K SMR TAB	Smear Tab			OSHA 15 MG/M3		0.5		6	MOD OSHA ID 125	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	J537MCE208	Cassette, MCE Cassette	2.0 L/min		OSHA 15 MG/M3	0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125	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	J8114K SMR TAB	Smear Tab			OSHA CEILING 5 MG/M3		0.5		6	MOD OSHA ID 125	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	J537MCE208	Cassette, MCE Cassette	2.0 L/min		OSHA CEILING 5 MG/M3	0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125	ICP		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
4,4-MDI	101-88-8	J5-9002	Cassette, GFF w/ 1, PP	1.0 L/min		OSHA CEILING 0.02 PPM	0.000081 PPM	0.4	240	10	MOD OSHA 47	Isoyanates	Methylene Bisphenyl Isocyanate	Sample openface (See method)
Mercury #	7439-97-6	593AT #	593AT Badge	14.9	OSHA 0.1 MG/M3	CAL OSHA CEILING 0.1 MG/M3	0.0070 MG/M3	0.005		6	AT CVAF	Mercury		Sampling rate has been lab verified.
Mercury	7439-97-6	J537MCE208	Cassette, MCE Cassette	2.0 L/min		OSHA 0.1 MG/M3	0.000021 MG/M3	0.02	1000	6	AT CVAF	Mercury		Particulates Only
Mercury	7439-97-6	J8114K SMR TAB	Smear Tab			CAL OSHA CEILING 0.1 MG/M3		0.02		6	AT CVAF	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	52SAT	52SAT Badge	59.5	OSHA 25 PPM		0.036 PPM	5		6	AT-L-OV (GC/FID)	OV List A	1,3,5-Trimethylbenzene	
Methamphetamine	537-46-2	J8109K G WIPE	Ghost Wipe					1	10	HPLC	HPLC			Buy wipe kit, J8110K. Kit contains a ghost wipe, wipe template, return vial, and the analysis cost. Price including the analysis: \$100. The analysis is not part of the lab's ISO 17025 accreditation.
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 Cellulose	
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 Cellulose	
2-Methoxyethanol	109-86-4	52SAT	52SAT Badge	59.4	OSHA 25 PPM		0.025 PPM	2.2		6	AT-L-OV (GC/FID)	OV List A	Methyl Cellulose	
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	52SAT	52SAT Badge	59.9	OSHA 25 PPM		0.035 PPM	5		6	AT-L-OV (GC/FID)	OV List A	Ethylene glycol monomethyl ether acetate	
Methyl Acetate #	79-20-9	566AT #	566AT Badge	10.3	OSHA 200 PPM		1.3 PPM	2		6	AT-L-OV (GC/FID)	OV List A		
Methyl Acetate	79-20-9	52SAT	52SAT Badge	70.1	OSHA 200 PPM		0.020 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	52SAT	52SAT Badge	68.5										

# Assay Technology Inc - Sampling Guide

# - 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
Methyl Isobutyl Ketone	110-12-3	546AT	546AT Badge	2.14	OSHA 100 PPM	0.21 PPM	1	6	AT-LV (GC/FID)	6	OV List A			
Methyl Isobutyl Ketone	110-12-3	525AT #	525AT Badge	66.6	OSHA 100 PPM	0.0074 PPM	1	6	AT-LV (GC/FID)	6	OV List A			
Methyl Isobutyl Carbinol #	108-11-2	566AT #	566AT Badge	9.08	OSHA 25 PPM	0.055 PPM	1	6	AT-LV (GC/FID)	6	OV List A			
Methyl Isobutyl Carbinol	108-11-2	546AT	546AT Badge	2.27	OSHA 25 PPM	0.22 PPM	1	6	AT-LV (GC/FID)	6	OV List A			
Methyl Isobutyl Carbinol	108-11-2	525AT	525AT Badge	55.2	OSHA 25 PPM	0.0090 PPM	1	6	AT-LV (GC/FID)	6	OV List A			
Methyl Isobutyl Ketone	108-10-1	546AT	546AT Badge	2.29	OSHA 100 PPM	0.16 PPM	0.7	6	AT-LV (GC/FID)	6	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-LV (GC/FID)	6	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-LV (GC/FID)	6	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-LV (GC/FID)	6	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-LV (GC/FID)	6	OV List A			
Methyl Methacrylate #	80-62-6	566AT #	566AT Badge	9.16	OSHA 100 PPM	0.056 PPM	1	6	AT-LV (GC/FID)	6	OV List A			
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-LV (GC/FID)	6	OV List A		
Methyl Methacrylate	80-62-6	525AT	525AT Badge	63.0	OSHA 100 PPM	0.0081 PPM	1	6	AT-LV (GC/FID)	6	OV List A			
1-Methyl-2-Pyrrolidione	872-50-4	546AT	546AT Badge	2.33	CAL 1 PPM	2.4 PPM	11	6	AT-LV (GC/FID)	6	OV List B	NMP, N-Methyl-2-Pyrrolidone		
1-Methyl-2-Pyrrolidione	872-50-4	566AT	566AT Badge	9.31	CAL 1 PPM	0.61 PPM	11	6	AT-LV (GC/FID)	6	OV List B	NMP, N-Methyl-2-Pyrrolidone		
1-Methyl-2-Pyrrolidione	872-50-4	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	CAL 1 PPM	0.057 PPM	11	10	6	AT-LV (GC/FID)	6	OV List B	NMP, N-Methyl-2-Pyrrolidone	
1-Methyl-2-Pyrrolidione #	872-50-4	525AT #	525AT Badge	63.9	CAL 1 PPM	0.088 PPM	11	6	AT-LV (GC/FID)	6	OV List B	NMP, N-Methyl-2-Pyrrolidone		
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-LV (GC/FID)	6	OV List A			
Methylcyclohexane	108-87-2	566AT	566AT Badge	9.32	OSHA 500 PPM	0.028 PPM	0.5	6	AT-LV (GC/FID)	6	OV List A			
Methylene Chloride	75-09-2	546AT	546AT Badge	2.39	OSHA 25 PPM	0.75 PPM	3	6	AT-LV (GC/FID)	6	OV List A	Dichloromethane	Sampling rate has been lab verified.	
Methylene Chloride #	75-09-2	566AT #	566AT Badge	9.54	OSHA 25 PPM	0.19 PPM	3	6	AT-LV (GC/FID)	6	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	0.018 PPM	3	10	6	AT-LV (GC/FID)	6	OV List A	Dichloromethane	
Methylene Chloride	75-09-2	525AT	525AT Badge	72.7	OSHA 25 PPM	0.025 PPM	3	6	AT-LV (GC/FID)	6	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.	
2-Methylpentane	107-83-5	566AT	566AT Badge	9.90	OSHA 100 PPM	0.12 PPM	2	6	AT-LV (GC/FID)	6	OV List B			
2-Methylpentane	107-83-5	546AT	546AT Badge	2.50	OSHA 100 PPM	0.47 PPM	2	6	AT-LV (GC/FID)	6	OV List B			
Molybdenum	7439-98-7	J8114K SMR TAB	Smear Tab		OSHA 5 MG/M3		0.5	6	MOD OSHA ID 125		ICP		J8114K: JS-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	J537MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 5 MG/M3	0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125	ICP			
Morpholine #	110-91-8	585AT #	585AT Badge	7.92	OSHA 20 PPM	0.15 PPM	2	10	MOD OSHA 60		Amine		Sampling rate has been lab verified.	
Naphthalene	91-20-3	546AT	546AT Badge	2.03	OSHA 10 PPM	1.3 PPM	6.5	6	AT-LV (GC/FID)	6	OV List A		Sampling rate has been lab verified.	
Naphthalene	91-20-3	566AT	566AT Badge	8.10	OSHA 10 PPM	0.32 PPM	6.5	6	AT-LV (GC/FID)	6	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	0.026 PPM	6.5	10	6	AT-LV (GC/FID)	6	OV List A		
Naphthalene #	91-20-3	525AT #	525AT Badge	58.4	OSHA 10 PPM	0.044 PPM	6.5	6	AT-LV (GC/FID)	6	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	J8114K SMR TAB	Smear Tab		OSHA 1 MG/M3		0.5	6	MOD OSHA ID 125		ICP		J8114K: JS-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	J537MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 1 MG/M3	0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125	ICP			
Nitric Acid	7697-37-2	J6-010-D3	Tube, Silica Gel Washed 200-1400mg Tube	0.20 L/min	OSHA 2 PPM	0.020 PPM	5	100	6	MOD NIOSH 7903	Acid	HN03		
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.	
Nonane #	111-84-2	546AT #	546AT Badge	2.02	OSHA 100 PPM	0.098 PPM	0.5	6	AT-LV (GC/FID)	6	OV List A			
Nonane	111-84-2	566AT	566AT Badge	8.09	OSHA 100 PPM	0.025 PPM	0.5	6	AT-LV (GC/FID)	6	OV List A			
Nonane	111-84-2	525AT	525AT Badge	46.8	OSHA 100 PPM	0.004 PPM	0.5	6	AT-LV (GC/FID)	6	OV List A			
Octane #	111-65-9	546AT #	546AT Badge	2.14	OSHA 500 PPM	0.42 PPM	2	6	AT-LV (GC/FID)	6	OV List A			
Octane	111-65-9	566AT	566AT Badge	8.58	OSHA 500 PPM	0.10 PPM	2	6	AT-LV (GC/FID)	6	OV List A			
Octane	111-65-9	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 500 PPM	0.0089 PPM	2	10	6	AT-LV (GC/FID)	6	OV List A		
Octane	111-65-9	525AT	525AT Badge	44.7	OSHA 500 PPM	0.020 PPM	2	6	AT-LV (GC/FID)	6	OV List A			
Oil Mist (Gravimetric)	8012-95-1	J537PVC250	Cassette, PVC Pre-wt Cassette	2.0 L/min	OSHA 5 MG/M3	0.021 MG/M3	20	300	6	MOD NIOSH 500	Gravimetric			
Oil Mist (IR)	8012-95-1	J537PVC250	Cassette, PVC Cassette	2.0 L/min	OSHA 5 MG/M3	0.021 MG/M3	20	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.	
Organic Solvent Panel	P705-25	525AT	525AT Badge					6	AT-LV (GC/FID)	6	OV List Panel		Organic Solvent Panel (OSP) Search "OSP" for list of chemicals.	
Ozone #	10028-15-6	586AT #	586AT Badge	15.2	OSHA 0.1 PPM	0.0070 PPM	0.1	6	MOD OSHA 214		Ozone		Not recommended for STEL monitoring. Sampling rate has been lab verified.	
1,1,1,3,3-Pentafluoropropane #	460-73-1	549AT #	549AT Badge	0.610		0.62 PPM	1	10	AT-LV (GC/FID)		Freon		Not validated on the 546, 566, 525 nor 521 badges. Sampling rate has been lab verified.	
Pentane #	109-66-0	546AT #	546AT Badge	2.70	OSHA 1000 PPM	0.16 PPM	0.6	6	AT-LV (GC/FID)	6	OV List A			
Pentane	109-66-0	566AT	566AT Badge	10.8	OSHA 1000 PPM	0.039 PPM	0.6	6	AT-LV (GC/FID)	6	OV List A			
Pentane	109-66-0	525AT	525AT Badge	69.9	OSHA 1000 PPM	0.0061 PPM	0.6	6	AT-LV (GC/FID)	6	OV List A			
2-Pentanone #	107-87-9	546AT #	546AT Badge	2.47	OSHA 200 PPM	0.17 PPM	0.7	6	AT-LV (GC/FID)	6	OV List A	Methyl Propyl Ketone		
2-Pentanone	107-87-9	566AT	566AT Badge	9.89	OSHA 200 PPM	0.04 PPM	0.7	6	AT-LV (GC/FID)	6	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-LV (GC/FID)	6	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-LV (GC/FID)	6	OV List A	Methyl Propyl Ketone		
Perchloroethylene	127-18-4	546AT	546AT Badge	1.78	OSHA 100 PPM	0.35 PPM	2	6	AT-LV (GC/FID)	6	OV List A	Tetrachloroethylene, PCE	Sampling rate has been lab verified.	
Perchloroethylene #	127-18-4	566AT #	566AT Badge	7.11	OSHA 100 PPM	0.086 PPM	2	6	AT-LV (GC/FID)	6	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	0.0064 PPM	2	10	6	AT-LV (GC/FID)	6	OV List A	Tetrachloroethylene, PCE	
Perchloroethylene	127-18-4	525AT	525AT Badge	66.4	OSHA 100 PPM	0.0093 PPM	2	6	AT-LV (GC/FID)	6	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.	
PGMEA	108-65-6	546AT	546AT Badge	2.00		0.19 PPM	1	6	AT-LV (GC/FID)	6	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-LV (GC/FID)	6	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-LV (GC/FID)	6	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-LV (GC/FID)	6	OV List A	Propylene glycol monomethyl ether acetate, 1-Methox	Sampling rate has been lab verified.	
pH	A711-49	J8109K 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.
4-Phenyl Cyclohexene #	4994-16-5	546AT #	546AT Badge	1.82		0.53 PPM	3	6	AT-LV (GC/FID)	6	OV List A	Rug Odor		
4-Phenyl Cyclohexene	4994-16-5	566AT	566AT Badge	7.28		0.13 PPM	3	6	AT-LV (GC/FID)	6	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-LV (GC/FID)	6	OV List A	Rug Odor	
4-Phenyl Cyclohexene	4994-16-5	525AT	525AT Badge	54.6		0.018 PPM	3	6	AT-LV (GC/FID)	6	OV List A	Rug Odor	This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide.	
Phenyl Ether	101-84-8	566AT	566AT Badge	6.71	OSHA 1 PPM	0.040 PPM	0.9	6	AT-LV (GC/FID)	6	OV List B			
Phenyl Ether #	101-84-8	525AT #	525AT Badge	43.7	OSHA 1 PPM	0.0062 PPM	0.9	6	AT-LV (GC/FID)	6	OV List B			
Phosphoric Acid	7664-38-2	J6-010-D3	Tube, Silica Gel Washed 200-1400mg Tube	0.20 L/min	OSHA 1 MG/M3	0.052 MG/M3	5	100	6	MOD NIOSH 7903	Acid	HP304		
O-Phthalaldehyde	643-79-8	571AT	571AT Badge	6.18	JOHNSON 0.019 MG/M3	0.0027 MG/M3	0.008	10	MOD OSHA 64		OPA	Cides 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	JOHNSON 0.019 MG/M3	0.00029 MG/M3	0.008	10	MOD OSHA 64		OPA	Cides 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 sensitivity with the regulatory limit you plan to use.	

# Assay Technology Inc - Sampling Guide

# - 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-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	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 200 PPM	NIOSH CEILING 250 PPM	0.018 PPM	1.6	10	6	AT-L-OV (GC/FID)	OV List A	n-Propanol, Propyl Alcohol	
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	
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		
N-Propyl Bromide	106-94-5	546AT	546AT Badge	2.07	OSHA 200 PPM		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	OSHA 200 PPM		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							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	
Propylene Glycol Methyl Ether	107-98-2	546AT	546AT Badge	2.42	OSHA 200 PPM		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	9.66			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		0.25 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		
Propylamine #	75-55-8	585AT #	585AT Badge	10.0	OSHA 5 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	J8114K SMR TAB	Smear Tab		OSHA 0.2 MG/M3			5		6	MOD OSHA ID 125	ICP		J8114K: JS-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	J537MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 0.2 MG/M3		0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125	ICP		
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	0.950 L/min			0.015 PPM	3	12	6	MOD OSHA 103	Anesthetic Gas	Ultane	
Crystalline-Silica (XRD) - Resp	7631-86-9	J537PVC350	Cassette, PVC Cassette	2.0 L/min					1000	10	MOD NIOSH 7500	Subcontract		For respirable Crystalline Silica with dust, use a three piece pre-weighed PVC cassette, J537PVCW350. If dust is not needed, use J537PVC350. Attach a cyclone and adjust flow according to the manufacturers cyclone instructions for use. Assay rents SKC Aluminum Cylones. Assay part # R792 / SKC part #R225-01-01. XRD analysis is subcontracted to another laboratory. Please contact our customer service department.
Crystalline-Silica (XRD) - Total	7631-86-9	J537PVC250	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, J537PVCW250. If dust is not needed, use a J537PVC250 cassette. XRD analysis is subcontracted to another laboratory. Please contact our customer service department.
Silver	7440-22-4	J8114K SMR TAB	Smear Tab					0.5		6	MOD OSHA ID 125	ICP		J8114K: JS-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	J537MCE208	Cassette, MCE Cassette	2.0 L/min			0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125	ICP		
Sodium	7440-23-5	J8114K SMR TAB	Smear Tab					10		6	MOD OSHA ID 125	ICP		J8114K: JS-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	J537MCE208	Cassette, MCE Cassette	2.0 L/min			0.010 MG/M3	10	1000	6	MOD OSHA ID 125	ICP		
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	J8114K SMR TAB	Smear Tab					0.05		6	MOD OSHA ID 125	ICP		J8114K: JS-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	J537MCE208	Cassette, MCE Cassette	2.0 L/min			0.000052 MG/M3	0.05	1000	6	MOD OSHA ID 125	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.
Sulfur Dioxide	7446-09-5	J6-080	Tube, Anasorb 747-KOH 50-1100mg Tube	0.10 L/min	OSHA 5 PPM		0.0040 PPM	0.5	12	6	MOD OSHA ID 200			
Sulfuric Acid	7664-93-9	J6-010-03	Tube, Silica Gel Washed 200-1400mg Tube	0.20 L/min	OSHA 1 MG/M3		0.052 MG/M3	5	100	6	MOD NIOSH 7903	Acid	H2SO4	
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		Toluene-2,4-Diisocyanate	Sample openface (See method)
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	Sample openface (See method)
1,3,3,3-Tetrafluoro-1-Propene #	29118-24-9	549AT #	549AT Badge	0.600			0.74 PPM	1		10	MOD OSHA 103	Anesthetic Gas		Not validated on the 546, 566, 525 nor 521 badges.
1,1,1,2-Tetrafluoroethane #	811-97-2	549AT #	549AT Badge	0.670			0.75 PPM	1		10	AT-L-OV (GC/FID)	Freon	HFC-134a	Not validated on the 546, 566, 525 nor 521 badges. 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	J8114K SMR TAB	Smear Tab		OSHA 0.1 MG/M3			0.5		6	MOD OSHA ID 125	ICP		J8114K: JS-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	J537MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 0.1 MG/M3		0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125	ICP		
Tin	7440-31-5	J8114K SMR TAB	Smear Tab		OSHA 2 MG/M3			2		6	MOD OSHA ID 125	ICP		J8114K: JS-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	J537MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 2 MG/M3		0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125	ICP		
Titanium	7440-32-6	J8114K SMR TAB	Smear Tab					0.2		6	MOD OSHA ID 125	ICP		J8114K: JS-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	J537MCE208	Cassette, MCE Cassette	2.0 L/min			0.000052 MG/M3	0.05	1000	6	MOD OSHA ID 125	ICP		
Titanium Dioxide	13463-67-7	J537MCE208	Cassette, MCE Cassette	2.0 L/min			0.00010 MG/M3	0.1	1000	6	MOD OSHA ID 125	ICP		
o-Tolualdehyde	529-20-4	571AT	571AT Badge	6.30			0.20 PPM	3		6	MOD EPA TO-11		Aldehyde	
m-Tolualdehyde #	620-23-5	571AT #	571AT Badge	6.39			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	
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	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 #	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	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.

# Assay Technology Inc - Sampling Guide

# - 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](http://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
Total Hydrocarbons	8002-05-9	525AT	525AT Badge				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.
1,1,1-Trichloroethane #	71-55-6	546AT #	546AT Badge		OSHA 350 PPM		0.58 PPM	3		6	AT L-OV (GC/FID)	OV List A	Methylchloroform	Sampling rate has been lab verified.
1,1,1-Trichloroethane	71-55-6	566AT	566AT Badge		OSHA 350 PPM		0.14 PPM	3		6	AT L-OV (GC/FID)	OV List A	Methylchloroform	Sampling rate has been lab verified.
1,1,1-Trichloroethane	71-55-6	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 350 PPM		0.011 PPM	3	10	6	AT L-OV (GC/FID)	OV List A	Methylchloroform	
1,1,1-Trichloroethane	71-55-6	525AT	525AT Badge		OSHA 350 PPM		0.019 PPM	3		6	AT L-OV (GC/FID)	OV List A	Methylchloroform	This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide. Sampling rate has been lab verified.
1,1,2-Trichloroethane	79-00-5	566AT	566AT Badge		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		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		OSHA 10 PPM		0.013 PPM	2		6	AT L-OV (GC/FID)	OV List A		
Trichloroethylene	79-01-6	546AT	546AT Badge		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		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		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.
1,1,2-Trichlorotrifluoroethane #	76-13-1	546AT #	546AT Badge		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		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		OSHA 1000 PPM		0.016 PPM	3.5		6	AT L-OV (GC/FID)	OV List A	CFC 113	
Triethanolamine	102-71-6	J37GFFZ03	Cassette, GFF Cassette	1.0 L/min			0.0085 PPM	25	120	10	MOD OSHA PV2141			
Triethylenetetramine #	112-24-3	585AT #	585AT Badge				0.14 PPM	2.5		10	MOD OSHA 60		Amine	
1,2,4-Trimethylbenzene	95-63-6	546AT	546AT Badge				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	566AT #	566AT Badge				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	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.
1,2,4-Trimethylbenzene	95-63-6	525AT	525AT Badge				0.0071 PPM	1		6	AT L-OV (GC/FID)	OV List C		Not a OV A chemical. Analyze on with list C chemicals.
2,2,4-Trimethylpentane	540-84-1	546AT	546AT Badge				0.60 PPM	3		6	AT L-OV (GC/FID)	OV List A	IsoOctane	
2,2,4-Trimethylpentane	540-84-1	566AT	566AT Badge				0.16 PPM	3		6	AT L-OV (GC/FID)	OV List A	IsoOctane	
2,2,4-Trimethylpentane	540-84-1	525AT	525AT Badge				0.030 PPM	3		6	AT L-OV (GC/FID)	OV List A	IsoOctane	
Valeraldehyde #	110-62-3	571AT #	571AT Badge				0.082 PPM	1		10	MOD EPA TO-11		Aldehyde	
Valeraldehyde	110-62-3	581AT	581AT Badge				0.087 PPM	1		10	MOD EPA TO-11		Aldehyde	
Vanadium	7440-62-2	J8114K SMR TAB	Smear Tab					0.2		6	MOD OSHA ID 125		ICP	J8114K JS-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	J37MCEZ08	Cassette, MCE Cassette	2.0 L/min			0.00021 MG/M3	0.2	1000	6	MOD OSHA ID 125		ICP	
Vinyl Acetate	108-05-4	546AT	546AT Badge				0.24 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Vinyl Acetate #	108-05-4	566AT #	566AT Badge				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				0.0084 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Vinyl Chloride	75-01-4	546AT	546AT Badge		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		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		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		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		OSHA 100 PPM		0.0035 PPM	0.5		6	AT L-OV (GC/FID)	OV List B	Methyl Styrene	
N-Vinyl-2-Pyrrolidone	88-12-0	525AT	525AT Badge				0.023 PPM	3		6	AT L-OV (GC/FID)	OV List A		
4-Vinylcyclohexene	100-40-3	546AT	546AT Badge				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				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				0.0023 PPM	0.3		6	AT L-OV (GC/FID)	OV List A	4-Vinyl-1-cyclohexene	
Vinylidene Chloride	75-35-4	546AT	546AT Badge				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				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				0.0059 PPM	1.2		6	AT L-OV (GC/FID)	OV List A	1,1 DCE	
VM&P Naphtha #	8032-32-4	566AT #	566AT Badge		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		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		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		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		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		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	J8114K SMR TAB	Smear Tab					2		6	MOD OSHA ID 125		ICP	J8114K JS-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	J37MCEZ08	Cassette, MCE Cassette	2.0 L/min			0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125		ICP	
Zinc Chloride	7646-85-7	J37MCEZ08	Cassette, MCE Cassette	2.0 L/min	OSHA 1 MG/M3		0.0010 MG/M3	1	1000	6	MOD OSHA ID 125		ICP	
Zinc Oxide	1314-13-2	J8114K SMR TAB	Smear Tab					3		6	MOD OSHA ID 125		ICP	J8114K JS-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	J37MCEZ08	Cassette, MCE Cassette	2.0 L/min			0.0010 MG/M3	1	1000	6	MOD OSHA ID 125		ICP	