

# Assay Technology Inc - Sampling Guide

# - Indicates the badge / chemical combination we recommend.

The 521 and 580 badges have been replaced by the TraceAir II badges 525 and 581. Until the last lots of 521 and 525 have expired, they will be listed here.

All 521 and 580 badges are with both covers removed. 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.

OSP = Organic Solvent Panel. See X525-25AT

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	580AT	580AT Badge	80.7	OSHA 200 PPM	ACGIH CEILING 25 PPM	0.043 PPM	3		10	MOD EPA TO-11	Aldehyde		The 580 badge has been replaced by the 581 badge. The 580 information will be available until the last 580 lot expires.
Acetaldehyde	75-07-0	581AT	581AT Badge	84.7	OSHA 200 PPM	ACGIH CEILING 25 PPM	0.041 PPM	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	ACGIH TLV 15 PPM	0.0085 PPM	1	24	6	MOD OSHA 1865G	Acetic Acid	Propenal	Can only be collected on 543 monitor. The media inside the badge changed with lot 6N17. The previous sampling rate was 7.09 mL/min. ***
Acetic Acid #	64-19-7	543AT #	543AT Badge	11.0	OSHA 10 PPM	ACGIH TLV 15 PPM	0.077 PPM	1		6	MOD OSHA 1865G	Acetic Acid	Propenal	
Acetone	67-64-1	521AT	521AT Badge	83.0	OSHA 1000 PPM	ACGIH STEL 500 PPM	0.021 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.
Acetone #	67-64-1	546AT #	546AT Badge	3.23	OSHA 1000 PPM	ACGIH STEL 500 PPM	0.54 PPM	2		6	AT L-OV (GC/FID)	OV List A		
Acetone	67-64-1	566AT	566AT Badge	12.9	OSHA 1000 PPM	ACGIH STEL 500 PPM	0.18 PPM	2		6	AT L-OV (GC/FID)	OV List A		
Acetone	67-64-1	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 10 PPM	ACGIH STEL 500 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	ACGIH STEL 500 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.
Acetonitrile	75-05-8	521AT	521AT Badge	93.6	OSHA 40 PPM		0.019 PPM	1.4		6	AT L-OV (GC/FID)	OV List A		
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		
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		
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		
Acetophenone	98-86-2	566AT	566AT Badge	8.00	ACGIH 10 PPM		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		
Acrylonitrile	107-13-1	521AT	521AT Badge	83.8	OSHA 2 PPM	OSHA CEILING 10 PPM	0.011 PPM	1		6	MOD NIOSH 1604	OV List A		
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	521AT	521AT Badge	80.8	OSHA 2 PPM	NIOSH CEILING 4 PPM	0.0058 PPM	0.9		6	AT L-OV (GC/FID)	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	0.093 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Allyl Chloride	107-05-1	521AT	521AT Badge	80.8	OSHA 2 PPM	ACGIH CEILING 2 PPM	0.0091 PPM	1.1		6	AT L-OV (GC/FID)	OV List A		
Allyl Chloride	107-05-1	546AT	546AT Badge	2.62	OSHA 2 PPM	ACGIH CEILING 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	ACGIH CEILING 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	ACGIH CEILING 2 PPM	0.086 PPM	1.1		6	AT L-OV (GC/FID)	OV List A		
Aluminum	7429-90-5	J537MCE208	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 before use. DI water (J8055) available with shipment.
Aluminum	7429-90-5	J8114K SMR TAB	Smear Tab					2		6	MOD OSHA ID 125	ICP		
Aluminum Chloride	7446-70-0	J8114K SMR TAB	Smear Tab					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.
Aluminum Chloride	7446-70-0	J537MCE208	Cassette, MCE Cassette	2.0 L/min			0.0052 MG/M3	5	1000	6	MOD OSHA ID 125	ICP		
Ammonia #	7664-41-7	58AAT #	58AAT Badge	28.8	OSHA 50 PPM	ACGIH STEL 35 PPM	0.31 PPM	3		6	MOD OSHA ID 188	Ammonia		
Ammonia	7664-41-7	J6-010-06	Tube, Silica Gel-w/H2SO4 100-1200mg Tube	0.10 L/min	OSHA 50 PPM	ACGIH STEL 35 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 L-OV (GC/FID)	OV List A		
Amyl Acetate #	628-63-7	566AT #	566AT Badge	8.03			0.044 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Antimony	7440-36-0	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.
Antimony	7440-36-0	J537MCE208	Cassette, MCE Cassette	2.0 L/min			0.00052 MG/M3	0.5	1000	6	MOD OSHA ID 125	ICP		
Arsenic	7440-38-2	J8109K 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. Additional DI water is not necessary.
Arsenic	7440-38-2	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.
Arsenic	7440-38-2	J537MCE208	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		
Asbestos Fibers by PCM	1332-21-4	JC25MCE308	Cassette, MCE (Asbestos)	2.0 L/min				400	10	NIOSH 7400 (A)		Asbestos		Adjust flow to give 100 to 1300 fiber/mm <sup>3</sup> . 0.5 to 16 L/min. All Asbestos analyses are contracted to another AHA LLC accredited laboratory.
Asbestos Fibers by TEM	1332-21-4	JC25MCE3045	Cassette, MCE (TEM)	2.0 L/min				400	10	NIOSH 7402		Asbestos		Adjust flow to give 100 to 1300 fiber/mm <sup>3</sup> . 0.5 to 16 L/min. All Asbestos analyses are contracted to another AHA LLC accredited laboratory.
Barium	7440-39-3	J8114K SMR TAB	Smear Tab					0.05		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.
Barium	7440-39-3	J537MCE208	Cassette, MCE Cassette	2.0 L/min	NIOSH 0.5 MG/M3		0.00052 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	MOD EPA TO-11	Aldehyde	Benzal	
Benzaldehyde	100-52-7	580AT	580AT Badge	62.7			0.0023 PPM	0.3		10	MOD EPA TO-11	Aldehyde	Benzal	The 580 badge has been replaced by the 581 badge. The 580 information will be available until the last 580 lot expires.
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	521AT	521AT Badge	73.0	OSHA 1 PPM	OSHA STEL 5 PPM	0.0036 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.
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		
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		
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.
Benzyl Alcohol #	100-51-6	566AT #	566AT Badge	8.50			0.28 PPM	5		6	AT L-OV (GC/FID)			
Benzyl Alcohol	100-51-6	521AT	521AT Badge	62.3			0.038 PPM	5		6	AT L-OV (GC/FID)			
Benzyl Alcohol	100-51-6	546AT	546AT Badge	2.13			1.1 PPM	5		6	AT L-OV (GC/FID)			
Benzyl Alcohol	100-51-6	525AT	525AT Badge	65.4			0.036 PPM	5		6	AT L-OV (GC/FID)			
Benzyl Chloride	100-44-7	521AT	521AT Badge	56.4	OSHA 1 PPM	NIOSH CEILING 1 PPM	0.0071 PPM	1		6	AT L-OV (GC/FID)	OV List B		
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	J8114K SMR TAB	Smear Tab					0.05		6	MOD OSHA ID 125	ICP		Does not include Beryllium Oxide. Contact Customer Service for Beryllium Oxide Testing. Order Kit J5814K: 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	J8109K 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 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	J537MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 0.002 MG/M3	OSHA CEILING 0.005 MG/M3	0.00052 MG/M3	0.05	1000	6	MOD OSHA ID 125	ICP		
Boron	7440-42-8	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.
Boron	7440-42-8	J537MCE208	Cassette, MCE Cassette	2.0 L/min			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	ACGIH STEL 0.2 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 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-Butanol	71-36-3	521AT	521AT Badge											

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The 521 and 580 badges have been replaced by the TraceAir II badges 525 and 581. Until the last lots of 521 and 525 have expired, they will be listed here.

All 521 sampling rates are with both covers removed.  
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.

OSP = Organic Solvent Panel. See X525-25AT

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-Butanol	78-92-2	546AT	546AT Badge	2.67	OSHA 150 PPM	NIOSH STEL 150 PPM	0.18 PPM	0.7	6	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	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			AT-LV (GC/FID)	OV List A	Butyl Cellosolve	
2-Butoxyethanol #	111-76-2	566AT #	566AT #	8.43	OSHA 50 PPM		0.26 PPM	5			AT-LV (GC/FID)	OV List A	Butyl Cellosolve	
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 Cellosolve	
2-Butoxyethanol	111-76-2	521AT	521AT Badge	50.2	OSHA 50 PPM		0.043 PPM	5	6	6	AT-LV (GC/FID)	OV List A	Butyl Cellosolve	
2-Butoxyethanol	111-76-2	525AT	525AT Badge	53.7	OSHA 50 PPM		0.044 PPM	5	6	6	AT-LV (GC/FID)	OV List A	Butyl Cellosolve	
N-Butyl Acetate	123-86-4	521AT	521AT Badge	53.2	OSHA 150 PPM	ACGIH STEL 150 PPM	0.0074 PPM	0.9			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.
N-Butyl Acetate #	123-86-4	546AT #	546AT Badge	1.99	OSHA 150 PPM	ACGIH STEL 150 PPM	0.20 PPM	0.9			AT-LV (GC/FID)	OV List A		
N-Butyl Acetate	123-86-4	566AT	566AT Badge	7.94	OSHA 150 PPM	ACGIH STEL 150 PPM	0.059 PPM	0.9			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	ACGIH STEL 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	ACGIH STEL 150 PPM	0.0071 PPM	0.9			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			AT-LV (GC/FID)	OV List A		
Tert-Butyl Acetate	540-88-5	566AT	566AT Badge	8.30	OSHA 200 PPM		0.10 PPM	2			AT-LV (GC/FID)	OV List A		
Tert-Butyl Acetate	540-88-5	521AT	521AT Badge	53.0	OSHA 200 PPM		0.011 PPM	2			AT-LV (GC/FID)	OV List A		
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-LV (GC/FID)	OV List A		
Tert-Butyl Acetate	540-88-5	525AT	525AT Badge	55.7	OSHA 200 PPM		0.016 PPM	2			AT-LV (GC/FID)	OV List A		
Butyl Acrylate	141-32-2	521AT	521AT Badge	55.6	ACGIH 2 PPM		0.0093 PPM	1.3			AT-LV (GC/FID)	OV List A		
Butyl Acrylate	141-32-2	546AT	546AT Badge	2.03	ACGIH 2 PPM		0.26 PPM	1.3			AT-LV (GC/FID)	OV List A		
Butyl Acrylate	141-32-2	566AT	566AT Badge	8.10	ACGIH 2 PPM		0.064 PPM	1.3			AT-LV (GC/FID)	OV List A		
Butyl Acrylate #	141-32-2	525AT #	525AT #	58.4	ACGIH 2 PPM		0.0088 PPM	1.3			AT-LV (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			AT-LV (GC/FID)	OV List A		
T-Butyl Alcohol #	75-65-0	566AT #	566AT #	10.7	OSHA 100 PPM	NIOSH STEL 150 PPM	0.064 PPM	1			AT-LV (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			AT-LV (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			AT-LV (GC/FID)	OV List A		
Butyl Glycidyl Ether	2426-08-6	521AT	521AT Badge	55.3	OSHA 50 PPM	NIOSH CEILING 5.6 PPM	0.0071 PPM	1			AT-LV (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			AT-LV (GC/FID)	OV List B		
Butyl Methacrylate	97-88-1	566AT	566AT Badge	7.67	OSHA 50 PPM		0.061 PPM	1.3			AT-LV (GC/FID)	OV List A		
Butyl Methacrylate	97-88-1	521AT	521AT Badge	53.8	OSHA 50 PPM		0.0087 PPM	1.3			AT-LV (GC/FID)	OV List A		
Butyl Methacrylate	97-88-1	525AT	525AT Badge	56.5	OSHA 50 PPM		0.0082 PPM	1.3			AT-LV (GC/FID)	OV List A		
T-Butyl Methyl Ether	1634-04-4	521AT	521AT Badge	62.9	ACGIH 50 PPM		0.0083 PPM	0.9			AT-LV (GC/FID)	OV List A	Methyl tert Butyl Ether, MTBE	
T-Butyl Methyl Ether	1634-04-4	546AT	546AT Badge	2.44	ACGIH 50 PPM		0.21 PPM	0.9			AT-LV (GC/FID)	OV List A	Methyl tert Butyl Ether, MTBE	
T-Butyl Methyl Ether #	1634-04-4	566AT #	566AT #	9.77	ACGIH 50 PPM		0.053 PPM	0.9			AT-LV (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	ACGIH 50 PPM		0.0052 PPM	0.9	10	6	AT-LV (GC/FID)	OV List A	Methyl tert Butyl Ether, MTBE	
T-Butyl Methyl Ether	1634-04-4	525AT	525AT Badge	66.0	ACGIH 50 PPM		0.0079 PPM	0.9			AT-LV (GC/FID)	OV List A	Methyl tert Butyl Ether, MTBE	
Butylamine #	109-73-9	585AT #	585AT #	7.04	OSHA 5 PPM	ACGIH CEILING 5 PPM	0.030 PPM	0.5			MOD OSHA 60		Amine	
Butyraldehyde #	123-72-8	571AT #	571AT #	8.20			0.026 PPM	0.3			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	580AT	580AT Badge	67.4			0.0031 PPM	0.3			MOD EPA TO-11		Aldehyde	Butanal
Butyraldehyde	123-72-8	581AT	581AT Badge	70.8			0.0030 PPM	0.3			MOD EPA TO-11		Aldehyde	Butanal
Butyraldehyde	123-72-8	580AT	580AT Badge	67.4			0.0031 PPM	0.3			MOD EPA TO-11		Aldehyde	Butanal
Butyraldehyde	123-72-8	581AT	581AT Badge	70.8			0.0030 PPM	0.3			MOD EPA TO-11		Aldehyde	Butanal
Cadmium	7440-43-9	J8109K G WIPE	Ghost Wipe		OSHA 0.005 MG/M3			0.05			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.
Cadmium	7440-43-9	J8114K SMR TAB	Smear Tab					0.05			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.
Cadmium	7440-43-9	J537MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 0.005 MG/M3		0.00052 MG/M3	0.05	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.
Calcium	7440-70-2	J8114K SMR TAB	Smear Tab					10			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.
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	521AT	521AT Badge	45.4			0.0044 PPM	0.6			AT-LV (GC/FID)	OV List B		
Camphor	76-22-2	546AT	546AT Badge	1.61			0.12 PPM	0.6			AT-LV (GC/FID)	OV List B		
Camphor	76-22-2	566AT	566AT Badge	6.43			0.031 PPM	0.6			AT-LV (GC/FID)	OV List B		
Camphor #	76-22-2	525AT #	525AT #	47.7			0.0042 PPM	0.6			AT-LV (GC/FID)	OV List B		
Carbon Black	1333-86-4	J537MCE208	Cassette, PVC Pre-wt Cassette	2.0 L/min	OSHA 2.5 MG/M3		0.021 MG/M3	20	1000	6	MOD NIOSH 5000		Gravimetric	
Carbon Tetrachloride	56-23-5	521AT	521AT Badge	65.6	OSHA 10 PPM	OSHA CEILING 25 PPM	0.025 PPM	5			AT-LV (GC/FID)	OV List A	Tetrachloromethane	
Carbon Tetrachloride	56-23-5	546AT	546AT Badge	1.85	OSHA 10 PPM	OSHA CEILING 25 PPM	0.90 PPM	5			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	0.22 PPM	5			AT-LV (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-LV (GC/FID)	OV List A	Tetrachloromethane	
Carbon Tetrachloride #	56-23-5	525AT #	525AT #	68.9	OSHA 10 PPM	OSHA CEILING 25 PPM	0.024 PPM	5			AT-LV (GC/FID)	OV List A	Tetrachloromethane	
Chlorine	7782-50-5	Cassette, PTFE Ag membrane	Cassette, PTFE Ag membrane	1.0 L/min	ACGIH 0.5 PPM	OSHA CEILING 1 PPM	0.0043 PPM	2			MOD NIOSH 6013		Halogens	
Chlorobenzene	108-90-7	546AT	546AT Badge	2.16	OSHA 75 PPM		0.13 PPM	0.6			AT-LV (GC/FID)	OV List A		
Chlorobenzene #	108-90-7	566AT #	566AT #	8.64	OSHA 75 PPM		0.031 PPM	0.6			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	521AT	521AT Badge	59.2	OSHA 75 PPM		0.0046 PPM	0.6			AT-LV (GC/FID)	OV List A		
Chlorobenzene	108-90-7	525AT	525AT Badge	62.2	OSHA 75 PPM		0.0044 PPM	0.6			AT-LV (GC/FID)	OV List A		
Chloroform	67-66-3	521AT	521AT Badge	70.4	ACGIH 10 PPM	OSHA CEILING 50 PPM	0.018 PPM	3			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.
Chloroform	67-66-3	546AT	546AT Badge	2.10	ACGIH 10 PPM	OSHA CEILING 50 PPM	0.61 PPM	3			AT-LV (GC/FID)	OV List A	Trichloromethane	
Chloroform	67-66-3	566AT	566AT #	8.39	ACGIH 10 PPM	OSHA CEILING 50 PPM	0.15 PPM	3			AT-LV (GC/FID)	OV List A	Trichloromethane	
Chloroform #	67-66-3	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	ACGIH 10 PPM	OSHA CEILING 50 PPM	0.011 PPM	3	10	6	AT-LV (GC/FID)	OV List A	Trichloromethane	
Chloroform #	67-66-3	525AT #	525AT #	73.9	ACGIH 10 PPM	OSHA CEILING 50 PPM	0.017 PPM	3			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.
Chromium	7440-47-3	J8109K G WIPE	Ghost Wipe					0.05			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			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	J537MCE208	Cassette, PVC Cassette	2.0 L/min	OSHA 0.005 MG/M3	OSHA CEILING 0.1 MG/M3		0.5	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					0.2			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					5			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	521AT	521AT Badge	58.7			0.040 PPM	5			MOD OSHA 32		Phenol	
Cresol, Total #	1319-77-3	525AT #	525AT #	61.6			0.038 PPM	5			MOD OSHA 32		Phenol	
Crotonaldehyde #	4170-30-3	571AT #	571AT #	8.59	OSHA 2 PPM	ACGIH CEILING 0.3 PPM	0.0042 PPM	0.05			MOD EPA TO-11		Aldehyde	
Crotonaldehyde	4170-30-3	580AT	580AT Badge	68.1	OSHA 2 PPM	ACGIH CEILING 0.3 PPM	0.00053 PPM	0.05			MOD EPA TO-11		Aldehyde	The 580 badge has been replaced by the 581 badge. The 580 information will be available until the last 580 lot expires.
Crotonaldehyde	4170-30-3	581AT	581AT Badge	71.5	OSHA 2 PPM	ACGIH CEILING 0.3 PPM	0.00051 PPM	0.05			MOD EPA TO-11		Aldehyde	
Cumene	98-82-8	546AT	546AT Badge	2.09			0.10 PPM	0.5			AT-LV (GC/FID)	OV List A		
Cumene #	98-82-8	566AT #	566AT #	8.36			0.025 PPM	0.5			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		

# Assay Technology Inc - Sampling Guide

All 521 and 580 badges have been replaced by the TraceAir II badges 525 and 581. Until the last lots of 521 and 525 have expired, they will be listed here.  
 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.

OSP = Organic Solvent Panel. See X525-25AT

# - Indicates the badge / chemical combination we recommend.

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
Cyclohexane	110-82-7	566AT	566AT Badge	8.82	OSHA 300 PPM		0.044 PPM	0.6		6	AT-LV (GC/FID)	OV List A		
Cyclohexane	110-82-7	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 300 PPM		0.0056 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		
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	521AT	521AT Badge	54.0	OSHA 50 PPM		0.0066 PPM	0.7		6	AT-LV (GC/FID)	OV List A		
Cyclohexanol	108-93-0	525AT	525AT Badge	56.7	OSHA 50 PPM		0.0053 PPM	0.7		6	AT-LV (GC/FID)	OV List A		
Cyclohexanone	108-94-1	521AT	521AT Badge	63.6	OSHA 50 PPM	ACGIH CEILING 50 PPM	0.0049 PPM	0.6		6	AT-LV (GC/FID)	OV List A		
Cyclohexanone	108-94-1	546AT	546AT Badge	2.34	OSHA 50 PPM	ACGIH CEILING 50 PPM	0.13 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.
Cyclohexanone #	108-94-1	566AT #	566AT Badge	9.87	OSHA 50 PPM	ACGIH CEILING 50 PPM	0.033 PPM	0.6		6	AT-LV (GC/FID)	OV List A		
Cyclohexanone	108-94-1	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 50 PPM	ACGIH CEILING 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	ACGIH CEILING 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.
Cyclohexylamine #	108-91-8	585AT #	585AT Badge	7.41	ACGIH 10 PPM		0.035 PPM	0.5		10	MOD OSHA 60	Amine		
Desflurane #	57041-87-5	574AT #	574AT Badge	8.36			0.11 PPM	3		6	MOD OSHA 103	Anesthetic Gas	Suprane	
Desflurane	57041-87-5	J6-001	Tube, Charcoal 50-100mg Tube	0.050 L/min			0.0044 PPM	3	12	6	MOD OSHA 103	Anesthetic Gas	Suprane	
Diacetone Alcohol	123-42-2	546AT	546AT Badge	2.13	OSHA 50 PPM		0.21 PPM	1		6	AT-LV (GC/FID)	OV List A		
Diacetone Alcohol #	123-42-2	566AT #	566AT Badge	8.50	OSHA 50 PPM		0.052 PPM	1		6	AT-LV (GC/FID)	OV List A		
1,5-Diaminopentane	462-94-2	585AT	585AT Badge	7.30			0.068 PPM	1		10	MOD OSHA 60	Amine		
1,5-Diaminopropane	109-76-2	585AT	585AT Badge	8.60			0.080 PPM	1		10	MOD OSHA 60	Amine		
1,2-Dichloroethane	106-93-4	521AT	521AT Badge	67.8			0.012 PPM	3		6	AT-LV (GC/FID)	OV List A	Ethylene Dibromide	
1,2-Dibromoethane #	106-93-4	566AT #	566AT Badge	6.77			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	7.12			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	ACGIH STEL 50 PPM	0.054 PPM	1		6	AT-LV (GC/FID)	OV List B		
1,2-Dichlorobenzene	95-50-1	546AT	546AT Badge	1.89	OSHA 50 PPM	ACGIH STEL 50 PPM	0.18 PPM	1		6	AT-LV (GC/FID)	OV List B		
1,2-Dichlorobenzene	95-50-1	521AT	521AT Badge	53.8	OSHA 50 PPM	ACGIH STEL 50 PPM	0.0064 PPM	1		6	AT-LV (GC/FID)	OV List B		
1,2-Dichlorobenzene	95-50-1	525AT	525AT Badge	56.5	OSHA 50 PPM	ACGIH STEL 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	521AT	521AT Badge	53.8	OSHA 75 PPM		0.0064 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	521AT	521AT badge	72.8	OSHA 100 PPM		0.014 PPM	2		6	AT-LV (GC/FID)	OV List A		
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		0.013 PPM	2		6	AT-LV (GC/FID)	OV List A		
1,2-Dichloroethane	107-06-2	521AT	521AT badge	60.5	OSHA 50 PPM	OSHA CEILING 100 PPM	0.017 PPM	2		6	AT-LV (GC/FID)	OV List A	EDC	
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	
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	
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	
1,2-Dichloroethylene	540-59-0	521AT	521AT badge	72.2	OSHA 200 PPM		0.015 PPM	2		6	AT-LV (GC/FID)	OV List A	1,2-DCE, 1,2-Dichloroethene	
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	
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	
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	
1,2-Dichloropropane	78-87-5	521AT	521AT badge	57.9	OSHA 200 PPM		0.016 PPM	2		6	AT-LV (GC/FID)	OV List A	Propylene Dichloride	
1,2-Dichloropropane #	78-87-5	566AT #	566AT badge	7.98	OSHA 200 PPM		0.11 PPM	2		6	AT-LV (GC/FID)	OV List A	Propylene Dichloride	
1,2-Dichloropropane	78-87-5	525AT	525AT badge	60.8	OSHA 200 PPM		0.015 PPM	2		6	AT-LV (GC/FID)	OV List A	Propylene Dichloride	
Dicyclopentadiene	77-73-6	521AT	521AT badge	55.0	ACGIH 5 PPM		0.014 PPM	2		6	AT-LV (GC/FID)	OV List B		
Dicyclopentadiene	77-73-6	546AT	546AT badge	1.99	ACGIH 5 PPM		0.39 PPM	2		6	AT-LV (GC/FID)	OV List B		
Dicyclopentadiene	77-73-6	566AT	566AT badge	7.97	ACGIH 5 PPM		0.097 PPM	2		6	AT-LV (GC/FID)	OV List B		
Dicyclopentadiene	77-73-6	525AT	525AT badge	57.8	ACGIH 5 PPM		0.013 PPM	2		6	AT-LV (GC/FID)	OV List B		
Diethanolamine #	111-42-2	585AT #	585AT badge	7.19	ACGIH 0.2 PPM		0.067 PPM	1		10	MOD OSHA 60	Amine		
Diethyl Ketone	96-22-0	521AT	521AT badge	63.4	ACGIH 200 PPM	ACGIH STEL 300 PPM	0.028 PPM	3		6	AT-LV (GC/FID)	OV List A	3-Pentanone	
Diethyl Ketone	96-22-0	546AT	546AT badge	2.37	ACGIH 200 PPM	ACGIH STEL 300 PPM	0.75 PPM	3		6	AT-LV (GC/FID)	OV List A	3-Pentanone	
Diethyl Ketone #	96-22-0	566AT #	566AT badge	9.47	ACGIH 200 PPM	ACGIH STEL 300 PPM	0.19 PPM	3		6	AT-LV (GC/FID)	OV List A	3-Pentanone	
Diethyl Ketone	96-22-0	525AT	525AT badge	66.6	ACGIH 200 PPM	ACGIH STEL 300 PPM	0.027 PPM	3		6	AT-LV (GC/FID)	OV List A	3-Pentanone	
Diethylamine #	109-89-7	585AT #	585AT badge	8.67	OSHA 25 PPM	ACGIH CEILING 15 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-LV (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-LV (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-LV (GC/FID)	OV List A	Butyl Carbitol	
Diethylenetriamine #	111-40-0	585AT #	585AT badge	7.26	ACGIH 1 PPM	OSHA CEILING 10 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-LV (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-LV (GC/FID)	OV List B	2,6-Dimethyl-4-heptanone	
Diisobutyl Ketone	108-83-8	521AT	521AT badge	53.7	OSHA 50 PPM		0.0060 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	11.1	OSHA 10 PPM	ACGIH STEL 15 PPM	0.031 PPM	0.3		10	MOD OSHA 60	Amine		
N,N-Dimethylaniline	121-69-7	521AT	521AT badge	56.6			0.045 PPM	0.6		6	AT-LV (GC/FID)	OV List B		
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	521AT	521AT badge	69.6	OSHA 10 PPM		0.013 PPM	1.3		6	AT-LV (GC/FID)	OV List A	DMF	
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	
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	
N,N-Dimethylformamide	68-12-2	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 10 PPM		0.0090 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	
Dimethylsulfoxide #	67-68-5	566AT #	566AT badge	10.4			0.63 PPM	10		10	AT-LV (GC/FID)	OV List A	DMSO	

# Assay Technology Inc - Sampling Guide

All 521 sampling rates are with both covers removed.  
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.

OSP = Organic Solvent Panel. See X525-25AT

# - Indicates the badge / chemical combination we recommend.

The 521 and 580 badges have been replaced by the TraceAir II badges 525 and 581. Until the last lots of 521 and 525 have expired, they will be listed here.

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-Ethoxyethanol	110-80-5	546AT	546AT Badge	2.42			0.47 PPM	2	2	6	AT-L-OV (GC/FID)	OV List A	Cellosolve	
2-Ethoxyethanol #	110-80-5	566AT #	566AT Badge	9.66			0.12 PPM	2	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			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			0.017 PPM	2	6	AT-L-OV (GC/FID)	OV List A	Cellosolve		
Ethyl Acetate	141-78-6	521AT	521AT Badge	68.2			0.017 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.	
Ethyl Acetate #	141-78-6	546AT #	546AT Badge	2.25			0.52 PPM	2	6	AT-L-OV (GC/FID)	OV List A			
Ethyl Acetate	141-78-6	566AT	566AT Badge	8.98			0.13 PPM	2	6	AT-L-OV (GC/FID)	OV List A			
Ethyl Acetate	141-78-6	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min			0.012 PPM	2	10	6	AT-L-OV (GC/FID)	OV List A		
Ethyl Acetate	141-78-6	525AT	525AT Badge	71.6			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.	
Ethyl Acrylate	140-88-5	521AT	521AT Badge	58.8			0.0078 PPM	0.9	6	AT-L-OV (GC/FID)	OV List A			
Ethyl Acrylate	140-88-5	546AT	546AT Badge	2.29			0.20 PPM	0.9	6	AT-L-OV (GC/FID)	OV List A			
Ethyl Acrylate	140-88-5	566AT	566AT Badge	9.16			0.050 PPM	0.9	6	AT-L-OV (GC/FID)	OV List A			
Ethyl Acrylate #	140-88-5	525AT #	525AT Badge	61.7			0.0074 PPM	0.9	6	AT-L-OV (GC/FID)	OV List A			
Ethyl Alcohol	64-17-5	521AT	521AT Badge	79.4			0.14 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 Alcohol #	64-17-5	546AT #	546AT Badge	3.39			3.3 PPM	10	6	AT-L-OV (GC/FID)	OV List A	Ethanol		
Ethyl Alcohol	64-17-5	566AT	566AT Badge	13.5			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			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			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			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			0.18 PPM	3	6	AT-L-OV (GC/FID)	OV List A	Diethyl Ether		
Ethyl Ether	60-29-7	521AT	521AT Badge	72.8			0.028 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			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			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	521AT	521AT Badge	55.1			0.0081 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 #	11.1			0.023 PPM	0.3	10	MOD OSHA 60	Amine			
Ethylbenzene	100-41-4	521AT	521AT Badge	60.6			0.0040 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.	
Ethylbenzene	100-41-4	546AT	546AT Badge	2.23			0.11 PPM	0.5	6	AT-L-OV (GC/FID)	OV List A			
Ethylbenzene #	100-41-4	566AT #	566AT Badge	8.91			0.027 PPM	0.5	6	AT-L-OV (GC/FID)	OV List A			
Ethylbenzene	100-41-4	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min			0.0024 PPM	0.5	10	6	AT-L-OV (GC/FID)	OV List A		
Ethylbenzene	100-41-4	525AT	525AT Badge	63.6			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.	
Ethylene Chlorohydrin	107-07-3	521AT	521AT Badge	64.9			0.014 PPM	1.4	6	AT-L-OV (GC/FID)	OV List A			
Ethylene Chlorohydrin	107-07-3	546AT	546AT Badge	2.56			0.35 PPM	1.4	6	AT-L-OV (GC/FID)	OV List A			
Ethylene Chlorohydrin #	107-07-3	566AT	566AT Badge	10.2			0.087 PPM	1.4	6	AT-L-OV (GC/FID)	OV List A			
Ethylene Chlorohydrin	107-07-3	525AT #	525AT Badge	68.1			0.013 PPM	1.4	6	AT-L-OV (GC/FID)	OV List A			
Ethylene Glycol Dimethyl Ether	110-71-4	521AT	521AT Badge	62.4			0.0091 PPM	1	6	AT-L-OV (GC/FID)	OV List A	Dimethoxyethane, 1,2-Dimethoxyethane		
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	J6-OR80-78	Tube, OR80 78 HBr Treated Tube	0.12 L/min			0.012 PPM	1	24	MOD ASTM D5578	Ethylene Oxide			
Ethylene Oxide #	75-21-8	555AT #	555AT Badge	12.4			0.011 PPM	0.12	6	MOD ASTM D5578	Ethylene Oxide			
Ethylenediamine #	107-15-3	585AT #	585AT #	9.59			0.027 PPM	0.3	10	MOD OSHA 60	Amine			
Formaldehyde #	50-00-0	571AT #	571AT Badge	16.2			0.010 PPM	0.1	6	MOD OSHA 1007	Aldehyde	Formalin	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>	
Formaldehyde	50-00-0	580AT	580AT Badge	110			0.0015 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>	
Formaldehyde	50-00-0	581AT	581AT Badge	124			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>	
Formaldehyde	50-00-0	J6-119	Tube, Silica Gel-DNPH Tube	0.10 L/min			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			0.00061 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		
Glutaraldehyde	111-30-8	580AT	580AT Badge	60.2			0.00058 PPM	0.008	6	MOD OSHA 64	Aldehyde	Cidex	The 580 badge has been replaced by the 581 badge. The 580 information will be available until the last 580 lot expires.	
Glutaraldehyde	111-30-8	J5-9003	Cassette, GFF 2-4-DNPH	1.0 L/min			0.000020 PPM	0.04	120	6	MOD OSHA 64	Aldehyde	Cidex	
Glutaraldehyde #	111-30-8	581AT #	581AT Badge	63.2			0.000056 PPM	0.008	6	MOD OSHA 64	Aldehyde	Cidex		
Haloethane #	151-67-7	574AT #	574AT Badge	8.70			0.12 PPM	4	6	MOD OSHA 103	Anesthetic Gas	HDI		
Haloethane	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		
HCFC-1233zd(E) #	102687-65-0	549AT #	549AT Badge	0.600			0.65 PPM	1	10	6	AT-L-OV (GC/FID)	Freon		
Heptane	142-82-5	521AT	521AT Badge	53.6			0.0047 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.	
Heptane #	142-82-5	546AT #	546AT Badge	2.14			0.12 PPM	0.5	6	AT-L-OV (GC/FID)	OV List A			
Heptane	142-82-5	566AT	566AT Badge	8.54			0.030 PPM	0.5	6	AT-L-OV (GC/FID)	OV List A			
Heptane	142-82-5	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min			0.0025 PPM	0.5	10	6	AT-L-OV (GC/FID)	OV List A		
Heptane	142-82-5	525AT	525AT Badge	56.3			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.	
2-Heptanone	110-43-0	546AT	546AT Badge	2.14			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			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			0.0031 PPM	0.7	10	6	AT-L-OV (GC/FID)	OV List A	Methyl amyl Ketone	
2-Heptanone	110-43-0	521AT	521AT Badge	51.0			0.0061 PPM	0.7	6	AT-L-OV (GC/FID)	OV List A	Methyl amyl Ketone		
2-Heptanone	110-43-0	525AT	525AT Badge	53.6			0.0058 PPM	0.7	6	AT-L-OV (GC/FID)	OV List A	Methyl amyl Ketone		
Hexamethylene Diisocyanate	823-06-0	J5-9002	Cassette, GFF w/ 1-P, P	1.0 L/min			0.00012 PPM	0.8	240	6	MOD OSHA 21	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	580AT	580AT Badge	60.8			0.025 PPM	3	10	MOD EPA TO-11	Aldehyde	Hexanaldehyde	The 580 badge has been replaced by the 581 badge. The 580 information will be available until the last 580 lot expires.	
Hexanal	66-25-1	581AT	581AT Badge	63.0			0.024 PPM	3	10	MOD EPA TO-11	Aldehyde	Hexanaldehyde		
N-Hexane	110-54-3	521AT	521AT Badge	58.0			0.0061 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.	
N-Hexane	110-54-3	546AT	546AT Badge	2.47			0.14 PPM	0.6	6	AT-L-OV (GC/FID)	OV List A			
N-Hexane #	110-54-3	566AT #	566AT Badge	9.88			0.036 PPM	0.6	6	AT-L-OV (GC/FID)	OV List A			
N-Hexane	110-54-3	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min			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			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.	
2-Hexanone #	591-78-6	566AT #	566AT Badge	9.16			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			0.11 PPM	0.5	6	AT-L-OV (GC/FID)	OV List A	MBK, Methyl Butyl Ketone		
2-Hexanone	591-78-6	521AT	521AT Badge	75.0			0.0034 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			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			0.0032 PPM	0.5	6	AT-L-OV (GC/FID)	OV List A	MBK, Methyl Butyl Ketone		
Hydrobromic Acid	10035-10-6	J6-010-03	Tube, Silica Gel Washed 200-1400mg Tube	0.20 L/min										

# Assay Technology Inc - Sampling Guide

# - Indicates the badge / chemical combination we recommend.

The S21 and S80 badges have been replaced by the TraceAir II badges S25 and S81. Until the last lots of S21 and S25 have expired, they will be listed here.

All S21 sampling rates are with both covers removed.

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.

OSP = Organic Solvent Panel. See X525-S2AT

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
Hydrogen Sulfide	7783-06-4	J6-OR80-32	Tube, OR80 32 Charcoal Tube	0.20 L/min	ACGIH 1 PPM	OSHA CEIL 20 PPM	0.064 PPM	8.5	40	6	MOD NIOSH 6013	H2S		Order Kit: J8112x, which includes a cassette (J53797210) that traps any particulate sulfate present which would cause a high bias. Only the J6-OR80 32 tube is analyzed. Not validated on the 546, 566, 525 nor S21 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	ACGIH 0.1 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.
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		J8114K: J5-024 + J8054 (Smear Tab with Vial). Tabs are dry, moisten with DI water before use. DI water (J8055) available with shipment.
Isoamyl Alcohol #	123-51-3	566AT #	566AT Badge	9.77	OSHA 100 PPM	ACGIH CEILING 125 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	ACGIH CEILING 125 PPM	0.21 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Isoamyl Alcohol	123-51-3	521AT	521AT Badge	73.0	OSHA 100 PPM	ACGIH CEILING 125 PPM	0.0071 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	ACGIH CEILING 125 PPM	0.0068 PPM	0.9		6	AT L-OV (GC/FID)	OV List A		
Isobutyl Acetate	110-19-0	521AT	521AT Badge	60.6	OSHA 150 PPM		0.0072 PPM	1		6	AT L-OV (GC/FID)	OV List A		
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 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		
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 Alcohol	78-83-1	521AT	521AT Badge	64.0	OSHA 100 PPM		0.0075 PPM	0.7		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		
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		
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		
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		
Isoflurane #	26675-46-7	574AT #	574AT Badge	7.87	CAL 2 PPM		0.11 PPM	3		6	MOD OSHA 103	Anesthetic Gas	Forane	
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	
Isothorone	78-59-1	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 25 PPM	ACGIH CEILING 5 PPM	0.0022 PPM	0.6	10	6	AT L-OV (GC/FID)	OV List B		
Isothorone	78-59-1	521AT	521AT Badge	47.6	OSHA 25 PPM	ACGIH CEILING 5 PPM	0.0046 PPM	0.6		6	AT L-OV (GC/FID)	OV List B		
Isothorone #	78-59-1	566AT #	566AT Badge	7.80	OSHA 25 PPM	ACGIH CEILING 5 PPM	0.028 PPM	0.6		6	AT L-OV (GC/FID)	OV List B		
Isothorone	78-59-1	546AT	546AT Badge	1.95	OSHA 25 PPM	ACGIH CEILING 5 PPM	0.11 PPM	0.6		6	AT L-OV (GC/FID)	OV List A		
Isothorone	78-59-1	525AT	525AT Badge	50.0	OSHA 25 PPM	ACGIH CEILING 5 PPM	0.0044 PPM	0.6		6	AT L-OV (GC/FID)	OV List B		
Isothorone Disiocyanate	4098-71-9	J5-9002	Cassette, GFF w/ 1_PP	1.0 L/min	ACGIH 0.005 PPM	NIOSH STEL 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	ACGIH CEILING 200 PPM	0.22 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Isopropyl Acetate	108-21-4	566AT	566AT Badge	9.88	OSHA 250 PPM	ACGIH CEILING 200 PPM	0.05 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	ACGIH CEILING 200 PPM	0.0059 PPM	1	10	6	AT L-OV (GC/FID)	OV List A		
Isopropyl Acetate	108-21-4	521AT	521AT Badge	52.0	OSHA 250 PPM	ACGIH CEILING 200 PPM	0.0096 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Isopropyl Acetate	108-21-4	525AT	525AT Badge	54.6	OSHA 250 PPM	ACGIH CEILING 200 PPM	0.0091 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Isopropyl Alcohol	67-63-0	521AT	521AT Badge	64.0	OSHA 400 PPM	ACGIH STEL 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.
Isopropyl Alcohol #	67-63-0	546AT #	546AT Badge	2.96	OSHA 400 PPM	ACGIH STEL 400 PPM	0.29 PPM	1		6	AT L-OV (GC/FID)	OV List A	IPA	
Isopropyl Alcohol	67-63-0	566AT	566AT Badge	11.8	OSHA 400 PPM	ACGIH STEL 400 PPM	0.072 PPM	1		6	AT L-OV (GC/FID)	OV List A	IPA	
Isopropyl Alcohol	67-63-0	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 400 PPM	ACGIH STEL 400 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	ACGIH STEL 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.
Lead	7439-92-1	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.
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	521AT	521AT Badge	45.6			0.016 PPM	2		6	AT L-OV (GC/FID)	OV List A		
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		
Magnesium	7439-95-4	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.
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					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	ACGIH 0.2 MG/M3	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	101-68-8	J5-9002	Cassette, GFF w/ 1_PP	1.0 L/min	ACGIH 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)
Mercury #	7439-97-6	593AT #	593AT Badge	14.9	OSHA 0.1 MG/M3	CAL OSHA CEILING 0.1 MG/M3	0.00070 MG/M3	0.005		6	AT CVAF	Mercury		
Mercury	7439-97-6	J537MCE208	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	AT CVAF	Mercury		Particulates Only
Mercury	7439-97-6	J8114K SMR TAB	Smear Tab		OSHA 0.1 MG/M3	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	521AT	521AT Badge	56.7	OSHA 25 PPM		0.037 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	
Methamphetamine	537-46-2	J8109K G WIPE	Ghost Wipe					1	10	10	HPLC	HPLC		Buy wipe kit, J8109K. Kit contains a ghost wipe, wipe template, return vial, and the analysis cost. The analysis is not part of the lab's ISO 17025 accreditation.
2-Methoxyethanol	109-86-4	521AT	521AT Badge	56.6	OSHA 25 PPM		0.026 PPM	2.2		6	AT L-OV (GC/FID)	OV List A	Methyl Cellosolve	
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	521AT	521AT Badge	57.0	OSHA 25 PPM		0.038 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	
Methyl Acetate #	79-20-9	566AT #	566AT Badge	10.3	OSHA 200 PPM	ACGIH STEL 250 PPM	0.13 PPM	2		6	AT L-OV (GC/FID)	OV List A		
Methyl Acetate	79-20-9	521AT	521AT Badge	66.8	OSHA 200 PPM	ACGIH STEL 250 PPM	0.021 PPM	2		6	AT L-OV (GC/FID)	OV List A		
Methyl Acetate	79-20-9	525AT	525AT Badge	70.1	OSHA 200 PPM	ACGIH STEL 250 PPM	0.020 PPM	2		6	AT L-OV (GC/FID)	OV List A		
Methyl Acrylate	96-33-3	521AT	521AT Badge	65.2	OSHA 10 PPM		0.011 PPM	2		6	AT L-OV (GC/FID)	OV List A		



# Assay Technology Inc - Sampling Guide

# - Indicates the badge / chemical combination we recommend.

The 521 and 580 badges have been replaced by the TraceAir II badges 525 and 581. Until the last lots of 521 and 525 have expired, they will be listed here.

All 521 sampling rates are with both covers removed. 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.

OSP = Organic Solvent Panel. See X525-25AT

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 Isomyl 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 Isomyl 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 Isomyl Ketone	110-12-3	521AT	521AT Badge	5.77	OSHA 100 PPM		0.0077 PPM	1		6	AT-L-OV (GC/FID)	OV List A		
Methyl Isomyl 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	ACGIH CEILING 40 PPM	0.055 PPM	1		6	AT-L-OV (GC/FID)	OV List A		
Methyl Isobutyl Carbinol	108-11-2	521AT	521AT Badge	52.6	OSHA 25 PPM	ACGIH CEILING 40 PPM	0.0095 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	ACGIH CEILING 40 PPM	0.23 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	ACGIH CEILING 40 PPM	0.0090 PPM	1		6	AT-L-OV (GC/FID)	OV List A		
Methyl Isobutyl Ketone	108-10-1	521AT	521AT Badge	63.0	OSHA 100 PPM	ACGIH CEILING 75 PPM	0.0057 PPM	0.7		6	AT-L-OV (GC/FID)	OV List A	Hexone	This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide.
Methyl Isobutyl Ketone	108-10-1	546AT	546AT Badge	2.29	OSHA 100 PPM	ACGIH CEILING 75 PPM	0.16 PPM	0.7		6	AT-L-OV (GC/FID)	OV List A	Hexone	
Methyl Isobutyl Ketone #	108-10-1	566AT #	566AT Badge	9.16	OSHA 100 PPM	ACGIH CEILING 75 PPM	0.039 PPM	0.7		6	AT-L-OV (GC/FID)	OV List A	Hexone	
Methyl Isobutyl Ketone	108-10-1	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 100 PPM	ACGIH CEILING 75 PPM	0.0036 PPM	0.7	10	6	AT-L-OV (GC/FID)	OV List A	Hexone	
Methyl Isobutyl Ketone	108-10-1	525AT	525AT Badge	66.2	OSHA 100 PPM	ACGIH CEILING 75 PPM	0.0054 PPM	0.7		6	AT-L-OV (GC/FID)	OV List A	Hexone	This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide.
Methyl Methacrylate	80-62-6	521AT	521AT Badge	60.0	OSHA 100 PPM	ACGIH STEL 100 PPM	0.0085 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.
Methyl Methacrylate	80-62-6	546AT	546AT Badge	2.29	OSHA 100 PPM	ACGIH STEL 100 PPM	0.22 PPM	1		6	AT-L-OV (GC/FID)	OV List A		
Methyl Methacrylate #	80-62-6	566AT #	566AT Badge	9.16	OSHA 100 PPM	ACGIH STEL 100 PPM	0.056 PPM	1		6	AT-L-OV (GC/FID)	OV List A		
Methyl Methacrylate	80-62-6	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 100 PPM	ACGIH STEL 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	ACGIH STEL 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.
1-Methyl-2-Pyrrolidione	872-50-4	521AT	521AT Badge	60.9	OSHA 1 PPM		0.093 PPM	11		6	AT-L-OV (GC/FID)	OV List B	NMP, N-Methyl-2-Pyrrolidione	
1-Methyl-2-Pyrrolidione	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-Pyrrolidione	
1-Methyl-2-Pyrrolidione #	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-Pyrrolidione	
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-L-OV (GC/FID)	OV List B	NMP, N-Methyl-2-Pyrrolidione	
1-Methyl-2-Pyrrolidione	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-Pyrrolidione	
Methylamine #	74-99-5	585AT #	585AT Badge	13.4	OSHA 10 PPM	ACGIH STEL 15 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	521AT	521AT Badge	69.2	OSHA 25 PPM	OSHA STEL 125 PPM	0.026 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.
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	
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	
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	This Chemical is on the OSP. Search for "OSP" to see all the chemicals together on the Guide.
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.
Molybdenum	7439-98-7	J8114K SMR TAB	Smear Tab		OSHA 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.
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	NIOSH STEL 30 PPM	0.15 PPM	2		10	MOD OSHA 60	Amine		
Naphthalene	91-20-3	521AT	521AT Badge	55.6	OSHA 10 PPM	NIOSH STEL 15 PPM	0.046 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.
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		
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		
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.
Nickel	7440-02-0	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.
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	J6-010-03	Tube, Silica Gel Washed 200-1400mg Tube	0.30 L/min		ACGIH STEL 4 PPM		5	100	6	MOD NIOSH 7903	Acid	HN03	
Nitrogen Dioxide #	10102-44-0	594AT #	594AT Badge	22.3	ACGIH 0.2 PPM	OSHA CEILING 5 PPM	0.025 PPM	0.5		6	MOD OSHA 182	Nitrogen Dioxide		
Nitrous Oxide #	10024-97-2	575AT #	575AT Badge	0.880	NIOSH 25 PPM		0.53 PPM	0.4		6	AT SOP L575	Nitrous Oxide		
Nonane #	111-84-2	546AT #	546AT Badge	2.02	ACGIH 200 PPM		0.098 PPM	0.5		6	AT-L-OV (GC/FID)	OV List A		
Nonane	111-84-2	566AT	566AT Badge	8.09	ACGIH 200 PPM		0.025 PPM	0.5		6	AT-L-OV (GC/FID)	OV List A		
Nonane	111-84-2	521AT	521AT Badge	46.6	ACGIH 200 PPM		0.0065 PPM	0.5		6	AT-L-OV (GC/FID)	OV List A		
Nonane	111-84-2	525AT	525AT Badge	46.8	ACGIH 200 PPM		0.0042 PPM	0.5		6	AT-L-OV (GC/FID)	OV List A		
Octane	111-65-9	521AT	521AT Badge	42.6	OSHA 500 PPM	NIOSH CEILING 385 PPM	0.021 PPM	2		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	J537PVCW250	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	J537PVC250	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.
Organic Solvent Panel	P705-25	521AT	521AT Badge							6	AT-L-OV (GC/FID)	OV List Panel		Organic Solvent Panel (OSP) Search "OSP" for list of chemicals.
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.
Osone #	10029-15-6	586AT #	586AT Badge	15.2	OSHA 0.1 PPM	NIOSH CEILING 0.1 PPM	0.0070 PPM	0.1		6	MOD OSHA 214	Osone		Not recommended for STEL monitoring.
1,1,1,3,3-Pentafluoropropane #	460-73-1	549AT #	549AT Badge	0.610			0.62 PPM	1		10	AT-L-OV (GC/FID)	Freon		Not validated on the 546, 566, 525 nor 521 badges.
Pentane	109-66-0	521AT	521AT Badge	66.6	OSHA 1000 PPM	NIOSH STEL 610 PPM	0.0064 PPM	0.6		6	AT-L-OV (GC/FID)	OV List A		
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	0.0063 PPM	0.6		6	AT-L-OV (GC/FID)	OV List A		
2-Pentanone #	107-87-9	546AT #	546AT Badge	2.47	OSHA 200 PPM	ACGIH CEILING 150 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	ACGIH CEILING 150 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	ACGIH CEILING 150 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	ACGIH CEILING 150 PPM	0.0062 PPM	0.7		6	AT-L-OV (GC/FID)	OV List A	Methyl Propyl Ketone	
Perchloroethylene	127-18-4	521AT	521AT Badge	63.2	OSHA 100 PPM	OSHA CEILING 200 PPM	0.0097 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.
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	
Perchloroethylene #	127-18-4	566AT #	566AT Badge	7.11	OSHA 100 PPM	OSHA CEILING 200 PPM	0.086 PPM	2		6	AT-L-OV (GC/FID)	OV List A	Tetrachloroethylene, PCE	
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	
Perchloroethylene	127-18-4	525AT	525AT Badge	66.4	OSHA 100 PPM	OSHA CEILING 200 PPM	0.0093 PPM	2		6				

# Assay Technology Inc - Sampling Guide

# - Indicates the badge / chemical combination we recommend.

The 521 and 580 badges have been replaced by the TraceAir II badges 525 and 581. Until the last lots of 521 and 525 have expired, they will be listed here.

All 521 sampling rates are with both covers removed. 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.

OSP = Organic Solvent Panel. See X525-25AT

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
Phenyl Ether	101-84-8	521AT	521AT Badge	41.5	OSHA 1 PPM	ACGIH CEILING 2 PPM	0.0065 PPM	0.9		6	AT L-OV (GC/FID)	OV List B		
Phenyl Ether	101-84-8	566AT	566AT Badge	6.71	OSHA 1 PPM	ACGIH CEILING 2 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	ACGIH CEILING 2 PPM	0.0062 PPM	0.9		6	AT L-OV (GC/FID)	OV List B		
Phosphonic Acid	7664-38-2	J6-010-03	Tube, Silica Gel Washed 200-1400mg Tube	0.20 L/min	OSHA 1 MG/M3	ACGIH STEL 3 MG/M3	0.052 MG/M3	5	100	6	MOD NIOSH 7903	Acid	H3P04	
O-Phthalaldehyde	643-79-8	571AT	571AT Badge	6.18	JOHNSON 0.019 MG/M3	J & J 0.148 MG/M3	0.0027 MG/M3	0.008		10	MOD OSHA 64	OPA	Cidex OPA	OPA can not be collected with other aldehydes. The PEL and STEL limits listed are Johnson & Johnson recommendations.
O-Phthalaldehyde	643-79-8	580AT	580AT Badge	54.8	JOHNSON 0.019 MG/M3	J & J 0.148 MG/M3	0.0030 MG/M3	0.008		10	MOD OSHA 64	OPA	Cidex OPA	The 580 badge has been replaced with the 581. The 580 information will be available until the last 580 lot expires. OPA can not be collected with other aldehydes. The PEL and STEL limits listed are Johnson & Johnson recommendations.
O-Phthalaldehyde #	643-79-8	581AT #	581AT Badge	57.5	JOHNSON 0.019 MG/M3	J & J 0.148 MG/M3	0.0029 MG/M3	0.008		10	MOD OSHA 64	OPA	Cidex OPA	OPA can not be collected with other aldehydes. The PEL and STEL limits listed are Johnson & Johnson recommendations.
Alpha-Pinene	80-56-8	521AT	521AT Badge	54.5			0.0055 PPM	0.8		6	AT L-OV (GC/FID)	OV List C		
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		
Beta-Pinene	127-91-3	521AT	521AT Badge	54.5			0.0055 PPM	0.8		6	AT L-OV (GC/FID)	OV List C		
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		
Potassium	7440-09-7	J8114K SMR TAB	Smear Tab					10		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.
Potassium	7440-09-7	J537MCE208	Cassette, MCE Cassette	2.0 L/min			0.0026 MG/M3	2.5	1000	6	MOD OSHA ID 125	ICP		
Potassium Hydroxide	1310-58-3	J537MCE208	Cassette, MCE Cassette	2.0 L/min			0.016 MG/M3	15	1000	6	MOD OSHA ID 125	ICP		
1-Propanol	71-23-8	521AT	521AT Badge	78.6	OSHA 200 PPM	NIOSH CEILING 250 PPM	0.017 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	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	0.014 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	ACGIH 20 PPM		0.0092 PPM	0.1		10	MOD EPA TO-11	Aldehyde		
Propionaldehyde	123-38-6	580AT	580AT Badge	72.9	ACGIH 20 PPM		0.0012 PPM	0.1		10	MOD EPA TO-11	Aldehyde		The 580 badge has been replaced by the 581 badge. The 580 information will be available until the last 580 lot expires.
Propionaldehyde	123-38-6	581AT	581AT Badge	76.5	ACGIH 20 PPM		0.0011 PPM	0.1		10	MOD EPA TO-11	Aldehyde		
Propyl Acetate #	109-60-4	546AT #	546AT Badge	2.27	OSHA 200 PPM	ACGIH CEILING 250 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	ACGIH CEILING 250 PPM	0.055 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Propyl Acetate	109-60-4	521AT	521AT Badge	60.8	OSHA 200 PPM	ACGIH CEILING 250 PPM	0.082 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Propyl Acetate	109-60-4	525AT	525AT Badge	63.8	OSHA 200 PPM	ACGIH CEILING 250 PPM	0.0078 PPM	1		6	AT L-OV (GC/FID)	OV List A		
N-Propyl Bromide	106-94-5	521AT	521AT Badge	56.3	ACGIH 0.1 PPM		0.015 PPM	2		6	AT L-OV (GC/FID)	OV List A	Propyl Bromide, 1-Bromopropane	
N-Propyl Bromide	106-94-5	546AT	546AT Badge	2.07	ACGIH 0.1 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	ACGIH 0.1 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	0.10 L/min	ACGIH 0.1 PPM		0.014 PPM	2		6	AT L-OV (GC/FID)	OV List A	Propyl Bromide, 1-Bromopropane	
N-Propyl Bromide #	106-94-5	525AT #	525AT Badge	59.1	ACGIH 0.1 PPM		0.017 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	ACGIH 50 PPM	ACGIH CEILING 150 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	ACGIH 50 PPM	ACGIH CEILING 150 PPM	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	ACGIH 50 PPM	ACGIH CEILING 150 PPM	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	521AT	521AT Badge	30.0	ACGIH 50 PPM	ACGIH CEILING 150 PPM	0.019 PPM	2		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	ACGIH 50 PPM	ACGIH CEILING 150 PPM	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	8.01	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	521AT	521AT Badge	72.9	OSHA 100 PPM		0.012 PPM	1		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 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	521AT	521AT Badge	68.0	OSHA 5 PPM		0.0085 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					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.
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		
Serofurane #	28523-86-6	574AT #	574AT Badge	7.49			0.097 PPM	3		6	MOD OSHA 103	Anesthetic Gas	Ulitane	
Serofurane	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	Ulitane	
Crystalline-Silica (XRD) - Resp	7631-86-9	J537PVC350	Cassette, PVC Cassette	2.5 L/min				1000	10	MOD NIOSH 7300	Subcontract			For respirable Crystalline Silica with dust, use a three piece pre-weighed PVC cassette, J537PVC350. If dust is not needed, use J537PVC350. Attach a cyclone and adjust flow according to the manufacturers cyclone instructions for use. Assay rents SNC Aluminum Cyclones. Assay part # R792 / S/C part # 225-01-01. 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, J537PVC250. If dust is not needed, use 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: 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	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: 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	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 and VM & P Naphtha are complex mixtures and are charged as a A707-M. If a badge with one chemical prepaid is submitted, there will be an additional fee. Contact our customer service group for details.
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 and VM & P Naphtha are complex mixtures and are charged as a A707-M. If a badge with one chemical prepaid is submitted, there will be an additional fee. Contact our customer service group for details.
Stoddard Solvent	8052-41-3	521AT	521AT Badge	50.8	OSHA 2900 MG/M3	NIOSH CEILING 1800 MG/M3	1.6 MG/M3	40		6	MOD NIOSH 1550	OV List C	Mineral Spirits	Stoddard solvent and VM & P Naphtha are complex mixtures and are charged as a A707-M. If a badge with one chemical prepaid is submitted, there will be an additional fee. Contact our customer service group for details.
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	Stoddard solvent and VM & P Naphtha are complex mixtures and are charged as a A707-M. If a badge with one chemical prepaid is submitted, there will be an additional fee. Contact our customer service group for details.
Strontium	7440-24-6	J8114K SMR TAB	Smear Tab					0.05		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.
Strontium	7440-24-6	J537MCE208	Cassette, MCE Cassette	2.0 L/min			0.00052 MG/M3	0.05	1000	6	MOD OSHA ID 125	ICP		
Styrene	100-42-5	521AT	521AT Badge	55.6	OSHA 100 PPM	OSHA CEILING 200 PPM	0.0044 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.
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		

# Assay Technology Inc - Sampling Guide

# - Indicates the badge / chemical combination we recommend.

The 521 and 580 badges have been replaced by the TraceAir II badges 525 and 581. Until the last lots of 521 and 525 have expired, they will be listed here.

All 521 sampling rates are with both covers removed. 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.

OSP = Organic Solvent Panel. See X525-25AT

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
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	ACGIH 0.005 PPM	OSHA CEILING 0.02 PPM	0.00039 PPM	0.1	240	10	MOD OSHA 42	Isocyanates	Toluene-2,4-Diisocyanate	Sample openface (See method)
2,6-TDI	91-08-7	J5-9001	Cassette, GFF w/ 1, PP	1.0 L/min	ACGIH 0.005 PPM	ACGIH STEL 0.02 PPM	0.00015 PPM	0.05	240	10	MOD OSHA 42	Isocyanates	Toluene-2,6-Diisocyanate	Sample openface (See method)
1,1,1,3,3-Tetrafluoro-1-Propene #	29118-24-9	549AT #	549AT Badge				0.74 PPM	1	10	10	MOD OSHA 103	Anesthetic Gas		Not validated on the 546, 566, 525 nor 521 badges.
1,1,1,2-Tetrafluoroethane #	8111-97-2	549AT #	549AT Badge	0.670			0.75 PPM	1	10	10	AT L-OV (GC/FID)	Freon	HFC-134a	Not validated on the 546, 566, 525 nor 521 badges.
Tetrahydrofuran	109-99-9	521AT	521AT Badge	74.0	OSHA 200 PPM	ACGIH CEILING 100 PPM	0.0076 PPM	0.8	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.
Tetrahydrofuran #	109-99-9	546AT #	546AT Badge	2.70	OSHA 200 PPM	ACGIH CEILING 100 PPM	0.21 PPM	0.8	6	6	AT L-OV (GC/FID)	OV List A		
Tetrahydrofuran	109-99-9	566AT	566AT Badge	10.8	OSHA 200 PPM	ACGIH CEILING 100 PPM	0.052 PPM	0.8	6	6	AT L-OV (GC/FID)	OV List A		
Tetrahydrofuran	109-99-9	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 200 PPM	ACGIH CEILING 100 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	ACGIH CEILING 100 PPM	0.0073 PPM	0.8	6	6	AT L-OV (GC/FID)	OV List A		
Thallium	7440-28-0	J8114K SMR TAB	Smear Tab					0.5	6	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.
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		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	J8114K SMR TAB	Smear Tab					2	6	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.
Tin	7440-31-5	J537MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 200 PPM		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.
Titanium	7440-32-6	J8114K SMR TAB	Smear Tab					0.2	6	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.
Titanium	7440-32-6	J537MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 200 PPM		0.00052 MG/M3	0.05	1000	6	MOD OSHA ID 125	ICP		
Titanium Dioxide	13463-67-7	J537MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 200 PPM		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	6	MOD EPA TO-11	Aldehyde		
M-Tolualdehyde #	620-23-5	571AT #	571AT Badge	6.29			0.20 PPM	3	10	6	MOD EPA TO-11	Aldehyde		
M-Tolualdehyde	620-23-5	580AT	580AT Badge	56.7			0.022 PPM	3	10	6	MOD EPA TO-11	Aldehyde		The 580 badge has been replaced by the 581 badge. The 580 information will be available until the last 580 lot expires.
M-Tolualdehyde	620-23-5	581AT	581AT Badge	59.5			0.021 PPM	3	10	6	MOD EPA TO-11	Aldehyde		
Toluene	108-88-3	521AT	521AT Badge	66.2	OSHA 200 PPM		0.017 PPM	2	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.
Toluene	108-88-3	546AT	546AT Badge	2.37	OSHA 200 PPM		0.47 PPM	2	6	6	AT L-OV (GC/FID)	OV List A		
Toluene #	108-88-3	566AT #	566AT Badge	9.48	OSHA 200 PPM		0.12 PPM	2	6	6	AT L-OV (GC/FID)	OV List A		
Toluene	108-88-3	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		
Toluene	108-88-3	525AT	525AT Badge	69.5	OSHA 200 PPM		0.016 PPM	2	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.
Total Hydrocarbons	8002-05-9	521AT	521AT Badge	58.0			1.4 MG/M3	40	6	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 may be combined while alcohols, ketones, and acrylates cannot). Contact customer service with questions.
Total Hydrocarbons	8002-05-9	546AT	546AT Badge	2.50			33 MG/M3	40	6	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 may be combined while alcohols, ketones, and acrylates cannot). Contact customer service with questions.
Total Hydrocarbons #	8002-05-9	566AT #	566AT Badge	9.88			8.4 MG/M3	40	6	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 may be combined while alcohols, ketones, and acrylates cannot). 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 may be combined while alcohols, ketones, and acrylates cannot). Contact customer service with questions.
Total Hydrocarbons	8002-05-9	525AT	525AT Badge	60.9			1.4 MG/M3	40	6	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 may be combined while alcohols, ketones, and acrylates cannot). Contact customer service with questions.
1,1,1-Trichloroethane	71-55-6	521AT	521AT Badge	57.4	OSHA 350 PPM	ACGIH STEL 450 PPM	0.020 PPM	3	6	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.
1,1,1-Trichloroethane #	71-55-6	546AT #	546AT Badge	1.98	OSHA 350 PPM	ACGIH STEL 450 PPM	0.58 PPM	3	6	6	AT L-OV (GC/FID)	OV List A	Methylchloroform	
1,1,1-Trichloroethane	71-55-6	566AT	566AT Badge	7.93	OSHA 350 PPM	ACGIH STEL 450 PPM	0.14 PPM	3	6	6	AT L-OV (GC/FID)	OV List A	Methylchloroform	
1,1,1-Trichloroethane	71-55-6	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 350 PPM	ACGIH STEL 450 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	60.3	OSHA 350 PPM	ACGIH STEL 450 PPM	0.019 PPM	3	6	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.
1,1,2-Trichloroethane	79-00-5	566AT	566AT Badge	7.58	OSHA 10 PPM		0.10 PPM	2	6	6	AT L-OV (GC/FID)	OV List A		
1,1,2-Trichloroethane	79-00-5	521AT	521AT Badge	54.9	OSHA 10 PPM		0.014 PPM	2	6	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	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	6	AT L-OV (GC/FID)	OV List A		
Trichloroethylene	79-01-6	521AT	521AT Badge	69.4	OSHA 100 PPM	OSHA CEILING 200 PPM	0.011 PPM	2	6	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.
Trichloroethylene	79-01-6	546AT	546AT Badge	2.15	OSHA 100 PPM	OSHA CEILING 200 PPM	0.36 PPM	2	6	6	AT L-OV (GC/FID)	OV List A	TCE	
Trichloroethylene #	79-01-6	566AT #	566AT Badge	8.60	OSHA 100 PPM	OSHA CEILING 200 PPM	0.090 PPM	2	6	6	AT L-OV (GC/FID)	OV List A	TCE	
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	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.
1,1,2-Trichlorotrifluoroethane	76-13-1	521AT	521AT Badge	55.6	OSHA 1000 PPM	ACGIH STEL 1250 PPM	0.017 PPM	3.5	6	6	AT L-OV (GC/FID)	OV List A	CFC 113	
1,1,2-Trichlorotrifluoroethane #	76-13-1	546AT #	546AT Badge	1.67	OSHA 1000 PPM	ACGIH STEL 1250 PPM	0.57 PPM	3.5	6	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	ACGIH STEL 1250 PPM	0.14 PPM	3.5	6	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	ACGIH STEL 1250 PPM	0.016 PPM	3.5	6	6	AT L-OV (GC/FID)	OV List A	CFC 113	
Triethanolamine	102-71-6	J537GFF203	Cassette, GFF Cassette	1.0 L/min			0.0085 PPM	25	120	10	MOD OSHA PD2341			
Triethylenetetramine #	112-24-3	585AT #	585AT Badge	6.05			0.14 PPM	2.5	10	6	MOD OSHA 60	Amine		
1,2,4-Trimethylbenzene	95-63-6	521AT	521AT Badge	56.7	ACGIH 25 PPM		0.0075 PPM	1	6	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	ACGIH 25 PPM		0.20 PPM	1	6	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	ACGIH 25 PPM		0.051 PPM	1	6	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	ACGIH 25 PPM		0.0084 PPM	1	10	6	AT L-OV (GC/FID)	OV List A		Not a OV A chemical. Analyze on with list C chemicals.
1,2,4-Trimethylbenzene	95-63-6	525AT	525AT Badge	59.5	ACGIH 25 PPM		0.0071 PPM	1	6	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	2.21			0.60 PPM	3	6	6	AT L-OV (GC/FID)	OV List A	IsoOctane	
2,2,4-Trimethylpentane	540-84-1	521AT	521AT Badge	42.6			0.031 PPM	3	6	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	6	AT L-OV (GC/FID)	OV List A	IsoOctane	
2,2,4-Trimethylpentane	540-84-1	525AT	525AT Badge	44.7			0.030 PPM	3	6	6	AT L-OV (GC/FID)	OV List A	IsoOctane	
Valeraldehyde	110-62-3	580AT	580AT Badge	65.0	ACGIH 50 PPM		0.0091 PPM	1	10	6	MOD EPA TO-11	Aldehyde		The 580 badge has been replaced by the 581 badge. The 580 information will be available until the last 580 lot expires.
Valeraldehyde #	110-62-3	571AT #	571AT Badge	7.21	ACGIH 50 PPM		0.082 PPM	1	10	6	MOD EPA TO-11	Aldehyde		
Valeraldehyde	110-62-3	581AT	581AT Badge	68.3	ACGIH 50 PPM		0.0087 PPM	1	10	6	MOD EPA TO-11	Aldehyde		
Vanadium	7440-62-2	J8114K SMR TAB	Smear Tab					0.2	6	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.
Vanadium	7440-62-2	J537MCE208	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	521AT	521AT Badge	67.4	ACGIH 10 PPM	ACGIH CEILING 15 PPM	0.0088 PPM	1	6	6	AT L-OV (GC/FID)	OV List A		
Vinyl Acetate	108-05-4	546AT	546AT Badge	2.47	ACGIH 10 PPM	ACGIH CEILING 15 PPM	0.24 PPM	1	6	6	AT L-OV (GC/FID)	OV List A		
Vinyl Acetate #	108-05-4	566AT #	566AT Badge	9.89	ACGIH 10 PPM	ACGIH CEILING 15 PPM	0.060 PPM	1	6	6	AT L-OV (GC/FID)	OV List A		
Vinyl Acetate	108-05-4	J6-001	Tube, Charcoal 50-100mg Tube	0.050 L/min	ACGIH 10 PPM	ACGIH CEILING 15 PPM	0.0059 PPM	1	10	6	AT L-OV (GC/FID)	OV List A		
Vinyl Acetate	108-05-4	525AT	525AT Badge	70.8	ACGIH 10 P									



# Assay Technology Inc - Sampling Guide

# - Indicates the badge / chemical combination we recommend.

The 521 and 580 badges have been replaced by the TraceAir II badges 525 and 581. Until the last lots of 521 and 525 have expired, they will be listed here.

All 521 sampling rates are with both covers removed. 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.

OSP = Organic Solvent Panel. See X525-25AT

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
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	521AT	521AT Badge	57.0	OSHA 100 PPM	ACGIH CEILING 100 PPM	0.0038 PPM	0.5		6	AT L-OV (GC/FID)	OV List B	Methyl Styrene	
Vinyl Toluene	25013-15-4	546AT	546AT Badge	2.11	OSHA 100 PPM	ACGIH CEILING 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	ACGIH CEILING 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	ACGIH CEILING 100 PPM	0.0036 PPM	0.5		6	AT L-OV (GC/FID)	OV List B	Methyl Styrene	
N-Vinyl-2-Pyrrolidone	88-12-0	521AT	521AT Badge	58.2			0.024 PPM	3		6	AT L-OV (GC/FID)	OV List A		
N-Vinyl-2-Pyrrolidone	88-12-0	525AT	525AT Badge	61.1			0.023 PPM	3		6	AT L-OV (GC/FID)	OV List A		
4-Vinylcyclohexene	100-40-3	546AT	546AT Badge	2.20	ACGIH 0.1 PPM		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	ACGIH 0.1 PPM		0.016 PPM	0.3		6	AT L-OV (GC/FID)	OV List A	4-Vinyl-1-cyclohexene	
4-Vinylcyclohexene	100-40-3	521AT	521AT Badge	58.7	ACGIH 0.1 PPM		0.0024 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	ACGIH 0.1 PPM		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	2.33	ACGIH 5 PPM		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	ACGIH 5 PPM		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	ACGIH 5 PPM		0.0063 PPM	1.2	10	6	AT L-OV (GC/FID)	OV List A	1,1 DCE	
Vinylidene Chloride	75-35-4	521AT	521AT Badge	60.9	ACGIH 5 PPM		0.010 PPM	1.2		6	AT L-OV (GC/FID)	OV List A	1,1 DCE	
Vinylidene Chloride #	75-35-4	525AT #	525AT Badge	63.9	ACGIH 5 PPM		0.0099 PPM	1.2		6	AT L-OV (GC/FID)	OV List A	1,1 DCE	
VM&P Naptha #	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		Stoddard solvent and VM & P Naptha are complex mixtures and are charged as a A707-M. If a badge with one chemical prepaid is submitted, there will be an additional fee. Contact our customer service group for details.
VM&P Naptha	8032-32-4	521AT	521AT Badge	53.4	NIOSH 350 MG/M3	NIOSH CEILING 1800 MG/M3	1.6 MG/M3	40		6	MOD NIOSH 1550	OV List C		Stoddard solvent and VM & P Naptha are complex mixtures and are charged as a A707-M. If a badge with one chemical prepaid is submitted, there will be an additional fee. Contact our customer service group for details.
VM&P Naptha	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		Stoddard solvent and VM & P Naptha are complex mixtures and are charged as a A707-M. If a badge with one chemical prepaid is submitted, there will be an additional fee. Contact our customer service group for details.
VM&P Naptha	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		Stoddard solvent and VM & P Naptha are complex mixtures and are charged as a A707-M. If a badge with one chemical prepaid is submitted, there will be an additional fee. Contact our customer service group for details.
VM&P Naptha	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		Stoddard solvent and VM & P Naptha are complex mixtures and are charged as a A707-M. If a badge with one chemical prepaid is submitted, there will be an additional fee. Contact our customer service group for details.
Xylenes	1330-20-7	521AT	521AT Badge	57.6	OSHA 100 PPM	ACGIH STEL 150 PPM	0.0083 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.
Xylenes	1330-20-7	546AT	546AT Badge	1.89	OSHA 100 PPM	ACGIH STEL 150 PPM	0.25 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Xylenes #	1330-20-7	566AT #	566AT Badge	7.54	OSHA 100 PPM	ACGIH STEL 150 PPM	0.064 PPM	1		6	AT L-OV (GC/FID)	OV List A		
Xylenes	1330-20-7	J6-001	Tube, Charcoal 50-100mg Tube	0.10 L/min	OSHA 100 PPM	ACGIH 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	ACGIH 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.
Zinc	7440-66-6	J8114K SMR TAB	Smear Tab							2	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.
Zinc	7440-66-6	J537MCE208	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	J537MCE208	Cassette, MCE Cassette	2.0 L/min	OSHA 1 MG/M3	ACGIH STEL 2 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	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.
Zinc Oxide	1314-13-2	J537MCE208	Cassette, MCE Cassette	2.0 L/min			0.0010 MG/M3	1	1000	6	MOD OSHA ID 125	ICP		
Zinc Oxide	1314-13-2	J537MCE208	Cassette, MCE Cassette	2.0 L/min			0.0010 MG/M3	1	1000	6	MOD OSHA ID 125	ICP		