

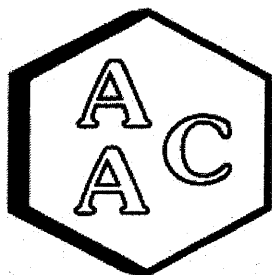
Volatile Organic Compound Analysis Results for Samples Collected in Nuiqsut, Alaska

Sample Location: Nuiqsut Ambient Air Quality Monitoring Station

Date Sample Collected: 3/18/2022

Analysis Conducted by: Atmospheric Analysis & Consulting, Inc.

Analysis Method: EPA Method TO-15



Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report

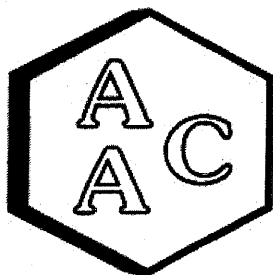
CLIENT : SLR International Corporation
PROJECT NO : 220583
MATRIX : AIR
UNITS : PPB (v/v)

DATE RECEIVED : 03/22/2022
DATE REPORTED : 03/23/2022
ANALYST : MB/RC

VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

Client ID		NUI			Sample Reporting Limit (SRL) (MRLxDF's)	NUI DUP			Sample Reporting Limit (SRL) (MRLxDF's)	Method Reporting Limit (MRL)
AAC ID		220583-29219				220583-29220				
Date Sampled		03/18/2022				03/18/2022				
Date Analyzed		03/22/2022				03/22/2022				
Can Dilution Factor		1.39				1.38				
Compound	Result	Qualifier	Analysis DF		Result	Qualifier	Analysis DF			
Chlorodifluoromethane	<SRL	U	1	0.69	<SRL	U	1	0.69	0.50	
Propene	<SRL	U	1	1.39	<SRL	U	1	1.38	1.00	
Dichlorodifluoromethane	<SRL	U	1	0.69	<SRL	U	1	0.69	0.50	
Chloromethane	<SRL	U	1	0.69	<SRL	U	1	0.69	0.50	
Dichlorotetrafluoroethane	<SRL	U	1	0.69	<SRL	U	1	0.69	0.50	
Vinyl Chloride	<SRL	U	1	0.69	<SRL	U	1	0.69	0.50	
Methanol	<SRL	U	1	6.95	<SRL	U	1	6.92	5.00	
1,3-Butadiene	<SRL	U	1	0.69	<SRL	U	1	0.69	0.50	
Bromomethane	<SRL	U	1	0.69	<SRL	U	1	0.69	0.50	
Chloroethane	<SRL	U	1	0.69	<SRL	U	1	0.69	0.50	
Dichlorofluoromethane	<SRL	U	1	0.69	<SRL	U	1	0.69	0.50	
Ethanol	<SRL	U	1	2.78	<SRL	U	1	2.77	2.00	
Vinyl Bromide	<SRL	U	1	0.69	<SRL	U	1	0.69	0.50	
Acetone	<SRL	U	1	2.78	<SRL	U	1	2.77	2.00	
Trichlorofluoromethane	<SRL	U	1	0.69	<SRL	U	1	0.69	0.50	
2-Propanol (IPA)	<SRL	U	1	2.78	<SRL	U	1	2.77	2.00	
Acrylonitrile	<SRL	U	1	2.78	<SRL	U	1	2.77	2.00	
1,1-Dichloroethene	<SRL	U	1	0.69	<SRL	U	1	0.69	0.50	
Methylene Chloride (DCM)	<SRL	U	1	1.39	<SRL	U	1	1.38	1.00	
Allyl Chloride	<SRL	U	1	1.39	<SRL	U	1	1.38	1.00	
Carbon Disulfide	<SRL	U	1	2.78	<SRL	U	1	2.77	2.00	
Trichlorotrifluoroethane	<SRL	U	1	0.69	<SRL	U	1	0.69	0.50	
trans-1,2-Dichloroethene	<SRL	U	1	0.69	<SRL	U	1	0.69	0.50	
1,1-Dichloroethane	<SRL	U	1	0.69	<SRL	U	1	0.69	0.50	
Methyl Tert Butyl Ether (MTBE)	<SRL	U	1	0.69	<SRL	U	1	0.69	0.50	
Vinyl Acetate	<SRL	U	1	1.39	<SRL	U	1	1.38	1.00	
2-Butanone (MEK)	<SRL	U	1	1.39	<SRL	U	1	1.38	1.00	
cis-1,2-Dichloroethene	<SRL	U	1	0.69	<SRL	U	1	0.69	0.50	
Hexane	<SRL	U	1	0.69	<SRL	U	1	0.69	0.50	
Chloroform	<SRL	U	1	0.69	<SRL	U	1	0.69	0.50	
Ethyl Acetate	<SRL	U	1	0.69	<SRL	U	1	0.69	0.50	
Tetrahydrofuran	<SRL	U	1	0.69	<SRL	U	1	0.69	0.50	
1,2-Dichloroethane	<SRL	U	1	0.69	<SRL	U	1	0.69	0.50	
1,1,1-Trichloroethane	<SRL	U	1	0.69	<SRL	U	1	0.69	0.50	
Benzene	<SRL	U	1	0.69	<SRL	U	1	0.69	0.50	





Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report

CLIENT : SLR International Corporation
 PROJECT NO : 220583
 MATRIX : AIR
 UNITS : PPB (v/v)

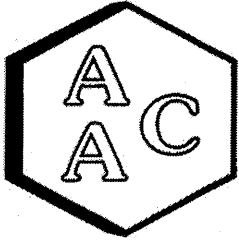
DATE RECEIVED : 03/22/2022
 DATE REPORTED : 03/23/2022
 ANALYST : MB/RC

VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

Client ID		NUI			Sample Reporting Limit (SRL) (MRLxDF's)	NUI DUP			Sample Reporting Limit (SRL) (MRLxDF's)	Method Reporting Limit (MRL)
AAC ID		220583-29219				220583-29220				
Date Sampled		03/18/2022				03/18/2022				
Date Analyzed		03/22/2022				03/22/2022				
Can Dilution Factor		1.39			1.38					
Compound	Result	Qualifier	Analysis DF		Result	Qualifier	Analysis DF			
Carbon Tetrachloride	<SRL	U	1	0.69	<SRL	U	1	0.69	0.50	
Cyclohexane	<SRL	U	1	0.69	<SRL	U	1	0.69	0.50	
1,2-Dichloropropane	<SRL	U	1	0.69	<SRL	U	1	0.69	0.50	
Bromodichloromethane	<SRL	U	1	0.69	<SRL	U	1	0.69	0.50	
1,4-Dioxane	<SRL	U	1	1.39	<SRL	U	1	1.38	1.00	
Trichloroethene (TCE)	<SRL	U	1	0.69	<SRL	U	1	0.69	0.50	
2,2,4-Trimethylpentane	<SRL	U	1	0.69	<SRL	U	1	0.69	0.50	
Heptane	<SRL	U	1	0.69	<SRL	U	1	0.69	0.50	
cis-1,3-Dichloropropene	<SRL	U	1	0.69	<SRL	U	1	0.69	0.50	
4-Methyl-2-pentanone (MIBK)	<SRL	U	1	0.69	<SRL	U	1	0.69	0.50	
trans-1,3-Dichloropropene	<SRL	U	1	0.69	<SRL	U	1	0.69	0.50	
1,1,2-Trichloroethane	<SRL	U	1	0.69	<SRL	U	1	0.69	0.50	
Toluene	<SRL	U	1	0.69	<SRL	U	1	0.69	0.50	
2-Hexanone (MBK)	<SRL	U	1	1.39	<SRL	U	1	1.38	1.00	
Dibromochloromethane	<SRL	U	1	0.69	<SRL	U	1	0.69	0.50	
1,2-Dibromoethane	<SRL	U	1	0.69	<SRL	U	1	0.69	0.50	
Tetrachloroethene (PCE)	<SRL	U	1	0.69	<SRL	U	1	0.69	0.50	
Chlorobenzene	<SRL	U	1	0.69	<SRL	U	1	0.69	0.50	
Ethylbenzene	<SRL	U	1	0.69	<SRL	U	1	0.69	0.50	
m & p-Xylene	<SRL	U	1	1.39	<SRL	U	1	1.38	1.00	
Bromoform	<SRL	U	1	0.69	<SRL	U	1	0.69	0.50	
Styrene	<SRL	U	1	0.69	<SRL	U	1	0.69	0.50	
1,1,2,2-Tetrachloroethane	<SRL	U	1	0.69	<SRL	U	1	0.69	0.50	
o-Xylene	<SRL	U	1	0.69	<SRL	U	1	0.69	0.50	
4-Ethyltoluene	<SRL	U	1	0.69	<SRL	U	1	0.69	0.50	
1,3,5-Trimethylbenzene	<SRL	U	1	0.69	<SRL	U	1	0.69	0.50	
1,2,4-Trimethylbenzene	<SRL	U	1	0.69	<SRL	U	1	0.69	0.50	
Benzyl Chloride (a-Chlorotoluene)	<SRL	U	1	0.69	<SRL	U	1	0.69	0.50	
1,3-Dichlorobenzene	<SRL	U	1	0.69	<SRL	U	1	0.69	0.50	
1,4-Dichlorobenzene	<SRL	U	1	0.69	<SRL	U	1	0.69	0.50	
1,2-Dichlorobenzene	<SRL	U	1	0.69	<SRL	U	1	0.69	0.50	
1,2,4-Trichlorobenzene	<SRL	U	1	2.78	<SRL	U	1	2.77	2.00	
Hexachlorobutadiene	<SRL	U	1	0.69	<SRL	U	1	0.69	0.50	
BFB-Surrogate Std. % Recovery			87%			90%			70-130%	

U - Compound was not detected at or above the SRL.





Atmospheric Analysis & Consulting, Inc

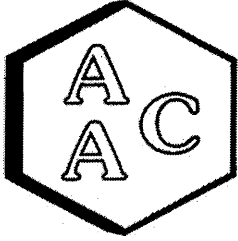
Laboratory Analysis Report

CLIENT : SLR International Corporation
PROJECT NO : 220583
MATRIX : AIR
UNITS : PPB (v/v)

DATE RECEIVED : 03/22/2022
DATE REPORTED : 03/23/2022
ANALYST : MB/RC

VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

<i>Client ID</i>	NUI UNL			Sample Reporting Limit (SRL) (MRLxDF's)	Method Reporting Limit (MRL)
<i>AAC ID</i>	220583-29221				
<i>Date Sampled</i>	03/18/2022				
<i>Date Analyzed</i>	03/22/2022				
<i>Can Dilution Factor</i>	1.35				
<i>Compound</i>	Result	Qualifier	Analysis DF		
Chlorodifluoromethane	<SRL	U	1	0.67	0.50
Propene	<SRL	U	1	1.35	1.00
Dichlorodifluoromethane	<SRL	U	1	0.67	0.50
Chloromethane	<SRL	U	1	0.67	0.50
Dichlorotetrafluoroethane	<SRL	U	1	0.67	0.50
Vinyl Chloride	<SRL	U	1	0.67	0.50
Methanol	<SRL	U	1	6.73	5.00
1,3-Butadiene	<SRL	U	1	0.67	0.50
Bromomethane	<SRL	U	1	0.67	0.50
Chloroethane	<SRL	U	1	0.67	0.50
Dichlorofluoromethane	<SRL	U	1	0.67	0.50
Ethanol	<SRL	U	1	2.69	2.00
Vinyl Bromide	<SRL	U	1	0.67	0.50
Acetone	<SRL	U	1	2.69	2.00
Trichlorofluoromethane	<SRL	U	1	0.67	0.50
2-Propanol (IPA)	<SRL	U	1	2.69	2.00
Acrylonitrile	<SRL	U	1	2.69	2.00
1,1-Dichloroethene	<SRL	U	1	0.67	0.50
Methylene Chloride (DCM)	<SRL	U	1	1.35	1.00
Allyl Chloride	<SRL	U	1	1.35	1.00
Carbon Disulfide	<SRL	U	1	2.69	2.00
Trichlorotrifluoroethane	<SRL	U	1	0.67	0.50
trans-1,2-Dichloroethene	<SRL	U	1	0.67	0.50
1,1-Dichloroethane	<SRL	U	1	0.67	0.50
Methyl Tert Butyl Ether (MTBE)	<SRL	U	1	0.67	0.50
Vinyl Acetate	<SRL	U	1	1.35	1.00
2-Butanone (MEK)	<SRL	U	1	1.35	1.00
cis-1,2-Dichloroethene	<SRL	U	1	0.67	0.50
Hexane	<SRL	U	1	0.67	0.50
Chloroform	<SRL	U	1	0.67	0.50
Ethyl Acetate	<SRL	U	1	0.67	0.50
Tetrahydrofuran	<SRL	U	1	0.67	0.50
1,2-Dichloroethane	<SRL	U	1	0.67	0.50
1,1,1-Trichloroethane	<SRL	U	1	0.67	0.50
Benzene	<SRL	U	1	0.67	0.50



Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report

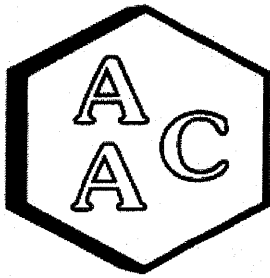
CLIENT : SLR International Corporation
 PROJECT NO : 220583
 MATRIX : AIR
 UNITS : PPB (v/v)

DATE RECEIVED : 03/22/2022
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 ANALYST : MB/RC

VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

Client ID		NUI UNL			Sample Reporting Limit (SRL)	Method Reporting Limit (MRL)
AAC ID		220583-29221				
Date Sampled		03/18/2022				
Date Analyzed		03/22/2022				
Can Dilution Factor		1.35				
Compound	Result	Qualifier	Analysis DF	(MRLxDF's)		
Carbon Tetrachloride	<SRL	U	1	0.67	0.50	
Cyclohexane	<SRL	U	1	0.67	0.50	
1,2-Dichloropropane	<SRL	U	1	0.67	0.50	
Bromodichloromethane	<SRL	U	1	0.67	0.50	
1,4-Dioxane	<SRL	U	1	1.35	1.00	
Trichloroethene (TCE)	<SRL	U	1	0.67	0.50	
2,2,4-Trimethylpentane	<SRL	U	1	0.67	0.50	
Heptane	<SRL	U	1	0.67	0.50	
cis-1,3-Dichloropropene	<SRL	U	1	0.67	0.50	
4-Methyl-2-pentanone (MiBK)	<SRL	U	1	0.67	0.50	
trans-1,3-Dichloropropene	<SRL	U	1	0.67	0.50	
1,1,2-Trichloroethane	<SRL	U	1	0.67	0.50	
Toluene	<SRL	U	1	0.67	0.50	
2-Hexanone (MBK)	<SRL	U	1	1.35	1.00	
Dibromochloromethane	<SRL	U	1	0.67	0.50	
1,2-Dibromoethane	<SRL	U	1	0.67	0.50	
Tetrachloroethene (PCE)	<SRL	U	1	0.67	0.50	
Chlorobenzene	<SRL	U	1	0.67	0.50	
Ethylbenzene	<SRL	U	1	0.67	0.50	
m & p-Xylene	<SRL	U	1	1.35	1.00	
Bromoform	<SRL	U	1	0.67	0.50	
Styrene	<SRL	U	1	0.67	0.50	
1,1,2,2-Tetrachloroethane	<SRL	U	1	0.67	0.50	
o-Xylene	<SRL	U	1	0.67	0.50	
4-Ethyltoluene	<SRL	U	1	0.67	0.50	
1,3,5-Trimethylbenzene	<SRL	U	1	0.67	0.50	
1,2,4-Trimethylbenzene	<SRL	U	1	0.67	0.50	
Benzyl Chloride (a-Chlorotoluene)	<SRL	U	1	0.67	0.50	
1,3-Dichlorobenzene	<SRL	U	1	0.67	0.50	
1,4-Dichlorobenzene	<SRL	U	1	0.67	0.50	
1,2-Dichlorobenzene	<SRL	U	1	0.67	0.50	
1,2,4-Trichlorobenzene	<SRL	U	1	2.69	2.00	
Hexachlorobutadiene	<SRL	U	1	0.67	0.50	
BBB-Surrogate Std. % Recovery		101%			70-130%	

U - Compound was not detected at or above the SRL.



Atmospheric Analysis & Consulting, Inc.

QUALITY CONTROL / QUALITY ASSURANCE REPORT

ANALYSIS DATE : 03/22/2022
 MATRIX : High Purity N₂
 UNITS : PPB (v/v)

INSTRUMENT ID : GC/MS-02
 CALIBRATION STD ID : MS1-030722-01
 ANALYST : RC

VOLATILE ORGANIC COMPOUNDS BY EPA METHOD TO-15 Continuing Calibration Verification of the 03/21/2022 Calibration

Analyte Compounds	Source ¹	CCV ²	% Recovery ³
4-BFB (surrogate standard)	10.00	9.92	99
Chlorodifluoromethane	10.50	10.18	97
Propene	10.60	9.81	93
Dichlorodifluoromethane	10.40	10.47	101
Dimethyl Ether	10.80	9.11	84
Chloromethane	10.40	10.06	97
Dichlorotetrafluoroethane	10.30	9.76	95
Vinyl Chloride	10.50	10.20	97
Acetaldehyde	22.50	22.46	100
Methanol	20.10	17.65	88
1,3-Butadiene	10.60	10.53	99
Bromomethane	10.40	9.83	95
Chloroethane	10.30	9.91	96
Dichlorofluoromethane	10.50	9.36	89
Ethanol	11.20	9.86	88
Vinyl Bromide	10.50	9.44	90
Acrolein	11.10	10.37	93
Acetone	10.60	10.00	94
Trichlorofluoromethane	10.50	9.72	93
2-Propanol (IPA)	11.00	9.62	87
Acrylonitrile	11.40	10.06	88
1,1-Dichloroethene	10.40	9.59	92
Methylene Chloride (DCM)	10.50	10.14	97
TertButanol (TBA)	11.30	9.95	88
Allyl Chloride	10.40	8.38	81
Carbon Disulfide	10.50	9.95	95
Trichlorotrifluoroethane	10.40	9.72	93
trans-1,2-Dichloroethene	10.60	10.20	96
1,1-Dichloroethane	10.50	9.18	87
Methyl Tert Butyl Ether (MTBE)	10.50	9.52	91
Vinyl Acetate	11.00	9.76	89
2-Butanone (MEK)	10.60	8.92	84
cis-1,2-Dichloroethene	10.50	10.00	95
Hexane	10.70	9.35	87
Chloroform	10.60	9.43	89
Ethyl Acetate	10.60	9.50	90
Tetrahydrofuran	10.20	9.11	89
1,2-Dichloroethane	10.50	9.39	89
1,1,1-Trichloroethane	10.40	9.57	92
Benzene	10.60	9.28	88
Carbon Tetrachloride	10.20	9.00	88
Cyclohexane	10.50	9.39	89

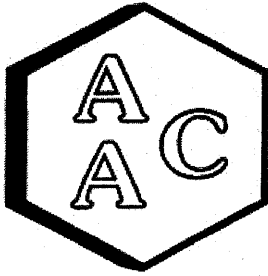
Analyte Compounds (Continued)	Source ¹	CCV ²	% Recovery ³
1,2-Dichloropropane	10.50	8.79	84
Bromodichloromethane	10.40	8.57	82
1,4-Dioxane	10.40	9.68	93
Trichloroethene (TCE)	10.40	9.86	95
2,2,4-Trimethylpentane	10.40	9.07	87
Methyl Methacrylate	11.00	9.37	85
Heptane	10.50	9.39	89
cis-1,3-Dichloropropene	10.40	9.00	87
4-Methyl-2-pentanone (MiBK)	10.40	9.07	87
trans-1,3-Dichloropropene	10.50	8.91	85
1,1,2-Trichloroethane	10.50	9.11	87
Toluene	10.60	9.60	91
2-Hexanone (MBK)	10.50	9.36	89
Dibromochloromethane	10.30	9.30	90
1,2-Dibromoethane	10.60	9.55	90
Tetrachloroethene (PCE)	10.40	9.23	89
Chlorobenzene	10.60	10.30	97
Ethylbenzene	10.50	10.08	96
m & p-Xylene	21.00	20.14	96
Bromoform	10.50	10.01	95
Styrene	10.50	10.25	98
1,1,2,2-Tetrachloroethane	10.50	10.35	99
o-Xylene	10.50	10.49	100
1,2,3-Trichloropropane	10.40	10.17	98
Isopropylbenzene (Cumene)	10.40	10.22	98
α-Pinene	11.40	10.52	92
2-Chlorotoluene	10.40	10.38	100
n-Propylbenzene	10.50	10.21	97
4-Ethyltoluene	10.30	10.81	105
1,3,5-Trimethylbenzene	10.30	10.37	101
β-Pinene	11.30	9.43	83
1,2,4-Trimethylbenzene	10.30	10.50	102
Benzyl Chloride (a-Chlorotoluene)	10.40	11.17	107
1,3-Dichlorobenzene	10.40	10.41	100
1,4-Dichlorobenzene	10.30	10.16	99
Sec-ButylBenzene	10.40	10.60	102
1,2-Dichlorobenzene	10.60	10.52	99
n-ButylBenzene	10.40	10.71	103
1,2-Dibromo-3-Chloropropane	10.40	9.73	94
1,2,4-Trichlorobenzene	11.00	9.84	89
Naphthalene	11.50	10.10	88
Hexachlorobutadiene	11.00	9.81	89

¹ Concentration of analyte compound in certified source standard.

² Measured result from daily Continuing Calibration Verification (CCV).

³ The acceptable range for analyte recovery is 100±30%.





Atmospheric Analysis & Consulting, Inc.

QUALITY CONTROL / QUALITY ASSURANCE REPORT

ANALYSIS DATE : 03/22/2022

MATRIX : High Purity N₂

UNITS : PPB (v/v)

INSTRUMENT ID : GC/MS-02

CALIBRATION STD ID : MS1-030722-01

ANALYST : RC

VOLATILE ORGANIC COMPOUNDS BY EPA METHOD TO-15

Laboratory Control Spike Analysis

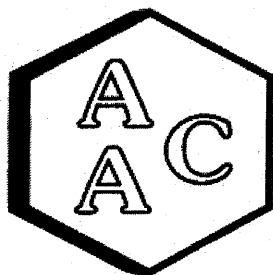
<i>System Monitoring Compounds</i>	<i>Sample Concentration</i>	<i>Spike Added</i>	<i>LCS¹ Recovery</i>	<i>LCSD¹ Recovery</i>	<i>LCS¹ % Recovery²</i>	<i>LCSD¹ % Recovery²</i>	<i>RPD³</i>
4-BFB (surrogate standard)	0.0	10.00	9.92	9.52	99.2	95.2	4.1
1,1-Dichloroethene	0.0	10.40	9.59	10.06	92	97	4.8
Methylene Chloride (DCM)	0.0	10.50	10.14	10.60	97	101	4.4
Benzene	0.0	10.60	9.28	9.77	88	92	5.1
Trichloroethene (TCE)	0.0	10.40	9.86	10.06	95	97	2.0
Toluene	0.0	10.60	9.60	10.20	91	96	6.1
Tetrachloroethene (PCE)	0.0	10.40	9.23	9.68	89	93	4.8
Chlorobenzene	0.0	10.60	10.30	9.95	97	94	3.5
Ethylbenzene	0.0	10.50	10.08	10.38	96	99	2.9
m & p-Xylene	0.0	21.00	20.14	19.52	96	93	3.1
o-Xylene	0.0	10.50	10.49	10.48	100	100	0.1

¹ Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD)

² The acceptable range for analyte recovery is 100±30%.

³ Relative Percent Difference (RPD) between LCS recovery and LCSD recovery (acceptable range is <25%).





Atmospheric Analysis & Consulting, Inc.

QUALITY CONTROL / QUALITY ASSURANCE REPORT

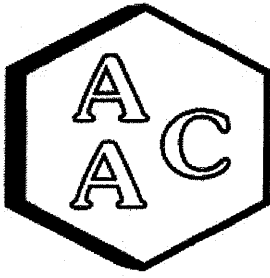
ANALYSIS DATE : 03/22/2022
 MATRIX : High Purity He or N₂
 UNITS : PPB (v/v)

INSTRUMENT ID : GC/MS-02
 ANALYST : RC

VOLATILE ORGANIC COMPOUNDS BY EPA METHOD TO-15 Method Blank Analysis

Analyte Compounds	MB 032222	Reporting Limit (RL)	Analyte Compounds (Continued)	MB 032222	Reporting Limit (RL)
4-BFB (surrogate standard)	89%	100±30%	1,2-Dichloropropane	<RL	0.5
Chlorodifluoromethane	<RL	0.5	Bromodichloromethane	<RL	0.5
Propene	<RL	1.0	1,4-Dioxane	<RL	1.0
Dichlorodifluoromethane	<RL	0.5	Trichloroethene (TCE)	<RL	0.5
Dimethyl Ether	<RL	0.5	2,2,4-Trimethylpentane	<RL	0.5
Chloromethane	<RL	0.5	Methyl Methacrylate	<RL	0.5
Dichlorotetrafluoroethane	<RL	0.5	Heptane	<RL	0.5
Vinyl Chloride	<RL	0.5	cis-1,3-Dichloropropene	<RL	0.5
Acetaldehyde	<RL	5.0	4-Methyl-2-pentanone (MiBK)	<RL	0.5
Methanol	<RL	5.0	trans-1,3-Dichloropropene	<RL	0.5
1,3-Butadiene	<RL	0.5	1,1,2-Trichloroethane	<RL	0.5
Bromomethane	<RL	0.5	Toluene	<RL	0.5
Chloroethane	<RL	0.5	2-Hexanone (MBK)	<RL	1.0
Dichlorofluoromethane	<RL	0.5	Dibromochloromethane	<RL	0.5
Ethanol	<RL	2.0	1,2-Dibromoethane	<RL	0.5
Vinyl Bromide	<RL	0.5	Tetrachloroethene (PCE)	<RL	0.5
Acrolein	<RL	1.0	Chlorobenzene	<RL	0.5
Acetone	<RL	2.0	Ethylbenzene	<RL	0.5
Trichlorofluoromethane	<RL	0.5	m & p-Xylene	<RL	1.0
2-Propanol (IPA)	<RL	2.0	Bromoform	<RL	0.5
Acrylonitrile	<RL	2.0	Styrene	<RL	0.5
1,1-Dichloroethene	<RL	0.5	1,1,2,2-Tetrachloroethane	<RL	0.5
Methylene Chloride (DCM)	<RL	1.0	o-Xylene	<RL	0.5
TertButanol (TBA)	<RL	0.5	1,2,3-Trichloropropane	<RL	0.5
Allyl Chloride	<RL	1.0	Isopropylbenzene (Cumene)	<RL	0.5
Carbon Disulfide	<RL	2.0	α-Pinene	<RL	0.5
Trichlorotrifluoroethane	<RL	0.5	2-Chlorotoluene	<RL	0.5
trans-1,2-Dichloroethene	<RL	0.5	n-Propylbenzene	<RL	0.5
1,1-Dichloroethane	<RL	0.5	4-Ethyltoluene	<RL	0.5
Methyl Tert Butyl Ether (MTBE)	<RL	0.5	1,3,5-Trimethylbenzene	<RL	0.5
Vinyl Acetate	<RL	1.0	β-Pinene	<RL	0.5
2-Butanone (MEK)	<RL	1.0	1,2,4-Trimethylbenzene	<RL	0.5
cis-1,2-Dichloroethene	<RL	0.5	Benzyl Chloride (a-Chlorotoluene)	<RL	0.5
Hexane	<RL	0.5	1,3-Dichlorobenzene	<RL	0.5
Chloroform	<RL	0.5	1,4-Dichlorobenzene	<RL	0.5
Ethyl Acetate	<RL	0.5	Sec-ButylBenzene	<RL	0.5
Tetrahydrofuran	<RL	0.5	1,2-Dichlorobenzene	<RL	0.5
1,2-Dichloroethane	<RL	0.5	n-ButylBenzene	<RL	0.5
1,1,1-Trichloroethane	<RL	0.5	1,2-Dibromo-3-Chloropropane	<RL	0.5
Benzene	<RL	0.5	1,2,4-Trichlorobenzene	<RL	2.0
Carbon Tetrachloride	<RL	0.5	Naphthalene	<RL	2.0
Cyclohexane	<RL	0.5	Hexachlorobutadiene	<RL	0.5





Atmospheric Analysis & Consulting, Inc.

QUALITY CONTROL / QUALITY ASSURANCE REPORT

ANALYSIS DATE : 03/22/2022

MATRIX : Air

UNITS : PPB (v/v)

INSTRUMENT ID : GC/MS-02

ANALYST : RC

DILUTION FACTOR¹ : x1

VOLATILE ORGANIC COMPOUNDS BY EPA METHOD TO-15

Duplicate Analysis of AAC Sample ID: CCV/LCSD

Analyte Compounds	Sample	Duplicate	RPD ²
4-BFB (surrogate standard)	9.92	9.52	4.1
Chlorodifluoromethane	10.2	10.6	4.3
Propene	9.81	10.2	3.7
Dichlorodifluoromethane	10.5	10.7	1.7
Dimethyl Ether	9.11	9.78	7.1
Chloromethane	10.1	10.2	1.2
Dichlorotetrafluoroethane	9.76	10.2	4.8
Vinyl Chloride	10.2	10.9	6.7
Acetaldehyde	22.5	22.6	0.7
Methanol	17.7	18.5	4.5
1,3-Butadiene	10.5	10.8	2.6
Bromomethane	9.83	10.3	4.5
Chloroethane	9.91	10.4	4.5
Dichlorofluoromethane	9.36	10.0	7.0
Ethanol	9.86	11.2	12.5
Vinyl Bromide	9.44	10.2	7.6
Acrolein	10.4	11.4	9.4
Acetone	10.0	9.88	1.2
Trichlorofluoromethane	9.72	10.1	3.6
2-Propanol (IPA)	9.62	10.1	4.4
Acrylonitrile	10.1	11.0	8.8
1,1-Dichloroethene	9.59	10.1	4.8
Methylene Chloride (DCM)	10.1	10.6	4.4
TertButanol (TBA)	9.95	10.9	9.3
Allyl Chloride	8.38	9.11	8.3
Carbon Disulfide	9.95	10.1	1.8
Trichlorotrifluoroethane	9.72	10.1	3.9
trans-1,2-Dichloroethene	10.2	10.8	5.5
1,1-Dichloroethane	9.18	9.88	7.3
Methyl Tert Butyl Ether (MTBE)	9.52	9.82	3.1
Vinyl Acetate	9.76	10.2	4.4
2-Butanone (MEK)	8.92	10.2	12.9
cis-1,2-Dichloroethene	10.0	10.3	3.3
Hexane	9.35	9.85	5.2
Chloroform	9.43	9.92	5.1
Ethyl Acetate	9.50	10.2	7.2
Tetrahydrofuran	9.11	9.67	6.0
1,2-Dichloroethane	9.39	10.0	6.6
1,1,1-Trichloroethane	9.57	9.70	1.3
Benzene	9.28	9.77	5.1
Carbon Tetrachloride	9.00	9.27	3.0
Cyclohexane	9.39	9.72	3.5

Analyte Compounds (Continued)	Sample	Duplicate	RPD ²
1,2-Dichloropropane	8.79	9.28	5.4
Bromodichloromethane	8.57	9.05	5.4
1,4-Dioxane	9.68	9.83	1.5
Trichloroethene (TCE)	9.86	10.1	2.0
2,2,4-Trimethylpentane	9.07	9.25	2.0
Methyl Methacrylate	9.37	9.81	4.6
Heptane	9.39	9.36	0.3
cis-1,3-Dichloropropene	9.00	9.08	0.9
4-Methyl-2-pentanone (MiBK)	9.07	9.32	2.7
trans-1,3-Dichloropropene	8.91	9.45	5.9
1,1,2-Trichloroethane	9.11	9.09	0.2
Toluene	9.60	10.2	6.1
2-Hexanone (MBK)	9.36	9.11	2.7
Dibromochloromethane	9.30	9.76	4.8
1,2-Dibromoethane	9.55	9.70	1.6
Tetrachloroethene (PCE)	9.23	9.68	4.8
Chlorobenzene	10.3	9.95	3.5
Ethylbenzene	10.1	10.4	2.9
m & p-Xylene	20.1	19.5	3.1
Bromoform	10.0	9.85	1.6
Styrene	10.3	9.96	2.9
1,1,2,2-Tetrachloroethane	10.4	10.2	1.6
o-Xylene	10.5	10.5	0.1
1,2,3-Trichloropropane	10.2	9.88	2.9
Isopropylbenzene (Cumene)	10.2	10.2	0.3
α-Pinene	10.5	10.4	1.2
2-Chlorotoluene	10.4	10.3	1.0
n-Propylbenzene	10.2	10.6	3.5
4-Ethyltoluene	10.8	10.7	1.3
1,3,5-Trimethylbenzene	10.4	10.2	1.4
β-Pinene	9.43	8.72	7.8
1,2,4-Trimethylbenzene	10.5	10.4	1.4
Benzyl Chloride (a-Chlorotoluene)	11.2	10.2	8.7
1,3-Dichlorobenzene	10.4	10.4	0.6
1,4-Dichlorobenzene	10.2	10.2	0.1
Sec-ButylBenzene	10.6	10.7	0.9
1,2-Dichlorobenzene	10.5	10.8	2.3
n-ButylBenzene	10.7	10.3	3.7
1,2-Dibromo-3-Chloropropane	9.73	9.98	2.5
1,2,4-Trichlorobenzene	9.84	9.70	1.4
Naphthalene	10.1	10.4	2.6
Hexachlorobutadiene	9.81	10.2	3.8

¹ Dilution factor is the product of the Canister Dilution Factor and the Analysis Dilution Factor.

² Relative Percent Difference (RPD) between Sample analysis and Duplicate analysis (acceptable range is <25%).

SRL - Sample Reporting Limit (minimum)

