

TEST REPORT

Report No: QMTL/R-152607/2021

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates ATTN : MR. JASMAN PINTO	Sample ID	QMTL/S-152607	
	Date Received	10 Mar 2021	
	Date(s) Tested	10 Mar 2021	
	Date Reported	23 Mar 2021	
PROJECT : INDOOR AIR QUALITY MONITORING AT GALLERIA MALL (GAMI)			
Sample Description	L2, South West Food Court		
Standard Procedure	BSEN 481:1993,60079-29-2-2015	Sampled By	QMTL Representative
Sampling Duration	STEL	Location	Galleria Mall, GAMI
Occupancy State	Operational		
Date/Time of Monitoring	10.03.2021/NP		

TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	LIMITS	RESULTS
PHYSICAL PARAMETERS				
Humidity*	BSEN 60079-29-2:2015 , QMTL/SOP/146 Rev 01	%	Max 65	49
Temperature*	BSEN 60079-29-2:2015 , QMTL/SOP/146 Rev 01	°C	-	22
PARTICULATE MATTER				
PM 1.0*	BSEN 481:1993 / QMTL/ SOP/ 147	µg/m ³	-	1.7
PM 10*	BSEN 481:1993 / QMTL/ SOP/ 147 Rev 01	µg/m ³	Max 50	31.9
PM 2.5*	BSEN 481:1993 / QMTL/ SOP/ 147 Rev 01	µg/m ³	Max 15	3.5
Total Suspended Particulate Matter (TSPM)*	BSEN 481:1993 / QMTL/ SOP/ 147 Rev 01	µg/m ³	-	38.4
GASEOUS PARAMETERS				
Carbon Dioxide (CO ₂)*	BSEN 60079-29-2:2015 QMTL/SOP/146 Rev 01	ppm	-	719
Carbon Monoxide (CO)*	BSEN 60079-29-2:2015 QMTL/SOP/146 Rev 01	ppm	Max 9	1.3
Total Volatile Organic Compounds (TVOCs)*	BSEN 60079-29-2:2015 , QMTL/SOP/146 Rev 01	ppm	-	0.05

The Analysis results denoted by (*) are part of the laboratory ENAS Accreditation to ISO/IEC 17025 : 2017.

Remarks	The indoor quality performed meets with ANSI/ASHRAE standard 62.1-2016 for Ventilation for Acceptable Indoor Air Quality guideline with respect to the above tested parameters
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Keywords	STEL: Short Term Exposure Limit, BSEN: British Standard European Norm
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Test method deviation	None
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Test performed by Emp#	75
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Report prepared by Emp#	22
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The above test results are only applicable to the sample(s) referred above.



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ANILA GEORGE

LABORATORY MANAGER

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END OF REPORT

TEST REPORT

Report No: QMTL/R-152608/2021

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-152608
ATTN : MR. JASMAN PINTO		Date Received	10 Mar 2021
		Date(s) Tested	10 Mar 2021
		Date Reported	23 Mar 2021
PROJECT : INDOOR AIR QUALITY MONITORING AT GALLERIA MALL (GAMI)			
Sample Description	L2, North Atrium		
Standard Procedure	BSEN 481:1993,60079-29-2-2015	Sampled By	QMTL Representative
Sampling Duration	STEL	Location	Galleria Mall, GAMI
Occupancy State	Operational		
Date/Time of Monitoring	10.03.2021/NP		

TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	LIMITS	RESULTS
PHYSICAL PARAMETERS				
Humidity*	BSEN 60079-29-2:2015 , QMTL/SOP/146 Rev 01	%	Max 65	48
Temperature*	BSEN 60079-29-2:2015 , QMTL/SOP/146 Rev 01	°C	-	22.3
PARTICULATE MATTER				
PM 1.0*	BSEN 481:1993 / QMTL/ SOP/ 147	µg/m ³	-	2.1
PM 10*	BSEN 481:1993 / QMTL/ SOP/ 147 Rev 01	µg/m ³	Max 50	46.9
PM 2.5*	BSEN 481:1993 / QMTL/ SOP/ 147 Rev 01	µg/m ³	Max 15	11.8
Total Suspended Particulate Matter (TSPM)*	BSEN 481:1993 / QMTL/ SOP/ 147 Rev 01	µg/m ³	-	55.2
GASEOUS PARAMETERS				
Carbon Dioxide (CO ₂)*	BSEN 60079-29-2:2015 QMTL/SOP/146 Rev 01	ppm	-	691
Carbon Monoxide (CO)*	BSEN 60079-29-2:2015 QMTL/SOP/146 Rev 01	ppm	Max 9	0.9
Total Volatile Organic Compounds (TVOCs)*	BSEN 60079-29-2:2015 , QMTL/SOP/146 Rev 01	ppm	-	0.03

The Analysis results denoted by (*) are part of the laboratory ENAS Accreditation to ISO/IEC 17025 : 2017.

Remarks	The indoor quality performed meets with ANSI/ASHRAE standard 62.1-2016 for Ventilation for Acceptable Indoor Air Quality guideline with respect to the above tested parameters
Keywords	STEL: Short Term Exposure Limit, BSEN: British Standard European Norm
Test method deviation	None
Test performed by Emp#	75
Report prepared by Emp#	22
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CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates ATTN : MR. JASMAN PINTO	Sample ID	QMTL/S-152609	
	Date Received	10 Mar 2021	
	Date(s) Tested	10 Mar 2021	
	Date Reported	23 Mar 2021	
PROJECT : INDOOR AIR QUALITY MONITORING AT GALLERIA MALL (GAMI)			
Sample Description	Ground Level, Central Atrium		
Standard Procedure	BSEN 481:1993,60079-29-2-2015	Sampled By	QMTL Representative
Sampling Duration	STEL	Location	Galleria Mall, GAMI
Occupancy State	Operational		
Date/Time of Monitoring	10.03.2021/NP		

TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	LIMITS	RESULTS
PHYSICAL PARAMETERS				
Humidity*	BSEN 60079-29-2:2015 , QMTL/SOP/146 Rev 01	%	Max 65	49
Temperature*	BSEN 60079-29-2:2015 , QMTL/SOP/146 Rev 01	°C	-	22.9
PARTICULATE MATTER				
PM 1.0*	BSEN 481:1993 / QMTL/ SOP/ 147	µg/m ³	-	3.8
PM 10*	BSEN 481:1993 / QMTL/ SOP/ 147 Rev 01	µg/m ³	Max 50	40.9
PM 2.5*	BSEN 481:1993 / QMTL/ SOP/ 147 Rev 01	µg/m ³	Max 15	12.5
Total Suspended Particulate Matter (TSPM)*	BSEN 481:1993 / QMTL/ SOP/ 147 Rev 01	µg/m ³	-	55.3
GASEOUS PARAMETERS				
Carbon Dioxide (CO ₂)*	BSEN 60079-29-2:2015 QMTL/SOP/146 Rev 01	ppm	-	649
Carbon Monoxide (CO)*	BSEN 60079-29-2:2015 QMTL/SOP/146 Rev 01	ppm	Max 9	1.8
Total Volatile Organic Compounds (TVOCs)*	BSEN 60079-29-2:2015 , QMTL/SOP/146 Rev 01	ppm	-	0.03

The Analysis results denoted by (*) are part of the laboratory ENAS Accreditation to ISO/IEC 17025 : 2017.

Remarks	The indoor quality performed meets with ANSI/ASHRAE standard 62.1-2016 for Ventilation for Acceptable Indoor Air Quality guideline with respect to the above tested parameters
Keywords	STEL: Short Term Exposure Limit, BSEN: British Standard European Norm
Test method deviation	None
Test performed by Emp#	75
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