Supplementary Information

Emissions of volatile organic compounds from industrial sources and their effects on ozone formation in Wuhan, China

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Table S1 Detail information of nine vehicle-related and seven commodity manufacturing industries

Factory	Industry Category	Annual Production Capacity	raw and auxiliary materials that generate VOCs and their production volumes	VOCs-Involved Process (Pollutant Category)	VOCs Emission during the Production Process (kg) and the Corresponding Year
DFFS	Automobile manufacturing of complete vehicles	3,510,000 vehicles	Water-based 3C1B Compact Coating Line (120,000 units)	Industrial coating, Drying (VOCs, Sulfur Dioxide, Nitrogen Oxides, Particulate Matter, Benzene, Toluene, Xylene, Non-Methane Hydrocarbons)	Non-Methane Hydrocarbons 2019：120
DFSC	Manufacturing of complete gasoline and diesel vehicles	120000 units	Electrophoretic primer (632.846 t), Sealant (773.988 t), Paint (298.1 t), Clear coat (116.715 t)	Spraying, Drying (VOCs, Particulate Matter, Toluene, Xylene)	VOCs 2019：120212.03 2020：224066.85
DFYC	Manufacturing of complete gasoline and diesel vehicles	304231 units	Electrophoretic primer (2263.662 t), Sealant (2560.059 t) Intermediate coating (601.961 t), Paint color (825.397 t), Clear coat (399 t)	Spraying, Drying (VOCs, Particulate Matter, Toluene, xylene)	VOCs 2019：407387.6 2020：189321
SLSC	Manufacturing of complete gasoline and Diesel vehicles	31889 vehicles	Electrophoretic pigment slurry (35.848 t), Electrophoretic resin (145.211 t), Electrophoretic solvent (4.6 t), Sealant (78.5 t), Seal PVC coating (61.5 t), Undercoat paint (29.695 t), Paint (109.454 t), Clear coat (40.228 t), Curing agent (15.146 t), Repaired paint	Coating (Non-Methane Hydrocarbons, Toluene, Xylene, Sulfur Dioxide, Nitrogen Oxides, Particulate Matter)	VOCs 2019：65049 2020：58272

			(0.032 t), Repaired clear coat (0.04 t), Repaired curing agent (0.009 t), Cleaned butyl acetate (23.267 t), Cleaned water-based solvents (6.847 t)		
LY	Manufacturing of automotive parts and accessories	Bumper 72,800 pieces	Thermoplastics and thermosets (1459 t), Undercoat (15.39 t), Paint (49.38 t), Clear coat (38.63 t), Varnish (48.98 t), Cleaning solvent (53.14 t)	Surface coating (Benzene, Toluene, Xylene)	VOCs：116595
DFADT	Manufacturing of automotive seat assemblies and related components	500,000 vehicles	Foaming agent, Adhesive, Paint	Coating (Benzene, Toluene, Xylene)	VOCs
DFEC	Manufacturing of complete gasoline and diesel vehicles	319665 units	Sealant (2803.56 t), Cathodic electrophoretic paint (2204.82 t), Paint (1062.54 t), Clear coat (374.54 t), Solvent (50.37 t), Cleaning agent (104.68 t)	Spraying, Drying (VOCs, Particulate Matter, Toluene, Xylene)	VOCs 2019：452906.89 2020：182370.69
GM	Manufacturing of non-metallic interior and exterior trim parts and structural components for automobiles	-	Injection molding raw materials	Coating, Welding (Benzene, Toluene, Xylene)	VOCs
VSKT	Manufacturing of automobile parts	3 million units of automotive exhaust	Cutting fluid (135 t)	Sand core baking (Non-Methane Hydrocarbons)	Non-Methane Hydrocarbons

		manifold and turbocharger housing			2020：0.29mg
MXDZ	Electronic circuit manufacturing industry	Rigid printed circuit boards 4,560,000 m^3	Ink (386.1 t), Cleaning agent, Diluent (70.6 t)	Printing (Non-Methane Hydrocarbons)	Non-Methane Hydrocarbons 2019：21590 2020：14040
ZL	Packaging and Printing industries	10 billion cans (Aluminum cans)	Clear varnish (194 t), Ink (44 t), Internal coating (575 t)	Color printing drying, Internal coating drying, Gas emission (Non-Methane Hydrocarbons, Formaldehyde)	Non-Methane Hydrocarbons 2019：845 2020：2400 Formaldehyde 2019：134 2020：0
JC	Foam plastic manufacturing	4000 t	LDPE pellets (3000 t)，Butane (175 t)	Extrusion (Non-Methane Hydrocarbons)	VOCs 2019：2100 2020：1929.6
BD	Manufacturing of dance equipment	-	Coating, Adhesives, Plastic materials	Injection molding, Extrusion, Printing, Spray coating, Bonding (Non-Methane Hydrocarbons, Benzene, Toluene, Xylene)	Non-Methane Hydrocarbons
CLBL	Glass manufacturing industry	500,000 t	Ink, Adhesive, Fuel, Sealant, Paint	Printing, Interlayer curing, Melting furnace combustion (VOCs, Formaldehyde, Non-Methane Hydrocarbons)	Non-Methane Hydrocarbons VOCs

HB		Steel bridge structure 55,000 t	Epoxy primer, Intermediate coating, Topcoat, Benzene-free thinner, Acrylic thinner	Spraying (Xylene)	VOCs 31560
HJL	Packaging decoration and other printing industries	1.5 million cases of cigarette outer packaging printed products	Alcohol-soluble intaglio ink (333.4 t), Intaglio solvent ink (67 t), Screen printing UV ink (12 t), Offset printing UV ink (22 t), Water-based UV varnish (6.6 t), Ethyl acetate (5 t), Propyl acetate (170 t), Cleaning agent (55 t), Wetting solution (1.5t)	Mixing the ink, Printing, Cleaning (Volatile Organic Compounds, Benzene, Toluene, Xylene)	VOCs 2019：150220 2020：109560

Table S2 Detail Information of the sixteen Sampling Sites

	Tempruture (℃)	Weather	Wind Direction	Operation Status of nearby Industries
DFFS	25~34	light rain	Southwest	In Operation
DFSC	25~34	light rain	Southwest	In Operation
DFYC	25~34	light rain	Southwest	In Operation
SLSC	25~27	heavy rain	West	In Operation
LY	25~33	moderate rain	South	In Operation
DFADT	25~34	light rain	Southwest	In Operation
DFEC	25~34	light rain	Southwest	In Operation
GM	25~27	heavy rain	West	In Operation
VSKT	25~31	moderate rain	South	In Operation
MXDZ	25~34	light rain	Southwest	In Operation
ZL	25~33	moderate rain	South	In Operation
JC	25~27	heavy rain	West	In Operation
BD	25~33	moderate rain	South	In Operation
CLBL	25~27	heavy rain	West	In Operation
HB	25~27	heavy rain	West	In Operation
HJL	25~31	moderate rain	South	In Operation

Table S3 OFP values of VOCs analogues emitted from vehicle-related industries

VOCs analogous	Minimum (ug/m³)	Maximum (ug/m³)	Medians (ug/m³)	Average (ug/m³)	Proportion
1,3,5-Trimethylbenzene	0.3	260.5	1.0	60.0	27.3%
o-Xylene	2.5	224.5	12.4	54.9	25.0%
1,2,4-Trimethylbenzene	0.1	170.4	5.8	40.2	18.3%
m+p-Xylene	0.2	95.7	2.8	17.3	7.9%
sec-Butylbenzene	0.1	59.0	4.4	15.6	7.1%
2-Chlorotoluene	0.4	53.7	7.8	14.1	6.4%
p-Cymene	<0.1	53.9	0.8	10.5	4.8%
tert-Butylbenzene	<0.1	6.3	0.7	2.2	1.0%
Isopropylbenzene	<0.1	9.5	0.2	1.6	0.7%
Butylbenzene	<0.1	4.8	0.4	1.3	0.6%
trans-1,3-Dichloropropene	0.3	3.8	0.7	1.3	0.6%
Styrene	<0.1	3.4	0.1	0.7	0.3%
Benzene	<0.1	0.3	<0.1	0.1	<0.1%
cis-1,3-Dichloropropene	<0.1	0.1	<0.1	<0.1	<0.1%
1,1,2-Trichloroethane	<0.1	0.1	<0.1	<0.1	<0.1%
1,2-Dichloropropane	<0.1	0.1	<0.1	<0.1	<0.1%
Propylbenzene	<0.1	0.1	<0.1	<0.1	<0.1%
1,1-Dichloroethene	<0.1	<0.1	<0.1	<0.1	<0.1%
Tetrachloroethene	<0.1	<0.1	<0.1	<0.1	<0.1%
Total	5.3	646.8	55.9	219.7	□

Table S4 OFP values of VOCs analogues emitted from commodity manufacturing industries

VOCs analogous	Minimum (ug/m³)	Maximum (ug/m³)	Medians (ug/m³)	Average (ug/m³)	Proportion
trans-1,3-Dichloropropene	<0.1	14.5	0.5	3.1	42.2%
o-Xylene	0.6	5.8	1.7	2.6	36.4%
1,3,5-Trimethylbenzene	<0.1	1.0	0.5	0.5	6.3%
m+p-Xylene	<0.1	1.1	0.2	0.4	4.8%
Butylbenzene	<0.1	1.4	<0.1	0.2	2.7%
1,2,4-Trimethylbenzene	<0.1	0.5	0.1	0.2	2.4%
2-Chlorotoluene	<0.1	0.5	<0.1	0.2	2.1%
sec-Butylbenzene	<0.1	0.3	0.1	0.1	1.7%
tert-Butylbenzene	<0.1	0.4	<0.1	0.1	0.8%
Benzene	<0.1	0.1	<0.1	<0.1	0.5%
Isopropylbenzene	<0.1	<0.1	<0.1	<0.1	0.1%
1,1-Dichloroethene	<0.1	<0.1	<0.1	<0.1	<0.1%
1,1,2-Trichloroethane	<0.1	<0.1	<0.1	<0.1	<0.1%
Tetrachloroethene	<0.1	<0.01	<0.1	<0.1	<0.1%
Total	1.1	17.4	4.2	7.3	□

Table S5 OFP of twenty-seven detectable VOC analogues from nine vehicle-related and seven commodity manufacturing industries

VOCs analogous	DFFS	DFSC	DFYC	SLSC	LY	DFADT	DFEC	GM	VSKT	MXDZ	ZL	JC	BD	CLBL	HB	HJL
0-Xylene	4.9	27.9	12.4	36.1	176.9	2.5	5.1	224.5	3.9	1.4	5.8	0.6	1.7	1.6	2.4	4.9
sec-Butylbenzene	1.1	38.8	4.4	28.9	59.0	0.1	0.4	7.0	0.6	0.2	0.1	<0.1	-	0.1	0.1	0.3
1,3,5-Trimethylbenzene	21.8	4.2	0.3	1.0	249.7	1.0	0.6	260.5	1.0	0.1	1.0	-	0.8	-	0.5	0.7
1,2,4-Trimethylbenzene	5.8	170.4	21.6	127.0	1.1	0.1	1.9	31.7	2.5	0.1	-	-	-	0.4	0.5	0.2
p-Cymene	0.8	53.9	4.2	29.6	-	-	0.4	4.8	0.6	-	-	-	-	-	-	-
m+p-Xylene	0.7	4.0	2.8	7.8	42.7	0.2	1.1	95.7	0.3	0.2	0.6	<0.1	0.1	0.2	0.3	1.1
tert-Butylbenzene	0.1	6.1	0.7	6.3	4.7	-	-	1.4	-	-	-	-	-	-	-	0.4
lsopropylbenzene	<0.1	0.8	0.2	0.9	9.5	0.2	0.1	2.7	-	<0.1	<0.1	<0.1	-	-	<0.1	-
Butylbenzene	0.1	4.8	0.4	3.0	2.8	-	-	0.4	-	1.4	-	-	-	-	-	-
Styrene	<0.1	0.2	0.1	0.3	3.4	-	<0.1	1.9	-	-	-	-	-	-	-	-
Benzene	<0.1	<0.1	<0.1	0.1	<0.1	0.3	0.1	<0.1	<0.1	<0.1	0.1	0.1		<0.1	<0.1	<0.1
Propylbenzene	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorotoluene	1.5	53.7	7.7	31.5	16.2	0.4	0.7	14.3	1.1	-	0.5	-	0.3	<0.1	-	0.3
1,2,3-Trichlorobenzene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	-	-	<0.1	<0.1	<0.1	-	-	-	-	<0.1	-	-	-	<0.1	<0.1	<0.1
1,2-Dichloropropane	-	-	-	-	-	-	-	0.1	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	<0.1	<0.1	-	0.1	-	<0.1	<0.1	<0.1	-	<0.1	-	-	-	-	-	-
1,1,2,2-Tetracholoethane	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	0.3	0.4	1.2	0.7	2.3	0.5	0.5	1.7	3.8	-	4.9	0.3	14.5	0.5	0.4	0.8

Tetrachloroethene	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachloro-1,3-butadiene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloropropene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	-	-	-	-	0.1	-	0.1	-	-	-	-	-	-	-	-	-
Chlorodibromomethane	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table S6 The detection concentrations of individual forty-eight VOCs Emitted by sixteen Industries

Test Item	DFFS	DFSC	DFYC	SLSC	LY	DFADT	DFEC	GM	VSKT	MXDZ	ZL	JC	BD	CLBL	HB	HJL
trans-1,2-Dichloroethene	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
1,1-Dichloroethene	n.d.	n.d.	<0.01	<0.01	0.60	n.d.	n.d.	n.d.	n.d.	<0.01	n.d.	n.d.	n.d.	<0.01	<0.01	0.20
cis-1,2-Dichloroethane	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Bromochloroethene	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Chloroform	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
1,1,1-Trichloroethene	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
1,1-Dichloropropene	n.d.	n.d.	n.d.	<0.01	n.d.	n.d.	n.d.	0.10	n.d.	n.d.	n.d.	n.d.	0.10	n.d.	n.d.	n.d.
1,2-Dichloroethene	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Benzene	<0.01	<0.01	<0.01	0.10	<0.01	0.40	0.10	<0.01	<0.01	<0.01	0.10	0.10	n.d.	<0.01	<0.01	0.10
Trichloroethene	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
1,2-Dichloropropane	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	0.40	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Methylene_bromide	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Bromodichloromethane	n.d.	n.d.	<0.01	n.d.	n.d.	n.d.	n.d.	0.50	n.d.	0.60	n.d.	n.d.	<0.01	n.d.	n.d.	n.d.
cis-1,3-Dichloropropene	n.d.	n.d.	n.d.	n.d.	<0.01	n.d.	<0.01	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Toluene	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
trans-1,3-Dichloropropene	0.10	0.10	0.20	0.10	0.50	0.10	0.10	0.30	0.70	n.d.	1.00	<0.01	2.90	0.10	0.10	0.20
1,1,2-Trichloroethane	<0.01	<0.01	n.d.	1.50	n.d.	<0.01	0.30	0.10	n.d.	0.10	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
1,3-Dichloropropane	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Tetrachloroethene	<0.01	<0.01	<0.01	<0.01	<0.01	n.d.	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chlorodibromomethan	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	<0.01	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.

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1,2-Diromoethane	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Chlorobenzene	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
1,1,1,2-Tetrachloroethane	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Ethylbenzene	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
m+p-Xylene	0.10	0.50	0.40	1.00	5.50	<0.01	0.10	12.30	<0.01	<0.01	0.10	<0.01	<0.01	<0.01	<0.01	0.10
0-Xylene	0.60	3.70	1.60	4.70	23.20	0.30	0.70	29.40	0.50	0.20	0.80	0.10	0.20	0.20	0.30	0.60
Styrene	<0.01	0.10	<0.01	0.20	2.00	n.d.	<0.01	1.10	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Bromoform	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
lsopropylbenzene	<0.01	0.30	0.10	0.40	3.80	0.10	<0.01	1.10	n.d.	<0.01	<0.01	<0.01	n.d.	n.d.	<0.01	n.d.
1,1,2,2-Tetracholoethane	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	0.10	<0.01	n.d.	n.d.	n.d.	0.10	n.d.	n.d.	n.d.	n.d.
Bromobenzene	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
1,2,3-Trichloropropane	0.40	0.40	19.00	25.20	0.70	n.d.	n.d.	0.20	<0.01	0.30	17.50	n.d.	<0.01	n.d.	n.d.	<0.01
Propylbenzene	n.d.	0.10	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
2-Chlorotoluene	0.50	18.40	2.70	10.80	5.50	0.10	0.20	4.90	0.40	n.d.	0.20	n.d.	0.10	<0.01	n.d.	0.10
1,3,5-Trimethylbenzene	1.90	0.40	<0.01	0.10	21.20	0.10	<0.01	22.20	0.10	<0.01	0.10	n.d.	0.10	n.d.	<0.01	0.10
tert-Butylbenzene	0.10	3.10	0.40	3.30	2.40	n.d.	n.d.	0.70	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	0.20
1,2,4-Trimethylbenzene	0.70	19.20	2.40	14.30	0.10	<0.01	0.20	3.60	0.30	<0.01	n.d.	n.d.	n.d.	0.10	0.10	<0.01
sec-Butylbenzene	0.50	16.50	1.90	12.30	25.00	<0.01	0.20	3.00	0.20	0.10	<0.01	<0.01	n.d.	0.10	<0.01	0.10
1,3-Dichlorobenzene	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
p-Cymene	0.20	12.10	0.90	6.70	n.d.	n.d.	0.10	1.10	0.10	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
1,4-Dichlorobenzene	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
1,2-Dichlorobenzene	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.

Butylbenzene	<0.01	2.20	0.20	1.30	1.30	n.d.	n.d.	0.20	n.d.	0.60	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
1,2-Dibromo-3-chloropropane	n.d.	0.90	n.d.	0.70	7.90	n.d.	n.d.	0.20	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
1,2,4-Trichlorobenzene	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Hexachloro-1,3-butadiene	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	0.20	n.d.	n.d.	n.d.	n.d.	n.d.
Naphthalene	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
1,2,3-Trichlorobenzene	n.d.	n.d.	n.d.	n.d.	0.10	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	0.10