SEDD Version 5.2

Valid Values

Revision 1.1

For the Staged Electronic Data Deliverable (SEDD)

October 2019

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List of Data Elements

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This document is intended to assist people who create Staged Electronic Data Deliverable (SEDD) files. It lists all SEDD data elements that, according to version 5.2 of the SEDD Specification, have a data type of “limited list.” This document provides the limited list of values that each data element may contain. These values are referred to as “valid values.” Any data element not specified here may have valid values defined by the program and/or client. The laboratory shall report those specified values for those elements based on provided direction from the program and/or client.

Valid values for some elements may be dictated or dependent on a value contained in a separate element. Data elements that have a dependent relationship like this have been noted throughout the document.

Note: All valid values for data elements containing units of measurement are based on *IEEE/ASTM SI 10 - 2002 American National Standard for Use of the International System of Units (SI): The Modern Metric System*.

For additional information about SEDD, including the SEDD Specification 5.2 document, please visit https://www.epa.gov/clp/sedd-specification-document-52.

AliquotAmountUnits

Valid Values	Notes
uL	uL = microliter
mL	mL = milliliter
L	L = liter
cm2	cm2 = square centimeter
cm3	cm3 = cubic centimeter
m2	m2 = square meter
m3	m3 = cubic meter
pg	pg = picogram
ng	ng = nanogram
ug	ug = microgram
mg	mg = milligram
g	g = gram
kg	kg = kilogram

AmountAddedLocation

Valid Values	Notes
Aliquot	Analyte was added to an original sample aliquot or standard.
Diluted_Aliquot	Analyte was added to a diluted sample aliquot or standard.
Extracted_Aliquot	Analyte was added to an extracted/digested sample aliquot or standard.
Analyzed_Aliquot	Analyte was added to the vial that was loaded onto the instrument that contained the original, diluted, or extracted/digested sample aliquot or standard.
Injected_Aliquot	Analyte was added to the material that was injected onto the instrument that contained the original, diluted, or extracted/digested sample aliquot or standard.
Standard	Analyte was added to prepare a standard.
Sample	Analyte was added to the original sample container prior to taking the sample aliquot.

AmountAddedUncertaintyIntervalType

Valid Values	Notes
Symmetric_Interval	This interval is centered on the AmountAdded value.
Other_Interval	This interval includes the AmountAdded value.

AmountAddedUncertaintyType

Valid Values	Notes
Category A	The estimate of the AmountAddedUncertainty is directly determined using a statistically-based method.
Category B	The estimate of the AmountAddedUncertainty is directly determined using some other method.

AmountAddedUncertaintyUnits

Valid Values	Notes
uL	uL = microliter
mL	mL = milliliter
L	L = liter
cm2	cm2 = square centimeter
cm3	cm3 = cubic centimeters
m2	m2 = square meter
m3	m3 = cubic meter
pg	pg = picogram
ng	ng = nanogram
ug	ug = microgram
mg	mg = milligram
g	g = gram
kg	kg = kilogram

AmountAddedUnits

Valid Values	Notes
uL	uL = microliter
mL	mL = milliliter
L	L = liter
cm2	cm2 = square centimeter
cm3	cm3 = cubic centimeter
m2	m2 = square meter
m3	m3 = cubic meter
pg	pg = picogram
ng	ng = nanogram
ug	ug = microgram
mg	mg = milligram
g	g = gram
kg	kg = kilogram

AnalysisDurationUnits

Valid Values	Notes
us	us = microsecond
ms	ms = millisecond
s	s = second
min	min = minute
h	h = hour
d	d = day

AnalysisType

Valid Values	Notes
Initial	
Confirmation	
RRF-#	# = any decimal or whole number.
CF-#	# = any decimal or whole number.
Standard-#	# = any decimal or whole number.
Replicate-#	# = any decimal or whole number.
MSA-#	# = any decimal or whole number.
Dilution-#	# = any decimal or whole number.
Reinjection-#	# = any decimal or whole number.
Reanalysis-#	# = any decimal or whole number.
Initial_Calibration	For use under the AnalysisGroup node only. To be used when multiple analyses are used to generate initial calibration curve data.
Average	For use under the AnalysisGroup node only. To be used when multiple analyses are used to generate an averaged reported result value.
MSA	For use under the AnalysisGroup node only. To be used when multiple analyses are used to generate an extrapolated reported result value based on varying spike levels to an original sample. MSA = Method of Standard Additions.
Detection_Limit	For use under the AnalysisGroup node only. To be used when multiple analyses are used to generate a detection, quantitation and/or reporting limit.
Sum	For use under the AnalysisGroup node only. To be used when multiple analyses are used to generate a summed reported result value.

AnalyteName

Refer to the appropriate official publication for a list of analyte name valid values. The approved analyte name lists are provided by:

- The Chemical Abstracts Service (CAS) nomenclature, based on the 9th Collective Index rules.
- The International Union of Pure and Applied Chemistry
- The Environmental Protection Agency's (EPA's) Substance Registry Services (https://iaspub.epa.gov/sor_internet/registry/substreg/searchandretrieve/searchbylist/search.do.

Choose analyte names from the list selected in the AnalyteNameContext data element.

AnalyteNameContext

Valid Values	Notes
CAS	CAS = Chemical Abstracts Service, nomenclature based on 9th Collective Index rules
IUPAC	IUPAC = International Union of Pure and Applied Chemistry
SRS	SRS = EPA's Substance Registry Services

AnalyteType

Valid Values	Notes
Target	Target' is the default valid value.
Spike	
TIC	TIC = Tentatively Identified Compound
Internal_Standard	
Internal_Standard_Extracted	
Surrogate	Also used for Deuterated Monitoring Compounds
System_Monitoring_Compound	
Monitor	Non-Target analyte monitored for potential impact on target analyte results.
Tracer	
Instrument_Performance	
Interferent	This type of analyte might be present in or added to a sample but never actually measured.
Derived	An analyte that is derived or calculated from other method measured analytes.

AnalyzedAmountUnits

Valid Values	Notes
uL	uL = microliter
mL	mL = milliliter
L	L = liter
cm2	cm2 = square centimeter
cm3	cm3 = cubic centimeter
m2	m2 = square meter
m3	m3 = cubic meter
pg	pg = picogram
ng	ng = nanogram
ug	ug = microgram
mg	mg = milligram
g	g = gram
kg	kg = kilogram

BackgroundCorrection

Valid Values
Yes
No

BackgroundRawData

Valid Values
Yes
No

BackgroundType

Valid Values
Smith_Hieftje
Deuterium_Arc
Zeeman

BottleType

Valid Values	Notes
125-mL Amber_Glass_Bottle w/Teflon_Lined_Cap	4 oz.
250-mL Amber_Glass_Bottle w/Teflon_Lined_Cap	8 oz.
500-mL Amber_Glass_Bottle w/Teflon_Lined_Cap	16 oz.
1-L Amber_Glass_Bottle w/Teflon_Lined_Cap	32 oz.
2.5-L Amber_Glass_Bottle w/Teflon_Lined_Cap	80 oz.
4-L Amber_Glass_Bottle w/Teflon_Lined_Cap	128 oz.
125-mL Clear_Glass_Bottle w/Teflon_Lined_Cap	4 oz.
250-mL Clear_Glass_Bottle w/Teflon_Lined_Cap	8 oz.
500-mL Clear_Glass_Bottle w/Teflon_Lined_Cap	16 oz.
1-L Clear_Glass_Bottle w/Teflon_Lined_Cap	32 oz.
2.5-L Clear_Glass_Bottle w/Teflon_Lined_Cap	80 oz.
4-L Clear_Glass_Bottle w/Teflon_Lined_Cap	128 oz.
60-mL Clear_Glass_Jar w/Teflon_Lined_Caps	2-oz.
125-mL Clear_Glass_Jar w/Teflon_Lined_Caps	4 oz.
250-mL Clear_Glass_Jar w/Teflon_Lined_Caps	8 oz.
500-mL Clear_Glass_Jar w/Teflon_Lined_Caps	16 oz.
1-L Clear_Glass_Jar w/Teflon_Lined_Caps	32 oz.
60-mL Amber_Glass_Jar w/Teflon_Lined_Caps	2-oz.
125-mL Amber_Glass_Jar w/Teflon_Lined_Caps	4 oz.
250-mL Amber_Glass_Jar w/Teflon_Lined_Caps	8 oz.
500-mL Amber_Glass_Jar w/Teflon_Lined_Caps	16 oz.
1-L Amber_Glass_Jar w/Teflon_Lined_Caps	32 oz.
1.5-L Amber_Glass_Jar w/Teflon_Lined_Caps	40 oz.
2.5-L Amber_Glass_Jar w/Teflon_Lined_Caps	80 oz.
20-mL Clear_Glass_Vial w/Teflon_Lined_Septa	
40-mL Clear_Glass_Vial w/Teflon_Lined_Septa	
60-mL Clear_Glass_Vial w/Teflon_Lined_Septa	
20-mL Amber_Glass_Vial w/Teflon_Lined_Septa	
40-mL Amber_Glass_Vial w/Teflon_Lined_Septa	

Valid Values	Notes
60-mL Amber_Glass_Vial w/Teflon_Lined_Septa	
125-mL HDPE_Bottle w/PP_Cap	4 oz. High Density Polyethylene Bottle with Polypropylene Cap
250-mL HDPE_Bottle w/PP_Cap	8 oz. High Density Polyethylene Bottle with Polypropylene Cap
500-mL HDPE_Bottle w/PP_Cap	16 oz. High Density Polyethylene Bottle with Polypropylene Cap
1-L HDPE_Bottle w/PP_Cap	32 oz. High Density Polyethylene Bottle with Polypropylene Cap
125-mL Amber_HDPE_Bottle w/PP_Cap	4 oz. High Density Polyethylene Bottle with Polypropylene Cap
250-mL Amber_HDPE_Bottle w/PP_Cap	8 oz. High Density Polyethylene Bottle with Polypropylene Cap
500-mL Amber_HDPE_Bottle w/PP_Cap	16 oz. High Density Polyethylene Bottle with Polypropylene Cap
1-L Amber_HDPE_Bottle w/PP_Cap	32 oz. High Density Polyethylene Bottle with Polypropylene Cap
125-mL HDPE_Jar w/PP_Cap	4 oz. High Density Polyethylene Jar with Polypropylene Cap
250-mL HDPE_Jar w/PP_Cap	8 oz. High Density Polyethylene Jar with Polypropylene Cap
500-mL HDPE_Jar w/PP_Cap	16 oz. High Density Polyethylene Jar with Polypropylene Cap
1-L HDPE_Jar w/PP_Cap	32 oz. High Density Polyethylene Jar with Polypropylene Cap
125-mL Amber_HDPE_Jar w/PP_Cap	4 oz. High Density Polyethylene Jar with Polypropylene Cap
250-mL Amber_HDPE_Jar w/PP_Cap	8 oz. High Density Polyethylene Jar with Polypropylene Cap
500-mL Amber_HDPE_Jar w/PP_Cap	16 oz. High Density Polyethylene Jar with Polypropylene Cap
1-L Amber_HDPE_Jar w/PP_Cap	32 oz. High Density Polyethylene Jar with Polypropylene Cap
1-L LDPE Cubitainer w/PP_Cap	1 qt. Low Density Polyethylene Cubitainer with Polypropylene Cap
4-L LDPE Cubitainer w/PP_Cap	1 gal. Low Density Polyethylene Cubitainer with Polypropylene Cap
9-L LDPE Cubitainer w/PP_Cap	1 gal. Low Density Polyethylene Cubitainer with Polypropylene Cap
18-L LDPE Cubitainer w/PP_Cap	1 gal. Low Density Polyethylene Cubitainer with Polypropylene Cap
2.2-L Teflon_Bottle w/Teflon_Lined_Cap	2.2-L Temperature-Resistant Teflon Fluorocarbon Resin FEP Bottle
Glass_Bottle	
Glass_Jar	
Plastic_Bottle	
Plastic_Jar	
Metal_Sleeve	
Plastic_Bag	
Paper_Bag	

CalibrationBasis

Valid Values

Analyte
Peak

CalibrationType

Valid Values

Average_Relative_Response_Factor
Average_Calibration_Factor
Linear_Regression
Linear_Regression_With_Blank_Force
Linear_Regression_With_Zero_Force
Quadratic_Regression
Quadratic_Regression_With_Blank_Force
Quadratic_Regression_With_Zero_Force
Weighted_Linear_Regression
Weighted_Linear_Regression_With_Blank_Force
Weighted_Linear_Regression_With_Zero_Force
Weighted_Quadratic_Regression
Weighted_Quadratic_Regression_With_Blank_Force
Weighted_Linear_Regression_With_Zero_Force

CharacteristicType

CharacteristicType Valid Values	Notes	CharacteristicUnits Valid Values
Acid_Reaction	The reaction of the sample or aliquot to acid.	
Artifacts	A method-defined concept used to report anomalies in the sample.	
Boiling_Point	The boiling point of the sample.	C (Centigrade), K (Kelvin), F (Fahrenheit)
Clarity	The clarity of the sample or aliquot.	
Color	The color of the sample or aliquot.	
Conductance	The conductance of the sample.	S (siemens)
Consolidation	The degree of consolidation of the sample.	
Density	The density of the sample	kg/m3, g/cm3
Dissolved_Solids	The amount of solid material remaining after evaporation of the sample.	mg/L, ug/L
Melting_Point	The melting point of the sample.	C (Centigrade), K (Kelvin), F (Fahrenheit)
Number_Phases	The number of phases observed in the sample.	
Percent_Lipid	The percent of the sample composed of lipid material.	
Percent_Moisture	The percent of the sample composed of water.	

CharacteristicType Valid Values	Notes	CharacteristicUnits Valid Values
Percent_Solids	The percent of the sample composed of solid material.	
pH	The negative of the logarithm of the hydrogen ion potential in the sample.	
Pressure	The pressure of the sample.	Pa (pascal)
Refractive_Index	The refractive index of the sample.	
Suspended_Solids	The amount of solid material remaining after filtration of the sample.	mg/L, ug/L
Texture	Descriptive information about a solid sample.	
Turbidity	The turbidity of the sample.	NTU (Nephelometric Turbidity Units)

CharacteristicUnits

The valid values for this data element are dependent on the value of the CharacteristicType element. See the CharacteristicType data elements for the appropriate valid values.

ClientQuantitationLimitUnits

Valid Values	Notes
pg	pg = picogram
pg/uL	pg/uL = picograms per microliter
pg/mL	pg/mL = picograms per milliliter
pg/L	pg/L = picograms per liter
pg/mg	pg/mg = picograms per milligram
pg/g	pg/g = picograms per gram
pg/kg	pg/kg = picograms per kilogram
pg/cm2	pg/cm2 = picograms per square centimeter
pg/cm3	pg/cm3 = picograms per cubic centimeter
pg/m2	pg/m2 = picograms per square meter
pg/m3	pg/m3 = picograms per cubic meter
ng	ng = nanogram
ng/uL	ng/uL = nanograms per microliter
ng/mL	ng/mL = nanograms per milliliter
ng/L	ng/L = nanograms per liter
ng/mg	ng/mg = nanograms per milligram
ng/g	ng/g = nanograms per gram
ng/kg	ng/kg = nanograms per kilogram
ng/cm2	ng/cm2 = nanograms per square centimeter
ng/cm3	ng/cm3 = nanograms per cubic centimeter
ng/m2	ng/m2 = nanograms per square meter
ng/m3	ng/m3 = nanograms per cubic meter
ug	ug = microgram
ug/uL	ug/uL = micrograms per microliter
ug/mL	ug/mL = micrograms per milliliter
ug/L	ug/L = micrograms per liter

Valid Values	Notes
ug/mg	ug/mg = micrograms per milligram
ug/g	ug/g = micrograms per gram
ug/kg	ug/kg = micrograms per kilogram
ug/cm2	ug/cm2 = micrograms per square centimeter
ug/cm3	ug/cm3 = micrograms per cubic centimeter
ug/m2	ug/m2 = micrograms per square meter
ug/m3	ug/m3 = micrograms per cubic meter
mg	mg = milligram
mg/uL	mg/uL = milligrams per microliter
mg/mL	mg/mL = milligrams per milliliter
mg/L	mg/L = milligrams per liter
mg/mg	mg/mg = milligrams per milligram
mg/g	mg/g = milligrams per gram
mg/kg	mg/kg = milligrams per kilogram
mg/cm2	mg/cm2 = milligrams per square centimeter
mg/m2	mg/m2 = milligrams per square meter
mg/m3	mg/m3 - milligrams per cubic meter
g	g = gram
g/uL	g/uL = grams per microliter
g/mL	g/mL = grams per milliliter
g/L	g/L = grams per liter
g/mg	g/mg = grams per milligram
g/g	g/g = grams per gram
g/kg	g/kg = grams per kilogram
pL/mL	pL/mL = picoliters per milliliter
pL/L	pL/L = picoliters per liter
nL/mL	nL/mL = nanoliters per milliliter
nL/L	nL/L = nanoliters per liter
uL/mL	uL/mL = microliters per milliliter
uL/L	uL/L = microliters per liter
mL/L	mL/L = milliliters per liter
pBq	pBq = picobecquerel
pBq/uL	pBq/uL = picobecquerels per microliter
pBq/mL	pBq/mL = picobecquerels per milliliter
pBq/L	pBq/L = picobecquerels per liter
pBq/mg	pBq/mg = picobecquerels per milligram
pBq/g	pBq/g = picobecquerels per gram
pBq/kg	pBq/kg = picobecquerels per kilogram
pBq/cm2	pBq/cm2 = picobecquerels per square centimeter
pBq/cm3	pBq/cm3 = picobecquerels per cubic centimeter
pBq/m2	pBq/m2 = picobecquerels per square meter
pBq/m3	pBq/m3 = picobecquerels per cubic meter
nBq	nBq = nanobecquerel
nBq/uL	nBq/uL = nanobecquerels per microliter

Valid Values	Notes
nBq/mL	nBq/mL = nanobecquerels per milliliter
nBq/L	nBq/L = nanobecquerels per liter
nBq/mg	nBq/mg = nanobecquerels per milligram
nBq/g	nBq/g = nanobecquerels per gram
nBq/kg	nBq/kg = nanobecquerels per kilogram
nBq/cm2	nBq/cm2 = nanobecquerels per square centimeter
nBq/cm3	nBq/cm3 = nanobecquerels per cubic centimeter
nBq/m2	nBq/m2 = nanobecquerels per square meter
nBq/m3	nBq/m3 = nanobecquerels per cubic meter
uBq	uBq = microbecquerel
uBq/uL	uBq/uL = microbecquerels per microliter
uBq/mL	uBq/mL = microbecquerels per milliliter
uBq/L	uBq/L = microbecquerels per liter
uBq/mg	uBq/mg = microbecquerels per milligram
uBq/g	uBq/g = microbecquerels per gram
uBq/cm2	uBq/cm2 = microbecquerels per square centimeter
uBq/cm3	uBq/cm3 = microbecquerels per cubic centimeter
uBq/m2	uBq/m2 = microbecquerels per square meter
uBq/m3	uBq/m3 = microbecquerels per cubic meter
mBq	mBq = millibecquerel
mBq/uL	mBq/uL = millibecquerels per microliter
mBq/mL	mBq/mL = millibecquerels per milliliter
mBq/L	mBq/L = millibecquerels per liter
mBq/mg	mBq/mg = millibecquerels per milligram
mBq/g	mBq/g = millibecquerels per gram
mBq/kg	mBq/kg = millibecquerels per kilogram
mBq/cm2	mBq/cm2 = millibecquerels per square centimeter
mBq/cm3	mBq/cm3 = millibecquerels per cubic centimeter
mBq/m2	mBq/m2 = millibecquerels per square meter
mBq/m3	mBq/m3 = millibecquerels per cubic meter
Bq	Bq = becquerel
Bq/uL	Bq/uL = becquerels per microliter
Bq/mL	Bq/mL = becquerels per milliliter
Bq/L	Bq/L = becquerels per liter
Bq/mg	Bq/mg = becquerels per milligram
Bq/g	Bq/g = becquerels per gram
Bq/kg	Bq/kg = becquerels per kilogram
Bq/cm2	Bq/cm2 = becquerels per square centimeter
Bq/cm3	Bq/cm3 = becquerels per cubic centimeter
Bq/m2	Bq/m2 = becquerels per square meter
Bq/m3	Bq/m3 = becquerels per cubic meter
uSv	uSv = microsievert
uSv/s	uSv/s = microsieverts per second
uSv/min	uSv/min = microsieverts per minute

Valid Values	Notes
uSv/h	uSv/h = microsieverts per hour
uSv/d	uSv/d = microsieverts per day
mSv	mSv = millisievert
mSv/s	mSv/s = millisieverts per second
mSv/min	mSv/min = millisieverts per minute
mSv/h	mSv/h = millisieverts per hour
mSv/d	mSv/d = millisieverts per day
Sv	Sv = sievert
Sv/s	Sv/s = sieverts per second
Sv/min	Sv/min = sieverts per minute
Sv/h	Sv/h = sieverts per hour
Sv/d	Sv/d = sieverts per day
uGy	uGy = microgray
uGy/s	uGy/s = micrograys per second
uGy/min	uGy/min = micrograys per minute
uGy/d	uGy/d = micrograys per day
mGy	mGy = milligray
mGy/s	mGy/s = milligrays per second
mGy/min	mGy/min = milligrays per minute
mGy/h	mGy/h = milligrays per hour
mGy/d	mGy/d = milligrays per day
Gy	Gy = gray
Gy/s	Gy/s = grays per second
Gy/min	Gy/min = grays per minute
Gy/h	Gy/h = grays per hour
Gy/d	Gy/d = grays per day

CoeffOfDeterminationLimitType

Valid Values
Client
Laboratory
Method
Vendor

ColumnInternalDiameterUnits

Valid Values	Notes
mm	mm = millimeter
cm	cm = centimeter
m	m = meter

ColumnLengthUnits

Valid Values	Notes
mm	mm = millimeter
cm	cm = centimeter
m	m = meter

Composite

Valid Values
Yes
No

CorrelationCoeffLimitType

Valid Values
Client
Laboratory
Method
Vendor

CountsUncertaintyIntervalType

Valid Values	Notes
Symmetric_Interval	This interval is centered on the Counts value.
Other_Interval	This interval includes the Counts value.

CountsUncertaintyType

Valid Values	Notes
Category A	The estimate of the CountsUncertainty is directly determined using a statistically-based method.
Category B	The estimate of the CountsUncertainty is directly determined using some other method.

CountsUnits

Valid Values	Notes
Disintegrations/s	The number of disintegrations per second.
Disintegrations/min	The number of disintegrations per minute.
Disintegrations/h	The number of disintegrations per hour.
Disintegrations/d	The number of disintegrations per day.

DateFormat

This data element uses the following abbreviations:
YYYY = four-digit year or YY = two-digit year
MM = two-digit month (01 = January, etc.)
DD = two-digit day of month (01 through 31)
hh = two digits of hour (00 through 23) (am/pm NOT allowed)
mm = two digits of minute (00 through 59)
ss = two digits of second (00 through 59)
s = one or more digits representing a decimal fraction of a second
TZD = time zone designator (Z or +hh:mm or -hh:mm)

Valid Values	Notes
YYYY-MM-DDThh:mm:ss.sTZD	This is the complete recommended format (based on ISO 8601-1: 2019). Shortened versions can be used by deleting the terms not needed. Example: 1994-11-05T08:15:30-05:00 corresponds to November 5, 1994, 8:15:30 am, US Eastern Standard Time Example: 1994-11-05T13:15:30Z corresponds to the same instant above. Other similar formats are allowed even though they are not fully compliant with the above standard. Shortened versions can be used by deleting the terms not needed.
YYYYMMDDThhmmss.sTZD	
YYYYMMDDThh:mm:ss.sTZD	
YYMMDDThhmmss.sTZD	
YYMMDDThh:mm:ss.sTZD	
MM/DD/YYYYThhmmss.sTZD	
MM/DD/YYYYThh:mm:ss.sTZD	
MM/DD/YYThhmmss.sTZD	
MM/DD/YYThh:mm:ss.sTZD	
MMDDYYThh:mm:ss.sTZD	
MMDDYYThhmmss.sTZD	
MMDDYYYYThh:mm:ss.sTZD	
MMDDYYYYThhmmss.sTZD	

DetectionLimitType

Valid Values	Notes
CRDL	CRDL = Contract Required Detection Limit
CRDL_sa	CRDL_sa = Sample adjusted CRDL. This is the CRDL adjusted for variable method conditions (e.g., dilutions or amount of sample used) and sample characteristics (e.g., amount of solids in the sample).
MDL	MDL = Method Detection Limit as defined by the US Environmental Protection Agency (USEPA) in 40 CFR part 136, Appendix B (49 FR 43234 dated October 26, 1984). The false positive rate (Type I error) is set at 1%.
MDL_sa	MDL_sa = Sample adjusted MDL. This is the MDL adjusted for variable method conditions (e.g., dilutions or amount of sample used) and sample characteristics (e.g., amount of solids in the sample).

Valid Values	Notes
IDL	IDL = Instrument Detection Limit as defined by the US Environmental Protection Agency (USEPA).
LOD	LOD = Limit of Detection "The smallest concentration of a substance that must be present in a sample in order to be detected at the DL with 99% confidence. At the LOD, the false negative rate (Type II error) is 1%."
LOD_sa	LOD_sa = Sample adjusted LOD. This is the LOD adjusted for variable method conditions (e.g., dilutions or amount of sample used) and sample characteristics (e.g., amount of solids in the sample).
LOD_ACS	LOD_ACS = Limit of Detection as defined by the American Chemical Society (ACS) and is roughly equivalent to the MDL in numerical terms and conceptually equivalent to Currie's critical value (Lc).
LOD_ACS_sa	LOD_ACS_sa = Sample adjusted LOD_ACS. This is the LOD adjusted for variable method conditions (e.g., dilutions or amount of sample used) and sample characteristics (e.g., amount of solids in the sample).
LOD_QSM	LOD_QSM = Limit of Detection as defined by the Department of Defense (DOD) Quality Systems Manual (QSM) version under which the sample analysis is performed.
LOD_QSM_sa	LOD_QSM_sa = Sample adjusted LOD_QSM. This is the LOD_QSM adjusted for variable method conditions (e.g., dilutions or amount of sample used) and sample characteristics (e.g., amount of solids in the sample).
Ld	Ld = Detection Limit as defined by the International Union of Pure and Applied Chemistry (IUPAC) in conjunction with Currie. The false negative rate (Type II error) is typically set at 1%.
Ld_sa	Ld_sa = Sample adjusted Ld. This is the Ld adjusted for variable method conditions (e.g., dilutions or amount of sample used) and sample characteristics (e.g., amount of solids in the sample).
DL_QSM	DL_QSM = The Detection Limit as defined by the Department of Defense (DOD) Quality System Manual (QSM) version under which the sample analysis is performed.
DL_QSM_sa	DL_QSM_sa = Sample adjusted DL_QSM. This is the DL_QSM adjusted for variable method conditions (e.g., dilutions or amount of sample used) and sample characteristics (e.g., amount of solids in the sample).
Lc	Lc = Critical value as defined by the International Union of Pure and Applied Chemistry (IUPAC) in conjunction with Currie. The false positive rate (Type I error) is typically set at 1%.
Lc_sa	Lc_sa = Sample adjusted Lc. This is the Lc adjusted for variable method conditions (e.g., dilutions or amount of sample used) and sample characteristics (e.g., amount of solids in the sample).

DetectionLimitUnits

Valid Values	Notes
pg	pg = picogram
pg/uL	pg/uL = picograms per microliter
pg/mL	pg/mL = picograms per milliliter
pg/L	pg/L = picograms per liter
pg/mg	pg/mg = picograms per milligram
pg/g	pg/g = picograms per gram
pg/kg	pg/kg = picograms per kilogram
pg/cm2	pg/cm2 = picograms per square centimeter
pg/cm3	pg/cm3 = picograms per cubic centimeter

Valid Values	Notes
pg/m2	pg/m2 = picograms per square meter
pg/m3	pg/m3 = picograms per cubic meter
ng	ng = nanogram
ng/uL	ng/uL = nanograms per microliter
ng/mL	ng/mL = nanograms per milliliter
ng/L	ng/L = nanograms per liter
ng/mg	ng/mg = nanograms per milligram
ng/g	ng/g = nanograms per gram
ng/kg	ng/kg = nanograms per kilogram
ng/cm2	ng/cm2 = nanograms per square centimeter
ng/cm3	ng/cm3 = nanograms per cubic centimeter
ng/m2	ng/m2 = nanograms per square meter
ng/m3	ng/m3 = nanograms per cubic meter
ug	ug = microgram
ug/uL	ug/uL = micrograms per microliter
ug/mL	ug/mL = micrograms per milliliter
ug/L	ug/L = micrograms per liter
ug/mg	ug/mg = micrograms per milligram
ug/g	ug/g = micrograms per gram
ug/kg	ug/kg = micrograms per kilogram
ug/cm2	ug/cm2 = micrograms per square centimeter
ug/cm3	ug/cm3 = micrograms per cubic centimeter
ug/m2	ug/m2 = micrograms per square meter
ug/m3	ug/m3 = micrograms per cubic meter
mg	mg = milligram
mg/uL	mg/uL = milligrams per microliter
mg/mL	mg/mL = milligrams per milliliter
mg/L	mg/L = milligrams per liter
mg/mg	mg/mg = milligrams per milligram
mg/g	mg/g = milligrams per gram
mg/kg	mg/kg = milligrams per kilogram
mg/cm2	mg/cm2 = milligrams per square centimeter
mg/cm3	mg/cm3 = milligrams per cubic centimeter
mg/m2	mg/m2 = milligrams per square meter
mg/m3	mg/m3 - milligrams per cubic meter
g	g = gram
g/uL	g/uL = grams per microliter
g/mL	g/mL = grams per milliliter
g/L	g/L = grams per liter
g/mg	g/mg = grams per milligram
g/g	g/g = grams per gram
g/kg	g/kg = grams per kilogram
pL/mL	pL/mL = picoliters per milliliter
pL/L	pL/L = picoliters per liter
nL/mL	nL/mL = nanoliters per milliliter

Valid Values	Notes
nL/L	nL/L = nanoliters per liter
uL/mL	uL/mL = microliters per milliliter
uL/L	uL/L = microliters per liter
mL/L	mL/L = milliliters per liter
pBq	pBq = picobecquerel
pBq/uL	pBq/uL = picobecquerels per microliter
pBq/mL	pBq/mL = picobecquerels per milliliter
pBq/L	pBq/L = picobecquerels per liter
pBq/mg	pBq/mg = picobecquerels per milligram
pBq/g	pBq/g = picobecquerels per gram
pBq/kg	pBq/kg = picobecquerels per kilogram
pBq/cm2	pBq/cm2 = picobecquerels per square centimeter
pBq/cm3	pBq/cm3 = picobecquerels per cubic centimeter
pBq/m2	pBq/m2 = picobecquerels per square meter
pBq/m3	pBq/m3 = picobecquerels per cubic meter
nBq	nBq = nanobecquerel
nBq/uL	nBq/uL = nanobecquerels per microliter
nBq/mL	nBq/mL = nanobecquerels per milliliter
nBq/L	nBq/L = nanobecquerels per liter
nBq/mg	nBq/mg = nanobecquerels per milligram
nBq/g	nBq/g = nanobecquerels per gram
nBq/kg	nBq/kg = nanobecquerels per kilogram
nBq/cm2	nBq/cm2 = nanobecquerels per square centimeter
nBq/cm3	nBq/cm3 = nanobecquerels per cubic centimeter
nBq/m2	nBq/m2 = nanobecquerels per square meter
nBq/m3	nBq/m3 = nanobecquerels per cubic meter
uBq	uBq = microbecquerel
uBq/uL	uBq/uL = microbecquerels per microliter
uBq/mL	uBq/mL = microbecquerels per milliliter
uBq/L	uBq/L = microbecquerels per liter
uBq/mg	uBq/mg = microbecquerels per milligram
uBq/g	uBq/g = microbecquerels per gram
uBq/kg	uBq/kg = microbecquerels per kilogram
uBq/cm2	uBq/cm2 = microbecquerels per square centimeter
uBq/cm3	uBq/cm3 = microbecquerels per cubic centimeter
uBq/m2	uBq/m2 = microbecquerels per square meter
uBq/m3	uBq/m3 = microbecquerels per cubic meter
mBq	mBq = millibecquerel
mBq/uL	mBq/uL = millibecquerels per microliter
mBq/mL	mBq/mL = millibecquerels per milliliter
mBq/L	mBq/L = millibecquerels per liter
mBq/mg	mBq/mg = millibecquerels per milligram
mBq/g	mBq/g = millibecquerels per gram
mBq/kg	mBq/kg = millibecquerels per kilogram
mBq/cm2	mBq/cm2 = millibecquerels per square centimeter

Valid Values	Notes
mBq/cm3	mBq/cm3 = millibecquerels per cubic centimeter
mBq/m2	mBq/m2 = millibecquerels per square meter
mBq/m3	mBq/m3 = millibecquerels per cubic meter
Bq	Bq = becquerel
Bq/uL	Bq/uL = becquerels per microliter
Bq/mL	Bq/mL = becquerels per milliliter
Bq/L	Bq/L = becquerels per liter
Bq/mg	Bq/mg = becquerels per milligram
Bq/g	Bq/g = becquerels per gram
Bq/kg	Bq/kg = becquerels per kilogram
Bq/cm2	Bq/cm2 = becquerels per square centimeter
Bq/cm3	Bq/cm3 = becquerels per cubic centimeter
Bq/m2	Bq/m2 = becquerels per square meter
Bq/m3	Bq/m3 = becquerels per cubic meter
uSv	uSv = microsievert
uSv/s	uSv/s = microsieverts per second
uSv/min	uSv/min = microsieverts per minute
uSv/h	uSv/h = microsieverts per hour
uSv/d	uSv/d = microsieverts per day
mSv	mSv = millisievert
mSv/s	mSv/s = millisieverts per second
mSv/min	mSv/min = millisieverts per minute
mSv/h	mSv/h = millisieverts per hour
mSv/d	mSv/d = millisieverts per day
Sv	Sv = sievert
Sv/s	Sv/s = sieverts per second
Sv/min	Sv/min = sieverts per minute
Sv/h	Sv/h = sieverts per hour
Sv/d	Sv/d = sieverts per day
uGy	uGy = microgray
uGy/s	uGy/s = micrograys per second
uGy/min	uGy/min = micrograys per minute
uGy/h	uGy/h = micrograys per hour
uGy/d	uGy/d = micrograys per day
mGy	mGy = milligray
mGy/s	mGy/s = milligrays per second
mGy/min	mGy/min = milligrays per minute
mGy/h	mGy/h = milligrays per hour
mGy/d	mGy/d = milligrays per day
Gy	Gy = gray
Gy/s	Gy/s = grays per second
Gy/min	Gy/min = grays per minute
Gy/h	Gy/h = grays per hour
Gy/d	Gy/d = grays per day

DetectorType

Valid Values	Notes
AED	AED = Atomic Emission Detector
ECD	ECD = Electron Capture Detector
FID	FID = Flame Ionization Detector
FPD	FPD = Flame Photometric Detector
NPD	NPD = Nitrogen Phosphorus Detector
PID	PID = Photo Ionization Detector
PDA	PDA = Photo Diode Array
MS	MS = Mass Spectrometry Detector
UV	UV = Ultraviolet Detector
IR	IR = Infrared Detector
FL	FL = Fluorescence Detector
PMT	PMT = Photo Multiplier Tube
CID	CID = Charge Injection Detector
COND	COND = Conductivity
TCD	TCD = Thermal Conductivity Detector
SCD	SCD = Sulfur Chemiluminescence Detector

EDDID

Valid Values	Notes
SEDD	Staged Electronic Data Deliverable.

EDDImplementationID

Valid Values
GENERAL_1
GENERAL_2a
GENERAL_2b
GENERAL_3
ORGANICGENERAL_2a
ORGANICGENERAL_2b
ORGANICGENERAL_3
SEDD_5-2_GENERAL_3
SEDD_5-2_GENERAL_2b
SEDD_5-2_GENERAL_2a
SEDD_5-2_GENERAL_3_3
SEDD_5-2_GENERAL_2b_3
SEDD_5-2_GENERAL_2a_2
SEDD_5-2_GENERAL_1

EDDVersion

Valid Values
Draft 4.2
Draft 5.0
Draft 5.1
5.2

ExpectedResultUncertaintyIntervalType

Valid Values	Notes
Symmetric_Interval	This interval is centered on the ExpectedResult value.
Other_Interval	This interval includes the ExpectedResult value.

ExpectedResultUncertaintyType

Valid Values	Notes
Category A	The estimate of the ExpectedResultUncertainty is directly determined using a statistically-based method.
Category B	The estimate of the ExpectedResultUncertainty is directly determined using some other method.

ExpectedResultUncertaintyUnits

Valid Values	Notes
pg	pg = picogram
pg/uL	pg/uL = picograms per microliter
pg/mL	pg/mL = picograms per milliliter
pg/L	pg/L = picograms per liter
pg/mg	pg/mg = picograms per milligram
pg/g	pg/g = picograms per gram
pg/kg	pg/kg = picograms per kilogram
pg/cm2	pg/cm2 = picograms per square centimeter
pg/cm3	pg/cm3 = picograms per cubic centimeter
pg/m2	pg/m2 = picograms per square meter
pg/m3	pg/m3 = picograms per cubic meter
ng	ng = nanogram
ng/uL	ng/uL = nanograms per microliter
ng/mL	ng/mL = nanograms per milliliter
ng/L	ng/L = nanograms per liter
ng/mg	ng/mg = nanograms per milligram
ng/g	ng/g = nanograms per gram
ng/kg	ng/kg = nanograms per kilogram
ng/cm2	ng/cm2 = nanograms per square centimeter
ng/cm3	ng/cm3 = nanograms per cubic centimeter
ng/m2	ng/m2 = nanograms per square meter
ng/m3	ng/m3 = nanograms per cubic meter
ug	ug = microgram

Valid Values	Notes
ug/uL	ug/uL = micrograms per microliter
ug/mL	ug/mL = micrograms per milliliter
ug/L	ug/L = micrograms per liter
ug/mg	ug/mg = micrograms per milligram
ug/g	ug/g = micrograms per gram
ug/kg	ug/kg = micrograms per kilogram
ug/cm2	ug/cm2 = micrograms per square centimeter
ug/cm3	ug/cm3 = micrograms per cubic centimeter
ug/m2	ug/m2 = micrograms per square meter
ug/m3	ug/m3 = micrograms per cubic meter
mg	mg = milligram
mg/uL	mg/uL = milligrams per microliter
mg/mL	mg/mL = milligrams per milliliter
mg/L	mg/L = milligrams per liter
mg/mg	mg/mg = milligrams per milligram
mg/g	mg/g = milligrams per gram
mg/kg	mg/kg = milligrams per kilogram
mg/cm2	mg/cm2 = milligrams per square centimeter
mg/cm3	mg/cm3 = milligrams per cubic centimeter
mg/m2	mg/m2 = milligrams per square meter
mg/m3	mg/m3 - milligrams per cubic meter
g	g = gram
g/uL	g/uL = grams per microliter
g/mL	g/mL = grams per milliliter
g/L	g/L = grams per liter
g/mg	g/mg = grams per milligram
g/g	g/g = grams per gram
g/kg	g/kg = grams per kilogram
pL/mL	pL/mL = picoliters per milliliter
pL/L	pL/L = picoliters per liter
nL/mL	nL/mL = nanoliters per milliliter
nL/L	nL/L = nanoliters per liter
uL/mL	uL/mL = microliters per milliliter
uL/L	uL/L = microliters per liter
mL/L	mL/L = milliliters per liter
pBq	pBq = picobecquerel
pBq/uL	pBq/uL = picobecquerels per microliter
pBq/mL	pBq/mL = picobecquerels per milliliter
pBq/L	pBq/L = picobecquerels per liter
pBq/mg	pBq/mg = picobecquerels per milligram
pBq/g	pBq/g = picobecquerels per gram
pBq/kg	pBq/kg = picobecquerels per kilogram
pBq/cm2	pBq/cm2 = picobecquerels per square centimeter
pBq/cm3	pBq/cm3 = picobecquerels per cubic centimeter
pBq/m2	pBq/m2 = picobecquerels per square meter

Valid Values	Notes
pBq/m3	pBq/m3 = picobecquerels per cubic meter
nBq	nBq = nanobecquerel
nBq/uL	nBq/uL = nanobecquerels per microliter
nBq/mL	nBq/mL = nanobecquerels per milliliter
nBq/L	nBq/L = nanobecquerels per liter
nBq/mg	nBq/mg = nanobecquerels per milligram
nBq/g	nBq/g = nanobecquerels per gram
nBq/kg	nBq/kg = nanobecquerels per kilogram
nBq/cm2	nBq/cm2 = nanobecquerels per square centimeter
nBq/cm3	nBq/cm3 = nanobecquerels per cubic centimeter
nBq/m2	nBq/m2 = nanobecquerels per square meter
nBq/m3	nBq/m3 = nanobecquerels per cubic meter
uBq	uBq = microbecquerel
uBq/uL	uBq/uL = microbecquerels per microliter
uBq/mL	uBq/mL = microbecquerels per milliliter
uBq/L	uBq/L = microbecquerels per liter
uBq/mg	uBq/mg = microbecquerels per milligram
uBq/g	uBq/g = microbecquerels per gram
uBq/kg	uBq/kg = microbecquerels per kilogram
uBq/cm2	uBq/cm2 = microbecquerels per square centimeter
uBq/cm3	uBq/cm3 = microbecquerels per cubic centimeter
uBq/m2	uBq/m2 = microbecquerels per square meter
uBq/m3	uBq/m3 = microbecquerels per cubic meter
mBq	mBq = millibecquerel
mBq/uL	mBq/uL = millibecquerels per microliter
mBq/mL	mBq/mL = millibecquerels per milliliter
mBq/L	mBq/L = millibecquerels per liter
mBq/mg	mBq/mg = millibecquerels per milligram
mBq/g	mBq/g = millibecquerels per gram
mBq/kg	mBq/kg = millibecquerels per kilogram
mBq/cm2	mBq/cm2 = millibecquerels per square centimeter
mBq/cm3	mBq/cm3 = millibecquerels per cubic centimeter
mBq/m2	mBq/m2 = millibecquerels per square meter
mBq/m3	mBq/m3 = millibecquerels per cubic meter
Bq	Bq = becquerel
Bq/uL	Bq/uL = becquerels per microliter
Bq/mL	Bq/mL = becquerels per milliliter
Bq/L	Bq/L = becquerels per liter
Bq/mg	Bq/mg = becquerels per milligram
Bq/g	Bq/g = becquerels per gram
Bq/kg	Bq/kg = becquerels per kilogram
Bq/cm2	Bq/cm2 = becquerels per square centimeter
Bq/cm3	Bq/cm3 = becquerels per cubic centimeter
Bq/m2	Bq/m2 = becquerels per square meter
Bq/m3	Bq/m3 = becquerels per cubic meter

Valid Values	Notes
uSv	uSv = microsievert
uSv/s	uSv/s = microsieverts per second
uSv/min	uSv/min = microsieverts per minute
uSv/h	uSv/h = microsieverts per hour
uSv/d	uSv/d = microsieverts per day
mSv	mSv = millisievert
mSv/s	mSv/s = millisieverts per second
mSv/min	mSv/min = millisieverts per minute
mSv/h	mSv/h = millisieverts per hour
mSv/d	mSv/d = millisieverts per day
Sv	Sv = sievert
Sv/s	Sv/s = sieverts per second
Sv/min	Sv/min = sieverts per minute
Sv/h	Sv/h = sieverts per hour
Sv/d	Sv/d = sieverts per day
uGy	uGy = microgray
uGy/s	uGy/s = micrograys per second
uGy/min	uGy/min = micrograys per minute
uGy/h	uGy/h = micrograys per hour
uGy/d	uGy/d = micrograys per day
mGy	mGy = milligray
mGy/s	mGy/s = milligrays per second
mGy/min	mGy/min = milligrays per minute
mGy/h	mGy/h = milligrays per hour
mGy/d	mGy/d = milligrays per day
Gy	Gy = gray
Gy/s	Gy/s = grays per second
Gy/min	Gy/min = grays per minute
Gy/h	Gy/h = grays per hour
Gy/d	Gy/d = grays per day

ExpectedResultUnits

Valid Values	Notes
pg	pg = picogram
pg/uL	pg/uL = picograms per microliter
pg/mL	pg/mL = picograms per milliliter
pg/L	pg/L = picograms per liter
pg/mg	pg/mg = picograms per milligram
pg/g	pg/g = picograms per gram
pg/kg	pg/kg = picograms per kilogram
pg/cm2	pg/cm2 = picograms per square centimeter
pg/cm3	pg/cm3 = picograms per cubic centimeter
pg/m2	pg/m2 = picograms per square meter
pg/m3	pg/m3 = picograms per cubic meter

Valid Values	Notes
ng	ng = nanogram
ng/uL	ng/uL = nanograms per microliter
ng/mL	ng/mL = nanograms per milliliter
ng/L	ng/L = nanograms per liter
ng/mg	ng/mg = nanograms per milligram
ng/g	ng/g = nanograms per gram
ng/kg	ng/kg = nanograms per kilogram
ng/cm2	ng/cm2 = nanograms per square centimeter
ng/cm3	ng/cm3 = nanograms per cubic centimeter
ng/m2	ng/m2 = nanograms per square meter
ng/m3	ng/m3 = nanograms per cubic meter
ug	ug = microgram
ug/uL	ug/uL = micrograms per microliter
ug/mL	ug/mL = micrograms per milliliter
ug/L	ug/L = micrograms per liter
ug/mg	ug/mg = micrograms per milligram
ug/g	ug/g = micrograms per gram
ug/kg	ug/kg = micrograms per kilogram
ug/cm2	ug/cm2 = micrograms per square centimeter
ug/cm3	ug/cm3 = micrograms per cubic centimeter
ug/m2	ug/m2 = micrograms per square meter
ug/m3	ug/m3 = micrograms per cubic meter
mg	mg = milligram
mg/uL	mg/uL = milligrams per microliter
mg/mL	mg/mL = milligrams per milliliter
mg/L	mg/L = milligrams per liter
mg/mg	mg/mg = milligrams per milligram
mg/g	mg/g = milligrams per gram
mg/kg	mg/kg = milligrams per kilogram
mg/cm2	mg/cm2 = milligrams per square centimeter
mg/cm3	mg/cm3 = milligrams per cubic centimeter
mg/m2	mg/m2 = milligrams per square meter
mg/m3	mg/m3 - milligrams per cubic meter
g	g = gram
g/uL	g/uL = grams per microliter
g/mL	g/mL = grams per milliliter
g/L	g/L = grams per liter
g/mg	g/mg = grams per milligram
g/g	g/g = grams per gram
g/kg	g/kg = grams per kilogram
pL/mL	pL/mL = picoliters per milliliter
pL/L	pL/L = picoliters per liter
nL/mL	nL/mL = nanoliters per milliliter
nL/L	nL/L = nanoliters per liter
uL/mL	uL/mL = microliters per milliliter

Valid Values	Notes
uL/L	uL/L = microliters per liter
mL/L	mL/L = milliliters per liter
pBq	pBq = picobecquerel
pBq/uL	pBq/uL = picobecquerels per microliter
pBq/mL	pBq/mL = picobecquerels per milliliter
pBq/L	pBq/L = picobecquerels per liter
pBq/mg	pBq/mg = picobecquerels per milligram
pBq/g	pBq/g = picobecquerels per gram
pBq/kg	pBq/kg = picobecquerels per kilogram
pBq/cm2	pBq/cm2 = picobecquerels per square centimeter
pBq/cm3	pBq/cm3 = picobecquerels per cubic centimeter
pBq/m2	pBq/m2 = picobecquerels per square meter
pBq/m3	pBq/m3 = picobecquerels per cubic meter
nBq	nBq = nanobecquerels
nBq/uL	nBq/uL = nanobecquerels per microliter
nBq/mL	nBq/mL = nanobecquerels per milliliter
nBq/L	nBq/L = nanobecquerels per liter
nBq/mg	nBq/mg = nanobecquerels per milligram
nBq/g	nBq/g = nanobecquerels per gram
nBq/kg	nBq/kg = nanobecquerels per kilogram
nBq/cm2	nBq/cm2 = nanobecquerels per square centimeter
nBq/cm3	nBq/cm3 = nanobecquerels per cubic centimeter
nBq/m2	nBq/m2 = nanobecquerels per square meter
nBq/m3	nBq/m3 = nanobecquerels per cubic meter
uBq	uBq = microbecquerels
uBq/uL	uBq/uL = microbecquerels per microliter
uBq/mL	uBq/mL = microbecquerels per milliliter
uBq/L	uBq/L = microbecquerels per liter
uBq/mg	uBq/mg = microbecquerels per milligram
uBq/g	uBq/g = microbecquerels per gram
uBq/kg	uBq/kg = microbecquerels per kilogram
uBq/cm2	uBq/cm2 = microbecquerels per square centimeter
uBq/cm3	uBq/cm3 = microbecquerels per cubic centimeter
uBq/m2	uBq/m2 = microbecquerels per square meter
uBq/m3	uBq/m3 = microbecquerels per cubic meter
mBq	mBq = millibecquerel
mBq/uL	mBq/uL = millibecquerels per microliter
mBq/mL	mBq/mL = millibecquerels per milliliter
mBq/L	mBq/L = millibecquerels per liter
mBq/mg	mBq/mg = millibecquerels per milligram
mBq/g	mBq/g = millibecquerels per gram
mBq/kg	mBq/kg = millibecquerels per kilogram
mBq/cm2	mBq/cm2 = millibecquerels per square centimeter
mBq/cm3	mBq/cm3 = millibecquerels per cubic centimeter
mBq/m2	mBq/m2 = millibecquerels per square meter

Valid Values	Notes
mBq/m3	mBq/m3 = millibecquerels per cubic meter
Bq	Bq = becquerel
Bq/uL	Bq/uL = becquerels per microliter
Bq/mL	Bq/mL = becquerels per milliliter
Bq/L	Bq/L = becquerels per liter
Bq/mg	Bq/mg = becquerels per milligram
Bq/g	Bq/g = becquerels per gram
Bq/kg	Bq/kg = becquerels per kilogram
Bq/cm2	Bq/cm2 = becquerels per square centimeter
Bq/cm3	Bq/cm3 = becquerels per cubic centimeter
Bq/m2	Bq/m2 = becquerels per square meter
Bq/m3	Bq/m3 = becquerels per cubic meter
uSv	uSv = microsievert
uSv/s	uSv/s = microsieverts per second
uSv/min	uSv/min = microsieverts per minute
uSv/h	uSv/h = microsieverts per hour
uSv/d	uSv/d = microsieverts per day
mSv	mSv = millisievert
mSv/s	mSv/s = millisieverts per second
mSv/min	mSv/min = millisieverts per minute
mSv/h	mSv/h = millisieverts per hour
mSv/d	mSv/d = millisieverts per day
Sv	Sv = sievert
Sv/s	Sv/s = sieverts per second
Sv/min	Sv/min = sieverts per minute
Sv/h	Sv/h = sieverts per hour
Sv/d	Sv/d = sieverts per day
uGy	uGy = microgray
uGy/s	uGy/s = micrograys per second
uGy/min	uGy/min = micrograys per minute
uGy/h	uGy/h = micrograys per hour
uGy/d	uGy/d = micrograys per day
mGy	mGy = milligray
mGy/s	mGy/s = milligrays per second
mGy/min	mGy/min = milligrays per minute
mGy/h	mGy/h = milligrays per hour
mGy/d	mGy/d = milligrays per day
Gy	Gy = gray
Gy/s	Gy/s = grays per second
Gy/min	Gy/min = grays per minute
Gy/h	Gy/h = grays per hour
Gy/d	Gy/d = grays per day

Filtered

Valid Values
Yes
No

FinalAmountUnits

Valid Values	Notes
uL	uL = microliter
mL	mL = milliliter
L	L = liter
cm2	cm2 = square centimeter
cm3	cm3 = cubic centimeter
m2	m2 = square meter
m3	m3 = cubic meter
pg	pg = picogram
ng	ng = nanogram
ug	ug = microgram
mg	mg = milligram
g	g = gram
kg	kg = kilogram

HeatedPurge

Valid Values
Yes
No

Inclusion

Valid Values
Yes
No

InitialAmountUnits

Valid Values	Notes
uL	uL = microliter
mL	mL = milliliter
L	L = liter
cm2	cm2 = square centimeter
cm3	cm3 = cubic centimeter
m2	m2 = square meter
m3	m3 = cubic meter
pg	pg = picogram
ng	ng = nanogram
ug	ug = microgram

Valid Values	Notes
mg	mg = milligram
g	g = gram
kg	kg = kilogram

InjectionVolumeUnits

Valid Values	Notes
uL	uL = microliter
mL	mL = milliliter
L	L = liter

InterelementCorrection

Valid Values
Yes
No

IntermediateResultLimitType

Valid Values
Calibrated_Range
Linear_Range
Client
Lab
Method
Vendor

IntermediateResultUncertaintyIntervalType

Valid Values	Notes
Symmetric_Interval	This interval is centered on the IntermediateResult value.
Other_Interval	This interval includes the IntermediateResult value.

IntermediateResultUncertaintyType

Valid Values	Notes
Category A	The estimate of the IntermediateResultUncertainty is directly determined using a statistically-based method.
Category B	The estimate of the IntermediateResultUncertainty is directly determined using some other method.

IntermediateResultUncertaintyUnits

Valid Values	Notes
pg	pg = picogram
pg/uL	pg/uL = picograms per microliter
pg/mL	pg/mL = picograms per milliliter
pg/L	pg/L = picograms per liter
pg/mg	pg/mg = picograms per milligram
pg/g	pg/g = picograms per gram
pg/kg	pg/kg = picograms per kilogram
pg/cm2	pg/cm2 = picograms per square centimeter
pg/cm3	pg/cm3 = picograms per cubic centimeter
pg/m2	pg/m2 = picograms per square meter
pg/m3	pg/m3 = picograms per cubic meter
ng	ng = nanogram
ng/uL	ng/uL = nanograms per microliter
ng/mL	ng/mL = nanograms per milliliter
ng/L	ng/L = nanograms per liter
ng/mg	ng/mg = nanograms per milligram
ng/g	ng/g = nanograms per gram
ng/kg	ng/kg = nanograms per kilogram
ng/cm2	ng/cm2 = nanograms per square centimeter
ng/cm3	ng/cm3 = nanograms per cubic centimeter
ng/m2	ng/m2 = nanograms per square meter
ng/m3	ng/m3 = nanograms per cubic meter
ug	ug = microgram
ug/uL	ug/uL = micrograms per microliter
ug/mL	ug/mL = micrograms per milliliter
ug/L	ug/L = micrograms per liter
ug/mg	ug/mg = micrograms per milligram
ug/g	ug/g = micrograms per gram
ug/kg	ug/kg = micrograms per kilogram
ug/cm2	ug/cm2 = micrograms per square centimeter
ug/cm3	ug/cm3 = micrograms per cubic centimeter
ug/m2	ug/m2 = micrograms per square meter
ug/m3	ug/m3 = micrograms per cubic meter
mg	mg = milligram
mg/uL	mg/uL = milligrams per microliter
mg/mL	mg/mL = milligrams per milliliter
mg/L	mg/L = milligrams per liter
mg/mg	mg/mg = milligrams per milligram
mg/g	mg/g = milligrams per gram
mg/kg	mg/kg = milligrams per kilogram
mg/cm2	mg/cm2 = milligrams per square centimeter
mg/cm3	mg/cm3 = milligrams per cubic centimeter
mg/m2	mg/m2 = milligrams per square meter

Valid Values	Notes
mg/m3	mg/m3 - milligrams per cubic meter
g	g = gram
g/uL	g/uL = grams per microliter
g/mL	g/mL = grams per milliliter
g/L	g/L = grams per liter
g/mg	g/mg = grams per milligram
g/g	g/g = grams per gram
g/kg	g/kg = grams per kilogram
pL/mL	pL/mL = picoliters per milliliter
pL/L	pL/L = picoliters per liter
nL/mL	nL/mL = nanoliters per milliliter
nL/L	nL/L = nanoliters per liter
uL/mL	uL/mL = microliters per milliliter
uL/L	uL/L = microliters per liter
mL/L	mL/L = milliliters per liter
pBq	pBq = picobecquerel
pBq/uL	pBq/uL = picobecquerels per microliter
pBq/mL	pBq/mL = picobecquerels per milliliter
pBq/L	pBq/L = picobecquerels per liter
pBq/mg	pBq/mg = picobecquerels per milligram
pBq/g	pBq/g = picobecquerels per gram
pBq/kg	pBq/kg = picobecquerels per kilogram
pBq/cm2	pBq/cm2 = picobecquerels per square centimeter
pBq/cm3	pBq/cm3 = picobecquerels per cubic centimeter
pBq/m2	pBq/m2 = picobecquerels per square meter
pBq/m3	pBq/m3 = picobecquerels per cubic meter
nBq	nBq = nanobecquerel
nBq/uL	nBq/uL = nanobecquerels per microliter
nBq/mL	nBq/mL = nanobecquerels per milliliter
nBq/L	nBq/L = nanobecquerels per liter
nBq/mg	nBq/mg = nanobecquerels per milligram
nBq/g	nBq/g = nanobecquerels per gram
nBq/kg	nBq/kg = nanobecquerels per kilogram
nBq/cm2	nBq/cm2 = nanobecquerels per square centimeter
nBq/cm3	nBq/cm3 = nanobecquerels per cubic centimeter
nBq/m2	nBq/m2 = nanobecquerels per square meter
nBq/m3	nBq/m3 = nanobecquerels per cubic meter
uBq	uBq = microbecquerel
uBq/uL	uBq/uL = microbecquerels per microliter
uBq/mL	uBq/mL = microbecquerels per milliliter
uBq/L	uBq/L = microbecquerels per liter
uBq/mg	uBq/mg = microbecquerels per milligram
uBq/g	uBq/g = microbecquerels per gram
uBq/kg	uBq/kg = microbecquerels per kilogram
uBq/cm2	uBq/cm2 = microbecquerels per square centimeter

Valid Values	Notes
uBq/cm3	uBq/cm3 = microbecquerels per cubic centimeter
uBq/m2	uBq/m2 = microbecquerels per square meter
uBq/m3	uBq/m3 = microbecquerels per cubic meter
mBq	mBq = millibecquerel
mBq/uL	mBq/uL = millibecquerels per microliter
mBq/mL	mBq/mL = millibecquerels per milliliter
mBq/L	mBq/L = millibecquerels per liter
mBq/mg	mBq/mg = millibecquerels per milligram
mBq/g	mBq/g = millibecquerels per gram
mBq/kg	mBq/kg = millibecquerels per kilogram
mBq/cm2	mBq/cm2 = millibecquerels per square centimeter
mBq/cm3	mBq/cm3 = millibecquerels per cubic centimeter
mBq/m2	mBq/m2 = millibecquerels per square meter
mBq/m3	mBq/m3 = millibecquerels per cubic meter
Bq	Bq = becquerel
Bq/uL	Bq/uL = becquerels per microliter
Bq/mL	Bq/mL = becquerels per milliliter
Bq/L	Bq/L = becquerels per liter
Bq/mg	Bq/mg = becquerels per milligram
Bq/g	Bq/g = becquerels per gram
Bq/kg	Bq/kg = becquerels per kilogram
Bq/cm2	Bq/cm2 = becquerels per square centimeter
Bq/cm3	Bq/cm3 = becquerels per cubic centimeter
Bq/m2	Bq/m2 = becquerels per square meter
Bq/m3	Bq/m3 = becquerels per cubic meter
uSv	uSv = microsievert
uSv/s	uSv/s = microsieverts per second
uSv/min	uSv/min = microsieverts per minute
uSv/h	uSv/h = microsieverts per hour
uSv/d	uSv/d = microsieverts per day
mSv	mSv = millisievert
mSv/s	mSv/s = millisieverts per second
mSv/min	mSv/min = millisieverts per minute
mSv/h	mSv/h = millisieverts per hour
mSv/d	mSv/d = millisieverts per day
Sv	Sv = sievert
Sv/s	Sv/s = sieverts per second
Sv/min	Sv/min = sieverts per minute
Sv/h	Sv/h = sieverts per hour
Sv/d	Sv/d = sieverts per day
uGy	uGy = microgray
uGy/s	uGy/s = micrograys per second
uGy/min	uGy/min = micrograys per minute
uGy/h	uGy/h = micrograys per hour
uGy/d	uGy/d = micrograys per day

Valid Values	Notes
mGy	mGy = milligray
mGy/s	mGy/s = milligrays per second
mGy/min	mGy/min = milligrays per minute
mGy/h	mGy/h = milligrays per hour
mGy/d	mGy/d = milligrays per day
Gy	Gy = gray
Gy/s	Gy/s = grays per second
Gy/min	Gy/min = grays per minute
Gy/h	Gy/h = grays per hour
Gy/d	Gy/d = grays per day

IntermediateResultUnits

Valid Values	Notes
pg	pg = picogram
pg/uL	pg/uL = picograms per microliter
pg/mL	pg/mL = picograms per milliliter
pg/L	pg/L = picograms per liter
pg/mg	pg/mg = picograms per milligram
pg/g	pg/g = picograms per gram
pg/kg	pg/kg = picograms per kilogram
pg/cm2	pg/cm2 = picograms per square centimeter
pg/cm3	pg/cm3 = picograms per cubic centimeter
pg/m2	pg/m2 = picograms per square meter
pg/m3	pg/m3 = picograms per cubic meter
ng	ng = nanogram
ng/uL	ng/uL = nanograms per microliter
ng/mL	ng/mL = nanograms per milliliter
ng/L	ng/L = nanograms per liter
ng/mg	ng/mg = nanograms per milligram
ng/g	ng/g = nanograms per gram
ng/kg	ng/kg = nanograms per kilogram
ng/cm2	ng/cm2 = nanograms per square centimeter
ng/cm3	ng/cm3 = nanograms per cubic centimeter
ng/m2	ng/m2 = nanograms per square meter
ng/m3	ng/m3 = nanograms per cubic meter
ug	ug = microgram
ug/uL	ug/uL = micrograms per microliter
ug/mL	ug/mL = micrograms per milliliter
ug/L	ug/L = micrograms per liter
ug/mg	ug/mg = micrograms per milligram
ug/g	ug/g = micrograms per gram
ug/kg	ug/kg = micrograms per kilogram
ug/cm2	ug/cm2 = micrograms per square centimeter
ug/cm3	ug/cm3 = micrograms per cubic centimeter

Valid Values	Notes
ug/m2	ug/m2 = micrograms per square meter
ug/m3	ug/m3 = micrograms per cubic meter
mg	mg = milligram
mg/uL	mg/uL = milligrams per microliter
mg/mL	mg/mL = milligrams per milliliter
mg/L	mg/L = milligrams per liter
mg/mg	mg/mg = milligrams per milligram
mg/g	mg/g = milligrams per gram
mg/kg	mg/kg = milligrams per kilogram
mg/cm2	mg/cm2 = milligrams per square centimeter
mg/cm3	mg/cm3 = milligrams per cubic centimeter
mg/m2	mg/m2 = milligrams per square meter
mg/m3	mg/m3 - milligrams per cubic meter
g	g = gram
g/uL	g/uL = grams per microliter
g/mL	g/mL = grams per milliliter
g/L	g/L = grams per liter
g/mg	g/mg = grams per milligram
g/g	g/g = grams per gram
g/kg	g/kg = grams per kilogram
pL/mL	pL/mL = picoliters per milliliter
pL/L	pL/L = picoliters per liter
nL/mL	nL/mL = nanoliters per milliliter
nL/L	nL/L = nanoliters per liter
uL/mL	uL/mL = microliters per milliliter
uL/L	uL/L = microliters per liter
mL/L	mL/L = milliliters per liter
pBq	pBq = picobecquerel
pBq/uL	pBq/uL = picobecquerels per microliter
pBq/mL	pBq/mL = picobecquerels per milliliter
pBq/L	pBq/L = picobecquerels per liter
pBq/mg	pBq/mg = picobecquerels per milligram
pBq/g	pBq/g = picobecquerels per gram
pBq/kg	pBq/kg = picobecquerels per kilogram
pBq/cm2	pBq/cm2 = picobecquerels per square centimeter
pBq/cm3	pBq/cm3 = picobecquerels per cubic centimeter
pBq/m2	pBq/m2 = picobecquerels per square meter
pBq/m3	pBq/m3 = picobecquerels per cubic meter
nBq	nBq = nanobecquerel
nBq/uL	nBq/uL = nanobecquerels per microliter
nBq/mL	nBq/mL = nanobecquerels per milliliter
nBq/L	nBq/L = nanobecquerels per liter
nBq/mg	nBq/mg = nanobecquerels per milligram
nBq/g	nBq/g = nanobecquerels per gram
nBq/kg	nBq/kg = nanobecquerels per kilogram

Valid Values	Notes
nBq/cm2	nBq/cm2 = nanobecquerels per square centimeter
nBq/cm3	nBq/cm3 = nanobecquerels per cubic centimeter
nBq/m2	nBq/m2 = nanobecquerels per square meter
nBq/m3	nBq/m3 = nanobecquerels per cubic meter
uBq	uBq = microbecquerel
uBq/uL	uBq/uL = microbecquerels per microliter
uBq/mL	uBq/mL = microbecquerels per milliliter
uBq/L	uBq/L = microbecquerels per liter
uBq/mg	uBq/mg = microbecquerels per milligram
uBq/g	uBq/g = microbecquerels per gram
uBq/kg	uBq/kg = microbecquerels per kilogram
uBq/cm2	uBq/cm2 = microbecquerels per square centimeter
uBq/cm3	uBq/cm3 = microbecquerels per cubic centimeter
uBq/m2	uBq/m2 = microbecquerels per square meter
uBq/m3	uBq/m3 = microbecquerels per cubic meter
mBq	mBq = millibecquerel
mBq/uL	mBq/uL = millibecquerels per microliter
mBq/mL	mBq/mL = millibecquerels per milliliter
mBq/L	mBq/L = millibecquerels per liter
mBq/mg	mBq/mg = millibecquerels per milligram
mBq/g	mBq/g = millibecquerels per gram
mBq/kg	mBq/kg = millibecquerels per kilogram
mBq/cm2	mBq/cm2 = millibecquerels per square centimeter
mBq/cm3	mBq/cm3 = millibecquerels per cubic centimeter
mBq/m2	mBq/m2 = millibecquerels per square meter
mBq/m3	mBq/m3 = millibecquerels per cubic meter
Bq	Bq = becquerel
Bq/uL	Bq/uL = becquerels per microliter
Bq/mL	Bq/mL = becquerels per milliliter
Bq/L	Bq/L = becquerels per liter
Bq/mg	Bq/mg = becquerels per milligram
Bq/g	Bq/g = becquerels per gram
Bq/kg	Bq/kg = becquerels per kilogram
Bq/cm2	Bq/cm2 = becquerels per square centimeter
Bq/cm3	Bq/cm3 = becquerels per cubic centimeter
Bq/m2	Bq/m2 = becquerels per square meter
Bq/m3	Bq/m3 = becquerels per cubic meter
uSv	uSv = microsievert
uSv/s	uSv/s = microsieverts per second
uSv/min	uSv/min = microsieverts per minute
uSv/h	uSv/h = microsieverts per hour
uSv/d	uSv/d = microsieverts per day
mSv	mSv = millisievert
mSv/s	mSv/s = millisieverts per second
mSv/min	mSv/min = millisieverts per minute

Valid Values	Notes
mSv/h	mSv/h = millisieverts per hour
mSv/d	mSv/d = millisieverts per day
Sv	Sv = sievert
Sv/s	Sv/s = sieverts per second
Sv/min	Sv/min = sieverts per minute
Sv/h	Sv/h = sieverts per hour
Sv/d	Sv/d = sieverts per day
uGy	uGy = microgray
uGy/s	uGy/s = micrograys per second
uGy/min	uGy/min = micrograys per minute
uGy/h	uGy/h = micrograys per hour
uGy/d	uGy/d = micrograys per day
mGy	mGy = milligray
mGy/s	mGy/s = milligrays per second
mGy/min	mGy/min = milligrays per minute
mGy/h	mGy/h = milligrays per hour
mGy/d	mGy/d = milligrays per day
Gy	Gy = gray
Gy/s	Gy/s = grays per second
Gy/min	Gy/min = grays per minute
Gy/h	Gy/h = grays per hour
Gy/d	Gy/d = grays per day

LabPointOfContactType

Valid Values
Primary
Secondary

LabResultStatus

Valid Values
Preliminary
Final

LabType

Valid Values
Field
Fixed
Mobile

ManualIntegration

Valid Values
Yes
No

MassLimitType

Valid Values
Client
Laboratory
Method
Vendor

Mass Units

Valid Values	Notes
u	u = Unified Atomic Mass Units

MatrixID

MatrixID Valid Values	MatrixMedium Valid Values
Water	Aqueous
Ground_Water	Aqueous
Surface_Water	Aqueous
Leachate	Aqueous
Municipal_Waste	Aqueous
Industrial_Waste	Aqueous
Finished_Water	Aqueous
Canal	Aqueous
Reservoir	Aqueous
Lake	Aqueous
Ditch	Aqueous
Pond	Aqueous
Storm_Water	Aqueous
Drinking_Water	Aqueous
Saline_Water	Aqueous
Other_Aqueous	Aqueous
Air	Air
Ambient_Air	Air
Indoor_Air	Air
Stack_Gases	Air
Other_Air	Air
Ash	Solid
Soil	Solid
Surface_Soil	Solid
Subsurface_Soil	Solid
Sediment	Solid
Filter	Solid
Construction_Material	Solid
Process_Waste	Solid
Fallout	Solid
Dust	Solid

MatrixID Valid Values	MatrixMedium Valid Values
Biochar	Solid
Biosolids	Solid
Sludge	Solid
Waste	Solid
Consumer_Product	Solid
Wipe	Solid
Other_Solid	Solid
DNAPL	Non_Aqueous_Liquid
LNAPL	Non_Aqueous_Liquid
Pure_Product	Non_Aqueous_Liquid
Oil	Non_Aqueous_Liquid
Oily_Sludge	Non_Aqueous_Liquid
Gasoline	Non_Aqueous_Liquid
Other_Non_Aqueous	Non_Aqueous_Liquid
Tissue	Biological_Tissue

MatrixMedium

This data element is dependent on the MatrixID element. Choose the appropriate MatrixMedium from the list in the MatrixID element entry.

MeanRelativeResponseLimitType

Valid Values
Client
Laboratory
Method
Vendor

MeanRetentionTimeLimitType

Valid Values
Client
Laboratory
Method
Vendor

MeanRetentionTimeUnits

Valid Values	Notes
us	us = microsecond
ms	ms = millisecond
s	s = second
min	min = minute, may be decimal minutes
h	h = hour
d	d = day

MeanRRFLimitType

Valid Values	Notes
Client	
Laboratory	
Method	
Vendor	

MethodCode

None available at this time.

MethodLevel

Valid Values
Trace
Low
Medium
High

MethodType

Valid Values	Notes
GC	GC = Gas Chromatography
GC/MS	GC/MS = Gas Chromatography with Mass Spectrometry Detector
HRGC/HRMS	HRGC/HRMS = High Resolution Gas Chromatography/High Resolution Mass Spectrometry
LC	LC = Liquid Chromatography
LC/MS	LC/MS = Liquid Chromatography with Mass Spectrometry Detector
LC/MS/MS	LC/MS/MS = Liquid Chromatography with Mass Spectrometry/Mass Spectrometry Detector
IC	IC = Ion Chromatography
IC/MS	IC/MS = Ion Chromatography with Mass Spectrometry Detector
ICP/AES	ICP/AES = Inductively Coupled Plasma / Atomic Emission Spectroscopy
ICP/MS	ICP/MS = Inductively Coupled Plasma with Mass Spectrometry Detector
CVAA	CVAA = Cold Vapor Atomic Absorption
CVAF	CVAF = Cold Vapor Atomic Fluorescence
FAA	FAA = Flame Atomic Absorption
GFAA	GFAA = Graphite Furnace Atomic Absorption
COLOR	COLOR = Colorimetry
Spectrophotometry	Spectrophotometry
ISE	ISE = Ion Selective Electrode
TOC	TOC = Total Organic Carbon

PeakRatioLimitType

Valid Values
Client
Laboratory
Method
Vendor

PercentBreakdownLimitType

Valid Values
Client
Laboratory
Method
Vendor

PercentDifferenceLimitType

Valid Values
Client
Laboratory
Method
Vendor

PercentRatioLimitType

Valid Values
Client
Laboratory
Method
Vendor

PercentRecoveryLimitType

Valid Values
Client
Laboratory
Method
Vendor

PercentRecoveryType

Valid Values
Not_Calculable

PercentRSDLimitType

Valid Values
Client
Laboratory
Method
Vendor

PhaseAnalyzed

Valid Values
Upper
Middle
Lower

PreparationPlusCleanupType

Valid Values
Preparation
Cleanup

PreparationUncertaintyIntervalType

Valid Values	Notes
Symmetric_Interval	This interval is centered on the Result value.
Other_Interval	This interval includes the Result value.

PreparationUncertaintyType

Valid Values	Notes
Category A	The estimate of the PreparationUncertainty is directly determined using a statistically-based method.
Category B	The estimate of the PreparationUncertainty is directly determined using some other method.

PreparationUncertaintyUnits

Valid Values	Notes
pg	pg = picogram
pg/uL	pg/uL = picograms per microliter
pg/mL	pg/mL = picograms per milliliter
pg/L	pg/L = picograms per liter
pg/mg	pg/mg = picograms per milligram
pg/g	pg/g = picograms per gram
pg/kg	pg/kg = picograms per kilogram
pg/cm2	pg/cm2 = picograms per square centimeter
pg/cm3	pg/cm3 = picograms per cubic centimeter
pg/m2	pg/m2 = picograms per square meter
pg/m3	pg/m3 = picograms per cubic meter

Valid Values	Notes
ng	ng = nanogram
ng/uL	ng/uL = nanograms per microliter
ng/mL	ng/mL = nanograms per milliliter
ng/L	ng/L = nanograms per liter
ng/mg	ng/mg = nanograms per milligram
ng/g	ng/g = nanograms per gram
ng/kg	ng/kg = nanograms per kilogram
ng/cm2	ng/cm2 = nanograms per square centimeter
ng/cm3	ng/cm3 = nanograms per cubic centimeter
ng/m2	ng/m2 = nanograms per square meter
ng/m3	ng/m3 = nanograms per cubic meter
ug	ug = microgram
ug/uL	ug/uL = micrograms per microliter
ug/mL	ug/mL = micrograms per milliliter
ug/L	ug/L = micrograms per liter
ug/mg	ug/mg = micrograms per milligram
ug/g	ug/g = micrograms per gram
ug/kg	ug/kg = micrograms per kilogram
ug/cm2	ug/cm2 = micrograms per square centimeter
ug/cm3	ug/cm3 = micrograms per cubic centimeter
ug/m2	ug/m2 = micrograms per square meter
ug/m3	ug/m3 = micrograms per cubic meter
mg	mg = milligram
mg/uL	mg/uL = milligrams per microliter
mg/mL	mg/mL = milligrams per milliliter
mg/L	mg/L = milligrams per liter
mg/mg	mg/mg = milligrams per milligram
mg/g	mg/g = milligrams per gram
mg/kg	mg/kg = milligrams per kilogram
mg/cm2	mg/cm2 = milligrams per square centimeter
mg/cm3	mg/cm3 = milligrams per cubic centimeter
mg/m2	mg/m2 = milligrams per square meter
mg/m3	mg/m3 – milligrams per cubic meter
g	g = gram
g/uL	g/uL = grams per microliter
g/mL	g/mL = grams per milliliter
g/L	g/L = grams per liter
g/mg	g/mg = grams per milligram
g/g	g/g = grams per gram
g/kg	g/kg = grams per kilogram
pL/mL	pL/mL = picoliters per milliliter
pL/L	pL/L = picoliters per liter
nL/mL	nL/mL = nanoliters per milliliter
nL/L	nL/L = nanoliters per liter
uL/mL	uL/mL = microliters per milliliter

Valid Values	Notes
uL/L	uL/L = microliters per liter
mL/L	mL/L = milliliters per liter
pBq	pBq = picobecquerel
pBq/uL	pBq/uL = picobecquerels per microliter
pBq/mL	pBq/mL = picobecquerels per milliliter
pBq/L	pBq/L = picobecquerels per liter
pBq/mg	pBq/mg = picobecquerels per milligram
pBq/g	pBq/g = picobecquerels per gram
pBq/kg	pBq/kg = picobecquerels per kilogram
pBq/cm2	pBq/cm2 = picobecquerels per square centimeter
pBq/cm3	pBq/cm3 = picobecquerels per cubic centimeter
pBq/m2	pBq/m2 = picobecquerels per square meter
pBq/m3	pBq/m3 = picobecquerels per cubic meter
nBq	nBq = nanobecquerel
nBq/uL	nBq/uL = nanobecquerels per microliter
nBq/mL	nBq/mL = nanobecquerels per milliliter
nBq/L	nBq/L = nanobecquerels per liter
nBq/mg	nBq/mg = nanobecquerels per milligram
nBq/g	nBq/g = nanobecquerels per gram
nBq/kg	nBq/kg = nanobecquerels per kilogram
nBq/cm2	nBq/cm2 = nanobecquerels per square centimeter
nBq/cm3	nBq/cm3 = nanobecquerels per cubic centimeter
nBq/m2	nBq/m2 = nanobecquerels per square meter
nBq/m3	nBq/m3 = nanobecquerels per cubic meter
uBq	uBq = microbecquerel
uBq/uL	uBq/uL = microbecquerels per microliter
uBq/mL	uBq/mL = microbecquerels per milliliter
uBq/L	uBq/L = microbecquerels per liter
uBq/mg	uBq/mg = microbecquerels per milligram
uBq/g	uBq/g = microbecquerels per gram
uBq/kg	uBq/kg = microbecquerels per kilogram
uBq/cm2	uBq/cm2 = microbecquerels per square centimeter
uBq/cm3	uBq/cm3 = microbecquerels per cubic centimeter
uBq/m2	uBq/m2 = microbecquerels per square meter
uBq/m3	uBq/m3 = microbecquerels per cubic meter
mBq	mBq = millibecquerel
mBq/uL	mBq/uL = millibecquerels per microliter
mBq/mL	mBq/mL = millibecquerels per milliliter
mBq/L	mBq/L = millibecquerels per liter
mBq/mg	mBq/mg = millibecquerels per milligram
mBq/g	mBq/g = millibecquerels per gram
mBq/kg	mBq/kg = millibecquerels per kilogram
mBq/cm2	mBq/cm2 = millibecquerels per square centimeter
mBq/cm3	mBq/cm3 = millibecquerels per cubic centimeter
mBq/m2	mBq/m2 = millibecquerels per square meter

Valid Values	Notes
mBq/m3	mBq/m3 = millibecquerels per cubic meter
Bq	Bq = becquerel
Bq/uL	Bq/uL = becquerels per microliter
Bq/mL	Bq/mL = becquerels per milliliter
Bq/L	Bq/L = becquerels per liter
Bq/mg	Bq/mg = becquerels per milligram
Bq/g	Bq/g = becquerels per gram
Bq/kg	Bq/kg = becquerels per kilogram
Bq/cm2	Bq/cm2 = becquerels per square centimeter
Bq/cm3	Bq/cm3 = becquerels per cubic centimeter
Bq/m2	Bq/m2 = becquerels per square meter
Bq/m3	Bq/m3 = becquerels per cubic meter
uSv	uSv = microsievert
uSv/s	uSv/s = microsieverts per second
uSv/min	uSv/min = microsieverts per minute
uSv/h	uSv/h = microsieverts per hour
uSv/d	uSv/d = microsieverts per day
mSv	mSv = millisievert
mSv/s	mSv/s = millisieverts per second
mSv/min	mSv/min = millisieverts per minute
mSv/h	mSv/h = millisieverts per hour
mSv/d	mSv/d = millisieverts per day
Sv	Sv = sievert
Sv/s	Sv/s = sieverts per second
Sv/min	Sv/min = sieverts per minute
Sv/h	Sv/h = sieverts per hour
Sv/d	Sv/d = sieverts per day
uGy	uGy = microgray
uGy/s	uGy/s = micrograys per second
uGy/min	uGy/min = micrograys per minute
uGy/h	uGy/h = micrograys per hour
uGy/d	uGy/d = micrograys per day
mGy	mGy = milligray
mGy/s	mGy/s = milligrays per second
mGy/min	mGy/min = milligrays per minute
mGy/h	mGy/h = milligrays per hour
mGy/d	mGy/d = milligrays per day
Gy	Gy = gray
Gy/s	Gy/s = grays per second
Gy/min	Gy/min = grays per minute
Gy/h	Gy/h = grays per hour
Gy/d	Gy/d = grays per day

QCCategory

Valid Values
Blank
Blank_Spike
Blank_Spike_Duplicate
Duplicate
Serial_Dilution
Spike
Spike_Duplicate

QCLinkage

Valid Values
SamplingBatch
EquipmentBatch
ShippingBatch
LabReportingBatch
MethodBatch
HandlingBatch
PreparationBatch
AnalysisBatch
CleanupBatch
StorageBatch
RunBatch

QCType

Valid Values	Notes
Baseline	
Cleanup_Blank	
Continuing_Calibration	
Continuing_Calibration_Blank	
Continuing_Calibration_Verification	
Detection_Limit_Check_Standard	
Duplicate	
Field_Blank	
Field_Replicate	
Field_Sample	
Florisil_Cartridge_Check	
GPC_Calibration_Check	
Grinding_Blank	
Initial_Calibration	
Initial_Calibration_Blank	
Initial_Calibration_Verification	
Instrument_Blank	
Instrument_Performance_Check_PEM	

Valid Values	Notes
Instrument_Performance_Check_Resolution	
Instrument_Performance_Check_Tune	
Interanalyte_Correction_Factor	
Interference_Check_Standard_A	
Interference_Check_Standard_A/B	
Laboratory_Control_Sample	
Laboratory_Control_Sample_Duplicate	
Laboratory_Fortified_Blank	
Laboratory_Fortified_Blank_Duplicate	
Laboratory_Replicate	
Leachate_Extraction_Blank	
Linear_Range_Verification	
Matrix_Spike	
Matrix_Spike_Duplicate	
Method_Blank	
Method_Instrument_Blank	
Non-Client_Sample	
Post_Digestion_Spike	
Post_Spike	
PT_Sample	
Quantitation_Limit_Check_Standard	
Reslope	
Serial_Dilution	
Standard_Reference_Material	
Storage_Blank	

QuantitationBasis

Valid Values
External_Standard
Internal_Standard

QuantitationLimitType

Valid Values	Notes
CRQL	CRQL = Contract Required Quantitation Limit
CRQL_sa	CRQL_sa = Sample adjusted CRQL. This is the CRQL adjusted for variable method conditions (e.g., dilutions or amount of sample used) and sample characteristics (e.g., amount of solids in the sample).
LOQ	LOQ = Limit of Quantitation. The smallest concentration that produces a quantitative result with known and recorded precision and bias.
LOQ_sa	LOQ_sa = Sample adjusted LOQ. This is the LOQ adjusted for variable method conditions (e.g., dilutions or amount of sample used) and sample characteristics (e.g., amount of solids in the sample)
ML	ML = Minimum Level of Quantitation as defined by the US Environmental Protection Agency (USEPA) in Section 17.8 of EPA Method 1631 Revision B (as promulgated on June 8, 1999 (64 FR 30417)).

Valid Values	Notes
ML_sa	ML_sa = Sample adjusted ML. This is the ML adjusted for variable method conditions (e.g., dilutions or amount of sample used) and sample characteristics (e.g., amount of solids in the sample).
MRL	MRL = Minimum Reporting Level as defined by the US Environmental Protection Agency (USEPA). This is used for EPA's Safe Drinking Water Act and actual procedures to determine the MRL will be published in the Federal Register in the future.
MRL_sa	MRL_sa = Sample adjusted MRL. This is the MRL adjusted for variable method conditions (e.g., dilutions or amount of sample used) and sample characteristics (e.g., amount of solids in the sample).
LCMRL	LCMRL = Lowest Concentration Minimum Reporting Level. This is similar to the MRL.
LCMRL_sa	LCMRL_sa = Sample adjusted LCMRL. This is the LCMRL adjusted for variable method conditions (e.g., dilutions or amount of sample used) and sample characteristics (e.g., amount of solids in the sample).
LOQ_ACS	LOQ_ACS = Limit of Quantitation as defined by the American Chemical Society (ACS) and is roughly equivalent to the ML in numerical terms.
LOQ_ACS_sa	LOQ_ACS_sa = Sample adjusted LOQ_ACS. This is the LOQ_ACS adjusted for variable method conditions (e.g., dilutions or amount of sample used) and sample characteristics (e.g., amount of solids in the sample).
Lq	Lq = Quantitation Limit as defined by the International Union of Pure and Applied Chemistry (IUPAC) in conjunction with Currie.
Lq_sa	Lq_sa = Sample adjusted Lq. This is the Lq adjusted for variable method conditions (e.g., dilutions or amount of sample used) and sample characteristics (e.g., amount of solids in the sample).
PQL	PQL = Practical Quantitation Limit as defined by the US Environmental Protection Agency (USEPA) in 52FR 25690, July 8, 1987. This is an older term and is no longer being supported by EPA since no definitive procedure was published to determine its value.
PQL_sa	PQL_sa = Sample adjusted PQL. This is the PQL adjusted for variable method conditions (e.g., dilutions or amount of sample used) and sample characteristics (e.g., amount of solids in the sample).
EQL	EQL = Estimated Quantitation Limit as defined by the US Environmental Protection Agency (USEPA). This is an older term used in Chapter 1 of SW-846 and is related to the MDL but no definitive procedure was published to determine its value. The EQL often is represented by the lowest non-zero standard in the calibration curve.
EQL_sa	EQL_sa = Sample adjusted EQL. This is the EQL adjusted for variable method conditions (e.g., dilutions or amount of sample used) and sample characteristics (e.g., amount of solids in the sample).
Low_Standard	Low_Standard = The concentration of the lowest non-zero calibration standard used to establish the initial calibration curve.
LOQ_QSM	LOQ_QSM = The Limit of Quantitation as defined by the Department of Defense (DOD) Quality System Manual (QSM) version under which the sample analysis is performed. This is the lowest concentration that produces a quantitative result within specified limits of precision and bias.
LOQ_QSM_sa	LOQ_QSM_sa = Sample adjusted LOQ_QSM. This is the LOQ_QSM adjusted for variable sample conditions (e.g., dilution or amount of sample used) and sample characteristics (e.g., amount of solids in the sample).

QuantitationLimitUnits

Valid Values	Notes
pg	pg = picogram
pg/uL	pg/uL = picograms per microliter
pg/mL	pg/mL = picograms per milliliter
pg/L	pg/L = picograms per liter
pg/mg	pg/mg = picograms per milligram
pg/g	pg/g = picograms per gram
pg/kg	pg/kg = picograms per kilogram
pg/cm2	pg/cm2 = picograms per square centimeter
pg/cm3	pg/cm3 = picograms per cubic centimeter
pg/m2	pg/m2 = picograms per square meter
pg/m3	pg/m3 = picograms per cubic meter
ng	ng = nanogram
ng/uL	ng/uL = nanograms per microliter
ng/mL	ng/mL = nanograms per milliliter
ng/L	ng/L = nanograms per liter
ng/mg	ng/mg = nanograms per milligram
ng/g	ng/g = nanograms per gram
ng/kg	ng/kg = nanograms per kilogram
ng/cm2	ng/cm2 = nanograms per square centimeter
ng/cm3	ng/cm3 = nanograms per cubic centimeter
ng/m2	ng/m2 = nanograms per square meter
ng/m3	ng/m3 = nanograms per cubic meter
ug	ug = microgram
ug/uL	ug/uL = micrograms per microliter
ug/mL	ug/mL = micrograms per milliliter
ug/L	ug/L = micrograms per liter
ug/mg	ug/mg = micrograms per milligram
ug/g	ug/g = micrograms per gram
ug/kg	ug/kg = micrograms per kilogram
ug/cm2	ug/cm2 = micrograms per square centimeter
ug/cm3	ug/cm3 = micrograms per cubic centimeter
ug/m2	ug/m2 = micrograms per square meter
ug/m3	ug/m3 = micrograms per cubic meter
mg	mg = milligram
mg/uL	mg/uL = milligrams per microliter
mg/mL	mg/mL = milligrams per milliliter
mg/L	mg/L = milligrams per liter
mg/mg	mg/mg = milligrams per milligram
mg/g	mg/g = milligrams per gram
mg/kg	mg/kg = milligrams per kilogram
mg/cm2	mg/cm2 = milligrams per square centimeter
mg/cm3	mg/cm3 = milligrams per cubic centimeter
mg/m2	mg/m2 = milligrams per square meter

Valid Values	Notes
mg/m3	mg/m3 – milligrams per cubic meter
g	g = gram
g/uL	g/uL = grams per microliter
g/mL	g/mL = grams per milliliter
g/L	g/L = grams per liter
g/mg	g/mg = grams per milligram
g/g	g/g = grams per gram
g/kg	g/kg = grams per kilogram
pL/mL	pL/mL = picoliters per milliliter
pL/L	pL/L = picoliters per liter
nL/mL	nL/mL = nanoliters per milliliter
nL/L	nL/L = nanoliters per liter
uL/mL	uL/mL = microliters per milliliter
uL/L	uL/L = microliters per liter
mL/L	mL/L = milliliters per liter
pBq	pBq = picobecquerel
pBq/uL	pBq/uL = picobecquerels per microliter
pBq/mL	pBq/mL = picobecquerels per milliliter
pBq/L	pBq/L = picobecquerels per liter
pBq/mg	pBq/mg = picobecquerels per milligram
pBq/g	pBq/g = picobecquerels per gram
pBq/kg	pBq/kg = picobecquerels per kilogram
pBq/cm2	pBq/cm2 = picobecquerels per square centimeter
pBq/cm3	pBq/cm3 = picobecquerels per cubic centimeter
pBq/m2	pBq/m2 = picobecquerels per square meter
pBq/m3	pBq/m3 = picobecquerels per cubic meter
nBq	nBq = nanobecquerel
nBq/uL	nBq/uL = nanobecquerels per microliter
nBq/mL	nBq/mL = nanobecquerels per milliliter
nBq/L	nBq/L = nanobecquerels per liter
nBq/mg	nBq/mg = nanobecquerels per milligram
nBq/g	nBq/g = nanobecquerels per gram
nBq/kg	nBq/kg = nanobecquerels per kilogram
nBq/cm2	nBq/cm2 = nanobecquerels per square centimeter
nBq/cm3	nBq/cm3 = nanobecquerels per cubic centimeter
nBq/m2	nBq/m2 = nanobecquerels per square meter
nBq/m3	nBq/m3 = nanobecquerels per cubic meter
uBq	uBq = microbecquerel
uBq/uL	uBq/uL = microbecquerels per microliter
uBq/mL	uBq/mL = microbecquerels per milliliter
uBq/L	uBq/L = microbecquerels per liter
uBq/mg	uBq/mg = microbecquerels per milligram
uBq/g	uBq/g = microbecquerels per gram
uBq/kg	uBq/kg = microbecquerels per kilogram
uBq/cm2	uBq/cm2 = microbecquerels per square centimeter

Valid Values	Notes
uBq/cm3	uBq/cm3 = microbecquerels per cubic centimeter
uBq/m2	uBq/m2 = microbecquerels per square meter
uBq/m3	uBq/m3 = microbecquerels per cubic meter
mBq	mBq = millibecquerel
mBq/uL	mBq/uL = millibecquerels per microliter
mBq/mL	mBq/mL = millibecquerels per milliliter
mBq/L	mBq/L = millibecquerels per liter
mBq/mg	mBq/mg = millibecquerels per milligram
mBq/g	mBq/g = millibecquerels per gram
mBq/kg	mBq/kg = millibecquerels per kilogram
mBq/cm2	mBq/cm2 = millibecquerels per square centimeter
mBq/cm3	mBq/cm3 = millibecquerels per cubic centimeter
mBq/m2	mBq/m2 = millibecquerels per square meter
mBq/m3	mBq/m3 = millibecquerels per cubic meter
Bq	Bq = becquerel
Bq/uL	Bq/uL = becquerels per microliter
Bq/mL	Bq/mL = becquerels per milliliter
Bq/L	Bq/L = becquerels per liter
Bq/mg	Bq/mg = becquerels per milligram
Bq/g	Bq/g = becquerels per gram
Bq/kg	Bq/kg = becquerels per kilogram
Bq/cm2	Bq/cm2 = becquerels per square centimeter
Bq/cm3	Bq/cm3 = becquerels per cubic centimeter
Bq/m2	Bq/m2 = becquerels per square meter
Bq/m3	Bq/m3 = becquerels per cubic meter
uSv	uSv = microsievert
uSv/s	uSv/s = microsieverts per second
uSv/min	uSv/min = microsieverts per minute
uSv/h	uSv/h = microsieverts per hour
uSv/d	uSv/d = microsieverts per day
mSv	mSv = millisievert
mSv/s	mSv/s = millisieverts per second
mSv/min	mSv/min = millisieverts per minute
mSv/h	mSv/h = millisieverts per hour
mSv/d	mSv/d = millisieverts per day
Sv	Sv = sievert
Sv/s	Sv/s = sieverts per second
Sv/min	Sv/min = sieverts per minute
Sv/h	Sv/h = sieverts per hour
Sv/d	Sv/d = sieverts per day
uGy	uGy = microgray
uGy/s	uGy/s = micrograys per second
uGy/min	uGy/min = micrograys per minute
uGy/h	uGy/h = micrograys per hour
uGy/d	uGy/d = micrograys per day

Valid Values	Notes
mGy	mGy = milligray
mGy/s	mGy/s = milligrays per second
mGy/min	mGy/min = milligrays per minute
mGy/h	mGy/h = milligrays per hour
mGy/d	mGy/d = milligrays per day
Gy	Gy = gray
Gy/s	Gy/s = grays per second
Gy/min	Gy/min = grays per minute
Gy/h	Gy/h = grays per hour
Gy/d	Gy/d = grays per day

Quarantine

Valid Values
Yes
No

ReportingLimitType

Valid Values	Notes
CRRL	CRRL = Contract Required Reporting Limit
CRRL_sa	CRRL_sa = Sample adjusted CRRL. This is the CRRL adjusted for variable method conditions (e.g., dilutions or amount of sample used) and sample characteristics (e.g., amount of solids in the sample).
DL_QSM	DL_QSM = The Detection Limit as defined by the Department of Defense (DOD) Quality System Manual (QSM) version under which the sample analysis is performed.
DL_QSM_sa	DL_QSM_sa = Sample adjusted DL_QSM. This is the DL_QSM adjusted for variable method conditions (e.g., dilutions or amount of sample used) and sample characteristics (e.g., amount of solids in the sample).
MDL	MDL = Method Detection Limit as defined by the US Environmental Protection Agency (USEPA) in 40 CFR part 136, Appendix B (49 FR 43234 dated October 26, 1984). The false positive rate (Type I error) is set at 1%.
MDL_sa	MDL_sa = Sample adjusted MDL. This is the MDL adjusted for variable method conditions (e.g., dilutions or amount of sample used) and sample characteristics (e.g., amount of solids in the sample).
EDL	EDL = Estimated Detection Limit.
EDL_sa	EDL_sa = Sample adjusted EDL. This is the EDL adjusted for variable method conditions (e.g., dilutions or amount of sample used) and sample characteristics (e.g., amount of solids in the sample).
IDL	IDL = Instrument Detection Limit as defined by the US Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) in ILM04.1
LOD	LOD = Limit of Detection “The smallest concentration of a substance that must be present in a sample in order to be detected at the DL with 99% confidence. At the LOD, the false negative rate (Type II error) is 1%.”
LOD_sa	LOD_sa = Sample adjusted LOD. This is the LOD adjusted for variable method conditions (e.g., dilutions or amount of sample used) and sample characteristics (e.g., amount of solids in the sample).

Valid Values	Notes
LOD_ACS	LOD_ACS = Limit of Detection as defined by the American Chemical Society (ACS) and is roughly equivalent to the MDL in numerical terms and conceptually equivalent to Currie's critical value (Lc).
LOD_ACS_sa	LOD_ACS_sa = Sample adjusted LOD_ACS. This is the LOD adjusted for variable method conditions (e.g., dilutions or amount of sample used) and sample characteristics (e.g., amount of solids in the sample).
Ld	Ld = Detection Limit as defined by the International Union of Pure and Applied Chemistry (IUPAC) in conjunction with Currie. The false negative rate (Type II error) is typically set at 1%.
Ld_sa	Ld_sa = Sample adjusted Ld. This is the Ld adjusted for variable method conditions (e.g., dilutions or amount of sample used) and sample characteristics (e.g., amount of solids in the sample).
Lc	Lc = Critical value as defined by the International Union of Pure and Applied Chemistry (IUPAC) in conjunction with Currie. The false positive rate (Type I error) is typically set at 1%.
Lc_sa	Lc_sa = Sample adjusted Lc. This is the Lc adjusted for variable method conditions (e.g., dilutions or amount of sample used) and sample characteristics (e.g., amount of solids in the sample).
ML	ML = Minimum Level of Quantitation as defined by the US Environmental Protection Agency (USEPA) in Section 17.8 of EPA Method 1631 Revision B (as promulgated on June 8, 1999 (64 FR 30417)).
ML_sa	ML_sa = Sample adjusted ML. This is the ML adjusted for variable method conditions (e.g., dilutions or amount of sample used) and sample characteristics (e.g., amount of solids in the sample).
MRL	MRL = Minimum Reporting Level as defined by the US Environmental Protection Agency (USEPA). This is used for EPA's Safe Drinking Water Act and actual procedures to determine the MRL will be published in the Federal Register in the future.
MRL_sa	MRL_sa = Sample adjusted MRL. This is the MRL adjusted for variable method conditions (e.g., dilutions or amount of sample used) and sample characteristics (e.g., amount of solids in the sample).
LCMRL	LCMRL = Lowest Concentration Minimum Reporting Level. This is similar to the MRL.
LCMRL_sa	LCMRL_sa = Sample adjusted LCMRL. This is the LCMRL adjusted for variable method conditions (e.g., dilutions or amount of sample used) and sample characteristics (e.g., amount of solids in the sample).
LOD_QSM	LOD_QSM = The Limit of Detection as defined by the Department of Defense (DOD) Quality System Manual (QSM) version under which the sample analysis is performed.
LOD_QSM_sa	LOD_QSM_sa = Sample adjusted LOD_QSM. This is the LOD_QSM adjusted for variable method conditions (e.g., dilutions or amount of sample used) and sample characteristics (e.g., amount of solids in the sample).
LOQ	LOQ = Limit of Quantitation. The smallest concentration that produces a quantitative result with known and recorded precision and bias.
LOQ_sa	LOQ_sa = Sample adjusted LOQ. This is the LOQ adjusted for variable method conditions (e.g., dilutions or amount of sample used) and sample characteristics (e.g., amount of solids in the sample).
LOQ_ACS	LOQ_ACS = Limit of Quantitation as defined by the American Chemical Society (ACS) and is roughly equivalent to the ML in numerical terms.
LOQ_ACS_sa	LOQ_ACS_sa = Sample adjusted LOQ_ACS. This is the LOQ_ACS adjusted for variable method conditions (e.g., dilutions or amount of sample used) and sample characteristics (e.g., amount of solids in the sample).
LOQ_QSM	LOQ_QSM = The Limit of Quantitation as defined by the Department of Defense (DOD) Quality System Manual (QSM) version under which the sample analysis is

Valid Values	Notes
	performed. This is the lowest concentration that produces a quantitative result within specified limits of precision and bias.
LOQ_QSM_sa	LOQ_QSM_sa = Sample adjusted LOQ_QSM. This is the LOQ_QSM adjusted for variable sample conditions (e.g., dilution or amount of sample used) and sample characteristics (e.g., amount of solids in the sample).
Lq	Lq = Quantitation Limit as defined by the International Union of Pure and Applied Chemistry (IUPAC) in conjunction with Currie.
Lq_sa	Lq_sa = Sample adjusted Lq. This is the Lq adjusted for variable method conditions (e.g., dilutions or amount of sample used) and sample characteristics (e.g., amount of solids in the sample).
PQL	PQL = Practical Quantitation Limit as defined by the US Environmental Protection Agency (USEPA) in 52FR 25690, July 8, 1987. This is an older term and is no longer being supported by EPA since no definitive procedure was published to determine its value.
PQL_sa	PQL_sa = Sample adjusted PQL. This is the PQL adjusted for variable method conditions (e.g., dilutions or amount of sample used) and sample characteristics (e.g., amount of solids in the sample).
EQL	EQL = Estimated Quantitation Limit as defined by the US Environmental Protection Agency (USEPA). This is an older term used in Chapter 1 of SW-846 and is related to the MDL but no definitive procedure was published to determine its value. The EQL often is represented by the lowest non-zero standard in the calibration curve.
EQL_sa	EQL_sa = Sample adjusted EQL. This is the EQL adjusted for variable method conditions (e.g., dilutions or amount of sample used) and sample characteristics (e.g., amount of solids in the sample).
Low_Standard	Low_Standard = The concentration of the lowest non-zero calibration standard used to establish the initial calibration curve.

ReportingLimitUnits

Valid Values	Notes
pg	pg = picogram
pg/uL	pg/uL = picograms per microliter
pg/mL	pg/mL = picograms per milliliter
pg/L	pg/L = picograms per liter
pg/mg	pg/mg = picograms per milligram
pg/g	pg/g = picograms per gram
pg/kg	pg/kg = picograms per kilogram
pg/cm2	pg/cm2 = picograms per square centimeter
pg/cm3	pg/cm3 = picograms per cubic centimeter
pg/m2	pg/m2 = picograms per square meter
pg/m3	pg/m3 = picograms per cubic meter
ng	ng = nanogram
ng/uL	ng/uL = nanograms per microliter
ng/mL	ng/mL = nanograms per milliliter
ng/L	ng/L = nanograms per liter
ng/mg	ng/mg = nanograms per milligram
ng/g	ng/g = nanograms per gram
ng/kg	ng/kg = nanograms per kilogram
ng/cm2	ng/cm2 = nanograms per square centimeter

Valid Values	Notes
ng/cm3	ng/cm3 = nanograms per cubic centimeter
ng/m2	ng/m2 = nanograms per square meter
ng/m3	ng/m3 = nanograms per cubic meter
ug	ug = microgram
ug/uL	ug/uL = micrograms per microliter
ug/mL	ug/mL = micrograms per milliliter
ug/L	ug/L = micrograms per liter
ug/mg	ug/mg = micrograms per milligram
ug/g	ug/g = micrograms per gram
ug/kg	ug/kg = micrograms per kilogram
ug/cm2	ug/cm2 = micrograms per square centimeter
ug/cm3	ug/cm3 = micrograms per cubic centimeter
ug/m2	ug/m2 = micrograms per square meter
ug/m3	ug/m3 = micrograms per cubic meter
mg	mg = milligram
mg/uL	mg/uL = milligrams per microliter
mg/mL	mg/mL = milligrams per milliliter
mg/L	mg/L = milligrams per liter
mg/mg	mg/mg = milligrams per milligram
mg/g	mg/g = milligrams per gram
mg/kg	mg/kg = milligrams per kilogram
mg/cm2	mg/cm2 = milligrams per square centimeter
mg/cm3	mg/cm3 = milligrams per cubic centimeter
mg/m2	mg/m2 = milligrams per square meter
mg/m3	mg/m3 – milligrams per cubic meter
g	g = gram
g/uL	g/uL = grams per microliter
g/mL	g/mL = grams per milliliter
g/L	g/L = grams per liter
g/mg	g/mg = grams per milligram
g/g	g/g = grams per gram
g/kg	g/kg = grams per kilogram
pL/mL	pL/mL = picoliters per milliliter
pL/L	pL/L = picoliters per liter
nL/mL	nL/mL = nanoliters per milliliter
nL/L	nL/L = nanoliters per liter
uL/mL	uL/mL = microliters per milliliter
uL/L	uL/L = microliters per liter
mL/L	mL/L = milliliters per liter
pBq	pBq = picobecquerel
pBq/uL	pBq/uL = picobecquerels per microliter
pBq/mL	pBq/mL = picobecquerels per milliliter
pBq/L	pBq/L = picobecquerels per liter
pBq/mg	pBq/mg = picobecquerels per milligram
pBq/g	pBq/g = picobecquerels per gram

Valid Values	Notes
pBq/kg	pBq/kg = picobecquerels per kilogram
pBq/cm2	pBq/cm2 = picobecquerels per square centimeter
pBq/cm3	pBq/cm3 = picobecquerels per cubic centimeter
pBq/m2	pBq/m2 = picobecquerels per square meter
pBq/m3	pBq/m3 = picobecquerels per cubic meter
nBq	nBq = nanobecquerel
nBq/uL	nBq/uL = nanobecquerels per microliter
nBq/mL	nBq/mL = nanobecquerels per milliliter
nBq/L	nBq/L = nanobecquerels per liter
nBq/mg	nBq/mg = nanobecquerels per milligram
nBq/g	nBq/g = nanobecquerels per gram
nBq/kg	nBq/kg = nanobecquerels per kilogram
nBq/cm2	nBq/cm2 = nanobecquerels per square centimeter
nBq/cm3	nBq/cm3 = nanobecquerels per cubic centimeter
nBq/m2	nBq/m2 = nanobecquerels per square meter
nBq/m3	nBq/m3 = nanobecquerels per cubic meter
uBq	uBq = microbecquerel
uBq/uL	uBq/uL = microbecquerels per microliter
uBq/mL	uBq/mL = microbecquerels per milliliter
uBq/L	uBq/L = microbecquerels per liter
uBq/mg	uBq/mg = microbecquerels per milligram
uBq/g	uBq/g = microbecquerels per gram
uBq/kg	uBq/kg = microbecquerels per kilogram
uBq/cm2	uBq/cm2 = microbecquerels per square centimeter
uBq/cm3	uBq/cm3 = microbecquerels per cubic centimeter
uBq/m2	uBq/m2 = microbecquerels per square meter
uBq/m3	uBq/m3 = microbecquerels per cubic meter
mBq	mBq = millibecquerel
mBq/uL	mBq/uL = millibecquerels per microliter
mBq/mL	mBq/mL = millibecquerels per milliliter
mBq/L	mBq/L = millibecquerels per liter
mBq/mg	mBq/mg = millibecquerels per milligram
mBq/g	mBq/g = millibecquerels per gram
mBq/kg	mBq/kg = millibecquerels per kilogram
mBq/cm2	mBq/cm2 = millibecquerels per square centimeter
mBq/cm3	mBq/cm3 = millibecquerels per cubic centimeter
mBq/m2	mBq/m2 = millibecquerels per square meter
mBq/m3	mBq/m3 = millibecquerels per cubic meter
Bq	Bq = becquerel
Bq/uL	Bq/uL = becquerels per microliter
Bq/mL	Bq/mL = becquerels per milliliter
Bq/L	Bq/L = becquerels per liter
Bq/mg	Bq/mg = becquerels per milligram
Bq/g	Bq/g = becquerels per gram
Bq/kg	Bq/kg = becquerels per kilogram

Valid Values	Notes
Bq/cm2	Bq/cm2 = becquerels per square centimeter
Bq/cm3	Bq/cm3 = becquerels per cubic centimeter
Bq/m2	Bq/m2 = becquerels per square meter
Bq/m3	Bq/m3 = becquerels per cubic meter
uSv	uSv = microsievert
uSv/s	uSv/s = microsieverts per second
uSv/min	uSv/min = microsieverts per minute
uSv/h	uSv/h = microsieverts per hour
uSv/d	uSv/d = microsieverts per day
mSv	mSv = millisievert
mSv/s	mSv/s = millisieverts per second
mSv/min	mSv/min = millisieverts per minute
mSv/h	mSv/h = millisieverts per hour
mSv/d	mSv/d = millisieverts per day
Sv	Sv = sievert
Sv/s	Sv/s = sieverts per second
Sv/min	Sv/min = sieverts per minute
Sv/h	Sv/h = sieverts per hour
Sv/d	Sv/d = sieverts per day
uGy	uGy = microgray
uGy/s	uGy/s = micrograys per second
uGy/min	uGy/min = microgray per minute
uGy/h	uGy/h = micrograys per hour
uGy/d	uGy/d = micrograys per day
mGy	mGy = milligray
mGy/s	mGy/s = milligrays per second
mGy/min	mGy/min = milligrays per minute
mGy/h	mGy/h = milligrays per hour
mGy/d	mGy/d = milligrays per day
Gy	Gy = gray
Gy/s	Gy/s = grays per second
Gy/min	Gy/min = grays per minute
Gy/h	Gy/h = grays per hour
Gy/d	Gy/d = grays per day

ResolutionLimitType

Valid Values
Client
Laboratory
Method
Vendor

ResolutionType

Valid Values
Peak Width at 5% Peak Height
Peak Width at 10% Peak Height

ResolutionUnits

Valid Values	Notes
u	u = Unified atomic mass units
Percent	

ResponseLimitType

Valid Values
Client
Laboratory
Method
Vendor

ResponseType

Valid Values	Notes
Corrected	Corrected
Corrected:Bkg;Blk;IEC;IS	This addresses what specific corrections were made to the response. This can include corrections for the Background (Bkg), Calibration Blank (Blk), Interfering Analyte(s) (IEC), and/or Internal Standard(s) (IS). Any combination of these correction terms can be used, with each correction type separated by a ';'.
Not_Corrected	Not Corrected

ResponseUnits

Valid Values	Notes
Peak_Height	
Peak_Area	
Abundance	
Absorbance	
uAbsorbance	
Counts	
Pulse_Counting_ICPS	Pulse_Counting_ICPS = Pulse Counting Intensity Counts Per Second
Analog_ICPS	Analog_ICPS = Analog Intensity Counts Per Second

ResultBasis

Valid Values	Notes
Dry	The solid result is being reported on a 'Dry'-weight basis, corrected for moisture.
Wet	The solid result is being reported on a 'Wet'-weight basis, uncorrected for moisture.
Total	The aqueous result is being reported on a 'Total' basis, and was analyzed as collected.
Dissolved	The aqueous result is being reported on a 'Dissolved' basis, and was analyzed after it was filtered.
Leachate	The aqueous result is being reported on a "Leachate" basis from a solid sample extracted by TCLP, SPLP, etc.

ResultLimitType

Valid Values
Client
Laboratory
Method
Vendor

ResultType

Valid Values	Notes
=	The analyte has been detected and its concentration is equal to the value reported.
Greater_Than	The analyte has been detected and its concentration is greater than the value reported.
Less_Than	The analyte has been detected and its concentration is less than the value reported. Also used for Estimated Maximum Possible Concentration (EMPC)
Not_Detected	
Pass	
Fail	
Positive	
Negative	
Present	
Absent	
Not_Required	

ResultUncertaintyIntervalType

Valid Values	Notes
Symmetric_Interval	This interval is centered on the Result.
Other_Interval	This interval includes the Result.

ResultUncertaintyType

Valid Values	Notes
Category A	The estimate of the ResultUncertainty is directly determined using a statistically-based method.
Category B	The estimate of the ResultUncertainty is directly determined using some other method.

ResultUncertaintyUnits

Valid Values	Notes
pg	pg = picogram
pg/uL	pg/uL = picograms per microliter
pg/mL	pg/mL = picograms per milliliter
pg/L	pg/L = picograms per liter
pg/mg	pg/mg = picograms per milligram
pg/g	pg/g = picograms per gram
pg/kg	pg/kg = picograms per kilogram
pg/cm2	pg/cm2 = picograms per square centimeter
pg/cm3	pg/cm3 = picograms per cubic centimeter
pg/m2	pg/m2 = picograms per square meter
pg/m3	pg/m3 = picograms per cubic meter
ng	ng = nanogram
ng/uL	ng/uL = nanograms per microliter
ng/mL	ng/mL = nanograms per milliliter
ng/L	ng/L = nanograms per liter
ng/mg	ng/mg = nanograms per milligram
ng/g	ng/g = nanograms per gram
ng/kg	ng/kg = nanograms per kilogram
ng/cm2	ng/cm2 = nanograms per square centimeter
ng/cm3	ng/cm3 = nanograms per cubic centimeter
ng/m2	ng/m2 = nanograms per square meter
ng/m3	ng/m3 = nanograms per cubic meter
ug	ug = microgram
ug/uL	ug/uL = micrograms per microliter
ug/mL	ug/mL = micrograms per milliliter
ug/L	ug/L = micrograms per liter
ug/mg	ug/mg = micrograms per milligram
ug/g	ug/g = micrograms per gram
ug/kg	ug/kg = micrograms per kilogram
ug/cm2	ug/cm2 = micrograms per square centimeter
ug/cm3	ug/cm3 = micrograms per cubic centimeter
ug/m2	ug/m2 = micrograms per square meter
ug/m3	ug/m3 = micrograms per cubic meter
mg	mg = milligram
mg/uL	mg/uL = milligrams per microliter
mg/mL	mg/mL = milligrams per milliliter

Valid Values	Notes
mg/L	mg/L = milligrams per liter
mg/mg	mg/mg = milligrams per milligram
mg/g	mg/g = milligrams per gram
mg/kg	mg/kg = milligrams per kilogram
mg/cm2	mg/cm2 = milligrams per square centimeter
mg/cm3	mg/cm3 = milligrams per cubic centimeter
mg/m2	mg/m2 = milligrams per square meter
mg/m3	mg/m3 - milligrams per cubic meter
g	g = gram
g/uL	g/uL = grams per microliter
g/mL	g/mL = grams per milliliter
g/L	g/L = grams per liter
g/mg	g/mg = grams per milligram
g/g	g/g = grams per gram
g/kg	g/kg = grams per kilogram
pL/mL	pL/mL = picoliters per milliliter
pL/L	pL/L = picoliters per liter
nL/mL	nL/mL = nanoliters per milliliter
nL/L	nL/L = nanoliters per liter
uL/mL	uL/mL = microliters per milliliter
uL/L	uL/L = microliters per liter
mL/L	mL/L = milliliters per liter
pBq	pBq = picobecquerel
pBq/uL	pBq/uL = picobecquerels per microliter
pBq/mL	pBq/mL = picobecquerels per milliliter
pBq/L	pBq/L = picobecquerels per liter
pBq/mg	pBq/mg = picobecquerels per milligram
pBq/g	pBq/g = picobecquerels per gram
pBq/kg	pBq/kg = picobecquerels per kilogram
pBq/cm2	pBq/cm2 = picobecquerels per square centimeter
pBq/cm3	pBq/cm3 = picobecquerels per cubic centimeter
pBq/m2	pBq/m2 = picobecquerels per square meter
pBq/m3	pBq/m3 = picobecquerels per cubic meter
nBq	nBq = nanobecquerel
nBq/uL	nBq/uL = nanobecquerels per microliter
nBq/mL	nBq/mL = nanobecquerels per milliliter
nBq/L	nBq/L = nanobecquerels per liter
nBq/mg	nBq/mg = nanobecquerels per milligram
nBq/g	nBq/g = nanobecquerels per gram
nBq/kg	nBq/kg = nanobecquerels per kilogram
nBq/cm2	nBq/cm2 = nanobecquerels per square centimeter
nBq/cm3	nBq/cm3 = nanobecquerels per cubic centimeter
nBq/m2	nBq/m2 = nanobecquerels per square meter
nBq/m3	nBq/m3 = nanobecquerels per cubic meter
uBq	uBq = microbecquerel

Valid Values	Notes
uBq/uL	uBq/uL = microbecquerels per microliter
uBq/mL	uBq/mL = microbecquerels per milliliter
uBq/L	uBq/L = microbecquerels per liter
uBq/mg	uBq/mg = microbecquerels per milligram
uBq/g	uBq/g = microbecquerels per gram
uBq/kg	uBq/kg = microbecquerels per kilogram
uBq/cm2	uBq/cm2 = microbecquerels per square centimeter
uBq/cm3	uBq/cm3 = microbecquerels per cubic centimeter
uBq/m2	uBq/m2 = microbecquerels per square meter
uBq/m3	uBq/m3 = microbecquerels per cubic meter
mBq	mBq = millibecquerel
mBq/uL	mBq/uL = millibecquerels per microliter
mBq/mL	mBq/mL = millibecquerels per milliliter
mBq/L	mBq/L = millibecquerels per liter
mBq/mg	mBq/mg = millibecquerels per milligram
mBq/g	mBq/g = millibecquerels per gram
mBq/kg	mBq/kg = millibecquerels per kilogram
mBq/cm2	mBq/cm2 = millibecquerels per square centimeter
mBq/cm3	mBq/cm3 = millibecquerels per cubic centimeter
mBq/m2	mBq/m2 = millibecquerels per square meter
mBq/m3	mBq/m3 = millibecquerels per cubic meter
Bq	Bq = becquerel
Bq/uL	Bq/uL = becquerels per microliter
Bq/mL	Bq/mL = becquerels per milliliter
Bq/L	Bq/L = becquerels per liter
Bq/mg	Bq/mg = becquerels per milligram
Bq/g	Bq/g = becquerels per gram
Bq/kg	Bq/kg = becquerels per kilogram
Bq/cm2	Bq/cm2 = becquerels per square centimeter
Bq/cm3	Bq/cm3 = becquerels per cubic centimeter
Bq/m2	Bq/m2 = becquerels per square meter
Bq/m3	Bq/m3 = becquerels per cubic meter
uSv	uSv = microsievert
uSv/s	uSv/s = microsieverts per second
uSv/min	uSv/min = microsieverts per minute
uSv/h	uSv/h = microsieverts per hour
uSv/d	uSv/d = microsieverts per day
mSv	mSv = millisievert
mSv/s	mSv/s = millisieverts per second
mSv/min	mSv/min = millisieverts per minute
mSv/h	mSv/h = millisieverts per hour
mSv/d	mSv/d = millisieverts per day
Sv	Sv = sievert
Sv/s	Sv/s = sieverts per second
Sv/min	Sv/min = sieverts per minute

Valid Values	Notes
Sv/h	Sv/h = sieverts per hour
Sv/d	Sv/d = sieverts per day
uGy	uGy = microgray
uGy/s	uGy/s = micrograys per second
uGy/min	uGy/min = micrograys per minute
uGy/h	uGy/h = micrograys per hour
uGy/d	uGy/d = micrograys per day
mGy	mGy = milligray
mGy/s	mGy/s = milligrays per second
mGy/min	mGy/min = milligrays per minute
mGy/h	mGy/h = milligrays per hour
mGy/d	mGy/d = milligrays per day
Gy	Gy = gray
Gy/s	Gy/s = grays per second
Gy/min	Gy/min = grays per minute
Gy/h	Gy/h = grays per hour
Gy/d	Gy/d = grays per day

ResultUnits

Valid Values	Notes
pg	pg = picogram
pg/uL	pg/uL = picograms per microliter
pg/mL	pg/mL = picograms per milliliter
pg/L	pg/L = picograms per liter
pg/mg	pg/mg = picograms per milligram
pg/g	pg/g = picograms per gram
pg/kg	pg/kg = picograms per kilogram
pg/cm2	pg/cm2 = picograms per square centimeter
pg/cm3	pg/cm3 = picograms per cubic centimeter
pg/m2	pg/m2 = picograms per square meter
pg/m3	pg/m3 = picograms per cubic meter
ng	ng = nanogram
ng/uL	ng/uL = nanograms per microliter
ng/mL	ng/mL = nanograms per milliliter
ng/L	ng/L = nanograms per liter
ng/mg	ng/mg = nanograms per milligram
ng/g	ng/g = nanograms per gram
ng/kg	ng/kg = nanograms per kilogram
ng/cm2	ng/cm2 = nanograms per square centimeter
ng/cm3	ng/cm3 = nanograms per cubic centimeter
ng/m2	ng/m2 = nanograms per square meter
ng/m3	ng/m3 = nanograms per cubic meter
ug	ug = microgram
ug/uL	ug/uL = micrograms per microliter

Valid Values	Notes
ug/mL	ug/mL = micrograms per milliliter
ug/L	ug/L = micrograms per liter
ug/mg	ug/mg = micrograms per milligram
ug/g	ug/g = micrograms per gram
ug/kg	ug/kg = micrograms per kilogram
ug/cm2	ug/cm2 = micrograms per square centimeter
ug/cm3	ug/cm3 = micrograms per cubic centimeter
ug/m2	ug/m2 = micrograms per square meter
ug/m3	ug/m3 = micrograms per cubic meter
mg	mg = milligram
mg/uL	mg/uL = milligrams per microliter
mg/mL	mg/mL = milligrams per milliliter
mg/L	mg/L = milligrams per liter
mg/mg	mg/mg = milligrams per milligram
mg/g	mg/g = milligrams per gram
mg/kg	mg/kg = milligrams per kilogram
mg/cm2	mg/cm2 = milligrams per square centimeter
mg/cm3	mg/cm3 = milligrams per cubic centimeter
mg/m2	mg/m2 = milligrams per square meter
mg/m3	mg/m3 – milligrams per cubic meter
g	g = gram
g/uL	g/uL = grams per microliter
g/mL	g/mL = grams per milliliter
g/L	g/L = grams per liter
g/mg	g/mg = grams per milligram
g/g	g/g = grams per gram
g/kg	g/kg = grams per kilogram
pL/mL	pL/mL = picoliters per milliliter
pL/L	pL/L = picoliters per liter
nL/mL	nL/mL = nanoliters per milliliter
nL/L	nL/L = nanoliters per liter
uL/mL	uL/mL = microliters per milliliter
uL/L	uL/L = microliters per liter
mL/L	mL/L = milliliters per liter
pBq	pBq = picobecquerel
pBq/uL	pBq/uL = picobecquerels per microliter
pBq/mL	pBq/mL = picobecquerels per milliliter
pBq/L	pBq/L = picobecquerels per liter
pBq/mg	pBq/mg = picobecquerels per milligram
pBq/g	pBq/g = picobecquerels per gram
pBq/kg	pBq/kg = picobecquerels per kilogram
pBq/cm2	pBq/cm2 = picobecquerels per square centimeter
pBq/cm3	pBq/cm3 = picobecquerels per cubic centimeter
pBq/m2	pBq/m2 = picobecquerels per square meter
pBq/m3	pBq/m3 = picobecquerels per cubic meter

Valid Values	Notes
nBq	nBq = nanobecquerel
nBq/uL	nBq/uL = nanobecquerels per microliter
nBq/mL	nBq/mL = nanobecquerels per milliliter
nBq/L	nBq/L = nanobecquerels per liter
nBq/mg	nBq/mg = nanobecquerels per milligram
nBq/g	nBq/g = nanobecquerels per gram
nBq/kg	nBq/kg = nanobecquerels per kilogram
nBq/cm2	nBq/cm2 = nanobecquerels per square centimeter
nBq/cm3	nBq/cm3 = nanobecquerels per cubic centimeter
nBq/m2	nBq/m2 = nanobecquerels per square meter
nBq/m3	nBq/m3 = nanobecquerels per cubic meter
uBq	uBq = microbecquerel
uBq/uL	uBq/uL = microbecquerels per microliter
uBq/mL	uBq/mL = microbecquerels per milliliter
uBq/L	uBq/L = microbecquerels per liter
uBq/mg	uBq/mg = microbecquerels per milligram
uBq/g	uBq/g = microbecquerels per gram
uBq/kg	uBq/kg = microbecquerels per kilogram
uBq/cm2	uBq/cm2 = microbecquerels per square centimeter
uBq/cm3	uBq/cm3 = microbecquerels per cubic centimeter
uBq/m2	uBq/m2 = microbecquerels per square meter
uBq/m3	uBq/m3 = microbecquerels per cubic meter
mBq	mBq = millibecquerel
mBq/uL	mBq/uL = millibecquerels per microliter
mBq/mL	mBq/mL = millibecquerels per milliliter
mBq/L	mBq/L = millibecquerels per liter
mBq/mg	mBq/mg = millibecquerels per milligram
mBq/g	mBq/g = millibecquerels per gram
mBq/kg	mBq/kg = millibecquerels per kilogram
mBq/cm2	mBq/cm2 = millibecquerels per square centimeter
mBq/cm3	mBq/cm3 = millibecquerels per cubic centimeter
mBq/m2	mBq/m2 = millibecquerels per square meter
mBq/m3	mBq/m3 = millibecquerels per cubic meter
Bq	Bq = becquerel
Bq/uL	Bq/uL = becquerels per microliter
Bq/mL	Bq/mL = becquerels per milliliter
Bq/L	Bq/L = becquerels per liter
Bq/mg	Bq/mg = becquerels per milligram
Bq/g	Bq/g = becquerels per gram
Bq/kg	Bq/kg = becquerels per kilogram
Bq/cm2	Bq/cm2 = becquerels per square centimeter
Bq/cm3	Bq/cm3 = becquerels per cubic centimeter
Bq/m2	Bq/m2 = becquerels per square meter
Bq/m3	Bq/m3 = becquerels per cubic meter
uSv	uSv = microsievert

Valid Values	Notes
uSv/s	uSv/s = microsieverts per second
uSv/min	uSv/min = microsieverts per minute
uSv/h	uSv/h = microsieverts per hour
uSv/d	uSv/d = microsieverts per day
mSv	mSv = millisievert
mSv/s	mSv/s = millisieverts per second
mSv/min	mSv/min = millisieverts per minute
mSv/h	mSv/h = millisieverts per hour
mSv/d	mSv/d = millisieverts per day
Sv	Sv = sievert
Sv/s	Sv/s = sieverts per second
Sv/min	Sv/min = sieverts per minute
Sv/h	Sv/h = sieverts per hour
Sv/d	Sv/d = sieverts per day
uGy	uGy = microgray
uGy/s	uGy/s = micrograys per second
uGy/min	uGy/min = micrograys per minute
uGy/h	uGy/h = micrograys per hour
uGy/d	uGy/d = micrograys per day
mGy	mGy = milligray
mGy/s	mGy/s = milligrays per second
mGy/min	mGy/min = milligrays per minute
mGy/h	mGy/h = milligrays per hour
mGy/d	mGy/d = milligrays per day
Gy	Gy = gray
Gy/s	Gy/s = grays per second
Gy/min	Gy/min = grays per minute
Gy/h	Gy/h = grays per hour
Gy/d	Gy/d = grays per day

RetentionTimeLimitType

Valid Values
Client
Laboratory
Method
Vendor

RetentionTimeUnits

Valid Values	Notes
ms	ms = millisecond
s	s = second
min	min = minute, may be decimal minutes
h	h = hour
d	d = day

RPDLimitType

Valid Values
Client
Laboratory
Method
Vendor

RPDType

Valid Values
Not_Calculable

RRFLimitType

Valid Values
Client
Laboratory
Method
Vendor

SampleAmountUnits

Valid Values	Notes
uL	uL = microliter
mL	mL = milliliter
L	L = liter
cm2	cm2 = square centimeter
cm3	cm3 = cubic centimeter
m2	m2 = square meter
m3	m3 = cubic meter
ug	ug = microgram
mg	mg = milligram
g	g = gram
kg	kg = kilogram

StandardConcentrationUnits

Valid Values	Notes
pg	pg = picogram
pg/uL	pg/uL = picograms per microliter
pg/mL	pg/mL = picograms per milliliter
pg/L	pg/L = picograms per liter
pg/mg	pg/mg = picograms per milligram
pg/g	pg/g = picograms per gram
pg/kg	pg/kg = picograms per kilogram
pg/cm2	pg/cm2 = picograms per square centimeter
pg/cm3	pg/cm3 = picograms per cubic centimeter

Valid Values	Notes
pg/m2	pg/m2 = picograms per square meter
pg/m3	pg/m3 = picograms per cubic meter
ng	ng = nanogram
ng/uL	ng/uL = nanograms per microliter
ng/mL	ng/mL = nanograms per milliliter
ng/L	ng/L = nanograms per liter
ng/mg	ng/mg = nanograms per milligram
ng/g	ng/g = nanograms per gram
ng/kg	ng/kg = nanograms per kilogram
ng/cm2	ng/cm2 = nanograms per square centimeter
ng/cm3	ng/cm3 = nanograms per cubic centimeter
ng/m2	ng/m2 = nanograms per square meter
ng/m3	ng/m3 = nanograms per cubic meter
ug	ug = microgram
ug/uL	ug/uL = micrograms per microliter
ug/mL	ug/mL = micrograms per milliliter
ug/L	ug/L = micrograms per liter
ug/mg	ug/mg = micrograms per milligram
ug/g	ug/g = micrograms per gram
ug/kg	ug/kg = micrograms per kilogram
ug/cm2	ug/cm2 = micrograms per square centimeter
ug/cm3	ug/cm3 = micrograms per cubic centimeter
ug/m2	ug/m2 = micrograms per square meter
ug/m3	ug/m3 = micrograms per cubic meter
mg	mg = milligram
mg/uL	mg/uL = milligrams per microliter
mg/mL	mg/mL = milligrams per milliliter
mg/L	mg/L = milligrams per liter
mg/mg	mg/mg = milligrams per milligram
mg/g	mg/g = milligrams per gram
mg/kg	mg/kg = milligrams per kilogram
mg/cm2	mg/cm2 = milligrams per square centimeter
mg/cm3	mg/cm3 = milligrams per cubic centimeter
mg/m2	mg/m2 = milligrams per square meter
mg/m3	mg/m3 - milligrams per cubic meter
g	g = gram
g/uL	g/uL = grams per microliter
g/mL	g/mL = grams per milliliter
g/L	g/L = grams per liter
g/mg	g/mg = grams per milligram
g/g	g/g = grams per gram
g/kg	g/kg = grams per kilogram
pL/mL	pL/mL = picoLiters per milliLiter
pL/L	pL/L = picoLiters per Liter
nL/mL	nL/mL = nanoLiters per milliLiter

Valid Values	Notes
nL/L	nL/L = nanoLiters per Liter
uL/mL	uL/mL = microLiters per milliLiter
uL/L	uL/L = microLiters per Liter
mL/L	mL/L = milliLiters per Liter

StandardFinalAmountUnits

Valid Values	Notes
uL	uL = microliter
mL	mL = milliliter
L	L = liter
cm2	cm2 = square centimeter
cm3	cm3 = cubic centimeter
m2	m2 = square meter
m3	m3 = cubic meter
pg	pg = picogram
ng	ng = nanogram
ug	ug = microgram
mg	mg = milligram
g	g = gram
kg	kg = kilogram

TailingFactorLimitType

Valid Values
Client
Laboratory
Method
Vendor

TemperatureUnits

Valid Values	Notes
C	C = Celsius
K	K = Kelvin
F	F = Fahrenheit

WavelengthUnits

Valid Values	Notes
nm	nm = nanometer
Angstroms	

WeightingFactor

Valid Values	Notes
None	To be used under the AnalysisGroup node only.
Inverse_Of_Concentration	To be used under the AnalysisGroup node only.
Inverse_Square_Of_Concentration	To be used under the AnalysisGroup node only.
Variance	To be used under the AnalysisGroup node only.
Inverse_Of_Variance	To be used under the AnalysisGroup node only.
Standard_Deviation	To be used under the AnalysisGroup node only.
Inverse_Of_Standard_Deviation	To be used under the AnalysisGroup node only.
Inverse_Square_Of_Standard_Deviation	To be used under the AnalysisGroup node only.
Manual	To be used under the AnalysisGroup node only. When this value is used, the specific WeightingFactor used should be reported in the appropriate Analyte or Peak node.