

ANSI Compliant Measurement Information and Measured Volume Audit Statement Working Document

Discussed at the following meetings:

- 05/03/2000
- 06/23/2000
- 06/28/2000 (move Meter ID in conjunction with R98013)
- 08/11/2000
- 09/08/2000 (change P1 to 41 and add segment notes to PER)

mapped to ASC X12 867; used version 4030 as a base X12 standard

GISB Measurement Information (2.4.5)

Position	Segment	Element	ANSI req des / max use	Literal contents or GISB data element name (and usage)	GISB segment/element note [or other comments]	ANSI data type	GISB Min/ Max *
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Heading:

0100	ST		M/1				
0200	BPT		M/1				
		BPT01 - 353	M	00-Original		ID	2/2
		BPT03 - 373	M		The date the statement was generated.	DT	8/8
		BPT04 - 755	O	MV - Metered Volumes		ID	2/2
0500	DTM		O/10	(1st occurrence)	For GISB, this segment is mandatory.		
		DTM01 - 374	M	434 - Statement		ID	3/3
		DTM05 - 1250	X	DT - CCYYMMDDHHMM	mark as must use	ID	2/3
		DTM06 - 1251	X	Statement Date/Time (M)	mark as must use	AN	1/35
0500	DTM			(2nd occurrence)			
		DTM01 - 374	M	582		ID	3/3
		DTM05 - 1250	X	CM - CCYYMM	mark as must use	ID	2/3
		DTM06 - 1251	X	Accounting Period (SO)	mark as must use	AN	1/35
		N1 loop	5	(1st occurrence)			
0800	N1		O/1				
		N101 - 98	M	41 - Submitter		ID	2/3
		N103 - 66	X	1	mark as must use	ID	1/2
		N104 - 67	X	Preparer ID (M)	mark as must use	AN	2/17 *
		PER loop	>1				

ANSI Compliant Measurement Information and Measured Volume Audit Statement Working Document

Position	Segment	Element	ANSI req des / max use	Literal contents or GISB data element name (and usage)	GISB segment/element note [or other comments]	ANSI data type	GISB Min/ Max *
1300	PER				For GISB, this segment may only be used in the N1 loop for the Preparer ID (N101 = '41').		
		PER01 - 366	M	IC		ID	2/2
		PER02 - 93	O	Contact Person (Name) (M)	mark as must use	AN	1/35 *
		PER03 - 365	X	TE	mark as must use	ID	2/2
		PER04 - 364	X	Contact Person (Phone) (M)	mark as must use	AN	1/80 *
		N1 loop	5	(2nd occurrence)			
0800	N1		O/1				
		N101 - 98	M	40		ID	2/3
		N103 - 66	X	1	mark as must use	ID	1/2
		N104 - 67	X	Statement Recipient ID (M)	mark as must use	AN	2/17 *
Detail							
		PTD loop	>1				
0100	PTD		M/1				
		PTD01 - 521	M	FG		ID	2/2
pending	LCD		O/2	(1st occurrence)	[LCD on DMR 16] mark as must use		
		LCD02 - 98	O	LCN- Gas Nomination Location	mark as must use	ID	2/3
		LCD05 - 66	X	DR - GISB PI/DRN SV - TSP proprietary code	mark as must use [use same element and code value notes as in SQOP]	ID	1/2
		LCD06 - 67	X	Location/Location Proprietary Code (M)	mark as must use	AN	2/17 *
pending	LCD		O/2	(2nd occurrence)	[LCD on DMR 16] mark as must use		
		LCD02 - 98	O	MTR - Meter	[MTR code new DMR 18] mark as must use	ID	2/3
		LCD05 - 66	X	SV - service provider number	mark as must use	ID	1/2
		LCD06 - 67	X	Meter ID (SO)	[pending with R98068] mark as must use	AN	2/17 *

ANSI Compliant Measurement Information and Measured Volume Audit Statement Working Document

Position	Segment	Element	ANSI req des / max use	Literal contents or GISB data element name (and usage)	GISB segment/element note [or other comments]	ANSI data type	GISB Min/ Max *
pending	LQ		O/>1		[LQ on DMR 16]		
		LQ01-1270	O	EAR - Statement Basis	[on x12dmr10] mark as must use	ID	1/3
		LQ02-1271	X	Statement Basis (M) AC, ES, RV	mark as must use	AN	1/30
Sub-detail							
		QTY loop	>1				
1100	QTY		O/1				
		QTY01-673	M	H3 - Energy Quantity	[on x12dmr12] mark as must use	ID	2/2
		QTY02-380	X	Energy Quantity (M)	mark as must use	R	1/15
1600	MEA		O/40				
		MEA03-739	O	Measured Volume (M)	mark as must use	R	1/10 *
		MEA04-355	X	TZ	mark as must use	ID	2/2
2100	DTM						
		DTM01 - 374	M	405 - Production		ID	3/3
		DTM05 - 1250	X	RD8 - CCYYMMDD- CCYYMMDD RDT - CCYYMMDDHHMM- CCYYMMDDHHMM	mark as must use	ID	2/3
		DTM06 - 1251	X	Beginning Flow Date, Beginning Flow Time, Ending Flow Date, Ending Flow Time (M)	mark as must use	AN	1/35
		LM loop	>1				
2600	LM		O/1				
		LM01-559	M	GI - GISB	[GI new DMR 17]	ID	2/2
2700	LQ		O/100				
		LQ01-1270	O	AJT - Adjustment Type	[AJT on DMR 10] mark as must use	ID	1/3

ANSI Compliant Measurement Information and Measured Volume Audit Statement Working Document

Position	Segment	Element	ANSI req des / max use	Literal contents or GISB data element name (and usage)	GISB segment/element note [or other comments]	ANSI data type	GISB Min/ Max *
		LQ02-1271	X	Adjustment Type (C) ARN, BEQ, DEE, ECF, EQC, ERA, ICA, ICT, IEC, IGQ, IGS, IPI, LNS, MCN, MEF, MNB, MVC, QRL, VEN	mark as must use	AN	1/30
SE	SE		M/1				

* GISB Min/Max column will contain an * when the GISB values are different than the ANSI ASC X12 values

New items pending from DISA for other documents that also affect this document:

in DMR 10:

Add the following new code values and definitions to data element 1270 and link to Code Source 293 (Gas Industry Standards Board (GISB)):

- AJT - Adjustment Type
- EAR - Statement Basis

New items requested from DISA in conjunction with this document:

DMR 12:

(add to existing DMR 12 which contains new code values for other documents)

new code values and definitions for data element 673

- H3 - Energy Quantity

DMR 16:

add LCD segment to Table 1, usage Optional, Max Use 2

add LCD segment to Table 2, PTD loop position 0100, usage Optional, Max Use 2

add LQ segment to Table 2, PTD loop position 0100, usage Optional, Max Use >1

DMR 17:

LM01 (559) for GISB:

- GI - Gas Industry Standards Board (GISB)

ANSI Compliant Measurement Information and Measured Volume Audit Statement Working Document

DMR 18:

new code values and definitions for data element 98 (used in LCD02):

MTR - Meter

ANSI Compliant Measurement Information and Measured Volume Audit Statement Working Document

GISB Measured Volume Audit Statement (2.4.6)

Position	Segment	Element	ANSI req des / max use	Literal contents or GISB data element name (and usage)	GISB segment/element note [or other comments]	ANSI data type	GISB Min/ Max *
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Heading:

0100	ST		M/1				
0200	BPT		M/1				
		BPT01 - 353	M	Statement Type (M) 00, 05, 14		ID	2/2
		BPT03 - 373	M		The measured volume audit statement issue date.	DT	8/8
		BPT04 - 755	O	R5 - Technical Information		ID	2/2
0500	DTM		O/10		For GISB, this segment is mandatory.		
		DTM01 - 374	M	434 - Statement		ID	3/3
		DTM05 - 1250	X	DT - CCYYMMDDHHMM	mark as must use	ID	2/3
		DTM06 - 1251	X	Statement Date/Time (M)	mark as must use	AN	1/35
700	PER						
		PER01 - 366	M	IC		ID	2/2
		PER02 - 93	O	Contact Person (Name) (M)	mark as must use	AN	1/35 *
		PER03 - 365	X	TE	mark as must use	ID	2/2
		PER04 - 364	X	Contact Person (Phone) (M)	mark as must use	AN	1/80 *
pend- ing	LCD		O/2	(1st occurrence)	[LCD on DMR 16]		
		LCD02 - 98	O	LCN- Location	mark as must use	ID	2/3
		LCD05 - 66	X	DR - GISB PI/DRN	mark as must use	ID	1/2
		LCD06 - 67	X	PI Data Reference Number (M)	mark as must use	AN	2/17 *
pend- ing	LCD		O/2	(2nd occurrence)	[LCD on DMR 16]		
		LCD02 - 98	O	RL - Reporting Location	mark as must use	ID	2/3
		LCD05 - 66	X	SV - proprietary number	mark as must use	ID	1/2
		LCD06 - 67	X	Device Station Number (M)	mark as must use	AN	2/17 *
		N1 loop	5	(1st occurrence)			
0800	N1		O/1				
		N101 - 98	M	DW		ID	2/3
		N103 - 66	X	1	mark as must use	ID	1/2

ANSI Compliant Measurement Information and Measured Volume Audit Statement Working Document

Position	Segment	Element	ANSI req des / max use	Literal contents or GISB data element name (and usage)	GISB segment/element note [or other comments]	ANSI data type	GISB Min/ Max *
		N104 - 67	X	Downstream Party (SO)	mark as must use	AN	2/17 *
		N1 loop	5	(2nd occurrence)			
0800	N1		O/1				
		N101 - 98	M	US		ID	2/3
		N103 - 66	X	1	mark as must use	ID	1/2
		N104 - 67	X	Upstream Party (SO)	mark as must use	AN	2/17 *
		N1 loop	5	(3rd occurrence)			
0800	N1		O/1				
		N101 - 98	M	OP		ID	2/3
		N103 - 66	X	1	mark as must use	ID	1/2
		N104 - 67	X	Meter Operator (SO)	mark as must use	AN	2/17 *
Detail							
		PTD loop	>1				
0100	PTD		M/1				
		PTD01 - 521	M	FG - Flowing Gas Information		ID	2/2
0200	DTM		O/10		For GISB, this segment is mandatory.		
		DTM01 - 374	M	007 - Effective		ID	3/3
		DTM05 - 1250	X	D8 - CCYYMMDD	mark as must use	ID	2/3
		DTM06 - 1251	X	Physical Meter Effective Date (M)	mark as must use	AN	1/35
0300	REF		O/20		For GISB, this segment is conditional		
		REF01 - 128	M	CHR - Chromatograph Identifier	[new DMR 20] mark as must use	ID	2/3
		REF02 - 127	X	Chromatograph (C)	mark as must use	AN	1/30*
pend- ing	LCD		O/2		LCD on DMR 16]		
		LCD02 - 98	O	MTR - Meter	[on DMR 18] mark as must use	ID	2/3
		LCD05 - 66	X	SV - service provider number	mark as must use	ID	1/2
		LCD06 - 67	X	Meter ID (M)	mark as must use	AN	2/17 *
pend- ing	LQ		O/>1	(1st occurrence)	For GISB, this segment is mandatory		

ANSI Compliant Measurement Information and Measured Volume Audit Statement Working Document

Position	Segment	Element	ANSI req des / max use	Literal contents or GISB data element name (and usage)	GISB segment/element note [or other comments]	ANSI data type	GISB Min/ Max *
		LQ01-1270	O	MT - Meter Type	[new DMR 21] mark as must use	ID	1/3
		LQ02-1271	X	Meter Type (M) OC, OM, DC, DM, FD	mark as must use	AN	1/30
pending	LQ		O/>1	(2nd occurrence)			
		LQ01-1270	O	MS - Meter Status	[new DMR 21] mark as must use	ID	1/3
		LQ02-1271	X	Meter Status (M) A, R, S	mark as must use	AN	1/30
pending	LQ		O/>1	(3rd occurrence)			
		LQ01-1270	O	TL - Tap Location	[new DMR 21] mark as must use	ID	1/3
		LQ02-1271	X	Tap Location (C) DT, UT	mark as must use	AN	1/30
pending	LQ		O/>1	(4th occurrence)			
		LQ01-1270	O	TA - Tap Type	[new DMR 21] mark as must use	ID	1/3
		LQ02-1271	X	Tap Type (C) PT, FT	mark as must use	AN	1/30
pending	MEA		O/>1	(1st occurrence)	[MEA new DMR 19]		
		MEA02 - 738	O	DLC - Dial Count	[new DMR 19] mark as must use	ID	1/3
		MEA03 - 739	X	Number Dials (C)	mark as must use	R	1/10 *
pending	MEA		O/>1	(2nd occurrence)			
		MEA02 - 738	O	VOL - Volume	mark as must use	ID	1/3
		MEA03 - 739	X	Volume Cycle (C)	mark as must use	R	1/10 *
pending	MEA		O/>1	(3rd occurrence)			
		MEA02 - 738	O	PU - Pressure Base	mark as must use	ID	1/3
		MEA03 - 739	X	Reporting Pressure Base (M)	mark as must use	R	1/10 *

ANSI Compliant Measurement Information and Measured Volume Audit Statement Working Document

Position	Segment	Element	ANSI req des / max use	Literal contents or GISB data element name (and usage)	GISB segment/element note [or other comments]	ANSI data type	GISB Min/ Max *
		MEA04 - 355	X	64, 80, KQ	mark as must use	ID	2/2
pending	MEA		O/>1	(4th occurrence)			
		MEA02 - 738	O	TC - Temperature	mark as must use	ID	1/3
		MEA04 - 355	X	CE, FA	mark as must use	ID	2/2
		MEA05 - 740	X	Temperature Range Minimum (SO)		R	1/10 *
		MEA06 - 741	X	Temperature Range Maximum (SO)		R	1/10 *
pending	MEA		O/>1	(5th occurrence)			
		MEA02 - 738	O	S9 - Site Atmospheric Pressure	mark as must use	ID	1/3
		MEA03 - 739	X	Atmospheric Pressure (SO)	mark as must use	R	1/10 *
		MEA04 - 355	X	80, KQ	mark as must use	ID	2/2
pending	MEA		O/>1	(6th occurrence)			
		MEA02 - 738	O	T2 - Tube - Inside Diameter	mark as must use	ID	1/3
		MEA03 - 739	X	Tube Inside Diameter (C)	mark as must use	R	1/10 *
		MEA04 - 355	X	E8, M2	mark as must use	ID	2/2
pending	MEA		O/>1	(7th occurrence)			
		MEA02 - 738	O	SPS - Static Pressure	mark as must use	ID	1/3
		MEA04 - 355	X	KQ, 64, 80	[pending R98013] mark as must use	ID	2/2
		MEA05 - 740	X	Minimum Static Pressure Range (SO)		R	1/10 *
		MEA06 - 741	X	Maximum Static Pressure Range (SO)		R	1/10 *
pending	MEA		O/>1	(8th occurrence)			
		MEA02 - 738	O	M2 - Maximum Differential Pressure	mark as must use	ID	1/3
		MEA03 - 739	X	Maximum Differential Pressure (C)	mark as must use	R	1/10 *

ANSI Compliant Measurement Information and Measured Volume Audit Statement Working Document

Position	Segment	Element	ANSI req des / max use	Literal contents or GISB data element name (and usage)	GISB segment/element note [or other comments]	ANSI data type	GISB Min/ Max *
		MEA04 - 355	X	KQ, PS, IF	[pending R98013] mark as must use	ID	2/2
pending	MEA		O/>1	(9th occurrence)			
		MEA02 - 738	O	O1 - Orifice - Inside Diameter	mark as must use	ID	1/3
		MEA03 - 739	X	Orifice Diameter (C)	mark as must use	R	1/10 *
		MEA04 - 355	X	E8, M2	mark as must use	ID	2/2
pending	MEA		O/>1	(10th occurrence)			
		MEA02 - 738	O	TT - Time	mark as must use	ID	1/3
		MEA03 - 739	X	Chart Revolution Time (C)	mark as must use	R	1/10 *
		MEA04 - 355	X	DA, HR	mark as must use	ID	2/2
pending	MEA		O/>1	(11th occurrence)			
		MEA02 - 738	O	MEF - Meter Factor	mark as must use	ID	1/3
		MEA03 - 739	X	Machine Constant (C)	mark as must use	R	1/10 *
Sub-detail							
		QTY loop	>1				
1100	QTY		O/1				
		QTY01-673	M	MS - Measured Quantity	[new for DMR 22] mark as must use	ID	2/2
		QTY02-380	X	Measured Quantity (M)	mark as must use	R	1/15
		QTY03-355	X	Measurement Basis BZ, G8, GV	mark as must use	R	1/15
1600	MEA		O/40				
		MEA01-737	O	TR - Test Results	mark as must use	ID	2/2
		MEA02-738	O	Component (BC) H20, ZBT, ZET, ZHP, ZHX, ZMT, ZNP, ZOC, ZPT, HC, ZCD, ZH, ZHS, ZIB, ZN, ZO, ZPP, ZS, ZIP ZCM - Carbon Monoxide	[ZCM new for DMR 19] mark as must use	ID	1/3
		MEA03-739	O	Component Percentage (SO)	mark as must use	R	1/10 *
		MEA04-355	X	P1	mark as must use	ID	2/2

ANSI Compliant Measurement Information and Measured Volume Audit Statement Working Document

Position	Segment	Element	ANSI req des / max use	Literal contents or GISB data element name (and usage)	GISB segment/element note [or other comments]	ANSI data type	GISB Min/ Max *
1600	MEA		O/40				
		MEA02-738	O	QA - Quality Index	mark as must use	ID	1/3
		MEA03-739	O	Heating Factor (BC)	mark as must use	R	1/10 *
		MEA04-355	X	JM, M9	mark as must use	ID	2/2
1600	MEA		O/40				
		MEA02-738	O	SPG - Specific Gravity	mark as must use	ID	1/3
		MEA03-739	O	Specific Gravity (M)	mark as must use	R	1/10 *
		MEA04-355	X	P1	mark as must use	ID	2/2
1600	MEA		O/40				
		MEA02-738	O	OBT - Observed Temperature	mark as must use	ID	1/3
		MEA03-739	O	Temperature (SO)	mark as must use	R	1/10 *
		MEA04-355	X	CE, FA	mark as must use	ID	2/2
1600	MEA		O/40				
		MEA02-738	O	A6 - Average Static Pressure	mark as must use	ID	1/3
		MEA03-739	O	Static Pressure (C)	mark as must use	R	1/10 *
		MEA04-355	X	Static Pressure Indicator (M) KQ, 80, 64	[pending R98013] mark as must use	ID	2/2
1600	MEA		O/40				
		MEA02-738	O	A5 - Average Differential Pressure	mark as must use	ID	1/3
		MEA03-739	O	Differential Pressure (C)	mark as must use	R	1/10 *
		MEA04-355	X	IF, KQ, PS	[pending R98013] mark as must use	ID	2/2
1600	MEA		O/40				
		MEA01-737	O	TI - Time	mark as must use	ID	2/2
		MEA03-739	O	Flow Period (M)	mark as must use	R	1/10 *
		MEA04-355	X	DA, HR	mark as must use	ID	2/2
1600	MEA		O/40				
		MEA01-737	O	R2 - Closing Reading	mark as must use	ID	2/2
		MEA03-739	O	Volume (M)	mark as must use	R	1/10 *
		MEA04-355	X	TZ	mark as must use	ID	2/2
1600	MEA		O/40				
		MEA02-738	O	FR - Flow Rate	mark as must use	ID	1/3
		MEA03-739	O	Flow Rate (C)	mark as must use	R	1/10 *
1600	MEA		O/40				

ANSI Compliant Measurement Information and Measured Volume Audit Statement Working Document

Position	Segment	Element	ANSI req des / max use	Literal contents or GISB data element name (and usage)	GISB segment/element note [or other comments]	ANSI data type	GISB Min/ Max *
		MEA02-738	O	COF - Coefficient Factor	mark as must use	ID	1/3
		MEA03-739	O	Coefficient (C)	mark as must use	R	1/10 *
1600	MEA		O/40				
		MEA02-738	O	ITD - Integrated Differential	[new for DMR 19] mark as must use	ID	1/3
		MEA03-739	O	Integrated Differential (C)	mark as must use	R	1/10 *
1600	MEA		O/40				
		MEA02-738	O	IXD - Index Differential	mark as must use	ID	1/3
		MEA03-739	O	Index Differential (C)	mark as must use	R	1/10 *
1600	MEA		O/40				
		MEA02-738	O	RTB - Reporting Temperature Base	mark as must use	ID	1/3
		MEA03-739	O	Reporting Temperature (C)	mark as must use	R	1/10 *
		MEA04-355	X	CE, FA	mark as must use	ID	2/2
1600	MEA		O/40				
		MEA02-738	O	PRF - Pressure Factor	mark as must use	ID	1/3
		MEA03-739	O	Pressure Factor (BC)	mark as must use	R	1/10 *
2100	DTM				For GISB, this segment is mandatory.		
		DTM01 - 374	M	799 - Test Data Analysis Date		ID	3/3
		DTM05 - 1250	X	D8	mark as must use	ID	2/3
		DTM06 - 1251	X	Gas Analysis Effective Date (BC)	mark as must use	AN	1/35
2100	DTM						
		DTM01 - 374	M	405 - Production		ID	3/3
		DTM05 - 1250	X	RDT, RD8	mark as must use	ID	2/3
		DTM06 - 1251	X	Beginning Flow Date (M), Ending Flow Date (M), Beginning Flow Time (M), Ending Flow Time (M)	mark as must use	AN	1/35
2100	DTM						
		DTM01 - 374	M	119 - Test Performed		ID	3/3
		DTM05 - 1250	X	RDT	mark as must use	ID	2/3
		DTM06 - 1251	X	Date/Time On (C), Date/Time Off (C)	mark as must use	AN	1/35

ANSI Compliant Measurement Information and Measured Volume Audit Statement Working Document

Position	Segment	Element	ANSI req des / max use	Literal contents or GISB data element name (and usage)	GISB segment/element note [or other comments]	ANSI data type	GISB Min/ Max *
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		LM loop	>1				
2600	LM		O/1				
		LM01-559	M	GI - GISB	[new for DMR 17]	ID	2/2
2700	LQ		O/100	(1st occurrence)			
		LQ01-1270	O	BSP - Business Period	[new for DMR 21] mark as must use	ID	1/3
		LQ02-1271	X	Business Period (C) 1, 2	mark as must use	AN	1/30
2700	LQ		O/100	(2nd occurrence)			
		LQ01-1270	O	AJT - Adjustment Type	[on x12dmr10] mark as must use	ID	1/3
		LQ02-1271	X	Adjustment Type (C) ARN, DEE, ECF, ERA, ICA, ICT, IEC, IGQ, IGS, IPI, LNS, MCN, MEF, MNV, QRL, VEN	mark as must use	AN	1/30
2700	LQ		O/100	(3rd occurrence)			
		LQ01-1270	O	SMT - Sample Type	[new for DMR 21] mark as must use	ID	1/3
		LQ02-1271	X	Sample Type (C) A, S	mark as must use	AN	1/30
2700	LQ		O/100	(4th occurrence)			
		LQ01-1270	O	SMD - Sample Device	[new for DMR 21] mark as must use	ID	1/3
		LQ02-1271	X	Sample Device (M) B, C, I	mark as must use	AN	1/30
SE	SE		M/1				

* GISB Min/Max column will contain an * when the GISB values are different than the ANSI ASC X12 values

New items pending from DISA for other documents that also affect this document:

in DMR 10:

Add the following new code values and definitions to data element 1270 and link to Code Source 293 (Gas Industry Standards Board (GISB)):

AJT - Adjustment Type

ANSI Compliant Measurement Information and Measured Volume Audit Statement Working Document

in DMR 16:

add LCD segment to Table 2, PTD loop position 0100, usage Optional, Max Use 2
add LQ segment to Table 2, PTD loop position 0100, usage Optional, Max Use >1

in DMR 17:

LM01 (559) for GISB:

GI - Gas Industry Standards Board (GISB)

in DMR 18:

new code values and definitions for data element 98 (used in LCD02):

MTR - Meter

New items requested from DISA in conjunction with this document:

DMR 19:

add MEA segment to Table 2, PTD loop position 0100, usage Optional, Max Use >1

new code values and definitions for data element 738 (used in MEA02):

DLC - Dial Count

SPS - Static Pressure

ZCM - Carbon Monoxide

COF - Coefficient Factor

ITD - Integrated Differential

IXD - Index Differential

DMR 20:

new code values and definitions for data element 128 (used in REF01):

CHR - Chromatograph Identifier

DMR 21:

new code values and definitions for data element 1270 (linked to Code Source 293):

MT - Meter Type

MS - Meter Status

TL - Tap Location

TA - Tap Type

BSP - Business Period

SMT - Sample Type

SMD - Sample Device

DMR 22:

new code values and definitions for data element 673 (QTY01):

MS - Measured Quantity